



Industrial power tools for:

Shipyards / Solar Energy / Construction / Petrochemical

Assembly Line / Mining Industry / Aviation Industry

Casting Foundry / Fabrication Shop / Automotive Service

Railway Construction



ZIPP GROUP is a global leader in advanced engineering solutions, excelling in air and hydraulic tools, torque control, and industrial automation. With decades of innovation and a focus on quality, it serves industries that demand precision, durability, and efficiency. **ZIPP** combines mechanical expertise with technological advancements across manufacturing, robotics, energy, and automation, offering high-performance tools that boost productivity and reliability.

Its **ZIPP TOOL** division produces durable air, cordless, and hydraulic tools designed for demanding environments, improving safety and reducing fatigue. **ZIPP GEAR** specializes in high-precision gear systems for motion control, robotics, and automation, ensuring high accuracy and durability. **ZIPTORK** provides intelligent torque solutions with real-time measurement, traceability, wireless connectivity, and shock resistance, transforming traditional tools into smart manufacturing solutions.

ZIPP also offers integrated technologies that combine air tools, gears, and torque control into complete solutions that streamline operations and support automation, digital transformation, and sustainability. Every product undergoes rigorous testing, reflecting its commitment to quality and innovation.

As industries evolve, **ZIPP** plays a vital role in powering assembly lines, robotics, energy systems, and heavy industries. Its solutions are core to modern infrastructure, helping businesses produce better, safer, and more sustainable operations.

More than a manufacturer, **ZIPP** drives industrial progress worldwide through its divisions-**ZIPP TOOL**, **ZIPP GEAR**, and **ZIPTORK**-delivering reliable, innovative, and integrated solutions to meet future manufacturing demands.

Warranty Policy

The **ZIPP** warranty covers the original user against defective material or workmanship for one year from the date of purchase on repair parts and labor. The warranty is limited to the repair or replacement of defective parts.

ZIPP reserves the right to determine whether the part or parts failed due to defective material, workmanship, or other causes. This warranty does not cover failures caused by accident, alteration, and misuse.

A **ZIPP** Authorized Service Center or **ZIPP**'s Agent/Distributor must perform all warranty repairs. Any repair to the equipment other than by these authorized facilities will void this warranty.

Conversion Table

PRESSURE				
Pa	MPa	bar	psi	Kg/cm ²
1,000,000	1	10	145	10.197
100,000	0.1	1	14.5	1.0197
6,890	0.00689	0.0689	1	0.0703
98,070	0.09807	0.9807	14.223	1
620,000	0.62	6.2	90	6.3

psi>>kg/cm²: 90psi x 0.0703= 6.327kg/cm²
bar>>psi: 7bar x 14.5= 101.5psi

FLOW RATE			
m ³ /min	cfm	l/min	l/s
1	35.317	1,000	16.668
0.0283	1	28.3168	0.4719
0.001	0.035	1	1.0165
0.061	2.1189	60.606	1

cfm>>l/min: 10cfm x 28.3168= 283.168 l/min
m³/min>>cfm: 10m³/min x 35.317= 353.17cfm

Po: PSI
SCFM= CFM*((Po+14.7)/14.7)

WEIGHT OR FORCE		
lb	kg	N
1	0.4536	4.4484
2.2046	1	9.807
0.2248	0.102	1

kg>>N: 10kg x 9.807= 98.07N
N>>kg: 10N x 0.102= 1.02kg

TORQUE				
N-m	Kg-m	Kg-cm	ft-lb	in-lb
1	0.102	10.1972	0.7376	8.8507
9.8067	1	100	7.233	86.77
0.0986	0.01	1	0.0723	0.8677
1.3558	0.1383	13.83	1	12

N-m>>ft-lb: 10N-m x 0.7376= 7.376 ft-lb
N-m>>kg-m: 10N-m x 0.102= 1.02 kg-m

LENGTH			
mm	m	inch	ft
1	0.001	0.03941	0.0033
1,000	1	39.37	3.2809
25.4	0.0254	1	0.0833
304.8	0.3048	12	1

mm>>inch: 10mm x 0.0394= 0.394 inch
Inch>>mm: 10inch x 25.4= 254mm

POWER	
KW	HP
1	1.341
0.746	1

HP>>KW: 10HP x 0.746= 7.46KW

CONTENTS

Fastening



Cutting / Grinding / Riveting



- 1 Impact Wrench
- 7 Right Angle Wrench
- 8 Mini Impact Wrench
- 10 Composite Impact Wrench
- 12 Twin Turbo Air Impact Wrench
- 14 Torque Wrench
- 15 Ratchet Wrench
- 19 Mini Ratchet Wrench
- 20 Air Open-end Wrench
- 23 Impact Driver
- 24 Torque Control Screwdriver
- 28 High Torque Angle Wrench
- 29 Oil Pulse Tool
- 35 USA Made Pneumatic Torque Wrench
- 36 Air Hydraulic Blind Rivet Installation Tool
- 48 Aviation Nut-Plate Installation Tool
- 49 Aviation Blind Rivet Installation Tool
- 51 Aviation Lock Bolt & Blind Bolt Installation Tools
- 53 Aviation Split type Lock Bolt & Blind Bolt Installation Tool
- 56 Air Hydraulic Rivet Nut / Rivet Stud Installation Tool
- 59 Air Hydraulic Lock Bolt Installation Tool
- 61 Split type Air Hydraulic Blind Rivet / Rivet Nut / Lock Bolt Installation Tool
- 64 Spin-Spin type Rivet Nut Installation Tool
- 67 Speed Riveter
- 72 Compression Rivet Squeezer
- 76 USA Made Pneudraulic Squeezer

- 83 Shock Reduced Air Hammer
- 86 Riveting Hammer
- 87 Shock Reduced Riveting Hammer / Bucking Bar
- 92 Vibration Reduced Air Saw
- 100 Metal Shear / Scissors
- 101 Industrial Drill / Rivet Removal Tool
- 106 Industrial Right Angle Drill
- 109 Die Grinder / Angle Die Grinder
- 115 Micro Die Grinder
- 116 Angle Cutter / Nibbler
- 119 Angle Grinder
- 120 Cut Off Tool
- 121 Reversible Series Tool
- 122 Laser Welding Removal Tool
- 153 Robot Arm / Tapping Tool
- 157 Industrial Angle Grinder
- 159 Industrial Vertical Grinder
- 160 Industrial Straight Grinder

Surface Finishing

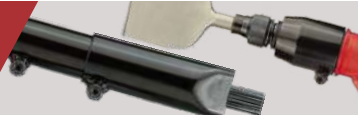


- 97 Vibration Reduced Air Lapper / File
- 104 Air Eraser / Tire Buffer
- 123 Rust & Paint Removal Tool
- 125 Spot Repair Sander
- 127 Sander / Polisher
- 181 Storm Cleaning Gun / Foam Gun



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Construction



- 161 Needle Scaler / Chisel Scaler
- 168 Hand Held Scaling Hammer
- 169 Long Reach Air Scraper
- 172 Air Rammer
- 173 Chipping Hammer
- 174 Shock Reduced Chipping Hammer
- 175 Concrete Breaker
- 176 USA Made Chipping Hammer / Clay Digger
- 177 USA Made Rivet Buster
- 178 USA Made Hammer Drill / Rock Drill
- 179 USA Made Pavement Breaker
- 180 USA Made Back Fill Tamper / Trench Digger

Electric Power

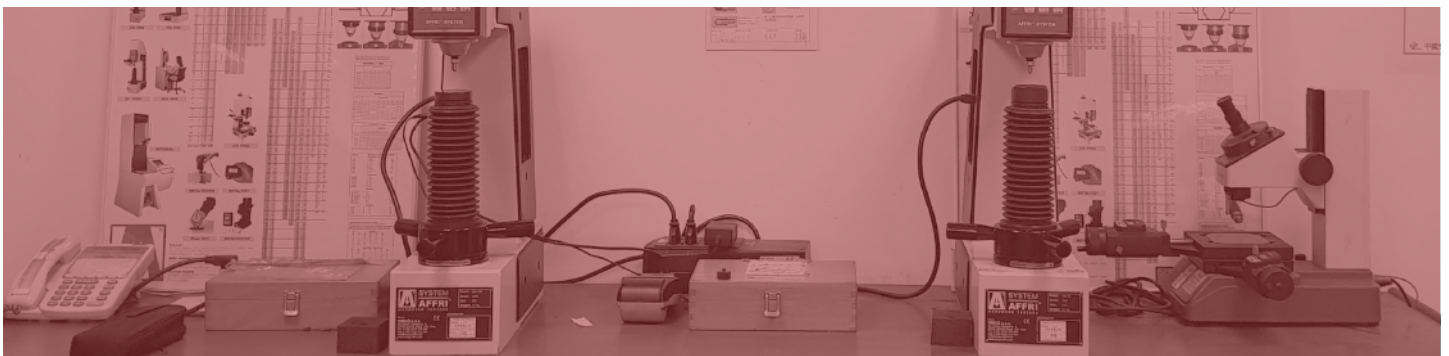


- 183 Brushless BOBTAIL® / NEOBOLT® Tool
- 184 Cordless Brushless Rivet Tool
- 185 Cordless Rivet Tool
- 186 Cordless Brushless Rivet Nut Tool
- 187 Cordless Drill With / Driver With Torque Control / Hammer Drill
- 188 Cordless Impact Driver / Angle Grinder
- 189 Cordless Impact Wrench
- 190 LED Work Light
- 193 Cordless Torque Control Screwdriver
- 195 Hyper Sander
- 196 Industrial Vacuum Cleaner

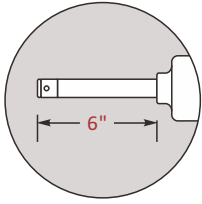
Accessories



- 55 Blind Rivet / Rivet Nut Adapter
- 81 Rivet Squeezer Accessories
- 90 Rivet Chisels / Retainers
- 99 Saw Blades / Files
- 145 Air Sander Accessories
- 150 Industrial Anti-Vibration Sander Pad
- 171 Dimensions and Accessories
- 197 Universal Swivel Air inlet Joint
- 199 Spring Balancer
- 202 F.R.L. Unit / Auto Drain
- 203 Display Stand



Air Impact Wrench

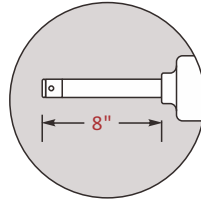


ZIW1038 twin hammer mechanism

1" Impact wrench

ZIW1038-6 twin hammer mechanism

1" Impact wrench w/6" extension



ZIW1075 Pinless mechanism

1" Impact wrench

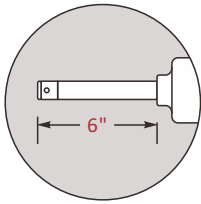
ZIW1075-8 Pinless mechanism

1" Impact wrench w/8" extension



ZIW1076 Pinless mechanism

1-1/2" Impact wrench

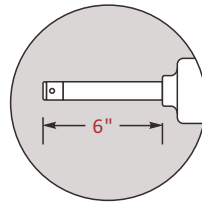


ZIW812 Rear Exhaust

1" Impact wrench

ZIW812L Rear Exhaust

1" Impact wrench w/6" extension



ZIW818 Rear Exhaust

1" Impact wrench

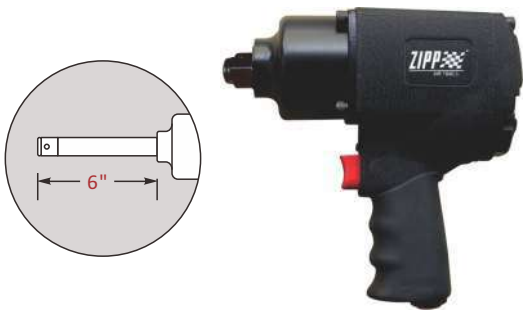
ZIW818L Rear Exhaust

1" Impact wrench w/6" extension

<p>New Twin Hammer Design</p>		<ul style="list-style-type: none"> Adjustable 3 stages speed for Forward/Reverse Use for heavy automotive and truck repair, construction or assembly line. With new twin hammer design and hot forged alloy steel made Hammer cage & Anvil to create more torque and 3 times longer life span than traditional design.
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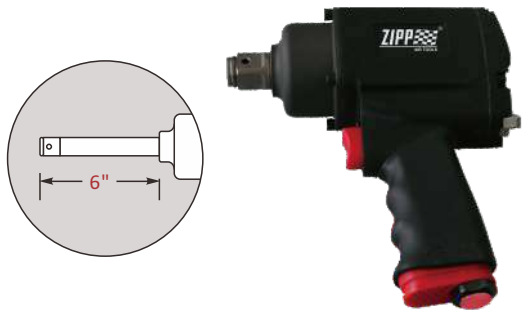
Model	Square Drive inch(mm)	Free Speed rpm	Max. Torque (15 secs) ft-lb(Nm)	Working torque (5 secs) ft-lb(Nm)	Avg. Air Cons. cfm(l/min)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT	Impact mechanism
ZIW1038	1(25)	3600	2300(3118)	2000(2712)	11(311)	23.6(10.7)	1/2	Twin Hammer
ZIW1038-6	1(25)	3600	2300(3118)	2000(2712)	11(311)	25.8(11.7)	1/2	Twin Hammer
ZIW1075	1(25)	3500	2600(3525)	2300(3118)	12(339)	31.7(14.4)	1/2	Pin Less
ZIW1075-8	1(25)	3500	2600(3525)	2300(3118)	12(339)	35.7(16.2)	1/2	Pin Less
ZIW1076	1-1/2(38)	4000	2600(3525)	2300(3118)	12(339)	31.3(14.2)	1/2	Pin Less
ZIW812	1(25)	6000	1200(1627)	1000(1356)	24.7(700)	9.35(4.25)	1/4	Twin Hammer
ZIW812L	1(25)	6000	1200(1627)	1000(1356)	24.7(700)	11.3(5.13)	1/4	Twin Hammer
ZIW818	1(25)	4500	1800(2400)	1600(2169)	11.3(320)	11.88(5.5)	3/8	Twin Hammer
ZIW818L	1(25)	4500	1800(2400)	1600(2169)	11.3(320)	13.61(6.3)	3/8	Twin Hammer

Air Impact Wrench



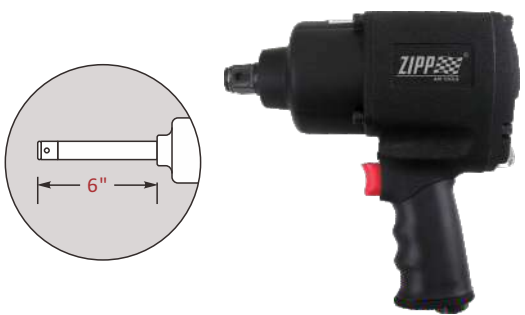
ZIW611 Rear Exhaust
3/4" Impact wrench

ZIW611L Rear Exhaust
3/4" Impact wrench w/6" extension



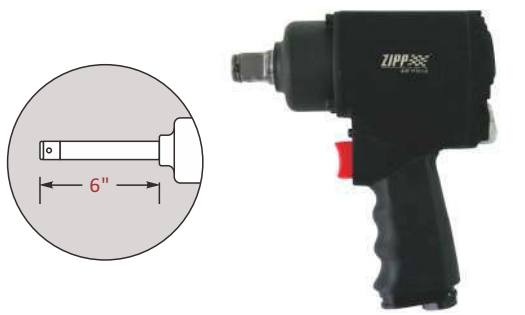
ZIW6511 Rear Exhaust
3/4" Impact wrench

ZIW6511L Rear Exhaust
3/4" Impact wrench w/6" extension




ZIW6514 Rear Exhaust
3/4" Impact wrench

ZIW6514L Rear Exhaust
3/4" Impact wrench w/6" extension



ZIW685 Rear Exhaust
3/4" Impact wrench

ZIW685L Rear Exhaust
3/4" Impact wrench w/6" extension

<p style="text-align: center; margin: 0;">New Twin Hammer Design</p>		<ul style="list-style-type: none"> Adjustable 3 stages speed for Forward/Reverse Use for heavy automotive and truck repair, construction or assembly line. With new twin hammer design and hot forged alloy steel made Hammer cage & Anvil to create more torque and 3 times longer life span than traditional design.
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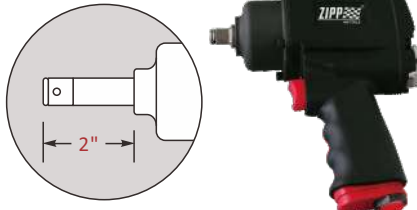
Model	Square Drive inch(mm)	Std. Bolt Size inch(mm)	Free Speed rpm	Max. Torque (10 secs) ft-lb(Nm)	Working torque (5 secs) ft-lb(Nm)	Avg. Air Cons. cfm(l/min)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT
ZIW611	3/4(19)	1-1/2(38)	6000	1100(1492)	900(1220)	24.7(700)	9.13(4.15)	1/4
ZIW611L	3/4(19)	1-1/2(38)	6000	1100(1492)	900(1220)	24.7(700)	10.45(4.75)	1/4
ZIW6511	3/4(19)	1-1/4(32)	7200	1100(1492)	850(1153)	8.12(230)	5.8(2.64)	1/4
ZIW6511L	3/4(19)	1-1/4(32)	7200	1100(1492)	850(1153)	8.12(230)	7(3.2)	1/4
ZIW6514	3/4(19)	1-1/2(38)	4500	1400(1898)	1100(1492)	26.4(747)	11(5)	1/4
ZIW6514L	3/4(19)	1-1/2(38)	4500	1400(1898)	1100(1492)	26.4(747)	12.9(5.87)	1/4
ZIW685	3/4(19)	1-9/64(29)	7500	850(1153)	650(881)	7.42(210)	5.61(2.55)	1/4
ZIW685L	3/4(19)	1-9/64(29)	7500	850(1153)	650(881)	7.42(210)	6.78(3.08)	1/4

- Operating Air Pressure: 90(6.2) psi(bar)
- Min. Hose Size: 3/8(10) inch(mm)

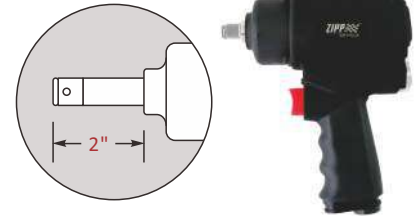
Air Impact Wrench



ZIW4100 Rear Exhaust
1/2" Impact wrench
Noise: 94dB(A), Vibration: 2.5(m/s²)



ZIW4510 Rear Exhaust
1/2" Impact wrench



ZIW480 Rear Exhaust
1/2" Impact wrench

ZIW4100Q Rear Exhaust
1/2" Impact wrench-Low noise
Noise: 85dB(A), Vibration: 2.5(m/s²)

ZIW4510L Rear Exhaust
1/2" Impact wrench w/2" extension

ZIW480L Rear Exhaust
1/2" Impact wrench w/2" extension

**New
Twin Hammer
Design**

- Adjustable 3 stages speed for Forward/Reverse
- Use for heavy automotive and truck repair, construction or assembly line.
- With new twin hammer design and hot forged alloy steel made Hammer cage & Anvil to create more torque and 3 times longer life span than traditional design.



ZIW465 Front Exhaust
1/2" Impact Wrench



ZIW465R Rear Exhaust
1/2" Impact Wrench

New Twin Hammer Design

- Use for heavy automotive and truck repair, construction or assembly line.
- With new twin hammer design and hot forged alloy steel made Hammer cage & Anvil to create more torque and 3 times longer life span than traditional design.

ZIW465K / ZIW465RK

- ZIW465R Impact Wrench X 1
OR ZIW465 Impact Wrench X 1
- 1/2" sockets X5
(14,16,17,19,22mm)
OR (15/16,7/8,3/4,5/8,1/2inch)
- 5mm hex. wrench
- 3" extension anvil

Model	Square Drive inch(mm)	Std. Bolt Size inch(mm)	Free Speed rpm	Max. Torque (10 secs) ft-lb(Nm)	Working torque (5 secs) ft-lb(Nm)	Avg. Air Cons. cfm(l/min)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT
ZIW4100	1/2(12.7)	29/32(23)	9000	1000(1356)	750(1017)	5.1(144)	3.89(1.8)	1/4
ZIW4100Q	1/2(12.7)	29/32(23)	7000	1000(1356)	750(1017)	5.1(144)	3.89(1.8)	1/4
ZIW4510	1/2(12.7)	1-9/64(29)	7200	1000(1356)	750(1017)	8.12(230)	5.7(2.6)	1/4
ZIW4510L	1/2(12.7)	1-9/64(29)	7200	1000(1356)	750(1017)	8.12(230)	5.94(2.7)	1/4
ZIW480	1/2(12.7)	1-1/16(27)	7500	800(1085)	600(814)	7.42(210)	5.5(2.5)	1/4
ZIW480L	1/2(12.7)	1-1/16(27)	7500	800(1085)	600(814)	7.42(210)	5.72(2.6)	1/4
ZIW465	1/2(12.7)	3/4(19)	8000	450(610)	380(515)	7.7(220)	5.7(2.6)	1/4
ZIW465R	1/2(12.7)	3/4(19)	7000	450(610)	380(515)	7(200)	5.7(2.6)	1/4

- Operating Air Pressure: 90(6.2) psi(bar)
- Min. Hose Size: 3/8(10) inch(mm)

Air Impact Wrench



ZIW440 Rear Exhaust
1/2" Mini Impact Wrench



ZIW335 Rear Exhaust
3/8" Mini Impact Wrench

New
Twin Hammer
Design

- Adjustable 3 stages speed for Forward/Reverse
- Most power and compact, deliver best Power-to-Size ratio in this class
- Use for heavy automotive and truck repair, construction or assembly line.
- With new twin hammer design and hot forged alloy steel made Hammer cage & Anvil to create more torque and 3 times longer life span than traditional design.



ZIW305 Rear Exhaust
3/8" Impact Wrench



ZIW304S Side Exhaust
3/8" Straight Impact Wrench



ZIW344 Rear Exhaust
3/8" Air Impact Wrench

Twin Hammer		Twin Hammer (ZIW344)	
	<ul style="list-style-type: none"> ● Two Hammer Design ● Forward/Reverse ● Use for general automotive repair or assembly line. 		<ul style="list-style-type: none"> ● Double-Chamber 9 vanes motor provides the highest output power comparing with conventional motor for the highest productivity. ● Double Pin Hammer mechanism. ● One piece front end plate & cylinder design to improve motor efficiency. ● User friendly side reverse switch.

Model	Square Drive inch(mm)	Std. Bolt Size inch(mm)	Free Speed rpm	Max. Torque (10 secs) ft-lb(Nm)	Avg. Air Cons. cfm(l/min)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT	Min. Hose Size inch(mm)
ZIW440	1/2(12.7)	5/8(16)	11000	400(543)	7(200)	3.3(1.5)	1/4	3/8(10)
ZIW335	3/8(10)	9/16(14)	11000	350(475)	7(200)	3.3(1.5)	1/4	3/8(10)
ZIW305	3/8(10)	5/16(8)	8500	1 sec. 45(61)	5.6(160)	2.3(1.05)	1/4	1/4(6.35)
ZIW304S	3/8(10)	5/16(8)	8000	1 sec. 43(58)	5.6(160)	2.2(1)	1/4	1/4(6.35)
ZIW344	3/8(10)	5/16(8)	5000	44(60)	17.7(500)	2(0.93)	1/4	1/4(6.35)

● Operating Air Pressure: 90(6.2) psi(bar)

Air Impact Wrench



ZAW-412B2

Two Hammer Type Side Exhaust

1/4" Air Wrench



ZAW-412B3

Two Hammer Type Side Exhaust

3/8" Air Wrench



ZAW-417B

Two Hammer Type Rear Exhaust

3/8" Air Wrench



ZAW-910B1

Two Hammer Type Rear Exhaust

3/8" Air Wrench-with muffler



ZAW-410B

Two Hammer Type Side Exhaust

3/8" Air Wrench



ZAW-421B3

Two Hammer Type Side Exhaust

3/8" Air Wrench



ZAW-211B

Two Hammer Type Rear Exhaust

1/2" Air Wrench



ZAW-241B

Two Hammer Type Side Exhaust

1/2" Air Wrench

Model	Bolt Size Capacity	Free Speed rpm	Working Torque ft-lb(Nm)	Max. Torque ft-lb(Nm)	Avg. Air Cons. cfm(l/min)	Overall Length inch(mm)	Noise Level db(A)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT
ZAW-412B2	M8	11000	20(27)	26(35)	4.5(127)	7.01(178)	89	1.5(0.68)	1/4
ZAW-412B3	M8	11000	20(27)	26(35)	4.5(127)	7.01(178)	89	1.5(0.68)	1/4
ZAW-417B	M10	8000	59(80)	148(200)	7.5(212)	8.86(225)	90	2.36(1.07)	1/4
ZAW-910B1	M10	8000	59(80)	96(130)	6.5(184)	9.06(230)	80	2.65(1.2)	1/4
ZAW-410B	M10	8300	59(80)	148(200)	7.5(212)	7.48(190)	94	2.16(0.98)	1/4
ZAW-421B3	M10~M12	8000	66(90)	177(240)	10(283)	7.48(190)	97	2.34(1.06)	1/4
ZAW-211B	M12~M14	5500	118(160)	207(280)	8.5(240)	10.24(260)	85	3.75(1.7)	1/4
ZAW-241B	M16~M18	4400	236(320)	369(500)	10(283)	13(330)	95	7.5(3.4)	1/4

• Operating Air Pressure: 90(6.2) psi(bar)

Air Impact Wrench



ZAW-412LB2

Two Hammer Type Handle Exhaust

1/4" Air Wrench



ZAW-412LB3

Two Hammer Type Handle Exhaust

3/8" Air Wrench



ZAW-514LB2

Two Hammer Type Handle Exhaust

1/4" Air Wrench



ZAW-514LB3

Two Hammer Type Handle Exhaust

3/8" Air Wrench



ZAW-417SL1

Two Hammer Type Side Exhaust

3/8" Air Wrench



ZAW-410LB

Two Hammer Type Side Exhaust

3/8" Air Wrench



ZAW-517LB

Two Hammer Type Handle Exhaust

3/8" Air Wrench



ZAW-421LB3

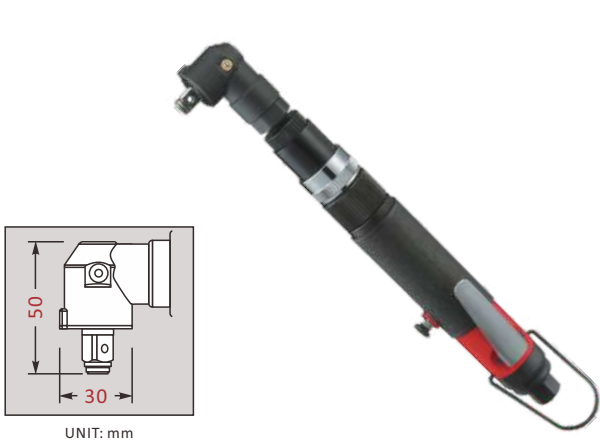
Two Hammer Type Side Exhaust

3/8" Air Wrench

Model	Bolt Size Capacity	Free Speed rpm	Working Torque ft-lb(Nm)	Max. Torque ft-lb(Nm)	Avg. Air Cons. cfm(l/min)	Overall Length inch(mm)	Noise Level db(A)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT
ZAW-412LB2	M8	13000	20(27)	26(35)	7(198)	5.71(145)	88	1.98(0.9)	1/4
ZAW-412LB3	M8	13000	20(27)	26(35)	7(198)	5.71(145)	88	1.98(0.9)	1/4
ZAW-514LB2	M8	11500	20(27)	22(30)	6(170)	6.1(155)	87	1.98(0.9)	1/4
ZAW-514LB3	M8	11500	20(27)	22(30)	6(170)	6.1(155)	87	1.98(0.9)	1/4
ZAW-417SL1	M10	8000	59(80)	148(200)	8(226)	7.2(183)	94	2.65(1.2)	1/4
ZAW-410LB	M10	7700	59(80)	148(200)	7(198)	7.28(185)	89	2.87(1.3)	1/4
ZAW-517LB	M12	8000	74(100)	140(190)	10(283)	6.3(160)	87	2.65(1.2)	1/4
ZAW-421LB3	M12	8000	81(110)	177(240)	10(283)	7.28(185)	93	2.89(1.34)	1/4

• Operating Air Pressure: 90(6.2) psi(bar)

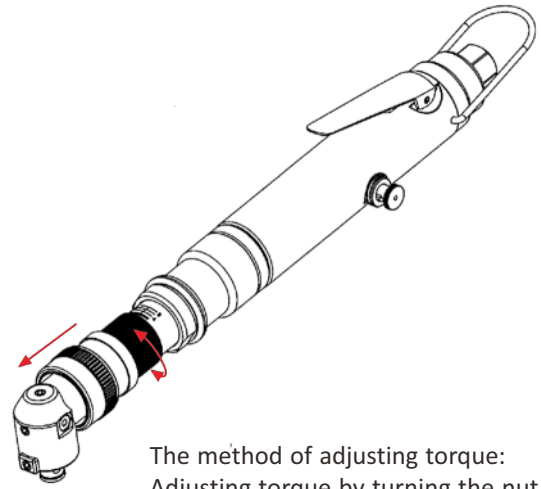
Right Angle Wrench



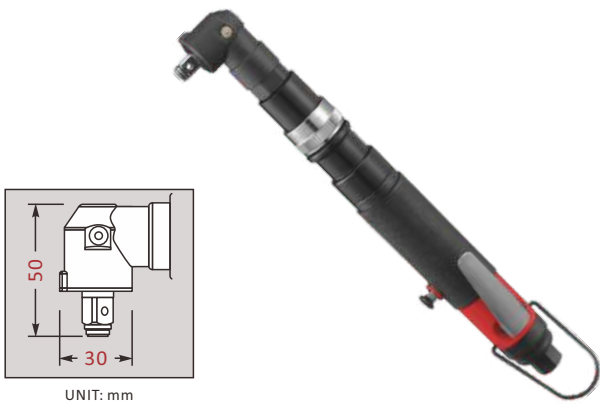
ZRAW-6CLB08 / ZRAW-6CLB15

Clutch Type Rear Exhaust

3/8" Air Wrench



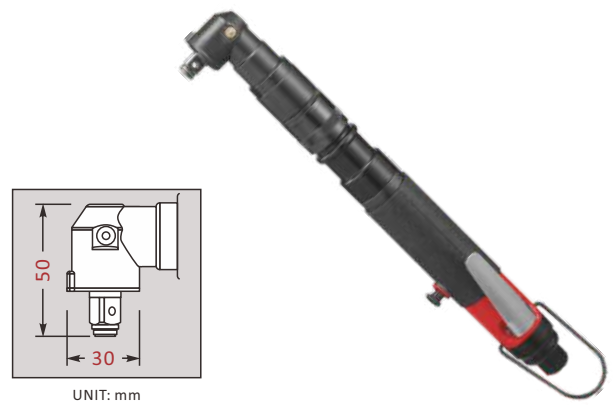
The method of adjusting torque:
Adjusting torque by turning the nut.



ZRAW-6SLB08 / ZRAW-6SLB15

Torque Control Type Rear Exhaust

3/8" Air Wrench-Air shut off



ZRAW-6SLB03

Torque Control Type Rear Exhaust

3/8" Air Wrench-Air shut off

Model	Screw Size Capacity	Free Speed rpm	Max. Torque ft-lb(Nm)	Avg. Air Cons. cfm(l/min)	Overall Length inch(mm)	Noise Level db(A)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT
ZRAW-6CLB08	M5	800	3.7(5)	7(198)	13.15(334)	80	2.76(1.25)	1/4
ZRAW-6CLB15	M5	1450	3.7(5)	7(198)	13.15(344)	80	2.76(1.25)	1/4
ZRAW-6SLB15	M4	1450	0.9~1.8(1.2~2.4)	7(198)	13.39(340)	80	2.69(1.22)	1/4
ZRAW-6SLB08	M5	800	1.6~3.2(2.2~4.3)	7(198)	13.39(340)	80	2.69(1.22)	1/4
ZRAW-6SLB03	M6	340	3~7.4(4~10)	7(198)	13.77(350)	80	2.86(1.3)	1/4

● Operating Air Pressure: 90(6.2) psi(bar)

Mini Air Impact Wrench

Features

- Adjustable 3 stages speed for Forward/Reverse
- Most power and compact, deliver best Power-to-Size ratio in this class
- Use for heavy automotive and truck repair, construction or assembly line.
- With new twin hammer design and hot forged alloy steel made Hammer cage & Anvil to create more torque and 3 times longer life span than traditional design.



ZIW4207J Rear Exhaust
1/2" Micro Mini Air Impact Wrench



ZIW3207J Rear Exhaust
3/8" Micro Mini Air Impact Wrench

ZIW4206T Rear Exhaust
1/2" Micro Mini Air Impact Wrench

ZIW3206T Rear Exhaust
3/8" Micro Mini Air Impact Wrench

Accessories



- Mini air impact X 1
- Oiler X 1
- 3" Extension bar X 1
- 8 pcs Metric or SAE Cr-Mo sockets
10, 13, 14, 16, 17, 19, 21, 22mm
or 5/16", 3/8", 7/16", 1/2", 9/16",
5/8", 11/16", 3/4"

w/ 8 pcs metric sockets	
ZIW4207JK-M	1/2" mini impact kit
ZIW3207JK-M	3/8" mini impact kit
ZIW4206TK-M	1/2" mini impact kit
ZIW3206TK-M	3/8" mini impact kit

Jumbo Hammer Design	New Twin Hammer Design	w/ 8 pcs imperial sockets	
		ZIW4207JK-E	1/2" mini impact kit
		ZIW3207JK-E	3/8" mini impact kit
		ZIW4206TK-E	1/2" mini impact kit
		ZIW3206TK-E	3/8" mini impact kit

Model	Square Drive inch(mm)	Std. Bolt Size inch(mm)	Free Speed rpm	Max. Torque (10 secs) ft-lb(Nm)	Avg. Air Cons. cfm(l/min)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT
ZIW4206T	1/2(12.7)	5/8(16)	11000	450(610)	7(200)	3(1.37)	1/4
ZIW3206T	3/8(10)	5/8(16)	11000	400(542)	7(200)	3(1.37)	1/4
ZIW4207J	1/2(12.7)	5/8(16)	11000	500(678)	7(200)	3(1.37)	1/4
ZIW3207J	3/8(10)	5/8(16)	11000	450(610)	7(200)	3(1.37)	1/4

- Operating Air Pressure: 90(6.2) psi(bar)
- Min. Hose Size: 3/8(10) inch(mm)

Mini Air Impact Wrench

Application:

Designed for difficult work in the confined space for Transmission, Engine and Brake.



Jumbo Hammer Design

ZIW440JL
1/2" Angle Impact Wrench

Rotary Exhaust



ZIW340JLU
3/8" Adjustable Angle Mini Impact Wrench
ZIW440JLU
1/2" Adjustable Angle Mini Impact Wrench

Rotary Exhaust



New patented anvil design to add the grease into the impact mechanism without disassembly the tool.



ZIW417JA
ZIW417JAQ With Muffler
1/2" Super Light Mini Air Impact Wrench

Handle Exhaust



ZIW417J
ZIW417JQ With Muffler
1/2" Super Light Mini Air Impact Wrench

Handle Exhaust



ZIW418T
ZIW418TQ With Muffler
1/2" Super Light Mini Air Impact Wrench

Handle Exhaust



Model	Square Drive inch(mm)	Std. Bolt Size inch(mm)	Free Speed rpm	Max. Torque (10 secs) ft-lb(Nm)	Avg. Air Cons. cfm(l/min)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT
ZIW340JLU	3/8(10)	5/8(16)	9000	450(610)	4.2(119)	2.78(1.26)	1/4
ZIW440JLU	1/2(12.7)	5/8(16)	9000	450(610)	4.2(119)	2.78(1.26)	1/4
ZIW440JL	1/2(12.7)	5/8(16)	9000	450(610)	4.12(117)	2.78(1.26)	1/4
ZIW417JA	1/2(12.7)	5/8(16)	10000	700(949)	7.42(210)	3(1.37)	1/4
ZIW417JAQ	1/2(12.7)	5/8(16)	8500	700(949)	7.42(210)	3(1.37)	1/4
ZIW417J	1/2(12.7)	5/8(16)	9500	700(949)	7.42(210)	3.19(1.45)	1/4
ZIW417JQ	1/2(12.7)	5/8(16)	8000	700(949)	7.42(210)	3.19(1.45)	1/4
ZIW418T	1/2(12.7)	5/8(16)	10000	750(1017)	7.42(210)	3.3(1.5)	1/4
ZIW418TQ	1/2(12.7)	5/8(16)	9500	750(1017)	7.42(210)	3.3(1.5)	1/4

- Operating Air Pressure: 90(6.2) psi(bar)
- Min. Hose Size: 3/8(10) inch(mm)

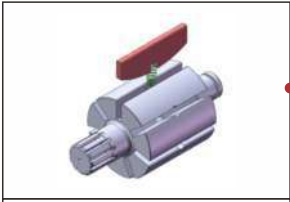
Composite Air Impact Wrench



Twin hammer impact mechanism to perform best torque output, and Special Hardened-Treatment to maintain best durability.

Special Hardened Cylinder, Front plate and Rear late to generate best durability.

Titanium clutch case to re-enforce the strength (ZIW1063CT).



Vane with spring mounted to prevent dead-lock or power-less problem.

Composite handle to provide best power-to-weight ratio, and prevent uncomfortable usage during the temperature change.



3 different speed adjustment at Forward direction, 1 full speed at Reverse direction.



OPT.
Pin Type Anvil

ZIW1015C
1/2" Composite Air Impact Wrench



ZIW1015CTL
1/2" Composite Torque Limited Impact Wrench



ZIW1077C
3/4" Composite Air Impact Wrench

ZIW1077C-3
w/3" extension

ZIW1077C-6
w/6" extension



ZIW1078C
1" Composite Air Impact Wrench

360 degree swivel air inlet to prevent air hose twisted.

Model	Square Drive inch(mm)	Free Speed rpm	Max. Torque (15 secs) ft-lb(Nm)	Working Torque (5 secs) ft-lb(Nm)	Avg. Air Cons. cfm(l/min)	Net Weight lbs(kgs)	Impact mechanism
ZIW1015C	1/2(12.7)	8500	820(1100)	650(880)	4.9(139)	4.6(2.1)	Twin Hammer
ZIW1015CTL	1/2(12.7)	8500	820(1111)	55~66(75~90)	5.5(158)	4.6(2.1)	Twin Hammer
ZIW1077C	3/4(19)	5500	1500(2030)	1200(1630)	4.9(139)	8.2(3.7)	Twin Hammer
ZIW1077C-3	3/4(19)	5500	1500(2030)	1200(1630)	4.9(139)	9.3(4.2)	Twin Hammer
ZIW1077C-6	3/4(19)	5500	1500(2030)	1200(1630)	4.9(139)	9.9(4.5)	Twin Hammer
ZIW1078C	1(25)	5500	1500(2030)	1200(1630)	4.9(139)	8.2(3.7)	Twin Hammer

Composite Air Impact Wrench



ZIW1200 Handle Exhaust
1" Composite Impact Wrench



ZIW1200-6 Handle Exhaust
1" Composite Impact Wrench
w/6" extension



ZIW1201 Side Exhaust
1" Composite Impact Wrench



ZIW1201-8 Side Exhaust
1" Composite Impact Wrench
w/8" extension

<ul style="list-style-type: none"> • Twin hammer Anvil Material • Japan SNCM 616 	<ul style="list-style-type: none"> • Cast iron cylinder • Cylinder Material FCD45 • Heat treatment HRC 47~52° 	<ul style="list-style-type: none"> • Blade auxiliary spring means Spring Material Stainless steel (304) Customized spring holder. • 1 million tests by stretching test pass.

Model	Square Drive inch(mm)	Free Speed rpm	Max. Torque (15 secs) ft-lb(Nm)	Working Torque (5 secs) ft-lb(Nm)	Avg. Air Cons. cfm(l/min)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT	Impact mechanism
ZIW1200	1(25)	5500	2400(3240)	2200(2970)	7.5(212)	12.98(5.9)	1/4	Twin Hammer
ZIW1200-6	1(25)	5500	2400(3240)	2200(2970)	7.5(212)	14.96(6.8)	1/4	Twin Hammer
ZIW1201	1(25)	5500	2400(3240)	2200(2970)	7.5(212)	14.3(6.5)	1/4	Twin Hammer
ZIW1201-8	1(25)	5500	2400(3240)	2200(2970)	7.5(212)	17.16(7.9)	1/4	Twin Hammer

Viton oil seal to prevent oil leakage excellent resistance to petroleum products.

Good high temperature and low compression characteristic.

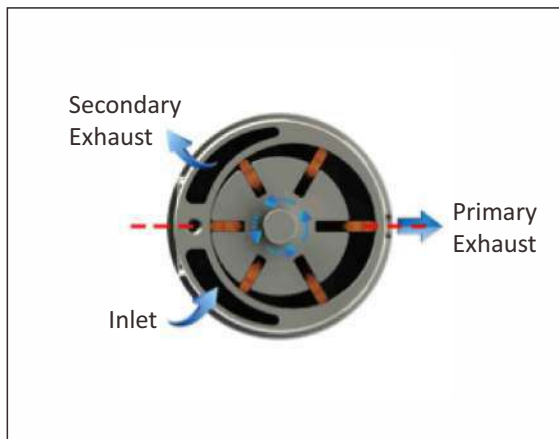
Well balanced and lightweight (1.6 kg), with an ergonomic composite handle

Patented double air intake motor system; delivers highest torque in absolutely compact air wrench

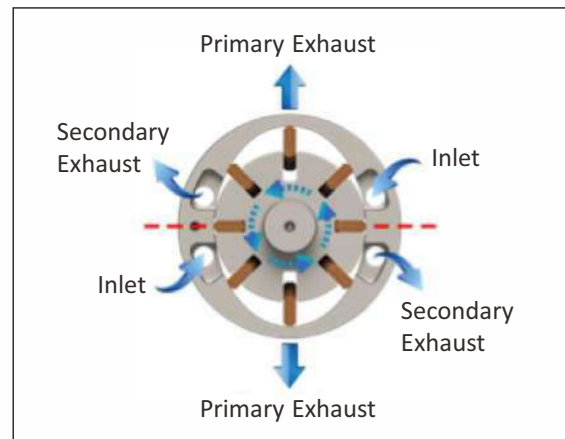
One handed operation, easy to switch Forward and Reverse by a thumb; setting with, 2 speeds of Forward and 1 speed of reverse



Revolutionary PAT. Double Air Intake Technology



Normal Air Intake



PAT. DAI Technology

Double Air Intake (D.A.I) delivers the utmost high torque yet down the size of impact gun with lightweight.

Features & Benefits

- Revolutionary patented DAI Double Air Intake motor system, Innovative design increased air intake flow delivers high torque in absolutely compact machine.
- One handed switch for 2 speeds forward, 1 speed reverse.
- The shortest length for better access in tight areas.
- Ergonomics comfort handle with well-balanced for users friendly.
- Viton oil seal to prevent oil leakage under high performance and high temperature.
- Front and end rotor plate insert a thin steel plate to prevent wear, keeps high performance.
- Cold resistance against -25°C for composite motor housing.
- Complicated processing, special material of rotor blade to provide wear resistance & very long life.

Twin Turbo Air Impact Wrench



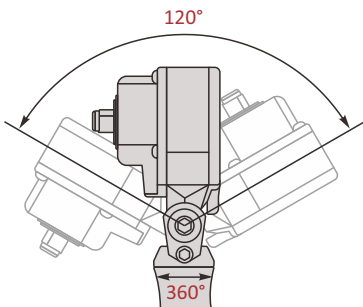
ZIW1010C

1/2" MINI Composite Air Impact Wrench



ZIW1020C

1/2" Composite Air Impact Wrench
Nut Busting torque: 2356Nm, Bolt: 25.14mm



- 120-degree Bend-Over Hammer Head
- 360-degree free swivel Handle



ZIW340FA

3/8" Drive Dual-flex Angle Pneumatic Impact Wrench

- Double Air Intake motor
- Twin hammer mechanism (Low vibration)
- Working torque: 400 ft-lbs
- Nut Busting torque: 963 ft-lbs (14.58 sec.)
- Sound pressure level: 90.1 dB(A) Lp A
- Vibration acceleration: 4.89 m/s²
- Bolt Capacity: 1/2" (13 mm)

ZIW410FA

1/2" Drive Dual-flex Angle Pneumatic Impact Wrench

- Twin hammer impact wrench with pivoting head.
- Recommended torque: 450 Nm (333 ft-lbs)
- Forward and reverse: single-stage(right/left)
- Short, compact, angled design.
- Coupler plug: Nominal size 7.2(included)
- Cold insulated handle
- Powerful twin hammer mechanism



ZIW337P

3/8" Twin Turbo Palm Air Impact Wrench

ZIW437P

1/2" Twin Turbo Palm Air Impact Wrench

- Powerful Twin turbo air inlet motor and twin hammer impact wrench with super low vibration and super low reaction force.
- Working torque: 450 Nm (332 ft-lbs)
- Forward and reverse: single-stage (right/left)
- Cold insulated handle

Model	Square Drive inch(mm)	Free Speed rpm	Max. Torque ft-lb(Nm)	Avg. Air Cons. cfm(l/min)	Overall Length inch(mm)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT	Impact mechanism
ZIW1010C	1/2(12.7)	10000	500(680)	4.7(133)	4.8(122)	2.87(1.3)	1/4	Twin Hammer
ZIW1020C	1/2(12.7)	8300	1000(1350)	5.2(147)	5.9(150)	3.53(1.6)	1/4	Twin Hammer
ZIW340FA	3/8(10)	8500	400(542)	4(113)	3.46(88)	3.06(1.39)	1/4	Twin Hammer
ZIW410FA	1/2(12.7)	8000	370(500)	4(113)	3.35(85)	2.87(1.3)	1/4	Twin Hammer
ZIW337P	3/8(10)	8000	369(500)	4(113)	3.35(85)	2.43(1.1)	1/4	Twin Hammer
ZIW437P	1/2(12.7)	8000	369(500)	4(113)	3.35(85)	2.43(1.1)	1/4	Twin Hammer

- Operating Air Pressure: 90(6.2) psi(bar)
- Min. Hose Size: 3/8(10) inch(mm)

Air Torque Wrench

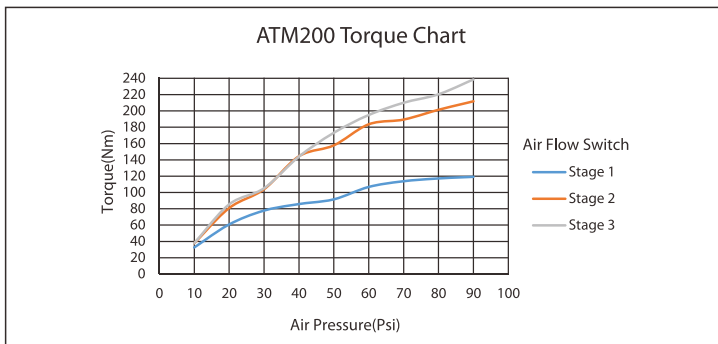
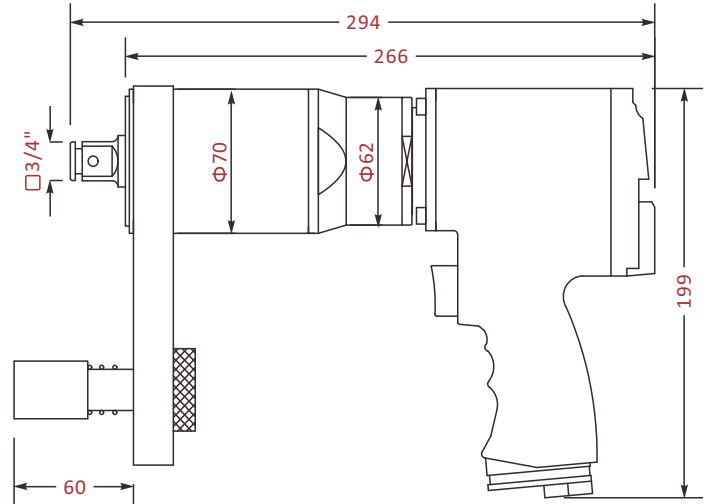
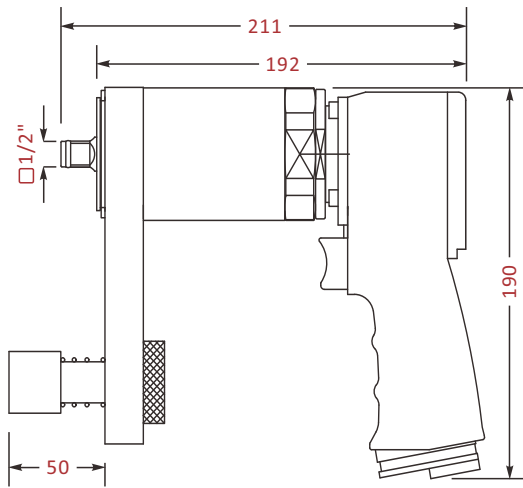


ATM200
1/2" Air Torque Wrench

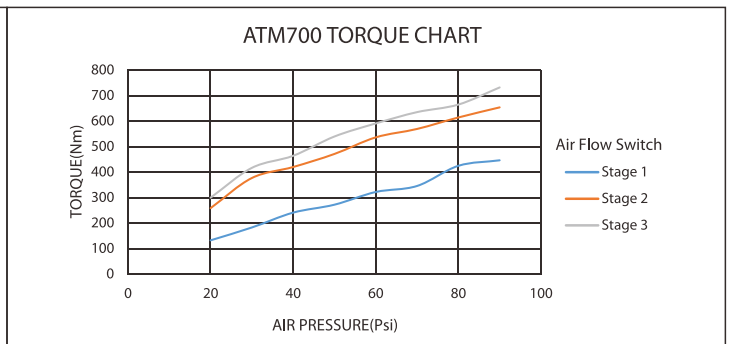


ATM700
3/4" Air Torque Wrench

Supplied with air hose set, FRL unit, reaction arm & chart.



Measured on HBM torque tester: I.D. 8mm* O.D. 12mm * 3m air hose



Measured on HBM torque tester: I.D. 8mm* O.D. 12mm * 3m air hose

Model	Square Drive inch(mm)	Free Speed rpm	Max. Torque ft-lb(Nm)	Avg. Air Cons. cfm(l/min)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT
ATM200	1/2(12.7)	84	147.5(200)	11.2(320)	10.14(4.6)	1/4
ATM700	3/4(19)	18	516(700)	12.25(350)	14.33(6.5)	1/4

- Operating Air Pressure: 90(6.2) psi(bar)
- Min. Hose Size: 3/8(10) inch(mm)

Air Ratchet Wrench



ZHD-7728
Hi-Lok® Installation Mini-Ratchet



ZHD-7748
Hi-Lok® Installation Mini-Ratchet
● Anvil Size: 1/4 & 3/8(6 & 10) Inch(mm)



ZP168 1/4" Air Stubby Ratchet Wrench
ZP169 3/8" Air Stubby Ratchet Wrench



ZP161 0.5HP
Low Noise 1/2" Air Ratchet Wrench

ZP163 0.5HP
Low Noise 3/8" Air Ratchet Wrench

- The ZP161-LN & ZP163-LN Air Ratchets are rugged, variable speed, reversible air ratchets.
- It's paddle-style trigger provides better speed control and the polyurethane handle helps maintain temperature and insulate vibration.
- Unique ratchet head design insures the wrench free of failure.

Tool Advantages:

The right air ratchet for your Hi-Lok® installation for the quality seeking airframe mechanic.

- 1/4" adapter that stays attached to the tool. (With a special designed cap).
- Adjustable throttle to control the tool speed.
- 'No-mar' rubber protection.
- Thru-hole to be used with HEX key.
- Friction ring mechanism to keep the socket on the drive.
- Hi-Lok® Capacity up to - 1/4" in Al, 3/16" in Stainless Steel.

	ZP161K / ZP163K
	<p>Air Ratchet Wrench Kit</p> <p>Specifications:</p> <ul style="list-style-type: none"> ● 1 pc Ratchet wrench ● 7 pcs Sockets ● 1 pc Nipple ● 1 pc Universal Joint ● 1 pc 75mm Extension Bar ● 1 pc Blow Molded Case

Model	Square Drive inch(mm)	Std. Bolt Size inch(mm)	Free Speed rpm	Max. Torque ft-lb(Nm)	Avg. Air Cons. cfm(l/min)	Overall Length inch(mm)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT	Min Hose Size inch(mm)
ZHD-7728	-	-	400	35(47.5)	3(85)	6-17/64(159)	1.06(0.48)	1/4	3/8(10)
ZHD-7748	-	-	850	30(40.7)	3.4(96)	6-1/6(155)	1.1(0.5)	1/4	3/8(10)
ZP161	1/2(12.7)	1/4(6.4)	175	50(68)	3(85)	10-13/32(265)	2.6(1.18)	1/4	3/8(10)
ZP163	3/8(10)	1/4(6.4)	175	50(68)	3(85)	10-13/32(265)	2.6(1.18)	1/4	3/8(10)
ZP168	1/4(6.4)	1/4(6.4)	260	20(27)	2.5(70)	5-1/4(133)	0.99(0.45)	1/4	1/4(6.4)
ZP169	3/8(10)	1/4(6.4)	260	20(27)	2.5(70)	5-1/4(133)	0.99(0.45)	1/4	1/4(6.4)

● Operating Air Pressure: 90(6.2) psi(bar)

Air Ratchet Wrench

- The ratchet wrench can be used in narrow working spaces and can fasten bolts and nuts easily. This special tool can be reached tight place that other air tools can not.
- Remove: First, loosen nut by wrench then take nut out with air ratchet.
- Fasten: Push trigger to position the nut then lock it with torque wrench.



ZRW-919LS Rear Exhaust
Air Ratchet Wrench



ZRW-925LS Rear Exhaust
Air Ratchet Wrench



ZRW-925LSB Rear Exhaust
Air Ratchet Wrench



ZRW-920LS Rear Exhaust
Air Ratchet Wrench

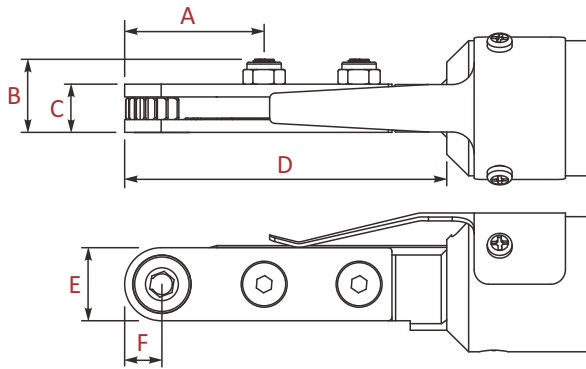


ZRW-938LS Rear Exhaust
Air Ratchet Wrench

Model	Hex Size mm	Free Speed rpm	Max. Torque ft-lb(Nm)	Working Torque ft-lb(Nm)	Avg. Air Cons. cfm(l/min)	Noise Level db(A)	Net Weight lbs(kgs)
ZRW-919LS	6, 7, 8, 10, 11, 12, 1/4", 3/8"	180	7(10)	7(10)	4.5(127)	86	2.87(1.3)
ZRW-925LS	10, 11, 12, 13, 14, 1/2", 9/16"	250	18(25)	11(15)	7.5(212)	87	4.23(1.92)
ZRW-925LSB	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 11/16"	160	18(25)	11(15)	7.5(212)	87	4.4(2)
ZRW-920LS	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 11/16"	150	66(90)	59(80)	12.5(353)	92	5.33(2.42)
ZRW-938LS	21, 22, 23, 24, 26, 27	130	66(90)	59(80)	12.5(353)	92	5.46(2.48)

- Operating Air Pressure: 90(6.2) psi(bar)
- Air Inlet Size: 1/4 inch-NPT/PT

Air Ratchet Wrench



Model	A	B	C	D	E	F
	mm	mm	mm	mm	mm	mm
ZRW-919LS	38.2	20	13.2	88.2	20	10.2
ZRW-925LS	44.4	26	18	109	25.2	12.2
ZRW-925LSB	51	26	18	115	33.2	16.6
ZRW-920LS	51	26	18	115	33.2	16.6
ZRW-938LS	59	26	18	123	41	20.5

Air Ratchet Wrench Order Code Reference					
Model	ZRW-919LS	ZRW-925LS	ZRW-925LSB	ZRW-920LS	ZRW-938LS
Hex Size	Order Code				
6mm	ZRW-919LS-6				
7mm	ZRW-919LS-7				
8mm	ZRW-919LS-8				
9mm	ZRW-919LS-9				
10mm	ZRW-919LS-10	ZRW-925LS-10	ZRW-925LSB-10	ZRW-920LS-10	
11mm	ZRW-919LS-11	ZRW-925LS-11	ZRW-925LSB-11	ZRW-920LS-11	
12mm	ZRW-919LS-12	ZRW-925LS-12	ZRW-925LSB-12	ZRW-920LS-12	
13mm		ZRW-925LS-13	ZRW-925LSB-13	ZRW-920LS-13	
14mm		ZRW-925LS-14	ZRW-925LSB-14	ZRW-920LS-14	
15mm			ZRW-925LSB-15	ZRW-920LS-15	
16mm			ZRW-925LSB-16	ZRW-920LS-16	
17mm			ZRW-925LSB-17	ZRW-920LS-17	
18mm			ZRW-925LSB-18	ZRW-920LS-18	
19mm			ZRW-925LSB-19	ZRW-920LS-19	
21mm					ZRW-938LS-21
22mm					ZRW-938LS-22
23mm					ZRW-938LS-23
24mm					ZRW-938LS-24
26mm					ZRW-938LS-26
27mm					ZRW-938LS-27
1/4"	ZRW-919LS-1/4				
3/8"	ZRW-919LS-3/8				
1/2"		ZRW-925LS-1/2		ZRW-920LS-1/2	
9/16"		ZRW-925LS-9/16		ZRW-920LS-9/16	
11/16"			ZRW-925LSB-11/16	ZRW-920LS-11/16	

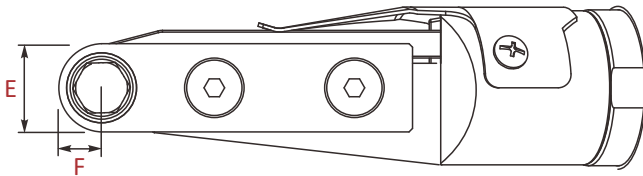
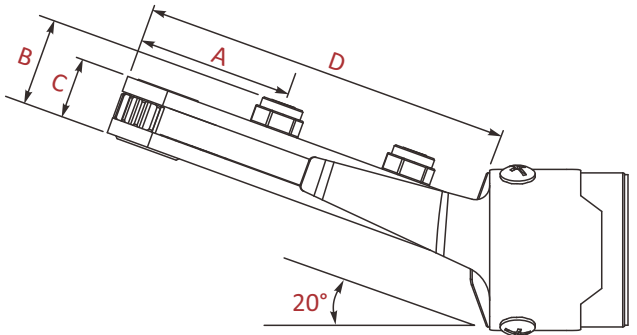
Air Ratchet Wrench



ZRW-923LR Rear Exhaust
Air Ratchet Wrench



ZRW-925LR Rear Exhaust
Air Ratchet Wrench



Air Ratchet Wrench Order Code Reference

Model	ZRW-923LR	ZRW-925LR	ZRW-925LRB
Hex Size	Order Code		
6mm	ZRW-923LR-6		
7mm	ZRW-923LR-7		
8mm	ZRW-923LR-8		
9mm	ZRW-923LR-9		
10mm	ZRW-923LR-10	ZRW-925LR-10	ZRW-925LRB-10
11mm	ZRW-923LR-11	ZRW-925LR-11	ZRW-925LRB-11
12mm	ZRW-923LR-12	ZRW-925LR-12	ZRW-925LRB-12
13mm		ZRW-925LR-13	ZRW-925LRB-13
14mm		ZRW-925LR-14	ZRW-925LRB-14
15mm			ZRW-925LRB-15
16mm			ZRW-925LRB-16
17mm			ZRW-925LRB-17
18mm			ZRW-925LRB-18
19mm			ZRW-925LRB-19
1/4"	ZRW-923LR-1/4		
3/8"	ZRW-923LR-3/8		
1/2"		ZRW-925LR-1/2	
9/16"		ZRW-925LR-9/16	
11/16"			ZRW-925LRB-11/16

Model	A	B	C	D	E	F
	mm	mm	mm	mm	mm	mm
ZRW-923LR	38.2	20	13.2	83.9	20	10.2
ZRW-925LR	44.4	26	18	105	25.2	12.2
ZRW-925LRB	51	26	18	111.5	33.2	16.6

• Equal specifications:
5/16" <=> 8mm, 5/8" <=> 16mm, 3/4" <=> 19mm

Model	Hex Size mm	Free Speed rpm	Max. Torque ft-lb(Nm)	Working Torque ft-lb(Nm)	Avg. Air Cons. cfm(l/min)	Noise Level db(A)	Overall Length inch(mm)	Net Weight lbs(kgs)
ZRW-923LR	6, 7, 8, 9, 10, 11, 12 1/4", 3/8"	180	7(10)	7(10)	4.5(127)	86	11.06(281)	2.82(1.28)
ZRW-925LR	10, 11, 12, 13, 14, 1/2", 9/16"	220	18(25)	11(15)	7.5(212)	87	12.88(327)	4.23(1.92)
ZRW-925LRB	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 11/16"	190	18(25)	11(15)	7.5(212)	87	13.11(333)	4.4(2)

- Operating Air Pressure: 90(6.2) psi(bar)
- Air Inlet Size: 1/4 inch-NPT/PT

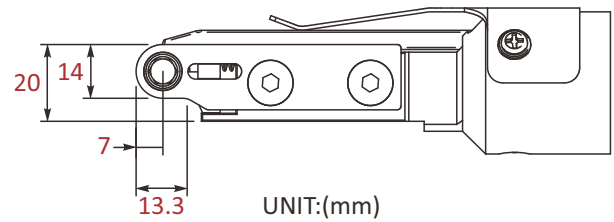
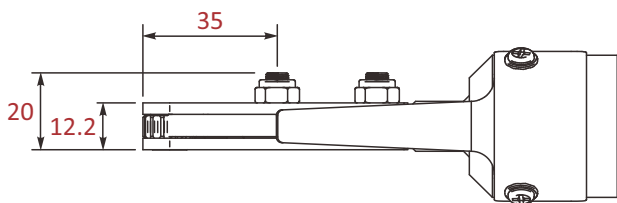
Hexagon **Mini Air Ratchet Wrench** Hexagon



★ ★ ★ ★ ★ ★ ★ ★ ★ ★
NEW
— PRODUCT —

ZRW-917LS Rear Exhaust
Mini Air Ratchet Wrench

Air Ratchet Wrench Order Code Reference	
Model	ZRW-917LS
Hex Size	Order Code
6mm	ZRW-917LS-6
1/4"	ZRW-917LS-1/4



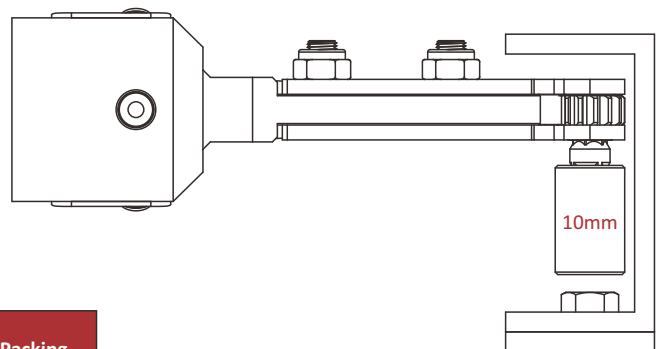
UNIT:(mm)

Model	Hex Size mm	Free Speed rpm	Max. Torque ft-lb(Nm)	Working Torque ft-lb(Nm)	Avg. Air Cons. cfm(l/min)	Noise Level db(A)	Overall Length inch(mm)	Net Weight lbs(kgs)
ZRW-917LS	6, 1/4"	250	7(10)	7(10)	4.5(127)	86	11.1(282)	2.77(1.26)

- Operating Air Pressure: 90(6.2) psi(bar)
- Air Inlet Size: 1/4 inch-NPT/PT

Exclusive Bit

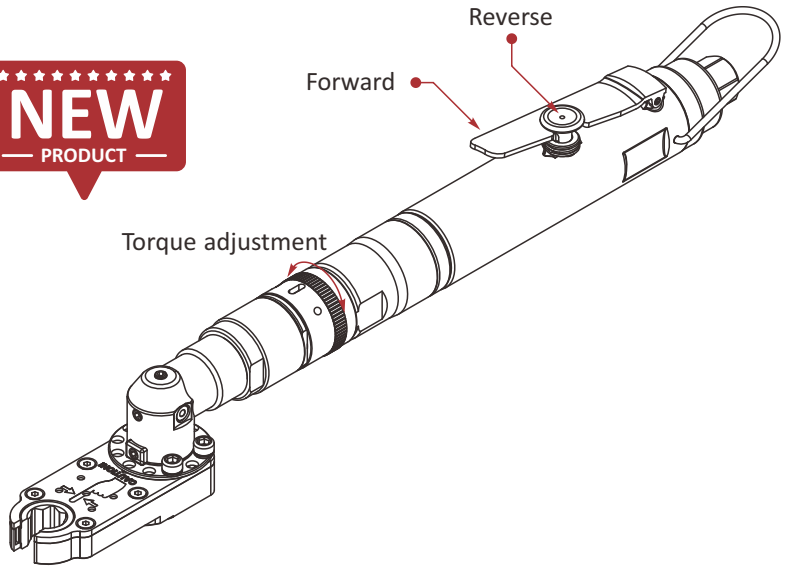
- Used with ZRW-917LS-1/4" can be used with multi-size thin socket.



Model	□ Type	⬡ Type	Length mm	Net Weight g	Packing
96A2025	1/4"	1/4"	25	10	10PCS

Air Open-end Wrench

NEW
PRODUCT



ZREW-28

Air shut off Rear Exhaust

Air Open-end Wrench



ZREW-35

Air shut off Rear Exhaust

Air Open-end Wrench



ZREW-43

Air shut off Rear Exhaust

Air Open-end Wrench



ZREW-66

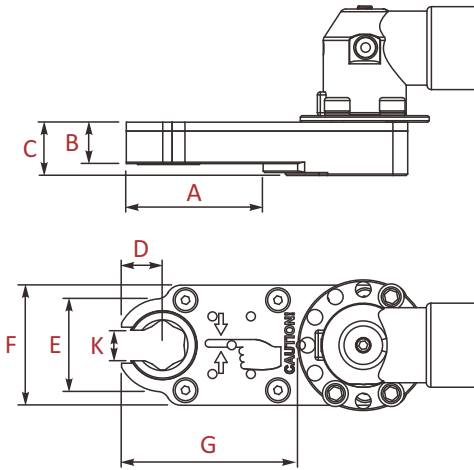
Air shut off Rear Exhaust

Air Open-end Wrench

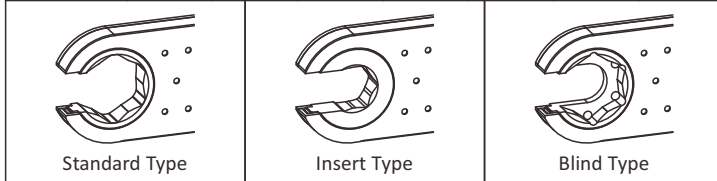
Model	Hex Size mm	Free Speed rpm	Max. Torque Nm	Avg. Air Cons. cfm(l/min)	Noise Level db(A)	Overall Length inch(mm)	Net Weight lbs(kgs)
ZREW-28	7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17	230	7.5~15	7(198)	87	16.25(413)	3.68(1.67)
ZREW-35	17, 18, 19, 20, 21, 22, 23, 24, 11/16"	150	10~20	7(198)	87	17.24(438)	4.05(1.84)
ZREW-43	24, 26, 27, 29, 30, 32	115	12~24	7(198)	87	18.14(461)	4.6(2.09)
ZREW-66	36, 38, 40, 41, 46, 50, 55	100	14~28	7(198)	87	19.84(504)	5.55(2.52)

- Operating Air Pressure: 90(6.2) psi(bar)
- Air Inlet Size: 1/4 inch-NPT/PT

Air Open-end Wrench



Model	A	B	C	D	E	F	G
	mm	mm	mm	mm	mm	mm	mm
ZREW-28	46.2	14	18	13.6	31	40	58.8
ZREW-35	57.2	14	18	20.6	46.6	48	83.2
ZREW-43	71	14	18	26.6	59	59	106.6
ZREW-66	92.1	14	18	39.3	86	86	149.3



Air Ratchet Wrench Order Code Reference

Model	ZREW-28	ZREW-35	ZREW-43		
Order Code					
Hex Size	Blind Type		K		L
			mm	mm	
8mm	ZREW-28-BD8		5.6	5	
10mm	ZREW-28-BD10		7	6.5	
11mm	ZREW-28-BD11		8.1	6.5	
12mm	ZREW-28-BD12		8.5	9	
13mm	ZREW-28-BD13		9	9	
14mm	ZREW-28-BD14		10.2	9	
15mm	ZREW-28-BD15		10.5	9	
16mm	ZREW-28-BD16		10.9	9	
17mm	ZREW-28-BD17	ZREW-35-BD17	11.3	9	
18mm		ZREW-35-BD18	12	9	
19mm		ZREW-35-BD19	13.1	9	
20mm		ZREW-35-BD20	13.5	9	
21mm		ZREW-35-BD21	15	9	
22mm		ZREW-35-BD22	15.2	9	
23mm		ZREW-35-BD23	15.5	9	
24mm		ZREW-35-BD24	ZREW-43-BD24	16.1	99
26mm			ZREW-43-BD26	17.1	9
27mm			ZREW-43-BD27	18.1	9
29mm			ZREW-43-BD29	19.2	9
30mm			ZREW-43-BD30	20.1	9
32mm			ZREW-43-BD32	21.2	9

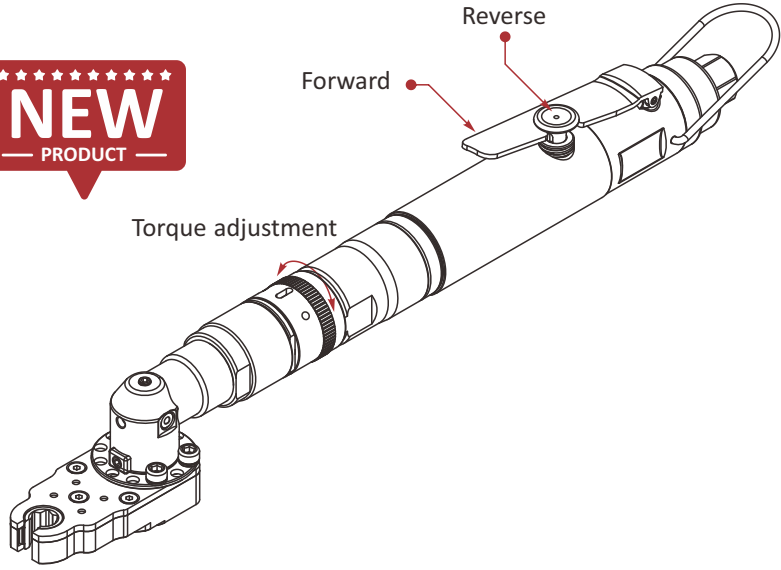
Air Ratchet Wrench Order Code Reference					
Model	ZREW-28	ZREW-35	ZREW-43	ZREW-66	
Order Code					
Hex Size	Insert Type				K
					mm
7mm	ZREW-28-SR7				7.1
8mm	ZREW-28-SR8				8.1
9mm	ZREW-28-SR9				9.1
10mm	ZREW-28-SR10				10.1
11mm	ZREW-28-SR11				11.1
12mm		ZREW-35-SR12			12.1
13mm		ZREW-35-SR13			13.1
14mm		ZREW-35-SR14			14.1
15mm		ZREW-35-SR15			15.1
16mm		ZREW-35-SR16			16.1
17mm			ZREW-43-SR17		17.1
18mm			ZREW-43-SR18		18.1
19mm			ZREW-43-SR19		19.1
20mm			ZREW-43-SR20		20.1
21mm			ZREW-43-SR21		21.1
22mm			ZREW-43-SR22		22.1
36mm				ZREW-66-SR36	36.1

Hex Size	Standard Type				K
					mm
7mm	ZREW-28-7				5
8mm	ZREW-28-8				5.6
9mm	ZREW-28-9				6.5
10mm	ZREW-28-10				7
11mm	ZREW-28-11				8.1
12mm	ZREW-28-12				8.5
13mm	ZREW-28-13				9
14mm	ZREW-28-14				10.2
15mm	ZREW-28-15				10.5
16mm	ZREW-28-16				10.9
17mm	ZREW-28-17	ZREW-35-17			11.3
18mm		ZREW-35-18			12
19mm		ZREW-35-19			13.1
20mm		ZREW-35-20			13.5
21mm		ZREW-35-21			15
22mm		ZREW-35-22			15.2
23mm		ZREW-35-23			15.5
24mm		ZREW-35-24	ZREW-43-24		16.1
26mm			ZREW-43-26		17.1
27mm			ZREW-43-27		18.1
29mm			ZREW-43-29		19.2
30mm			ZREW-43-30		20.1
32mm			ZREW-43-32		21.2
36mm				ZREW-66-36	25
38mm				ZREW-66-38	26
40mm				ZREW-66-40	27
41mm				ZREW-66-41	28
46mm				ZREW-66-46	31
50mm				ZREW-66-50	34.5
55mm				ZREW-66-55	37.5
11/16"		ZREW-35-11/16			11.5

- Equal specifications:
 5/16"=>8mm, 5/8"=>16mm, 3/4"=>19mm,
 1-1/16"=>27mm, 1-3/8"=>35mm, 1-1/2"=>38mm

Air Open-end Wrench

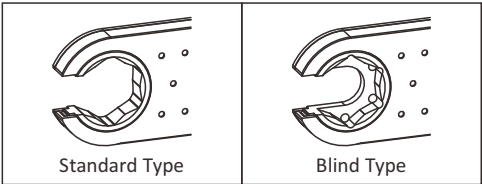
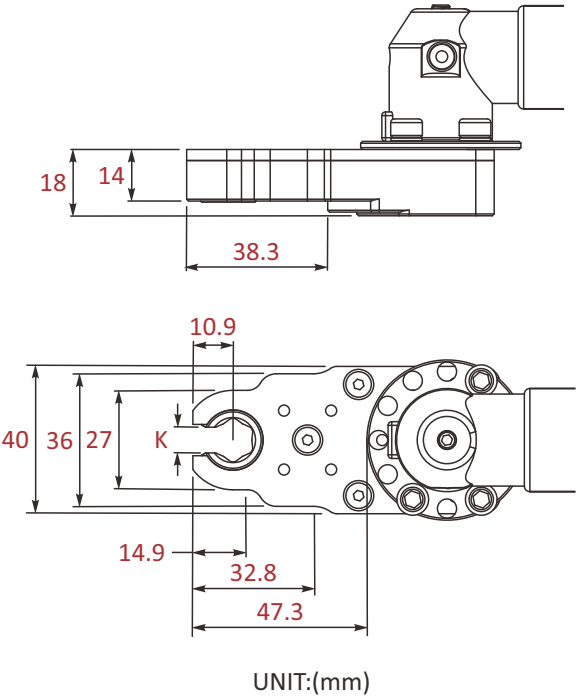
NEW
PRODUCT



ZREW-21

Air shut off Rear Exhaust

Air Open-end Wrench



Air Ratchet Wrench Order Code Reference					
Model	ZREW-21				
Order Code					
Hex Size	Blind Type			K	L
				mm	mm
8mm	ZREW-21-BD8			5.6	5
10mm	ZREW-21-BD10			7	6.5
Hex Size	Standard Type			K	
				mm	
8mm	ZREW-21-8			5.6	
10mm	ZREW-21-10			7	

• Equal specifications: 5/16" <=> 8mm

Model	Hex Size mm	Free Speed rpm	Max. Torque Nm	Avg. Air Cons. cfm(l/min)	Noise Level db(A)	Overall Length inch(mm)	Net Weight lbs(kgs)
ZREW-21	6, 10	300	6~12	7(198)	87	15.82(402)	3.63(1.65)

- Operating Air Pressure: 90(6.2) psi(bar)
- Air Inlet Size: 1/4 inch-NPT/PT


Air Impact Driver



ZID-036 Side Exhaust
Impact Driver



ZID-040P Rear Exhaust
Impact Driver

New Twin Hammer Design		<ul style="list-style-type: none"> • Two hammer design with Q.C. collect • Forward/Reverse switch • Two stages push type trigger • Use for general automotive industries, electric or and assembly lines
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ZID-350P Rear Exhaust
Impact Driver
Noise: 88dB(A), Vibration: 2.5(m/s²)



ZIS-237 Rear Exhaust
1/4" Air Impact Driver

Twin Hammer		Twin Hammer	
	<ul style="list-style-type: none"> • Two hammer design with Q.C. collect • Adjustable 3 stages speed for Forward/Reverse • Use for general automotive industries, electric or and assembly lines 		<ul style="list-style-type: none"> • Double-Chamber 9 vanes motor provides the highest output power comparing with conventional motor for the highest productivity. • Double Pin Hammer mechanism. • One piece front end plate & cylinder design to improve motorefficiency. • User friendly side reverse switch.

Model	Hex. Drive inch(mm)	Bolt Size Capacity mm	Free Speed rpm	Max. Torque ft-lb(Nm)	Avg. Air Cons. cfm(l/min)	Overall Length inch(mm)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT
ZID-036	1/4(6.4)	6~8	8000	41(55)	4.6(130)	7-13/16(198)	2.2(1)	1/4
ZID-040P	1/4(6.4)	6~8	8500	42(57)	5.6(160)	6-25/32(172)	2.2(1)	1/4
ZID-350P	1/4(6.4)	10~12	11000	350(474)	8.12(230)	5-25/32(147)	3.5(1.6)	1/4
ZIS-237	1/4(6.4)	6~8	5300	37(50)	17.7(500)	-	1.9(0.84)	1/4

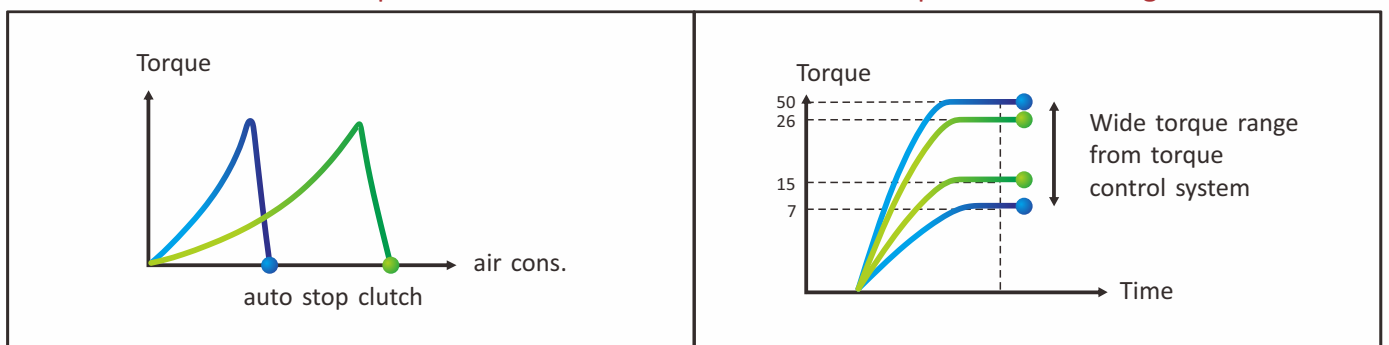
• Operating Air Pressure: 90(6.2) psi(bar)

Torque Control Air Screwdriver



Motor Comparison

Torque schematic diagram



- Patented motor
- Traditional motor

- Patented torque control system
- Traditional torque control system

Torque Control Air Screwdriver



**ZB21MC / ZB31MC / ZB41MC
ZB46MC / ZB49MC / ZB51MC
ZB56MC / ZB59MC / ZB61MC
ZB66MC / ZB71MC / ZB76MC
ZB79MC**

**ZB46CCQ / ZB49CCQ / ZB52CCQ
ZB58CCQ / ZB59CCQ / ZB61CCQ
ZB66CCQ / ZB71CCQ / ZB76CCQ
ZB79CCQ**

Model	Free Speed rpm	Torque range kgf-cm	Standard Deviation %	Fastening Capacity		Air Pressure kg/cm ²	Min. air hose bore mm	Air Consumption m ³ /min	O.A.L mm	Dia. mm	High mm	Net Weight lbs(kgs)
				Machine Screw Dia.	Tapping Screw Dia.							
ZB21MC	1000	0.5-2	±3	M1.0-M2.2	M1.1-M1.7	6.0	5.0	0.20	210	31	–	1.15(0.52)
ZB31MC	1000	1-8	±3	M1.7-M3.3	M1.3-M2.7	6.0	5.0	0.20	210	31	–	1.15(0.52)
ZB41MC	1800	3-17	±3	M2.2-M4.2	M1.7-M3.2	6.0	5.0	0.28	210	31	–	1.15(0.52)
ZB46MC	2200	3-20	±3	M2.2-M4.5	M1.7-M3.5	6.0	5.0	0.28	210	31	–	1.15(0.52)
ZB49MC	1800	3-25	±3	M2.2-M4.7	M1.7-M3.8	6.0	5.0	0.28	210	31	–	1.15(0.52)
ZB51MC	1000	5-30	±3	M2.8-M5.0	M2.3-M4.0	6.0	5.0	0.28	210	31	–	1.15(0.52)
ZB56MC	800	8-40	±3	M3.3-M5.7	M2.7-M4.4	6.0	5.0	0.3	210	31	–	1.15(0.52)
ZB59MC	1700	5-45	±3	M2.8-M5.8	M2.2-M4.7	6.0	8.0	0.55	245	39	–	1.81(0.82)
ZB61MC	1400	7-50	±3	M2.9-M6.0	M2.6-M4.9	6.0	8.0	0.55	245	39	–	1.81(0.82)
ZB66MC	1000	7-65	±3	M2.9-M6.4	M2.6-M5.4	6.0	8.0	0.55	245	39	–	1.81(0.82)
ZB71MC	550	15-95	±3	M4.1-M7.0	M3.1-M6.0	6.0	8.0	0.55	245	39	–	1.81(0.82)
ZB76MC	300	30-180	±3	M5.0-M9.3	M4.0-M7.2	6.0	8.0	0.55	245	39	–	1.86(0.84)
ZB79MC	250	50-280	±3	M6.0-M11.0	M4.9-M8.7	6.0	8.0	0.55	245	39	–	1.86(0.84)
ZB46CCQ	2200	3-20	±3	M2.2-M4.5	M1.7-M3.5	6.0	5.0	0.28	190	35	190	1.41(0.64)
ZB49CCQ	1800	3-25	±3	M2.2-M4.7	M1.7-M3.8	6.0	5.0	0.28	190	35	190	1.41(0.64)
ZB52CCQ	1000	5-35	±3	M2.8-M5.2	M2.2-M4.2	6.0	5.0	0.28	190	35	190	1.41(0.64)
ZB58CCQ	550	10-50	±3	M3.6-M6.0	M2.8-M4.7	6.0	5.0	0.28	190	35	190	1.41(0.64)
ZB59CCQ	1700	7-50	±3	M2.9-M6.0	M2.6-M4.9	6.0	8.0	0.55	220	43	220	2.16(0.98)
ZB61CCQ	1400	10-60	±3	M3.6-M6.2	M2.8-M5.1	6.0	8.0	0.55	220	43	220	2.16(0.98)
ZB66CCQ	1000	12-75	±3	M3.8-M6.6	M3.0-M5.6	6.0	8.0	0.55	220	43	220	2.16(0.98)
ZB71CCQ	550	30-110	±3	M5.0-M7.3	M4.0-M6.2	6.0	8.0	0.55	220	43	220	2.16(0.98)
ZB76CCQ	300	30-180	±3	M5.0-M9.3	M4.0-M7.2	6.0	8.0	0.55	220	43	220	2.43(1.1)
ZB79CCQ	250	50-280	±3	M6.0-M11.0	M4.9-M8.7	6.0	8.0	0.55	220	43	220	2.76(1.25)

- Operating Air Pressure: 90(6.2) psi(bar)
- Output torque adjusts to 50% of maximum rated torque.

Straight Downward Pressure Fully Automatic Pneumatic Screwdriver



ZSS1-22-20 / ZSS1-10-30 / ZSS1-08-40
ZSS2-18-45 / ZSS2-14-50 / ZSS2-10-65 / ZSS2-05-95
 Straight Downward Pressure Fully Automatic Pneumatic Screwdriver

Model	Free Speed rpm	Torque range kgf-cm	Standard Deviation %	Fastening Capacity		Air Pressure kg/cm ²	Min. air hose bore mm	Air Consumption m ³ /min	O.A.L mm	Dia. mm	Net Weight lbs(kgs)
				Machine Screw Dia.	Tapping Screw Dia.						
ZSS1-22-20	2200	3-20	±3	M2.2-M4.5	M1.7-M3.5	6	5	0.28	180	29	0.95(0.43)
ZSS1-10-30	1000	5-30	±3	M2.8-M5.0	M2.2-M4.0	6	5	0.28	180	29	0.95(0.43)
ZSS1-08-40	800	8-40	±3	M3.3-M5.7	M2.7-M4.4	6	6.35	0.28	180	29	0.95(0.43)
ZSS2-18-45	1700	5-45	±3	M2.8-M5.8	M2.2-M4.7	6	8	0.55	215	37	1.7(0.77)
ZSS2-14-50	1400	7-50	±3	M2.9-M6.0	M2.6-M4.9	6	8	0.55	215	37	1.7(0.77)
ZSS2-10-65	1000	7-65	±3	M2.9-M6.4	M2.6-M5.4	6	8	0.55	215	37	1.7(0.77)
ZSS2-05-95	550	15-95	±3	M4.1-M7.0	M3.1-M6.0	6	8	0.55	215	37	1.7(0.77)

- Operating Air Pressure: 90(6.2) psi(bar)
- Output torque adjusts to 50% of maximum rated torque.

Angled Wrench Type Pneumatic Screwdriver

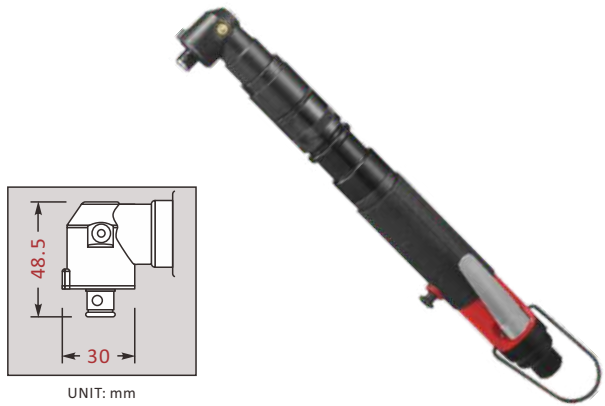


ZAS-45AB / ZAS-95AB / ZAS-280AB
 Angled wrench type pneumatic screwdriver

Model	Free Speed rpm	Torque range kgf-cm	Standard Deviation %	Fastening Capacity		Air Pressure kg/cm ²	Min. air hose bore mm	Air Consumption m ³ /min	O.A.L mm	Dia. mm	Net Weight lbs(kgs)
				Machine Screw Dia.	Tapping Screw Dia.						
ZAS-45AB	1800	5-45	±3	M2.8-M5.8	M2.2-M4.7	6	8	0.55	345	37	2.65(1.2)
ZAS-95AB	550	15-95	±3	M4.1-M7.0	M3.1-M6.0	6	8	0.55	345	37	2.65(1.2)
ZAS-280AB	250	50-280	±3	M6.0-M11.0	M4.9-M8.7	6	8	0.55	345	37	3.09(1.4)

- Operating Air Pressure: 90(6.2) psi(bar)
- Output torque adjusts to 50% of maximum rated torque.

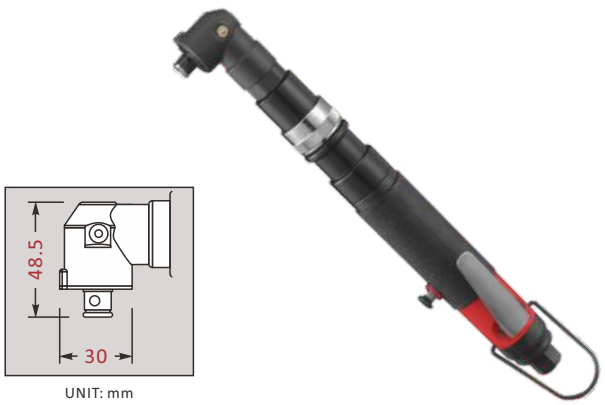
Torque Control Air Screwdriver



ZRAW-6SLA03

Torque Control Type Rear Exhaust

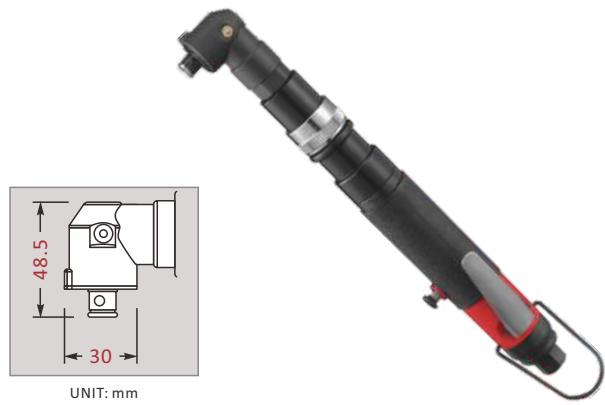
Air Screwdriver-Air shut off



ZRAW-6SLA08

Torque Control Type Rear Exhaust

Air Screwdriver-Air shut off



ZRAW-6SLA15

Torque Control Type Rear Exhaust

Air Screwdriver-Air shut off

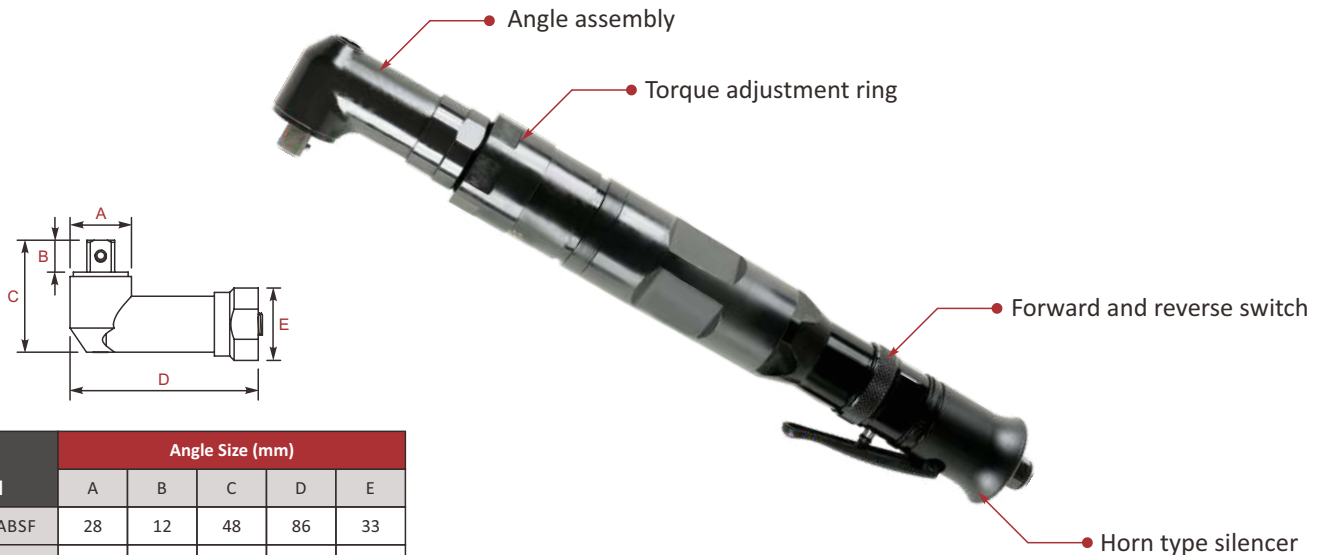
Model	Screw Size Capacity	Free Speed rpm	Max. Torque ft-lb(Nm)	Noise Level db(A)	Avg. Air Cons. cfm(l/min)	Air Inlet Size inch-NPT/PT	Overall Length inch(mm)	Net Weight lbs(kgs)
ZRAW-6SLA15	4mm	1450	0.9~1.8(1.2~2.4)	80	7(198)	1/4	13.39(340)	2.69(1.22)
ZRAW-6SLA08	5mm	800	1.6~3.2(2.2~4.3)	80	7(198)	1/4	13.39(340)	2.69(1.22)
ZRAW-6SLA03	6mm	340	3~7.4(4~10)	80	7(198)	1/4	13.77(350)	2.86(1.3)

● Operating Air Pressure: 90(6.2) psi(bar)

High Torque Angle Wrench

Features

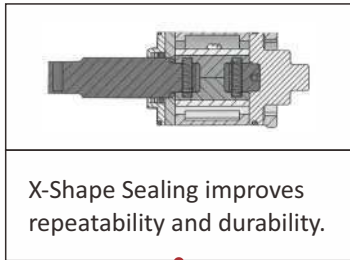
- Suitable for high precision industry, high torque accuracy.
- The tool will automatically stop when it is locked to the set torque value.
- Maximum torque reaches 120Nm.
- Externally adjustable torque adjustment ring makes it easy to adjust the torque.
- The forward and reverse switch design allows the tool to easily lock and remove screws.
- The elongated ergonomic design makes it easier for the operator to hold and reduces reaction force.
- 90-degree angle design allows operation in narrow spaces.
- Machine capability index > 1.67±10% @ according to ISO5393.
- Tool performance testing and certification according to VDI/VDE 2647.
- Specification of bit: 3/8"SQ、 1/2"SQ
【 Note: Some models are available in 3/8" or 1/2" SQ drive. Please specify when ordering. 】



Model	Angle Size (mm)				
	A	B	C	D	E
ZRAW-715ABSF	28	12	48	86	33
ZRAW-72ABSF	28	12	48	86	33
ZRAW-7025ABSF	28	12	48	86	33
ZRAW-725ABSF	28	12	48	86	33
ZRAW-73ABSF	28	15	51	89	33
ZRAW-74ABSF	28	15	51	89	33
ZRAW-745ABSF	35	14	58	94	40
ZRAW-75ABSF	35	14	58	94	40

Model	SQ Drive	Free Speed rpm	Torque range ft-lb(Nm)	Noise Level db(A)	Standard Deviation %	Air Pressure kg/cm ²	Min. air hose bore mm	Avg. Air Cons. cfm(l/min)	Overall Length inch(mm)	Net Weight lbs(kgs)
ZRAW-715ABSF	3/8" or 1/2"	700	4.4-13.3(6-18)	78	±5	6	8	9	14.15(359)	3.53(1.6)
ZRAW-72ABSF	3/8" or 1/2"	430	7.4-18.4(10-25)	78	±5	6	8	9	14.15(359)	3.53(1.6)
ZRAW-7025ABSF	3/8" or 1/2"	350	7.4-20.7(10-28)	78	±5	6	8	9	14.15(359)	3.53(1.6)
ZRAW-725ABSF	3/8" or 1/2"	350	8.9-20.7(12-28)	78	±5	6	8	9	14.15(359)	3.75(1.7)
ZRAW-73ABSF	3/8" or 1/2"	250	7.4-29.5(10-40)	82	±5	6	8	11	15.76(400)	5.07(2.3)
ZRAW-74ABSF	1/2"	180	25.8-44.3(35-60)	82	±5	6	10	11	15.76(400)	5.07(2.3)
ZRAW-745ABSF	1/2"	130	25.8-51.6(35-70)	82	±5	6	10	11	15.96(405)	5.73(2.6)
ZRAW-75ABSF	1/2"	100	29.5-88.5(40-120)	82	±5	6	13	11	15.96(405)	5.73(2.6)

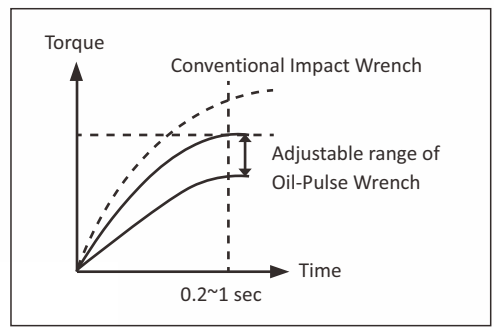
Features Of Pulse Mechanism



X-Shape Sealing improves repeatability and durability.



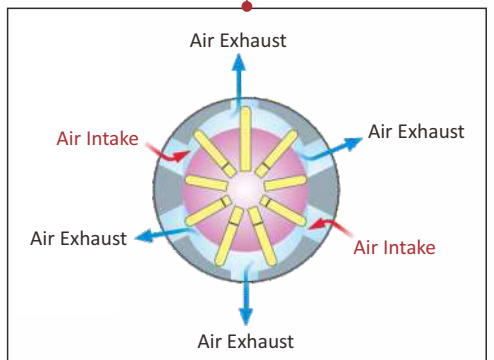
Twin drive roller blades reduce noise, vibration and improves impulse efficiency.



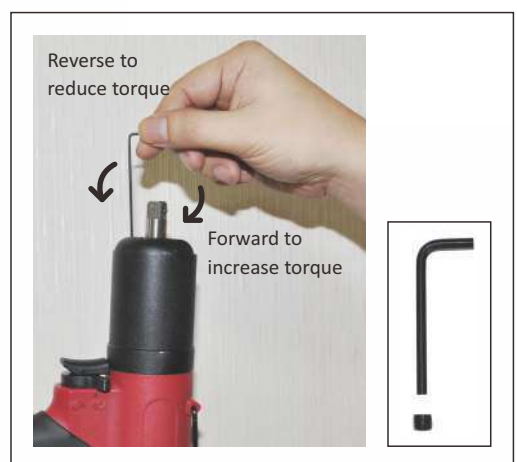
1 Piece design front end plate and cylinder improves motor efficiency.

One hand reverse operation for Right or Left handed operators.

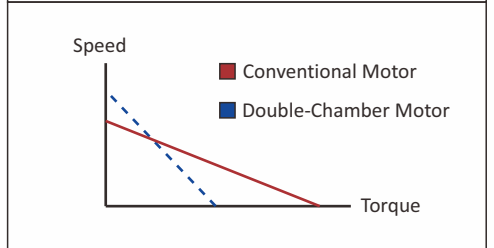
Low noise exhaust, 360° adjustable.



Double chamber air motor
9 Vanes motor design for smallest dimensions with highest power and acceleration results in a short time to reach the set torque and highest productivity.



Easy Torque Adjustment
The required torque can be easily adjusted by turning the adjust screw through the housing.



◻ Pulse Screwdriver (Pistol Type) ◻



PS042
PS052 / PS062

Pistol Type Specifications: Auto Shut-Off Type



PS072

Pistol Type Specifications: Auto Shut-Off Type

Model	Square Drive	Bolt Size Capacity mm	Measured on Hard Joint / Lb-ft(Nm)						Free Speed rpm	Noise Level db(A)	Avg. Air Cons. m ³ /min	Net Weight lbs(kgs)
			Min. Oil Pressure			Max. Oil Pressure						
			0.4MPa	0.5MPa	0.6MPa	0.4MPa	0.5MPa	0.6MPa				
PS042	1/4"HEX	M4~M6	3(4)	3.7(5)	4.4(6)	6.6(9)	7.4(10)	8.1(11)	4500	80	0.4	2.34(1.06)
PS052	1/4"HEX	M5~M8	5.2(7)	5.9(8)	6.6(9)	12.5(17)	12.5(17)	14(19)	5800	85	0.4	2.34(1.06)
PS062	1/4"HEX	M6~M8	8.1(11)	8.9(12)	9.6(13)	14.8(20)	16.2(22)	18.4(25)	5800	85	0.43	2.38(1.08)
PS072	1/4"HEX	M8~M10	14.8(20)	14.8(20)	16.2(22)	22.1(30)	23.6(32)	25.8(35)	5500	88	0.45	2.87(1.3)



PN042
PN052 / PN062

Pistol Type Specifications: Non Shut-Off Type



PN072

Pistol Type Specifications: Non Shut-Off Type

Model	Square Drive	Bolt Size Capacity mm	Measured on Hard Joint / Lb-ft(Nm)						Free Speed rpm	Noise Level db(A)	Avg. Air Cons. m ³ /min	Net Weight lbs(kgs)
			Min. Oil Pressure			Max. Oil Pressure						
			0.4MPa	0.5MPa	0.6MPa	0.4MPa	0.5MPa	0.6MPa				
PN042	1/4"HEX	M5~M8	5.2(7)	6.6(9)	8.1(11)	7.4(10)	8.9(12)	10.3(14)	5600	80	0.4	2.1(0.95)
PN052	1/4"HEX	M6~M8	9.6(13)	11.8(16)	14(19)	11.8(16)	14(19)	15.5(21)	6000	85	0.4	2.1(0.95)
PN062	1/4"HEX	M6~M8	12.5(17)	14.8(20)	17(23)	17.7(24)	19.9(27)	22.1(30)	6000	85	0.43	2.08(0.94)
PN072	1/4"HEX	M8~M10	18.4(25)	20.7(28)	22.9(31)	26.6(36)	28.8(39)	31(42)	5500	88	0.45	2.98(1.35)

- Air Inlet Size: NPT 1/4"
- Recommended Gauge Air Pressure: 60~90psi(4kg/cm²~6kg/cm²)(0.4Mpa~0.6Mpa)
- Air Hose Size: 10mm x 6.5mm (for 042~062 model), 12mm x 8mm (for 072 model)
- Above DATA Are All Measured At 4kg/cm²~6kg/cm² Gauge Air Pressure

Pulse Wrench (Pistol Type)



PS043
PS053 / PS063

Pistol Type

Specifications: Auto Shut-Off Type



PS073 / PS084

Pistol Type

Specifications: Auto Shut-Off Type

Model	Square Drive	Bolt Size Capacity mm	Measured on Hard Joint / Lb-ft(Nm)						Free Speed rpm	Noise Level db(A)	Avg. Air Cons. m ³ /min	Net Weight lbs(kgs)
			Min. Oil Pressure			Max. Oil Pressure						
			0.4MPa	0.5MPa	0.6MPa	0.4MPa	0.5MPa	0.6MPa				
PS043	3/8"SD	M4~M6	3.7(5)	4.4(6)	5.2(7)	7.4(10)	8.1(11)	8.9(12)	4500	80	0.4	2.34(1.06)
PS053	3/8"SD	M6~M8	7.4(10)	8.1(11)	8.9(12)	14.8(20)	14.8(20)	17(23)	5800	85	0.4	2.34(1.06)
PS063	3/8"SD	M6~M8	8.1(11)	8.9(12)	9.6(13)	14.8(20)	16.2(22)	18.4(25)	5800	85	0.43	2.38(1.08)
PS073	3/8"SD	M8~M10	18.4(25)	20.7(28)	22.2(30)	26.6(36)	28.8(39)	31(42)	5500	88	0.45	2.87(1.3)
PS084	1/2"SD	M10~M12	22.2(30)	23.6(32)	25.1(34)	31.7(43)	34(46)	36.8(50)	5500	88	0.5	3.13(1.42)



PN043
PN053 / PN063

Pistol Type

Specifications: Non Shut-Off Type



PN073 / PN084

Pistol Type

Specifications: Non Shut-Off Type

Model	Square Drive	Bolt Size Capacity mm	Measured on Hard Joint / Lb-ft(Nm)						Free Speed rpm	Noise Level db(A)	Avg. Air Cons. m ³ /min	Net Weight lbs(kgs)
			Min. Oil Pressure			Max. Oil Pressure						
			0.4MPa	0.5MPa	0.6MPa	0.4MPa	0.5MPa	0.6MPa				
PN043	3/8"SD	M6~M8	6.6(9)	8.1(11)	9.6(13)	9.6(13)	11.1(15)	12.5(17)	5600	80	0.4	2.1(0.95)
PN053	3/8"SD	M6~M8	11.1(15)	13.3(18)	15.5(21)	14(19)	16.2(22)	18.4(25)	5800	85	0.4	2.1(0.95)
PN063	3/8"SD	M8~M10	14.8(20)	17(23)	19.2(26)	20.7(28)	22.9(31)	25.1(34)	5800	85	0.43	2.08(0.94)
PN073	3/8"SD	M8~M10	20.7(28)	22.9(31)	25.1(34)	31(42)	33.2(45)	35.4(48)	5500	88	0.45	2.98(1.35)
PN084	1/2"SD	M10~M12	18.4(25)	19.9(27)	23.6(32)	28(38)	31.7(43)	38.4(52)	5500	88	0.5	2.98(1.35)

- Air Inlet Size: NPT 1/4"
- Recommended Gauge Air Pressure: 60~90psi(4kg/cm²~6kg/cm²)(0.4Mpa~0.6Mpa)
- Air Hose Size: 10mm x 6.5mm (for 043~063 model), 12mm x 8mm (for 073~084 model)
- Above DATA Are All Measured At 4kg/cm²~6kg/cm² Gauge Air Pressure

Pulse Screwdriver (In Line Type)



SS042 / SS052
SS062 / SS072

In Line Type Specifications: Auto Shut-Off Type

Model	Square Drive	Bolt Size Capacity mm	Measured on Hard Joint / Lb-ft(Nm)						Free Speed rpm	Noise Level db(A)	Avg. Air Cons. m ³ /min	Net Weight lbs(kgs)
			Min. Oil Pressure			Max. Oil Pressure						
			0.4MPa	0.5MPa	0.6MPa	0.4MPa	0.5MPa	0.6MPa				
SS042	1/4"HEX	M4~M6	3(4)	3.7(5)	4.4(6)	6.6(9)	7.4(10)	8.1(11)	4500	80	0.4	1.92(0.87)
SS052	1/4"HEX	M5~M8	5.2(7)	5.9(8)	6.6(9)	12.5(17)	12.5(17)	14(19)	6000	85	0.4	1.87(0.85)
SS062	1/4"HEX	M6~M8	8.1(11)	8.9(12)	9.6(13)	14.8(20)	16.2(22)	18.4(25)	6000	85	0.4	1.94(0.88)
SS072	1/4"HEX	M8~M10	14.8(20)	14.8(20)	17(23)	22.1(30)	23.6(32)	25.8(35)	6000	88	0.45	2.84(1.29)



SN042 / SN052
SN062 / SN072

In Line Type Specifications: Non Shut-Off Type

Model	Square Drive	Bolt Size Capacity mm	Measured on Hard Joint / Lb-ft(Nm)						Free Speed rpm	Noise Level db(A)	Avg. Air Cons. m ³ /min	Net Weight lbs(kgs)
			Min. Oil Pressure			Max. Oil Pressure						
			0.4MPa	0.5MPa	0.6MPa	0.4MPa	0.5MPa	0.6MPa				
SN042	1/4"HEX	M5~M8	5.2(7)	6.6(9)	8.1(11)	7.4(10)	8.9(12)	10.3(14)	5600	80	0.4	1.92(0.87)
SN052	1/4"HEX	M6~M8	9.6(13)	11.8(16)	14(19)	11.8(16)	14(19)	15.5(21)	6000	85	0.4	1.87(0.85)
SN062	1/4"HEX	M6~M8	12.5(17)	14.8(20)	17(23)	17.7(24)	19.9(27)	22.1(30)	6000	85	0.4	1.94(0.88)
SN072	1/4"HEX	M8~M10	18.4(25)	20.7(28)	22.9(31)	26.6(36)	28.8(39)	31(42)	6000	88	0.45	2.84(1.29)

- Air Inlet Size: NPT 1/4"
- Recommended Gauge Air Pressure: 60~90psi(4kg/cm²~6kg/cm²)(0.4Mpa~0.6Mpa)
- Air Hose Size: 10mm x 6.5mm (for 042~062 model), (for 072 model)
- Above DATA Are All Measured At 4kg/cm²~6kg/cm² Gauge Air Pressure

Pulse Wrench (In Line Type)



SS043
SS053 / SS063
SS073 / SS084

In Line Type Specifications: Auto Shut-Off Type



SN043
SN053 / SN063
SN073 / SN084

In Line Type Specifications: Non Shut-Off Type

Model	Square Drive	Bolt Size Capacity mm	Measured on Hard Joint / Lb-ft(Nm)						Free Speed rpm	Noise Level db(A)	Avg. Air Cons. m ³ /min	Net Weight lbs(kgs)
			Min. Oil Pressure			Max. Oil Pressure						
			0.4MPa	0.5MPa	0.6MPa	0.4MPa	0.5MPa	0.6MPa				
SS043	3/8"SD	M4~M6	3.7(5)	4.4(6)	5.2(7)	7.4(10)	8.1(11)	8.9(12)	4500	80	0.4	1.92(0.87)
SS053	3/8"SD	M6~M8	7.4(10)	8.1(11)	8.9(12)	14.8(20)	14.8(20)	17(23)	6000	85	0.4	1.87(0.85)
SS063	3/8"SD	M6~M8	8.1(11)	8.9(12)	9.6(13)	14.8(20)	16.2(22)	18.4(25)	6000	85	0.4	1.94(0.88)
SS073	3/8"SD	M8~M10	14.8(20)	14.8(20)	17(23)	26.6(36)	28.8(39)	31(42)	6000	88	0.45	2.84(1.29)
SS084	1/2"SD	M10~M12	9.6(13)	11.1(15)	12.5(17)	28(38)	31(42)	34.7(47)	6000	88	0.45	2.87(1.3)
SN043	3/8"SD	M6~M8	6.6(9)	8.1(11)	9.6(13)	9.6(13)	11.1(15)	12.5(17)	5600	80	0.4	1.92(0.87)
SN053	3/8"SD	M6~M8	11.1(15)	18(13.3)	15.5(21)	14(19)	16.2(22)	18.4(25)	6000	85	0.4	1.87(0.85)
SN063	3/8"SD	M8~M10	14.8(20)	17(23)	19.2(26)	20.7(28)	22.9(31)	25.1(34)	6000	85	0.4	1.94(0.88)
SN073	3/8"SD	M8~M10	20.7(28)	22.9(31)	25.1(34)	31(42)	33.2(45)	35.4(48)	6000	88	0.45	2.84(1.29)
SN084	1/2"SD	M10~M12	20.7(28)	22.9(31)	24.3(33)	33.2(45)	36.9(50)	42(57)	6000	88	0.45	2.87(1.3)

- Air Inlet Size: NPT 1/4"
- Recommended Gauge Air Pressure: 60~90psi(4kg/cm²~6kg/cm²)(0.4Mpa~0.6Mpa)
- Air Hose Size: 10mm x 6.5mm (for 043~063 model), (for 073~084 model)
- Above DATA Are All Measured At 4kg/cm²~6kg/cm² Gauge Air Pressure



ZPO-1L
Synthetic pulse tool oil

Features

- New ZPO-1L is a fully synthetic hydraulic oil formulated with the most advanced technology and superior than other similar oils in the field.
- Applicable to all Pulse tools.
- Exceptional torque and auto shut off performance under environment temperature as low as 15°C.
- Great wear resistance to prolong the life of metal components.



built for service

What was born out of necessity for durable and safe equipment has grown into a full portfolio of industrial tooling products designed by engineers and end-users under the strictest quality requirements in state-of-the-art manufacturing facilities.





Pneumatic Torque Wrench

Cyclone Magnum Pneumatic Torque Wrench

The future of pneumatic torquing is here. The Cyclone Magnum features an optional digital torque readout, purpose built motor, industry-leading gear durability and numerous ergonomic features. The Cyclone Magnum is the new leader in torque accuracy (+/-5%), durability and comfort.

High Precision Air Motor
Performance tested on a dynamometer to verify optimum speed, power and torque

Robust Gear Box Design
To minimize gear tooth stress and maximize durability

Removable Drive — Hex Inserts
Accessories available as an added option

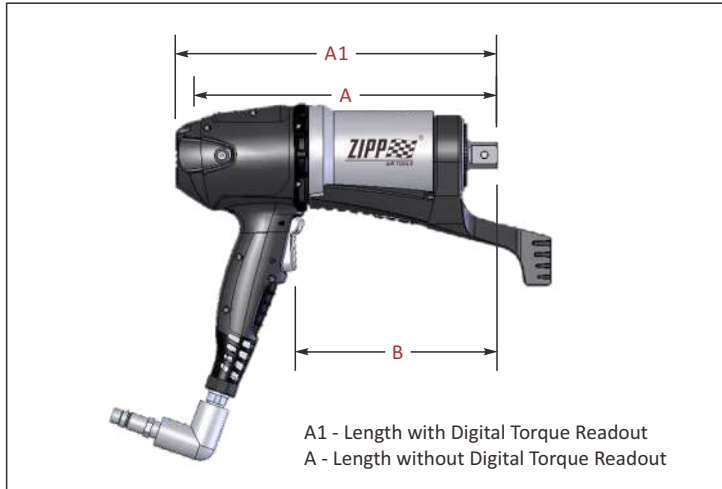
Reaction Bar
Custom options available upon request

Thru-Handle Exhaust
To safely direct exhaust away from user

Toggle Trigger Feature
For quick forward/reverse direction control

Digital Display Screen
Available as an added option for quick torque and pressure readings (ZATXXXDR-CMPLT)

Multi-Axis Hose Swivel
For added ease of use and to prevent hose kinking



Start torquing efficiently today!
Reduce your project downtime!

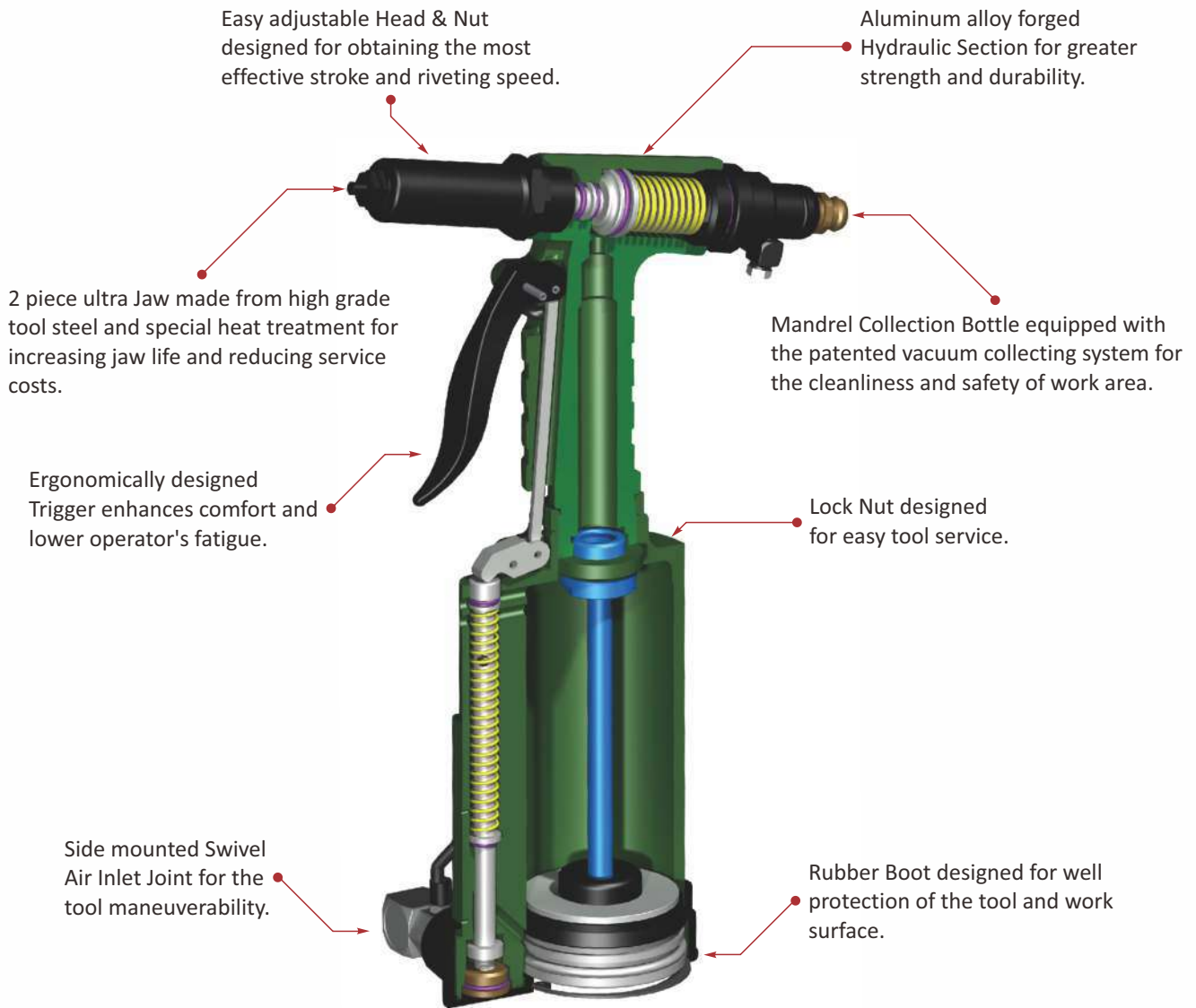
US PATENT NO. D638,682S
CANADIAN PATENT NO. 139501
EUROPEAN REGISTERED DESIGN NO. 001834300-0001
REGISTERED DESIGN NO. 001834300-0002
CHINA AND TAIWAN PATENT PENDING

Model	Square Drive Size	Torque Range ft-lbs(Nm)	Dimension A1 inch(mm)	Dimension A inch(mm)	Dimension B inch(mm)	Ring Diameter inch(mm)	Net Weight lbs(kgs)
ZAT400CMPLT	3/4"	44-400(60-540)	9.85(250.3)	9.7(247.2)	5.4(136.3)	2.25(57.2)	10.2(4.6)
ZAT400DR-CMPLT	3/4"	44-400(60-540)	9.85(250.3)	9.7(247.2)	5.4(136.3)	2.25(57.2)	10.2(4.6)
ZAT800CMPLT	3/4"	88-800(120-1100)	9.85(250.1)	9.7(247.1)	5.1(129.8)	2.97(75.3)	11.9(5.4)
ZAT800DR-CMPLT	3/4"	88-800(120-1100)	9.85(250.1)	9.7(247.1)	5.1(129.8)	2.97(75.3)	11.9(5.4)
ZAT1800CMPLT	1"	200-1800(275-2450)	12.12(307.9)	11.7(297.5)	7.5(191.3)	3.42(86.9)	17.7(8)
ZAT1800DR-CMPLT	1"	200-1800(275-2450)	12.12(307.9)	11.7(297.5)	7.5(191.3)	3.42(86.9)	17.7(8)
ZAT3000CMPLT	1"	333-3000(450-4070)	13(330)	12.8(326.9)	8.6(220.2)	3.8(96.5)	22.8(10.3)
ZAT3000DR-CMPLT	1"	333-3000(450-4070)	13(330)	12.8(326.9)	8.6(220.2)	3.8(96.5)	22.8(10.3)

Removable Drives for Low-Cost Maintenance (Note: Use of hex drives may require special reaction bars.)

Hex Size	5/8"	3/4"	7/8"	1"	1-1/4"	14mm	17mm	19mm	22mm
ZAT400	ZAT400-HX1	ZAT400-HX2				ZAT400-HX7	ZAT400-HX8	ZAT400-HX9	
ZAT800	ZAT800-HX1	ZAT800-HX2				ZAT800-HX7	ZAT800-HX8	ZAT800-HX9	
ZAT1800		ZAT1800-HX2	ZAT1800-HX3	ZAT1800-HX4			ZAT1800-HX8	ZAT1800-HX9	ZAT1800-HX10
ZAT3000		ZAT3000-HX2	ZAT3000-HX3	ZAT3000-HX4	ZAT3000-HX5			ZAT3000-HX9	ZAT3000-HX10

Full Aluminum Housing Series



Applications

- Wherever the fastening methods like: welding, sheet metal screw, bolt, nut, washer, tubular, semi-tubular and solid rivets and adhesives are applied, can be substituted by blind rivets.
- All models above are good for setting standard blind rivets and structural blind rivets.

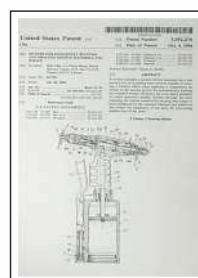
Patent pending in other countries



R.O.C.PAT.:
092648



P.R.C.PAT.:
ZL 94 2 22569.4



U.S.A.PAT.NO.:
6,149,356



ZT0318VS
 5/32" Air Hydraulic Riveter
 (Vacuum type)
 Max. 4.0mm blind rivet in Alum./Steel



ZT0618VS
 3/16" Air Hydraulic Riveter
 (Vacuum type)
 Max. 4.8mm blind rivet in Steel/Steel



ZT0918VS
 3/16" Air Hydraulic Riveter
 (Vacuum type)
 Max. 4.8mm blind rivets in all materials



ZT1214VS-5
 3/16" Air Hydraulic Riveter
 (Vacuum type)
 Max. 4.8mm blind rivets in all materials



ZT1819VS
 1/4" Air Hydraulic Riveter
 (Vacuum type)
 Max. 6.4mm blind rivets in all materials

ZT1214VS-6
 1/4" Air Hydraulic Riveter
 (Vacuum type)
 Max. 6.4mm blind rivet in Steel/Steel

Accessories

- Riveter X 1
- Small Wrench X 1
- Large Wrench X 1
- Collection Bottle X 1

DO NOT apply air pressure over 110 psi / 7.5 bar to these tools.

Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Net Weight lbs(kgs)	Operating Air Pressure psi(bar)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT	Nosepieces Equipped inch(mm)
ZT0318VS	770(350)	11/16(18)	2.86(1.3)	90(6.2)	3/8(10)	1/4	3/32(2.4)1/8(3.2)5/32(4.0)
ZT0618VS	1320(596)	11/16(18)	3.41(1.55)	90(6.2)	3/8(10)	1/4	3/32(2.4)1/8(3.2)5/32(4.0)3/16(4.8)
ZT0918VS	1983(900)	11/16(18)	4.07(1.85)	90(6.2)	3/8(10)	1/4	3/32(2.4)1/8(3.2)5/32(4.0)3/16(4.8)
ZT1214VS-5	2640(1200)	9/16(14)	4.27(1.94)	90(6.2)	3/8(10)	1/4	5/32(4.0)3/16(4.8)
ZT1214VS-6	2640(1200)	9/16(14)	4.27(1.94)	90(6.2)	3/8(10)	1/4	3/16(4.8)1/4(6.4)
ZT1819VS	3960(1800)	3/4(19)	5.27(2.6)	90(6.2)	3/8(10)	1/4	3/16(4.8)1/4(6.4)

Air Hydraulic Blind Rivet Installation Tool



ZT0618T



ZT0918T



ZT1214T



ZT1819T



ZT0918L



ZT1214L



ZT1819L



ZT0918LV



ZT1214LV



ZT1819LV

DO NOT apply air pressure over 110 psi / 7.5 bar to these tools.

*T: Trigger Type, No-Vacuum. *L: Lever Type, No-Vacuum. *LV: Lever Type, With Vacuum

*Please refer to the blind rivet specification to ensure the tensile strength is lower than the traction power of the model you select.

Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Net Weight lbs(kgs)	Nosepieces Equipped inch(mm)	Max. Capacity
ZT0618T	1320(596)	11/16(18)	3.30(1.50)	3/32(2.4)1/8(3.2) 5/32(4.0)3/16(4.8)	Max. 3/16"(4.8mm) blind rivets in steel/steel
ZT0918T	1983(900)	11/16(18)	3.96(1.80)	3/32(2.4)1/8(3.2) 5/32(4.0)3/16(4.8)	Max. 3/16"(4.8mm) standard & structural blind rivets in all materials
ZT1214T	2460(1200)	9/16(14)	4.16(1.89)	5/32(4.0)3/16(4.8) 1/4(6.4)	Max. 1/4"(6.4mm) blind rivets in steel/steel
ZT1819T	3960(1800)	3/4(19)	5.61(2.55)	3/16(4.8)1/4(6.4)	Max. 1/4"(6.4mm) standard & structural blind rivets in all materials
ZT0918L ZT0918LV	1983(900)	11/16(18)	3.96(1.80) 4.07(1.85)	3/32(2.4)1/8(3.2) 5/32(4.0)3/16(4.8)	Max. 3/16"(4.8mm) standard & structural blind rivets in all materials
ZT1214L ZT1214LV	2460(1200)	9/16(14)	4.16(1.89) 4.27(1.94)	5/32(4.0)3/16(4.8) 1/4(6.4)	Max. 1/4"(6.4mm) blind rivets in steel/steel
ZT1819L ZT1819LV	3960(1800)	3/4(19)	5.60(2.55) 5.72(2.60)	3/16(4.8)1/4(6.4)	Max. 1/4"(6.4mm) standard & structural blind rivets in all materials

● Operating Air Pressure: 90PSI/6.2bar ● Air Inlet Size: 1/4 inch-NPT/PT ● Min. Hose Size: 3/8"(10mm)

Features

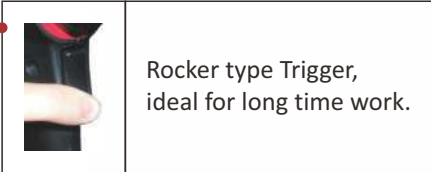
- Module unit mechanism enables more common parts to be used in similar designed tools.
- Designed with patented "Module units assembled in composite clam shell housing" for operator's comfort and ease of service.
- Ergonomic texture coated composite housing for operator's comfort.
- Build-in exhaust muffler to minimize the tool noise efficiently.
- Rocker type trigger for ease of operational control.
- Perfect tool for automotive & general industries.
- Optional Jaw Pusher & Nose Pieces for small size rivets.

Patented Vacuum Mandrel Collection System holds the rivets in the Nosepiece regardless of tool position also assure perfect shock absorption.



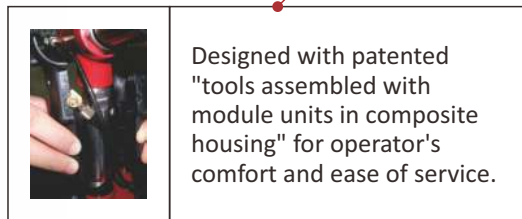
Aluminum alloy forged and heat treated Hydraulic Section for greater strength and durability.

Easy adjustable Head & Nut designed for obtaining the most effective stroke and riveting speed.



Rocker type Trigger, ideal for long time work.

The rear cap of Collection Bottle can be rotated to direct exhaust air at any direction.



Designed with patented "tools assembled with module units in composite housing" for operator's comfort and ease of service.

Rubber Boot designed for well protection of the tool and work surface.

Applications

- Wherever the fastening methods like: welding, sheet metal screw, bolt, nut, washer, tubular, semi-tubular and solid rivets and adhesives are applied, can be substituted by blind rivets.
- All models above are good for setting standard blind rivets and structural blind rivets.

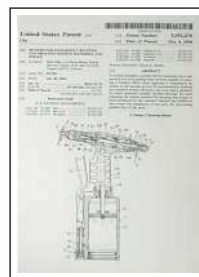
Patent pending in other countries



R.O.C.PAT.: 092648



P.R.C.PAT.: ZL 94 2 22569.4



U.S.A.PAT.NO.: 6,149,356



DEUTSCHLAND PAT.: Nr.20 2007 007 127.2



ZT1017VSN-5
 3/16" Air Hydraulic Riveter
 (Vacuum type)
 Max. 4.8mm blind rivets in all materials

Accessories
<ul style="list-style-type: none"> ● Riveter X 1 ● Small Wrench X 1 ● Large Wrench X 1 ● Collection Bottle X 1
<p>Optional</p> <ul style="list-style-type: none"> ● P/N 1017VSN-1 1/4"(6.4mm) Pulling Kit ● P/N 1017VSN-2 3/32" & 1/8"(2.4mm & 3.2mm) Pulling Kit



ZT1017VSN-6
 1/4" Air Hydraulic Riveter
 (Vacuum type)
 Max. 6.4mm blind rivets in Alum./Steel

Accessories
<ul style="list-style-type: none"> ● Riveter X 1 ● Small Wrench X 1 ● Large Wrench X 1 ● Collection Bottle X 1
<p>Optional</p> <ul style="list-style-type: none"> ● P/N 1017VSN-2 3/32" & 1/8"(2.4mm & 3.2mm) Pulling Kit ● P/N 1017VSN-3 5/32" & 3/16"(4.0mm & 4.8mm) Pulling Kit

DO NOT apply air pressure over 110 psi / 7.5 bar to these tools.

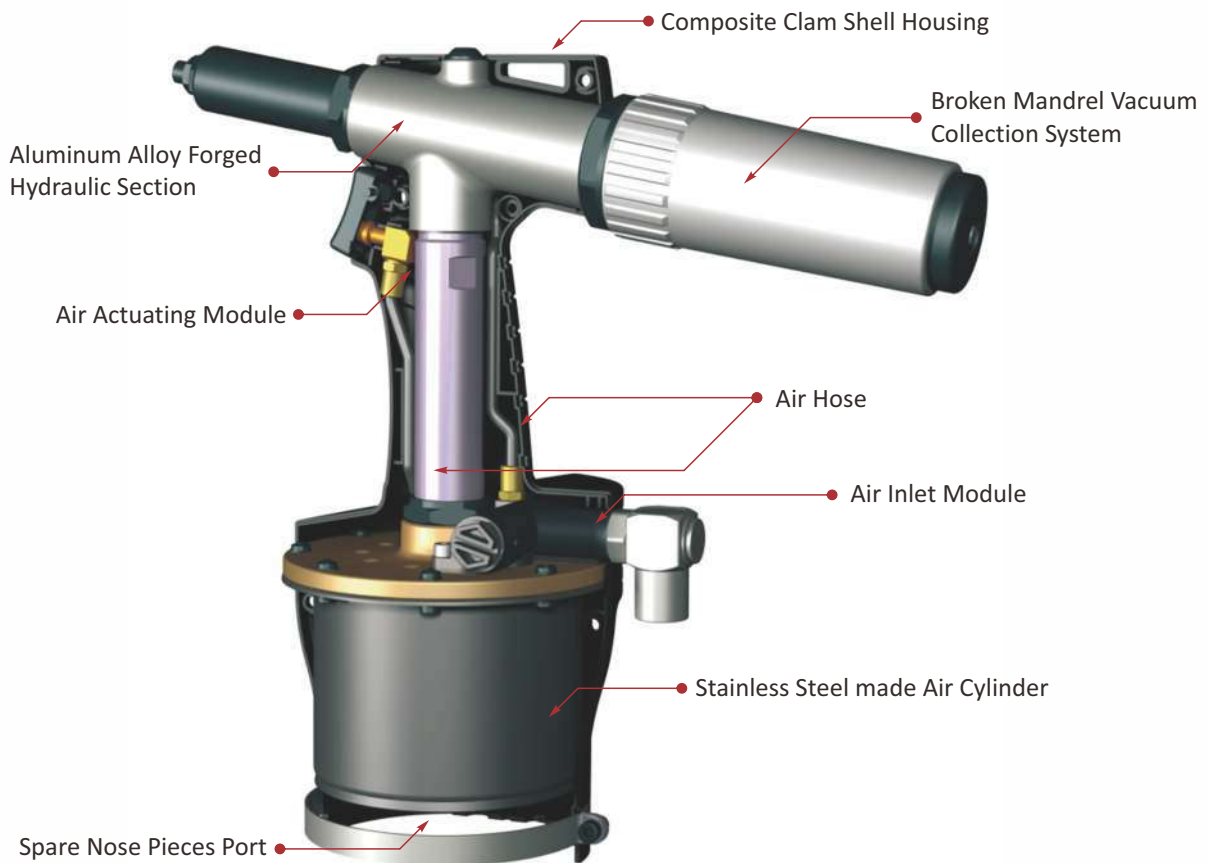
*Please refer to the blind rivet specification to ensure the tensile strength is lower than the traction power of the model you select.

Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Net Weight lbs(kgs)	Operating Air Pressure psi(bar)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT	Nosepieces Equipped inch(mm)
ZT1017VSN-5	2248(1022)	43/64(17)	4.3(1.95)	90(6.2)	3/8(10)	1/4	5/32(4.0) 3/16(4.8)
ZT1017VSN-6	2248(1022)	43/64(17)	4.3(1.95)	90(6.2)	3/8(10)	1/4	1/4(6.4)

Full Composite Housing Series

Features

- Built with patented "Module units assembled in composite clam shell housing" for the ease of tool service.
- Patented "Broken mandrel vacuum collection system" for the cleanliness and safety of work area.
- Forged and heat treated aluminum alloy made Hydraulic Section for the best rigidity.
- Stainless steel made Air Cylinder for the best rigidity and durability of the tool.
- Easy adjustable Head & Nut designed for obtaining the most effective stroke.
- Ergonomic texture coated composite housing for operator's comfort.
- Equipped with safety valve to avoid damage due to over pressure.
- Swivel air inlet design for maneuverability of works.
- The lightest model among compatible designs.



Patent pending in other countries



R.O.C.PAT.:
092648



P.R.C.PAT.:
ZL 94 2 22569.4



DEUTSCHLAND PAT.:
Nr.20 2007 007 127.2

Full Composite Housing Series



ZT0919VS

3/16" Composite Air Hydraulic Riveter
Max. 4.8mm standard & structural blind rivets in all materials



ZT1821VS

1/4" Composite Air Hydraulic Riveter
Max. 6.4mm standard & structural blind rivets in all materials

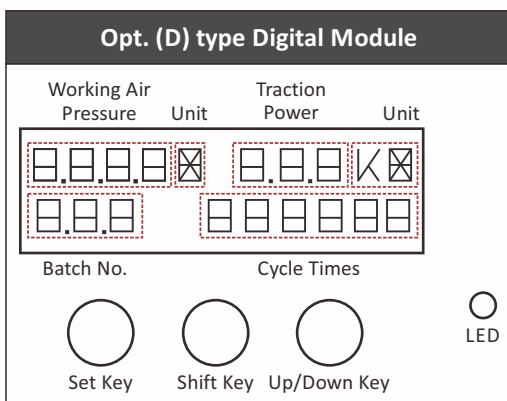
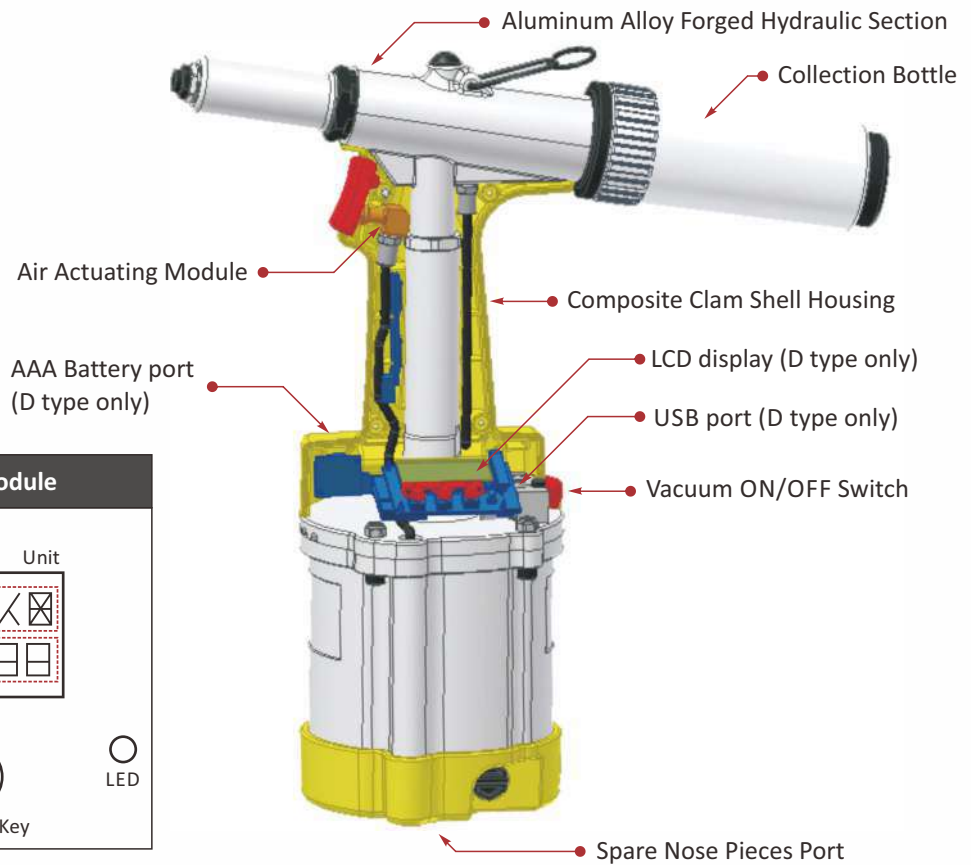
DO NOT apply air pressure over 110 psi / 7.5 bar to these tools.

*Please refer to the blind rivet specification to ensure the tensile strength is lower than the traction power of the model you select.

Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Net Weight lbs(kgs)	Operating Air Pressure psi(bar)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT	Nosepieces Equipped inch(mm)
ZT0919VS	1980(900)	3/4(19)	3.3(1.5)	90(6.2)	3/8(10)	1/4	3/32(2.4)1/8(3.2) 5/32(4.0)3/16(4.8)
ZT1821VS	4013(1800)	13/16(21)	5.1(2.3)	90(6.2)	3/8(10)	1/4	3/16(4.8)1/4(6.4)

Features

- Features with the most advanced patented digital module to enable operators know the rivet tool setting capacity instantly under various air supply condition and the rivet setting cycles performed during their working period.
- It will also remind operators when to do service or maintenance to the tool in proper interval.
- It will help to cease the controversy about warranty issue especially if the tool has been misused or abused with abnormal high air pressure which exceeds the design specification.
- Built with patented "Module units assembled in composite clam shell housing" for the ease of tool service.
- Patented "Broken mandrel vacuum collection system" for the cleanliness and safety of work area.
- Forged and heat treated aluminum alloy made Hydraulic Section for the best rigidity.
- Easy adjustable Head & Nut designed for obtaining the most effective stroke.
- Ergonomic texture coated composite housing for operator's comfort.
- Swivel air inlet design for maneuverability works.



Patent pending in other countries



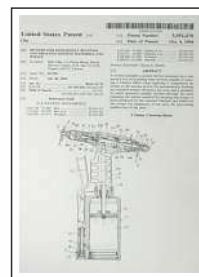
R.O.C.PAT.:
355976



R.O.C.PAT.:
092648



P.R.C.PAT.:
ZL 94 2 22569.4

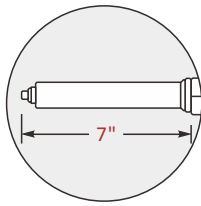


U.S.A.PAT.NO.:
6,149,356



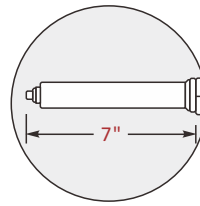
DEUTSCHLAND PAT.:
Nr.20 2007 007 127.2

Air Hydraulic Blind Rivet Installation Tool



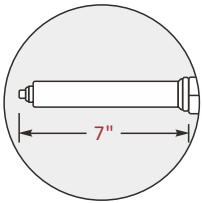
W/Digital Module

ZT0520 (L) / ZT0520D (L)
5/32" Air Hydraulic Riveter
ZT0715 (L) / ZT0715D (L)
3/16" Air Hydraulic Riveter
(L) - 7inch extended front head



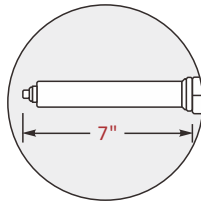
W/Digital Module

ZT0922 (L) / ZT0922D (L)
3/16" Air Hydraulic Riveter
ZT1218 (L) / ZT1218D (L)
1/4" Air Hydraulic Riveter
(L) - 7inch extended front head



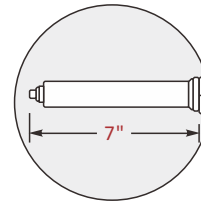
W/Digital Module

ZT1528 (L) / ZT1528D (L)
ZT1725 (L) / ZT1725D (L)
1/4" Air Hydraulic Riveter
(L) - 7inch extended front head



W/Digital Module

ZT2021 (L) / ZT2021D (L)
ZT2318 (L) / ZT2318D (L)
1/4" Air Hydraulic Riveter
(L) - 7inch extended front head



W/Digital Module

ZT2021-8 (L) / ZT2021D-8 (L)
ZT2318-8 (L) / ZT2318D-8 (L)
5/16" Air Hydraulic Riveter
(L) - 7inch extended front head

DO NOT apply air pressure over 110 psi / 7.5 bar to these tools.

*Please refer to the blind rivet specification to ensure the tensile strength is lower than the traction power of the model you select.

Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Net Weight lbs(kgs)	Nosepieces Equipped inch(mm)	Max. Capacity
ZT0520 ZT0520D	1100(500)	51/64(20)	3.8(1.7)	3/32(2.4)1/8(3.2) 5/32(4.0)	Max. 5/32"(4.0mm) structural rivets in all materials
ZT0715 ZT0715D	1500(700)	19/32(15)	3.8(1.7)	3/32(2.4)1/8(3.2) 5/32(4.0)3/16(4.8)	Max. 3/16"(4.8mm) blind rivets in steel/steel
ZT0922 ZT0922D	2000(920)	7/8(22)	4.2(1.9)	5/32(4.0)3/16(4.8) Monobolt 3/16(4.8)	Max. 3/16"(4.8mm) structural rivets in all materials
ZT1218 ZT1218D	2523(1150)	23/32(18)	4.2(1.9)	5/32(4.0)3/16(4.8) 1/4(6.4)	Max. 1/4"(6.4mm) blind rivets in steel/steel
ZT1528 ZT1528D	3300(1500)	1-1/8(28)	5.6(2.5)	3/16(4.8)1/4(6.4) Monobolt 3/16(4.8)1/4(6.4)	Max. 1/4"(6.4mm) structural rivets in all materials
ZT1725 ZT1725D	3700(1700)	63/64(25)	5.6(2.5)	3/16(4.8)1/4(6.4) Monobolt 3/16(4.8)1/4(6.4)	Max. 1/4"(6.4mm) structural rivets in all materials
ZT2021 ZT2021D	4400(2000)	53/64(21)	5.6(2.5)	3/16(4.8)1/4(6.4) Monobolt 3/16(4.8)1/4(6.4)	Max. 1/4"(6.4mm) structural rivets in all materials
ZT2021-8 ZT2021D-8	4400(2000)	53/64(21)	5.6(2.5)	5/16(7.8)	Max. 5/16"(7.8mm) blind rivets in steel/steel
ZT2318 ZT2318D	5000(2300)	23/32(18)	5.6(2.5)	3/16(4.8)1/4(6.4) Monobolt 3/16(4.8)1/4(6.4)	Max. 1/4"(6.4mm) structural rivets in all materials
ZT2318-8 ZT2318D-8	5000(2300)	23/32(18)	5.6(2.5)	5/16(7.8)	Max. 5/16"(7.8mm) structural rivets in all materials

● Operating Air Pressure: 90PSI/6.2bar ● Air Inlet Size: 1/4 inch-NPT/PT ● Min. Hose Size: 3/8"(10mm)

Blind Rivet Installation Tool

Features

- Sets 3/32" to 3/16" rivets with up to 1983 lbs. of pulling capacity
- Tougher and durable
- Easy operation
- Aluminum housing, strong & light weight.
- Simply structure, easy to service.
- Power by air only, no need refill hydraulic oil.
- Quick cycle times, 2.0 seconds on average.



ZAR0921
3/16" Air Riveter
ZAR0921V
3/16" Air Riveter-Vacuum



ZAR0818
3/16" Air Riveter
ZAR0818V
3/16" Air Riveter-Vacuum

Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Net Weight lbs(kgs)	Operating Air Pressure psi	Avg. Air Cons. cu.ft/stroke	Noise Level db(A)	Vibration m/s ²	Nosepieces Equipped inch(mm)
ZAR0921 ZAR0921V	1896(860)	3/4(19)	3.1(1.4)	60~90	0.03	79	<2.5	3/32(2.4)1/8(3.2) 5/32(4.0)3/16(4.8)
ZAR0818 ZAR0818V	1763(800)	23/32(18)	3.3(1.5)	60~110	-	81	<2.5	3/32(2.4)1/8(3.2) 5/32(4.0)3/16(4.8)

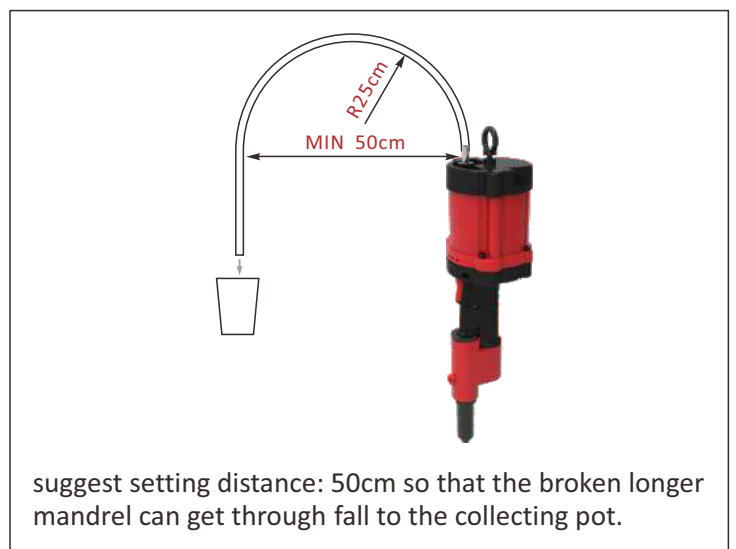
● Air Inlet Size: 1/4 inch-NPT/PT ● Min. Hose Size: 3/8"(10mm)

Features

- Ergonomic in-line design.
- Vacuum mandrel collection system.
- Designed for assembly line with balancer approach.



ZIR0922
1/4" Air Hydraulic
In-Line Riveter-Vacuum



Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Net Weight lbs(kgs)	Nosepieces Equipped inch(mm)	Max. Capacity
ZIR0922	2000(920)	7/8(22)	4.2(1.9)	3/16(4.8), 5/32(4.0) 1/4"(6.4mm), Monobolt 3/16(4.8)	Max. 1/4"(6.4mm) Alum./Steel blind rivets

● Operating Air Pressure: 90PSI/6.2bar ● Air Inlet Size: 1/4 inch-NPT/PT ● Min. Hose Size: 3/8"(10mm)



ZT0616

5/32" Air Hydraulic Riveter

ZT0616V

5/32" Air Hydraulic Riveter-Vacuum

Max. 4.0mm standard & structural blind rivet in all material

Features

- Stronger Traction Power.
- Good Balance To Minimum Operator Fatigue.
- Trigger Is Comfortable Operation At Any Direction.
- Screw Plug Is Easy For Refilling Oil.
- Forged Aluminum Alloy For Strong Hydraulic Section.

Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Net Weight lbs(kgs)	Operating Air Pressure psi(bar)	Min. Hose Size inch(mm)	Noise Level db(A)	Vibration m/s ²	Nosepieces Equipped inch(mm)
ZT0616	1300(600)	5/8(16)	3.1(1.4)	90(6.2)	3/8(10)	79	<2.5	3/32(2.4)1/8(3.2) 5/32(4.0) all material
ZT0616V	1500(700)	5/8(16)	3.1(1.4)	90(6.2)	3/8(10)	79	<2.5	3/32(2.4)1/8(3.2) 5/32(4.0) all material

Economy Riveter



ZPR1016T

3/16" Air Hydraulic Riveter

ZPR1016TK

3/16" Air Hydraulic Riveter Kit

ZPR1116T-3J

1/4" Air Hydraulic Riveter - 3 Jaws (for 1/4" Alum/Steel Blind Rivets)

ZT1918T

1/4" Air Hydraulic Riveter

Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Net Weight lbs(kgs)	Operating Air Pressure psi(bar)	Avg. Air Cons. cu.ft/stroke	Min. Hose Size inch(mm)	Noise Level db(A)	Vibration m/s ²	Nosepieces Equipped inch(mm)
ZPR1016T	2304(1045)	5/8(16)	3.262(1.48)	90(6.2)	0.125(3.5)	1/4(6.4)	70	<2.5	3/32(2.4)1/8(3.2) 5/32(4.0)3/16(4.8)
ZPR1116T-3J	2304(1045)	5/8(16)	3.262(1.48)	90(6.2)	0.125(3.5)	1/4(6.4)	70	<2.5	3/32(2.4)1/8(3.2) 5/32(4.0)3/16(4.8) 1/4(6.4)
ZT1918T	4200(1900)	23/32(18)	4.3(2)	90(6.2)	0.125(3.5)	3/8(10)	70	<2.5	3/32(2.4)1/8(3.2) 5/32(4.0)3/16(4.8)1/4(6.4)



ZRG510

3/16" Capacity Air Riveter

- Economically designed for heavy-duty, high speed production applications.
- Constructed without hydraulics for trouble-free riveting and easy maintenance.
- Comes with nosepieces for 1/8", 5/32" and 3/16" rivets.
- 100% interchangeable parts with POP PRG510A



ZRG540

1/4" Capacity Air Hydraulic Riveter

- Extremely strong, robust and reliable heavy duty tool that sets 3/32" – 1/4" diameter rivets in varying rivet head styles.
- 100% interchangeable parts with POP PRG540.

POP is a division of Stanley Black & Decker

Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Net Weight lbs(kgs)	Operating Air Pressure psi(bar)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT	Blind Rivet Setting Capacity
ZRG510	1000(454)	0.59(15)	3.66(1.66)	90(6.2)	3/8(9.5)	1/4	Standard blind rivets from 3/32", 1/8", 5/32" in all materials and 3/16" in Aluminum only
ZRG540	3000(1362)	0.69(17.5)	4.5(2.04)	90(6.2)	3/8(9.5)	1/4	Standard blind rivets from 3/32", 1/8", 5/32", 3/16" in all material and 1/4" in Steel only

Aviation Nut-Plate Installation Tool

Features

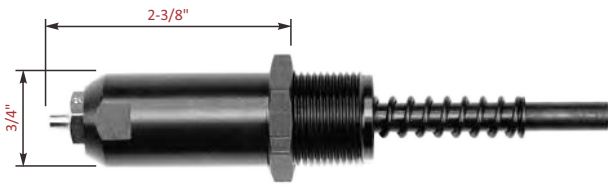
- The ZT0520CM is an air hydraulic tool designed for the installation of nut-plate rivets.
- Optional feature (D) for the most advanced patented digital module to enable the operators know the rivet tool setting capacity instantly under various air supply condition and the rivet setting cycles performed during their working period.
- It will also remind operators when to do service or maintenance to the tool in proper interval.
- It will help to cease the controversy about warranty issue especially if the tool has been misused or abused with abnormal high air pressure which exceeds the design specification.
- Built with patented "Module units assembled in composite clam shell housing" for the ease of tool service.
- Patented "Broken mandrel vacuum collection system" for the cleanliness and safety of work area.
- Forged and heat-treated aluminum alloy made Hydraulic Section for the best rigidity.
- Swivel air inlet design for maneuverability works.
- Please refer to the chart below to select the proper pulling heads. All heads need to purchase separately.



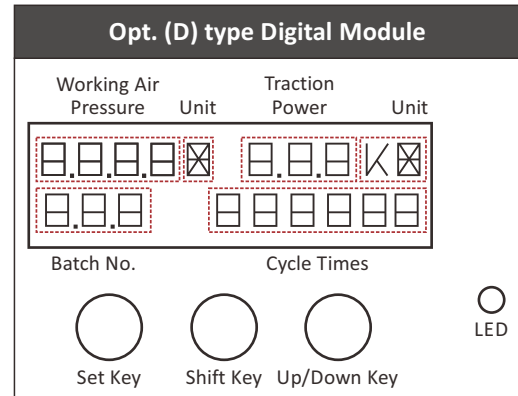
ZT0520CM
Lightweight Nut-Plate Riveter

PULLING HEADS AVAILABLE

Pulling heads are not furnished with riveter and must be ordered separately.



H702-3NPR Straight Pulling Head



Pulling Head	Rivet Type	Rivet Diameters	Type	Nosepiece*	Maximum Grip
H702-3NPR	Nut-Plate	-3, 2.5 mm	Straight	728A9-3	-12
	Nut-Plate	-4, 3.0 mm	Straight	728A9-104	-12
	SPR®	-3	Straight	728A9-3	All grips

*Both nosepieces included with pulling head.

More detailed information for these pulling heads may be found at More details about this tool can be found on our website at www.cherryaerospace.com by selecting "Tooling Manuals" from the "Technical" drop down menu.

DO NOT apply air pressure over 110 psi / 7.5 bar to these tools.

SPR® is a registered trademark of Cherry Aerospace Fasteners.

Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Net Weight lbs(kgs)	Nosepieces	Max. Capacity
ZT0520CM ZT0520CMD	1102(500)	51/64(20)		Refer to chart above	Refer to chart above

- Operating Air Pressure: 90PSI/6.2bar
- Air Inlet Size: 1/4 inch-NPT/PT
- Min. Hose Size: 3/8"(10mm)

Features

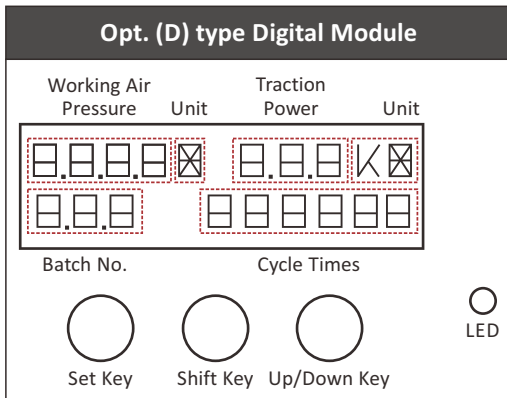
- The ZT0911CM, ZT0922CM, ZT1218CM & ZT1415CM air hydraulic tools are designed for the installation of CherryMAX® fasteners, CherryMAX® AB, CherryLOCK® A wiredraw blind fasteners, MBC® and nut-plate blind rivets.
- Optional feature (D) for the most advanced patented digital module to enable the operators know the rivet tool setting capacity instantly under various air supply condition and the rivet setting cycles performed during their working period.
- It will also remind operators when to do service or maintenance to the tool in proper interval.
- It will help to cease the controversy about warranty issue especially if the tool has been misused or abused with abnormal high air pressure which exceeds the design specification.
- Built with patented "Module units assembled in composite clam shell housing" for the ease of tool service.
- Patented "Broken mandrel vacuum collection system" for the cleanliness and safety of work area.
- Forged and heat-treated aluminum alloy made Hydraulic Section for the best rigidity.
- Swivel air inlet design for maneuverability works.
- Please refer to the chart below to select the proper pulling heads. All heads need to purchase separately.



ZT0911CM Lightweight Riveter



ZT0922CM Light Duty / Long Stroke Riveter
ZT1218CM Medium duty / Lightweight Riveter
ZT1415CM Medium duty / Lightweight Riveter



DO NOT apply air pressure over 110 psi / 7.5 bar to these tools.
 CherryMAX®, CherryLOCK®, MBC® & MAXIBOLT® are the registered trademark of Cherry Aerospace Fasteners.

Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Net Weight lbs(kgs)	Nosepieces	Max. Capacity
ZT0911CM ZT0911CMD	1984(900)	7/16(11)		Refer to chart below	Refer to chart below
ZT0922CM ZT0922CMD	1984(900)	7/8(22)		Refer to chart below	Refer to chart below
ZT1218CM ZT1218CMD	2646(1200)	23/32(18)		Refer to chart below	Refer to chart below
ZT1415CM ZT1415CMD	3086(1400)	19/32(15)		Refer to chart below	Refer to chart below

● Operating Air Pressure: 90PSI/6.2bar ● Air Inlet Size: 1/4 inch-NPT/PT ● Min. Hose Size: 3/8"(10mm)

PULLING HEADS AVAILABLE FOR THE SECTION 1 RIVETERS

Pulling heads are not furnished with riveter and must be ordered separately. More detailed information for these pulling heads may be found at More details about this tool can be found on our website at www.cherryaerospace.com by selecting "Tooling Manuals" from the "Technical" drop down menu.



H701B-456 Straight



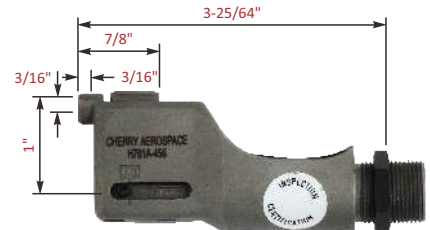
H747-456 Straight



H753A-456 Right Angle



H782 Offset



H781A-456 Offset

PULLING HEADS				
Pulling Head	Type	Adaptor	Fastener Installed ¹	
			Rivet Type	Diameters
H701B-456 H747-456 ¹	Straight	—	CherryMAX®	-4, -5, -6
	Straight	—	CherryMAX® 'AB'	-4, -5, -6 ³
	Straight	—	MBC® L/C	-4, -5, -6
	Straight	—	SST®	-4, -5, -6
H753A-456 ¹	Right Angle	—	CherryMAX®	-4, -5, -6
	Right Angle	—	CherryMAX® 'AB'	-4, -5, -6 ³
	Right Angle	—	SST®	-4, -5, -6
H781A-456 H782 ¹	Offset	—	CherryMAX®	-4, -5, -6
	Offset	—	CherryMAX® 'AB'	-4, -5, -6
	Offset	—	SST®	-4, -5, -6
H747-3A, -4A, -5A, -6A	Straight	—	CherryLOCK® 'A'	-3, -4, -5, -6
H9015-3C, -4C, -5C, -6C	Straight	704A9	MS/Nutplate Rivets	-3, -4, -5, -6
H746-4MBC, -5 MBC, -6MBC	Straight	—	Std. MBC®	-4, -5, -6
H704-()NP	Straight	—	Rivetless NutPlate	See Page 25
H704-()NPC	Straight	—	Rivetless Nutplates for Composite Structures	See Page 25
RIVETER GRIP CAPABILITY ⁴				
Fastener Type	Riveter Model			
	ZT1218CM	ZT1415CM	ZT0911CM	ZT0922CM
CherryMAX®	All Grips	All Grips	All Grips	All Grips
CherryMAX® AB	-05	-05	-04	-09
CherryLOCK® "A"	-05	-05	-04	-09
Standard MBC® and MBC® L/C	5 ⁵	5 ⁵	4 ⁵	All Grips
SST®	All Grips	All Grips	All Grips	All Grips
MS/Nutplate Rivets	-05	-05	-04	All Grips
MAXIBOLT® Both Types (U and S)	All Grips	All Grips	All Grips	All Grips ²
Rivetless NutPlate	All Grips	All Grips	—	—

Notes:

- See Pulling Head Tool Sheet for other configurations and fastener capabilities.
- ZT0922CM is only recommended for -4 and -5 diameter MAXIBOLT® fasteners due to power limitations.
- H747-456, H753A-456 and H782 can be re-configured in order to install -6" aluminum fasteners; more information at www.cherryaerospace.com by selecting "Tooling Manuals" from the "Technical" drop down menu.
- Grip capability may be extended by "double stroking".
- Grip as identified by NAS1719, NAS1720, and NAS1721 (see Standards Page for the fastener to be installed).

Features

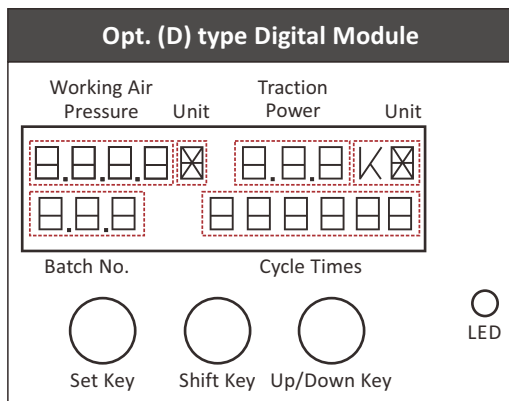
- The ZT1914CM & ZT3213CM air hydraulic tools are designed for the installation of Lock Bolt & Blind Bolt type fasteners.
- Optional feature (D) for the most advanced patented digital module to enable the operators know the rivet tool setting capacity instantly under various air supply condition and the rivet setting cycles performed during their working period.
- It will also remind operators when to do service or maintenance to the tool in proper interval.
- It will help to cease the controversy about warranty issue especially if the tool has been misused or abused with abnormal high air pressure which exceeds the design specification.
- Built with patented "Module units assembled in composite clam shell housing" for the ease of tool service.
- Patented "Broken mandrel vacuum collection system" for the cleanliness and safety of work area. (for ZT1914CM)
- Forged and heat-treated aluminum alloy made Hydraulic Section for the best rigidity.
- Swivel air inlet design for maneuverability works.
- Please refer to the chart below to select the proper pulling heads. All heads need to purchase separately.



ZT1914CM
Lightweight Lockbolt Riveter



ZT3213CM
Medium Duty Lockbolt Riveter



DO NOT apply air pressure over 110 psi / 7.5 bar to these tools.

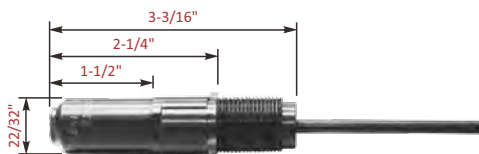
CherryMAX®, CherryLOCK®, MAXIBOLT® & MAXIBOLT PLUS® are the registered trademark of Cherry Aerospace Fasteners.

Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Net Weight lbs(kgs)	Nosepieces	Max. Capacity
ZT1914CM ZT1914CMD	4189(1900)	9/16(14)		Refer to chart below	Refer to chart below
ZT3213CM ZT3213CMD	7055(3200)	33/64(13)		Refer to chart below	Refer to chart below

● Operating Air Pressure: 90PSI/6.2bar ● Air Inlet Size: 1/4 inch-NPT/PT ● Min. Hose Size: 3/8"(10mm)

PULLING HEADS AVAILABLE FOR THE ZT1914CM & ZT3213CM RIVETERS

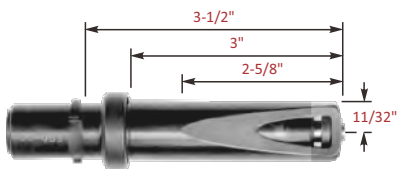
Pulling heads are not furnished with riveter and must be ordered separately.



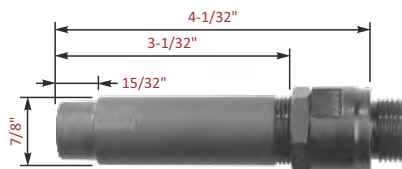
H1900-456 Straight Pulling Head



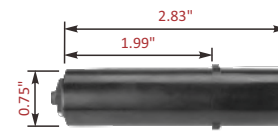
744-300 Adapter



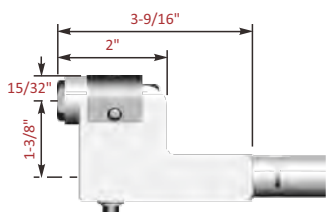
H513SRC-06-35 Straight Pulling Head



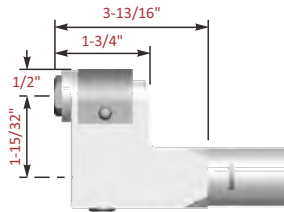
H84B-568 Straight Pulling Head



H84A-8 Straight Pulling Head



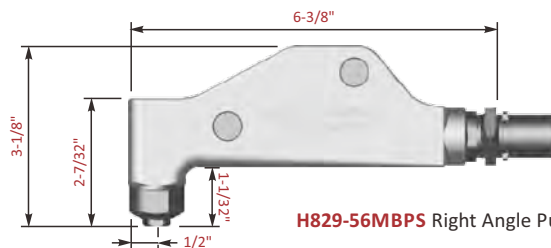
H563-4B, H563-5B, H563-6B Offset Pulling Head



H562-6B, H562-8B Offset Pulling Head



H856-6MB Offset Pulling Head



H829-56MBPS Right Angle Pulling Head

Pulling Heads for ZT1914CM/ZT3213CM tools					
Fastener Type	Pulling Head Type	Tool Part Number		Adaptor	Diameter
		MAXIBOLT® S TYPE	MAXIBOLT® U TYPE		
MAXIBOLT®	Straight	H83B-5MB	H83B-5MBU	None	-05
	Straight	H83B-6MB	H83B-6MBU	None	-06
	Straight	H84A-8MB	H84A-8MBU	None	-08
	Offset	H856-6MB	H856-6MB+856-003	744-200	-06
	Right Angle	H829-5MB	H829-5MBU	None	-05
	Right Angle	H829-6MB	H829-6MBU	None	-06
	Right Angle	H829-8MB	H829-8MBU	None	-08
Lockbolt	Straight	H513, H513S, H513SR		None	-4, -5, -6, -8
	Offset	H563-4B/5B/6B		None	-4, -5, -6
	Offset	H562-6B/8B		744-100	-6, -8
MAXIBOLT PLUS®	Straight	H84B-568*		None	-5, -6, -8
	Right Angle	H829-56MBPS		None	-5, -6
NAS1919/1921	Straight	H1900-456		None	-4, -5, -6
CherryMAX®	Straight	H84A-8		None	-8
	Right Angle	H829-8		None	-5, -6, -8
CherryMAX® 'AB' CherryLOCK® 'A'	Straight	H84-8CLA		None	-8

More details about these pulling heads may be found on our website at www.cherryaerospace.com by selecting "Tooling Manuals" from the "Technical" drop down menu.

⬡ Aviation Split type Lock Bolt & Blind Bolt Installation Tool ⬡

Features

- The ZT4125SCM is a split type air hydraulic tool designed for the installation of Lock Bolt & Blind Bolt type fasteners.
- The advantage of this split type with 3M length of hydraulic hose set design is to have the power unit placed on the floor, keep it away from the structure, easier access in space constricted areas of the aircraft and more ergonomic to work with for the operator.
- Forged and heat-treated aluminum alloy made Hydraulic Section for the best rigidity.
- Swivel air inlet design for maneuverability works.
- Please refer to the chart below to select the proper pulling heads. All heads need to purchase separately.



DO NOT apply air pressure over 110 psi / 7.5 bar to these tools.

*Please refer to the blind rivet specification to ensure the tensile strength is lower than the traction power of the model you select.

*Below specification are measured with 1 meter length, 1/8" I.D hydraulic hose

Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Net Weight lbs(kgs)	Nosepieces	Max. Capacity
ZT4125SCM	9039(4100)	63/64(25)		Pulling head need to purchase separately.	Max. 3/16" (4.8mm) Cherry Max Rivet

● Operating Air Pressure: 90PSI/6.2bar ● Air Inlet Size: 1/4 inch-NPT/PT ● Min. Hose Size: 3/8"(10mm)



PULLING HEAD AVAILABILITY

Pulling heads are not furnished with riveter and must be ordered separately.

ZT4125SCM Pulling Head Selection Chart						
Lockbolt Dia.	Length from Tool Face (except column 3)	Short Pintail	1.Straight Nose		2.Chisel Nose	3.Offset
			Swivel	Swivel Self-Releasing	Swivel Self-Releasing	
-4	2"	H513-04-20*	-	-	-	H563-4B*
	3-1/2"	H513-04-35*	-	-	-	H563SP-4B*
-5	2"	-	H513S-05-20*	H513SR-05-20*	H513SRC-05-20*	H563-5B*
	3-1/2"	H513-05-35*	H513S-05-35	H513SR-05-35	H513SRC-05-35*	H563SP-5B
-6	2"	H513-06-20*	H513S-06-20*	H513SR-06-20*	H513SRC-06-20*	H563-6B*
	2-3/8"	-	H513S-06-24	H513SR-06-24	-	H562-6B
	3-1/2"	-	H513S-06-35*	H513SR-06-35*	H513SRC-06-35*	H563SP-6B*
	4-13/16"	-	H513S-06-48	H513SR-06-48	-	-
	6"	H513-06-60*	-	-	-	-
-8	2-3/8"	-	H513S-08-24	H513SR-08-24	-	H562-8B
	3-1/2"	H513-08-35*	H513S-08-35*	-	-	-
	4-16/16"	-	H513S-08-48	H513SR-08-48	H513SRC-08-48	-
-10	2-11/16"	-	H513S-10-27	H513SR-10-27	-	-
	4-3/16"	-	H513S-10-42	H513SR-10-42	-	-
-12	2-11/16"	-	H513S-12-27	H513SR-12-27	-	-
	4-3/16"	-	H513S-12-42	H513SR-12-42	-	-

*These parts require the 552 adapter when used on ZT4125SCM.

Parts with an asterisk fit directly on the ZT1914CM.

NOTES: Parts with no asterisk fit directly on ZT1914CM.

After the H513 in part numbers, S = Swivel, R = Self Releasing C = Chisel Nose Straight Lock bolt pulling head part numbers indicate pulling head length and diameter. Example: In Part No. H513-05-35 the -05 indicates -5 diameter and -35 indicates that the pulling head extends 3.5" beyond gun line.

After H563, SP = Short Pintail

CherryMAX® Pulling Heads & Adapter**				MAXIBOLT® Pulling Heads & Adapter							
	Part No.	Diameter	Adapter		Part No.	Diameter	Adapter		Part No.	Diameter	Adapter
Straight	H84A-8	-8	552	Straight Pulling Head	H652-8MB	-8	-	Offset	H856-6MB	-6	560-070
Offset	H827-8	-8	560-070		H83B-5MB	-5	552	Right Angle	H829-5MB	-5	552
Right Angle	H829-8	-8	552		H83B-5MBU	-5	552		H829-5MBU	-5	552
					H83B-6MB	-6	552		H829-6MB	-6	552
					H83B-6MBU	-6	552		H829-6MBU	-6	552
					H84A-8MB	-8	552		H829-8MB	-8	552
					H84A-8MBU	-8	552		H829-8MBU	-8	552
					H744-5MB	-5	560-070				
					H744-6MB	-6	560-070				

**CherryMAX® adapter and pulling heads can install CherryMAX®, CherryMAX® 'AB', and SST® rivets.

Blind Rivet / Rivet Nut Adapter



ZRA-48
3/16" Riveter Adaptor



ZRA-64
1/4" Riveter Adaptor



ZARA-48
3/16" Riveter Angle Adaptor

Model	Riveter Adaptor inch(mm)	Min. torque strength ft/lbs(Nm)	Max. rpm	Nosepiece inch(mm)	Hex shank inch(mm)	Dimension mm
ZRA-48	3/16(4.8)	8(11)	1000	3/32(2.4)1/8(3.2) 5/32(4.0)3/16(4.8)	1/4(6.35)	59 x 158
ZRA-64	1/4(6.4)	37(50)	800	1/8(3.2)5/32(4.0) 3/16(4.8)1/4(6.4)	1/4(6.35)	59 x 173
ZARA-48	3/16"(4.8)	8(11)	1000	3/32(2.4)1/8(3.2) 5/32(4.0)3/16(4.8)	1/4(6.35)	L195 x H185 x W58.5

Rivet Nut Adaptor Kit

Features

- A revolutionary accessory to insert rivet nuts.
- Simply attach this adaptor to your cordless, electric & pneumatic drills become a rivet nut tool.
- Can set up to max. M10 (3/8"-18) Round / Aluminum.

Applications

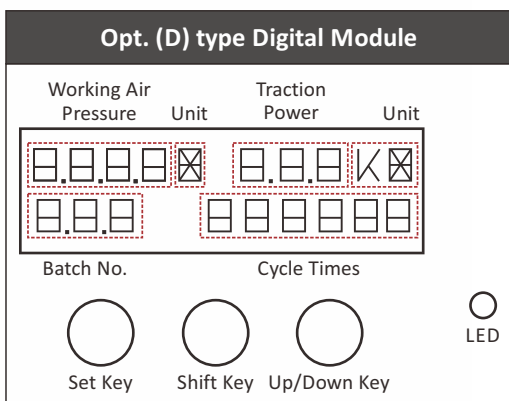
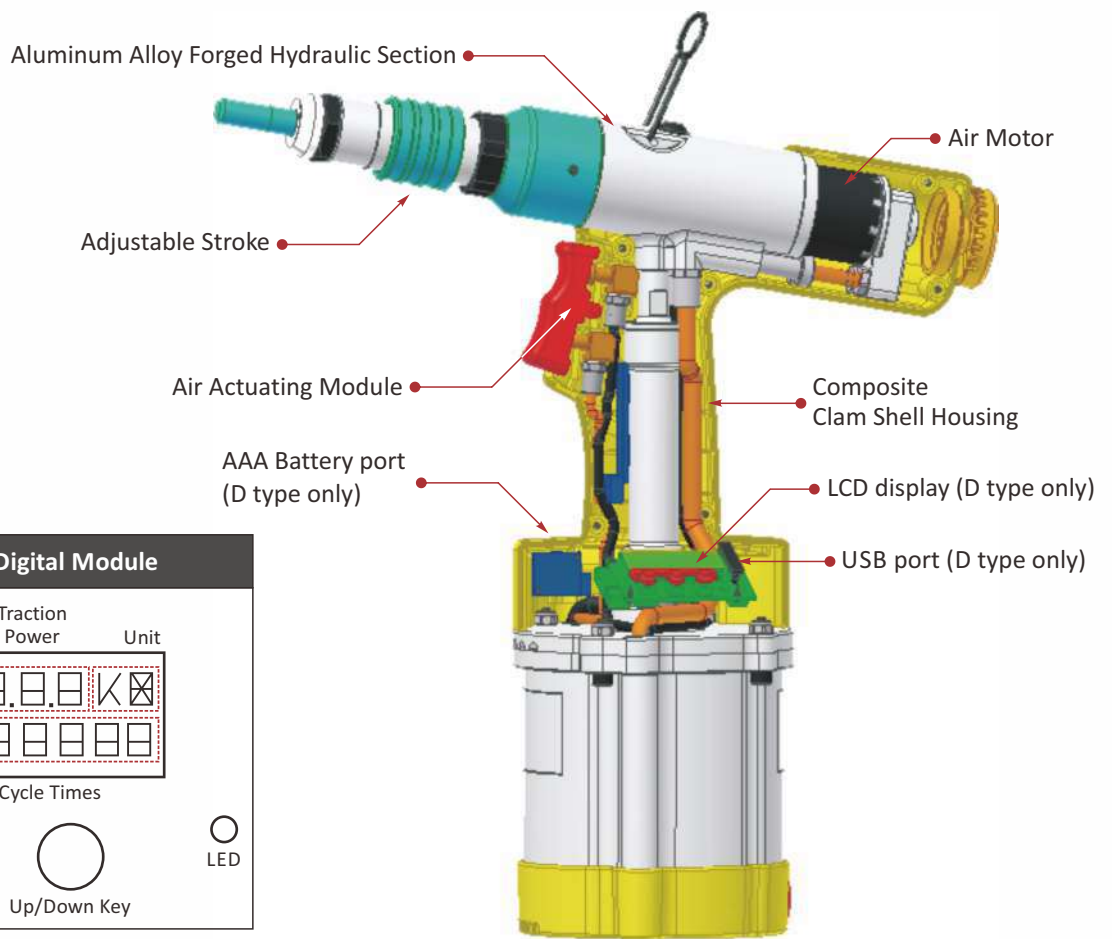
- Automotive aftermarket
- Small aircraft and boat repair
- Outdoor rivet nut insert jobs when there is no air supply.
- Residential and commercial construction
- General facility maintenance and repair



Model	Min. torque strength ft/lbs(Nm)	Max. rpm	Nut Nosepiece	Hex shank inch(mm)	Dimension mm
ZNRA-410D For Metric	73.7(100)	800	M4-M5-M6-M8-M10	1/4(6.35)	59 x 180
ZNRA-410DE For Imperial	73.7(100)	800	#8-32, #10-24, #10-32 1/4"-20, 5/16"-18, 3/8"-16	1/4(6.35)	59 x 180

Features

- Optional (D) type Digital Module to enable operators know the tool's force instantly under various air supply condition and the cycle counter performed during their working period. It also remind operators when to do service or maintenance in proper interval.
- It will help to cease the controversy about warranty issue especially if the tool has been misused or abused with abnormal high air pressure which exceeds the design specification.
- Built with patented "Module units assembled in composite clam shell housing" for the ease of tool service.
- Forged and heat treated aluminum alloy made Hydraulic Section for the best rigidity.
- Easy adjustable Head & Nut designed for obtaining the most effective stroke.
- Ergonomic composite housing for operator's comfort.
- Swivel air inlet design for maneuverability works.



Patent pending in other countries



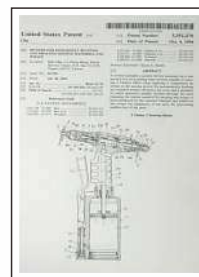
R.O.C.PAT.: 355976



R.O.C.PAT.: 092648



P.R.C.PAT.: ZL 94 2 22569.4



U.S.A.PAT.NO.: 6,149,356



DEUTSCHLAND PAT.: Nr.20 2007 007 127.2

Air Hydraulic Rivet Nut / Rivet Stud Installation Tool



Rivet Nut Tool

ZRN1606E (D)

#8-32 ~ 1/2"-13 Air Hydraulic Rivet Nut Kit
(Digital type)

ZRN1606M (D)

M4~M12 Air Hydraulic Rivet Nut Kit (Digital type)



Rivet Nut Tool

ZRN2508E (D)

#8-32 ~ 1/2"-13 Air Hydraulic Rivet Nut Kit
(Digital type)

ZRN2508M (D)

M4~M12 Air Hydraulic Rivet Nut Kit (Digital type)



Rivet Stud Tool

ZRS1606E (D)

#8-32 ~ 3/8"-16 Air Hydraulic Rivet Stud Kit
(Digital type)

ZRS1606M (D)

M4~M10 Air Hydraulic Rivet Stud Kit (Digital type)



Rivet Stud Tool

ZRS2508E (D)

#8-32 ~ 3/8"-16 Air Hydraulic Rivet Stud Kit
(Digital type)

ZRS2508M (D)

M4~M10 Air Hydraulic Rivet Stud Kit (Digital type)

NEW
PRODUCT



Rivet Nut Tool

ZRN1907E

#8-32 ~ 5/16"-18 Air Hydraulic Rivet Nut Kit

ZRN1907M

M4~M8 Air Hydraulic Rivet Nut Kit
Single trigger - Auto Reverse


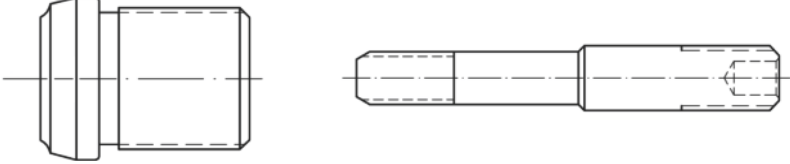
DO NOT apply air pressure over 110 psi / 7.5 bar to these tools.


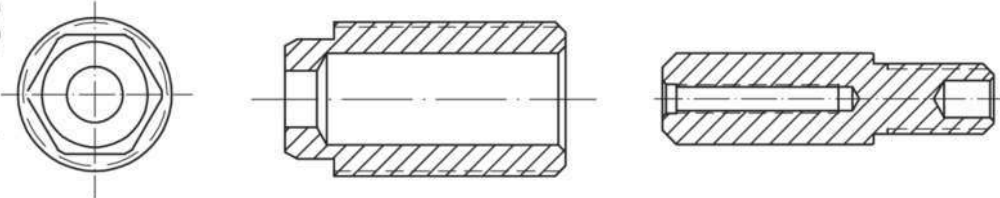
*Please refer to the blind rivet specification to ensure the tensile strength is lower than the traction power of the model you select.

Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Net Weight lbs(kgs)	Rivet Nut / Rivet Stud Max. Capacity
ZRN1606E ZRN1606ED	3500(1600)	1/4(6)	4.9(2.2)	#8-32~3/8"-16 Hex. rivet nut in Steel @ 90psi 1/2"-13 Round rivet nut in Steel @ 100psi
ZRN1606M ZRN1606MD	3500(1600)	1/4(6)	4.9(2.2)	M4~M10 Hex. rivet nut in Steel @ 90psi M12 Round rivet nut in Steel @ 100psi
ZRN2508E ZRN2508ED	5500(2500)	5/16(8)	5.4(2.4)	#8-32~1/2"-13 Hex. rivet nut in all materials
ZRN2508M ZRN2508MD	5500(2500)	5/16(8)	5.4(2.4)	M4~M12 Hex. rivet nut in all materials
ZRS1606E ZRS1606ED	3500(1600)	1/4(6)	4.9(2.2)	#8-32~3/8"-16 Round rivet stud in all materials
ZRS1606M ZRS1606MD	3500(1600)	1/4(6)	4.9(2.2)	M4~M10 Round rivet stud in all materials
ZRS2508E ZRS2508ED	5500(2500)	5/16(8)	5.4(2.4)	#8-32~3/8"-16 Hex. rivet stud in all materials
ZRS2508M ZRS2508MD	5500(2500)	5/16(8)	5.4(2.4)	M4~M10 Hex. rivet stud in all materials
ZRN1907E	4200(1900)	9/32 (7)	4.2(1.9)	#8-32 ~ 5/16"-18 Hex. rivet nut in all materials
ZRN1907M	4200(1900)	9/32 (7)	4.2(1.9)	M4~M8 Hex. rivet nut in all materials

Parts Break Down For Rivet Nut/Rivet Stud:
 Customers are welcome to order Bushing or Pull Rod separately.

Examples: order247B32+247A32= order complete set of M4 Bushing+Pull Rod
 order247B32= order M4 Bushing

Rivet Nut							
							
Bolt Bushing				Pull Rod			
Metric		Imperial		Metric		Imperial	
P/N	Used For	P/N	Used For	P/N	Used For	P/N	Used For
258B11	M3	258B21	#6-32	258A11	M3	258A21	#6-32
258B12	M4	258B22	#8-32	258A12	M4	258A22	#8-32
258B13	M5	258B23	#10-24	258A13	M5	258A23	#10-24
258B14	M6	258B24	#10-32	258A14	M6	258A24	#10-32
258B15	M8	258B25	1/4"	258A15	M8	258A25	1/4"-20
258B16	M10	258B26	5/16"	258A16	M10	258A26	5/16"-18
258B17	M12	258B27	3/8"	258A17	M12	258A27	3/8"-16
		258B28	1/2"			258A28	1/2"-13

Rivet Stud							
							
Bolt Bushing				Pull Rod			
Metric		Imperial		Metric		Imperial	
P/N	Used For	P/N	Used For	P/N	Used For	P/N	Used For
247B32	M4	247B42	#8-32	247A32	M4	247A42	#8-32
247B33	M5	247B43	#10-24	247A33	M5	247A43	#10-24
247B34	M6	247B44	#10-32	247A34	M6	247A44	#10-32
247B35	M8	247B45	1/4"	247A35	M8	247A45	1/4"-20
247B36	M10	247B46	5/16"	247A36	M10	247A46	5/16"-18
		247B47	3/8"			247A47	3/8"-16

Air Hydraulic Installation Tool

Features

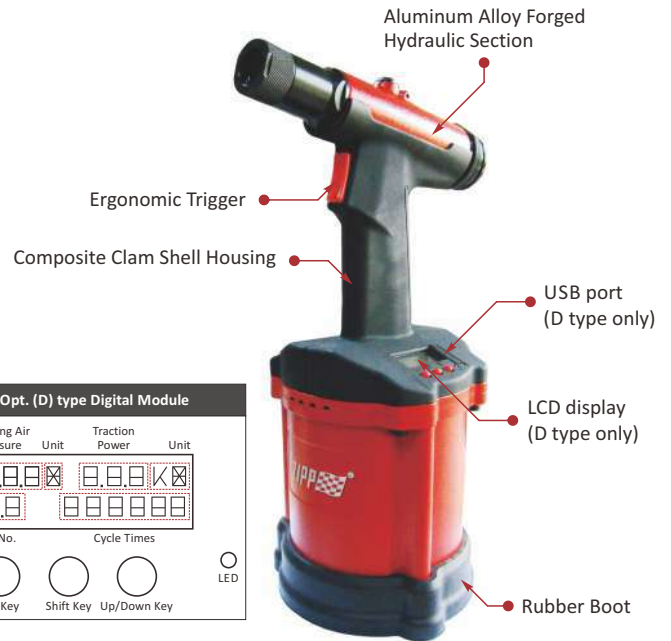
- Accepts HUCK® - C6L®, Magna Grip®, Magna-Lok®, BOM® & Bobtail® noses or AVDEL® - Avdelok®, Maxlok® & Neobolt® noses.
- Optional (D) type Digital Module to enable operators know the tool's force instantly under various air supply condition and the cycle counter performed during their working period.
- It also remind operators when to do service or maintenance in proper interval.
- It will help to cease the controversy about warranty issue especially if the tool has been misused or abused with abnormal high air pressure which exceeds the design specification.
- Built with patented "Module units assembled in composite clam shell housing" for the ease of tool service.
- Forged and heat treated aluminum alloy made Hydraulic Section for the best rigidity.
- Ergonomic composite housing for operator's comfort.
- Swivel air inlet design for maneuverability of works.

Standard Nose Assembly

 HUCK - C6L® AVDEL - AVDELOK® 202HC1A - 3/16" Fixed Grip Nose 202HC1L - Extended 3/16" Fixed Grip Nose 231HC2 - 1/4" Fixed Grip Nose 231HC2L - Extended 1/4" Fixed Grip Nose	 HUCK - MAGAN-GRIP® AVDEL - MAXLOK® 202HM1 - 3/16" Multi Grip Nose 202HM1L - Extended 3/16" Multi Grip Nose 202HM2 - 1/4" Multi Grip Nose 202HM2L - Extended 1/4" Multi Grip Nose
 HUCK - BOBTAIL® 203BOB08 - 1/4" Short Tail Nose	 AVDEL - NEOBOLT XT® 203NB08 - 1/4" Groove Tail Nose
 HUCK - BOM® AVDEL - AVBOLT® 202HB2 - 1/4" Blind Bolt Nose	 2318RS (2 Jaws) 3/16" & 1/4" Blind Rivet Conversion Kit

Opt. Extended Nose Assembly

 2318RS-4 (2 Jaws) 1/8" & 5/32" Blind Rivet Conversion Kit	 2318RS-8 (3 Jaws) 5/16" Blind Rivet Conversion Kit
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- ZT2318-HA(D)**
1/4" Air Hydraulic Installation Tool (Digital type)
Nose sold separately.
- ZT2318H(D)**
1/4" Air Hydraulic Lock Bolt Tool (Digital type)
ONE std. lock bolt nose included.
- ZT2318HK(D)**
1/4" Air Hydraulic Lock Bolt Tool Kit (Digital type)
FOUR std. lock bolt noses & 3/16", 1/4" blind rivet conversion kit included.
- ZT2318B(D)**
1/4" Air Hydraulic BOM® Installation Tool (Digital type)
- ZT1528BT(D)**
1/4" Air Hydraulic BOBTAIL® Installation Tool (Digital type)
- ZT1528NB(D)**
1/4" Air Hydraulic NEOBOLT® Installation Tool (Digital type)



DO NOT apply air pressure over 110 psi / 7.5 bar to these tools.

*Please refer to the blind rivet specification to ensure the tensile strength is lower than the traction power of the model you select.

Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Net Weight lbs(kgs)	Nose Supplied with the Tool
ZT2318-HA(D)	5000(2300)	23/32(18)	5.6(2.5)	Supply without Nose
ZT2318H(D)	5000(2300)	23/32(18)	5.6(2.5)	Choose ONE std. Lock Bolt Nose.
ZT2318HK(D)	5000(2300)	23/32(18)	5.6(2.5)	Choose FOUR std. Lock Bolt Noses & 3/16", 1/4" blind rivet conversion kit included.
ZT2318B(D)	5000(2300)	23/32(18)	5.6(2.5)	202HB2 - 1/4" Blind Bolt Nose
ZT1528BT(D)	3300(1500)	1-1/8(28)	5.6(2.5)	203BOB08 - 1/4" Short Tail Nose
ZT1528NB(D)	3300(1500)	1-1/8(28)	5.6(2.5)	203NB08 - 1/4" Groove Tail Nose

HUCK®, C6L®, MAGAN-GRIP® ARE REGISTERED TRADEMARKS OF HOWMET AEROSPACE INC.

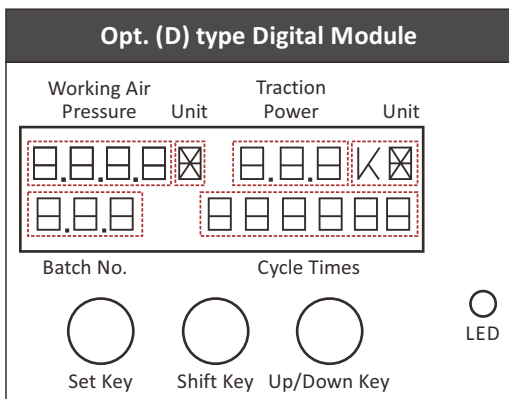
BOBTAIL® IS A REGISTERED TRADEMARK OF ALCOA INC. BOM® IS A REGISTERED TRADEMARK OF ARCONIC INC.

AVDEL®, MONOBOLT®, NEOBOLT®, AVBOLT®, MAXLOK®, AVDELOK® ARE REGISTERED TRADEMARKS OF STANLEY ENGINEERED FASTENING.

Air Hydraulic Installation Tool

Features

- Optional (D) type Digital Module to enable operators know the tool's force instantly under various air supply condition and the cycle counter performed during their working period.
- It also remind operators when to do service or maintenance in proper interval.
- It will help to cease the controversy about warranty issue especially if the tool has been misused or abused with abnormal high air pressure which exceeds the design specification.
- Built with patented "Module units assembled in composite clam shell housing" for the ease of tool service.
- Forged and heat treated aluminum alloy made Hydraulic Section for the best rigidity.
- Ergonomic texture coated composite housing for operator's comfort.
- Swivel air inlet design for maneuverability of works.
- May require more than (2) pulls for 3/8" Monobolt®
- Nose assembly need to purchase separately.



Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Net Weight lbs(kgs)	Nose Supplied with the Tool	Max. Capacity
ZT3213 ZT3213D	7050(3200)	33/64(13)	6.4(2.9)	Sold Separately	3/8" MONOBOLT® in Steel or 3/8" C6L® in Aluminum.

MONOBOLT® IS A REGISTERED TRADEMARK OF AVDEL UK LIMITED.
C6L® IS A REGISTERED TRADEMARK OF HOWMET AEROSPACE.

Split Type Air Hydraulic Rivet / Rivet Nut / Lock Bolt Installation Tools

Features

- Forged & heat treated aluminum alloy made hydraulic section for the best rigidity.
- Light weight pistol head.
- Easy to reaches inaccessible area.
- Utility Pouch for Shoulder or Waist.








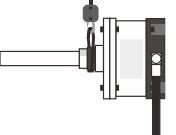
ZT0518S / ZT0920S
ZT1626S / ZT2420-8S
 Split Type Riveter w/vacuum



ZT2420HSN
ZT2420HS / ZT2420HSK
 Split Type Lock Bolt Tool



ZRN1811ES
ZRN1811MS
 Split Type Rivet Nut Tool

Standard setup for 1M length				Standard setup for 3M length					
 ZTXXXXX	+	 HH1R/HH1N 1m * 1/8" I.D. hyd. hose kit w/quick change coupler	+	 CHBT-004 Pouch	 ZTXXXXX	+	 HH3R/HH3N 3m * 1/4" I.D. hyd. hose kit w/quick change coupler	+	 Hook on Spring balancer

DO NOT apply air pressure over 110 psi / 7.5 bar to these tools.

*Please refer to the blind rivet specification to ensure the tensile strength is lower than the traction power of the model you select.

*Below specification are measured with 1 meter length, 1/8" I.D hydraulic hose

Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Handle Net Weight lbs(kgs)	Nose Supplied with the Tool	Max. Capacity
ZT0518S	1100(500)	23/32(18)	2.2(1)	3/32(2.4)1/8(3.2) 5/32(4.0)	Max. 5/32"(4.0mm) structural rivets in all materials
ZT0920S	2000(920)	51/64(20)	2.2(1)	5/32(4.0)3/16(4.8) MONOBOLT® 3/16(4.8)	Max. 3/16"(4.8mm) structural rivets in all materials
ZT1626S	3500(1600)	1-1/32(26)	2.75(1.25)	3/16(4.8)1/4(6.4) MONOBOLT® 3/16(4.8)1/4(6.4)	Max. 1/4"(6.4mm) structural rivets in all materials
ZT2420-8S	5200(2400)	51/64(20)	2.75(1.25)	5/16(7.8)	Max. 5/16"(7.8mm) structural rivets in all materials
ZT2420HSN	5200(2400)	51/64(20)	2.75(1.25)	Sold Separately	Max. 1/4" (6.4mm) lock bolts in all materials
ZT2420HS	5200(2400)	51/64(20)	2.75(1.25)	Choose ONE std. Lock Bolt Nose.	Max. 1/4" (6.4mm) lock bolts in all materials
ZT2420HSK	5200(2400)	51/64(20)	2.75(1.25)	Choose FOUR std. Lock Bolt Noses & 3/16", 1/4" blind rivet conversion kit included.	Max. 1/4" (6.4mm) lock bolts in all materials

MONOBOLT® IS A REGISTERED TRADEMARK OF AVDEL UK LIMITED.

Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Handle Net Weight lbs(kgs)	Max. Capacity
ZRN1811ES	3900(1800)	7/16(11)	3.3(1.5)	#8-32~1/2"-13 rivet nut in Hex./Steel
ZRN1811MS	3900(1800)	7/16(11)	3.3(1.5)	M4~M12 rivet nut in Hex./Steel

Split type tool - Product Code Creator

-

↑
Fill in model number (Example: **XXZT0518S**)

↑
length of hydraulic hose (1or3)

3/8"(9.5mm) Split type Pneudraulic Installation tool

Features

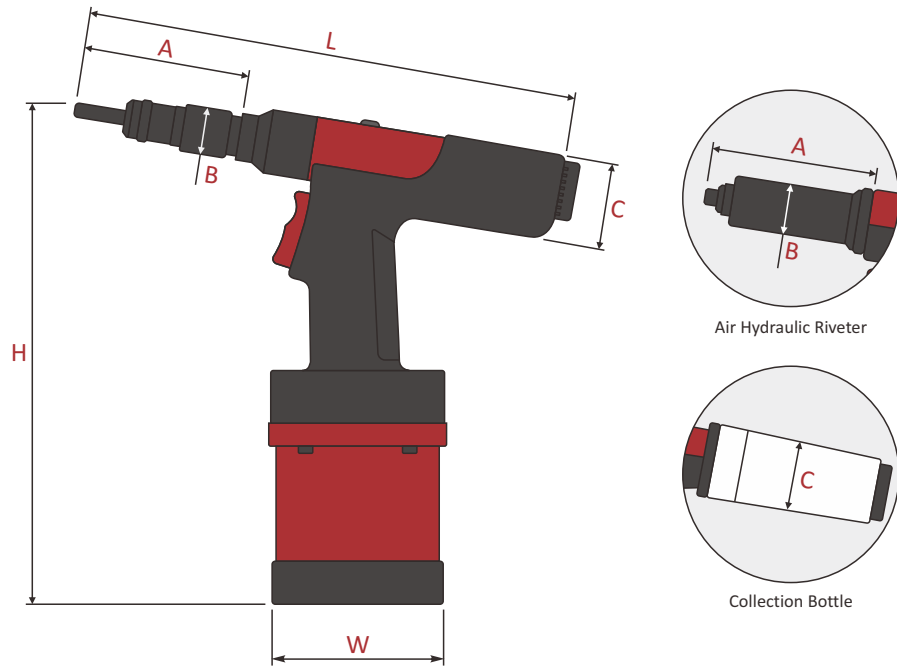
- Light weight pistol handle easy to use and reach to inaccessible area.
- Designed to install a wide range of 3/8" blind fasteners also Pin & Collar Fasteners.
- Low operating hydraulic pressure design for more durable hydraulic sealing mechanism.
- Forged & heat treated aluminum alloy made hydraulic section for the best rigidity.
- Portable intensifier instead of high cost hydraulic power unit.
- Custom designs are welcome.
- 3M length hydraulic hose set is included.
- Nose sold separately.
- ZT4125S capable to set 3/8" C6L®, Magna-Grip®, Magna-Lok®, Avdelok®, Maxlok®, Monobolt® & Avtainer® fasteners.



Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Handle Net Weight lbs(kgs)	Nose Supplied with the Tool	Max. Capacity
ZT4125S	9039(4100)	63/64(25)	3.86(1.75)	Sold Separately	Max. 3/8"(9.5mm) lock bolt

C6L®, MAGNA-GRIP®, MAGNA-LOK® ARE REGISTERED TRADEMARKS OF HOWMET AEROSPACE INC.
 MONOBOLT®, AVTAINER®, MAXLOK®, AVDELOK® ARE REGISTERED TRADEMARKS OF STANLEY ENGINEERED FASTENING.

Tool Dimensions

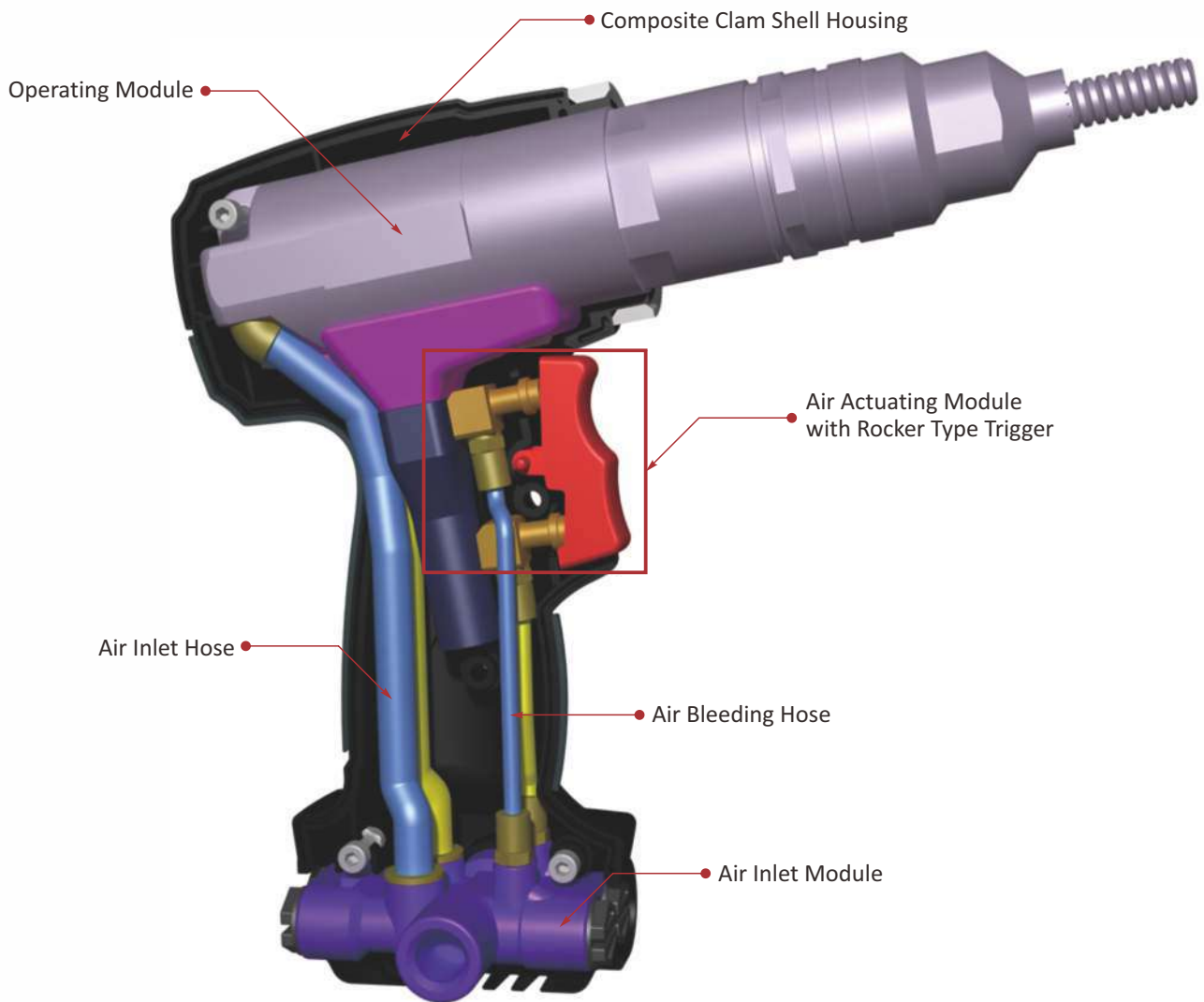


Model	L1 inch(mm)	L2 inch(mm)	W inch(mm)	H inch(mm)	A inch(mm)	B inch(mm)	C inch(mm)
ZT0318VS	7.8(198)	10.04(255)	Ø3.23(82)	10.16(258)	2.95(75)	Ø0.91(23)	Ø1.26(32)
ZT0618T/VS	7.8(198)	11.61(295)	Ø4.02(102)	11.06(281)	2.95(75)	Ø0.91(23)	Ø1.26(32)
ZT0918T/L/LV/VS	7.8(198)	11.61(295)	Ø4.02(102)	12.44(316)	2.95(75)	Ø0.91(23)	Ø1.26(32)
ZT1214T/L/LV/VS	8.03(204)	11.85(301)	Ø4.02(102)	12.56(319)	2.76(70)	Ø0.91(23)	Ø1.57(40)
ZT1819T/L/LV/VS	9.13(232)	12.95(329)	Ø5.08(129)	12.83(326)	3.31(84)	Ø0.91(23)	Ø1.57(40)
ZT0919VS	7.8(198)	11.34(288)	Ø3.86(98)	10.91(277)	2.95(75)	Ø0.91(23)	Ø1.89(48)
ZT1821VS	8.39(213)	12.28(312)	Ø3.86(98)	13.66(347)	3.31(84)	Ø0.91(23)	Ø1.89(48)
ZT1017VSN	8.5(216)	12.32(313)	Ø4.09(104)	10.83(275)	2.76(70)	Ø0.91(23)	Ø1.57(40)
ZT0520	8(203)	11.65(296)	Ø4.53(115)	11.02(280)	2.95(75)	Ø0.73(18.5)	Ø1.89(48)
ZT0715	8(203)	11.65(296)	Ø4.53(115)	11.1(282)	2.95(75)	Ø0.91(23)	Ø1.89(48)
ZT0922	8(203)	11.65(296)	Ø4.53(115)	12.32(313)	2.95(75)	Ø0.91(23)	Ø1.89(48)
ZT1218	8(203)	11.65(296)	Ø4.53(115)	12.32(313)	2.95(75)	Ø0.91(23)	Ø1.89(48)
ZT1528	9.02(229)	12.68(322)	Ø5.35(136)	13.31(338)	3.23(82)	Ø1.1(28)	Ø1.89(48)
ZT1725	9.02(229)	12.68(322)	Ø5.35(136)	13.31(338)	3.23(82)	Ø1.1(28)	Ø1.89(48)
ZT2021	8.7(221)	12.68(322)	Ø5.35(136)	13.31(338)	3.23(82)	Ø1.1(28)	Ø1.89(48)
ZT2318	8.7(221)	12.68(322)	Ø5.35(136)	13.31(338)	3.23(82)	Ø1.1(28)	Ø1.89(48)
ZRN1606	12.09(307)	/	Ø4.53(115)	11.73(298)	4.06(103)	Ø1.18(30)	Ø2.19(55.5)
ZRS1606	12.09(307)	/	Ø4.53(115)	11.73(298)	4.06(103)	Ø1.18(30)	Ø2.19(55.5)
ZRN2508	12.09(307)	/	Ø4.53(115)	12.91(328)	4.06(103)	Ø1.18(30)	Ø2.19(55.5)
ZRS2508	12.09(307)	/	Ø4.53(115)	12.91(328)	4.06(103)	Ø1.18(30)	Ø2.19(55.5)

Clam Shell Composite Housing

Features

- Designed with patented "Module units assembled in composite clam shell housing" for easy tool service.
- Ergonomic texture coated composite housing for operator's comfort.
- Less friction loss along the air passage to increase tool power & performance.
- Module unit mechanism enables more common parts to be used in similar designed tools.
- Rocker type trigger and both left or right hand side air inlet for ease of operational control.



Patent pending in other countries



R.O.C.PAT.:
M306920/174032



P.R.C.PAT.:
ZL 2006 2 0131894.9



U.S.PAT.:
6,149,356



DEUTSCHLAND PAT.:
Nr.20 2007 007 127.2

Spin-Spin type Rivet Nut Installation Tool

Model number with "Q" means equipped with Quick Change Head.



ZRN106
ZRN106Q w/Quick Change Head
Composite Air Rivet Nut Tool-M6

Optional Nose Assembly			
Size	B-Type (Screw-On)	Q-Type (Quick Change)	Model for other sizes:
M3	P/N: 103800B	P/N: 103800Q	ZRN103 or ZRN103Q
M4	P/N: 104800B	P/N: 104800Q	ZRN104 or ZRN104Q
M5	P/N: 105800B	P/N: 105800Q	ZRN105 or ZRN105Q
M6	P/N: 106800B	P/N: 106800Q	ZRN106 or ZRN106Q
#6-32	P/N: 632800B	P/N: 632800Q	ZRN163 or ZRN163Q
#8-32	P/N: 832800B	P/N: 832800Q	ZRN183 or ZRN183Q
#10-24	P/N: 124800B	P/N: 124800Q	ZRN124 or ZRN124Q
#10-32	P/N: 132800B	P/N: 132800Q	ZRN132 or ZRN132Q
1/4"-20	P/N: 114800B	P/N: 114800Q	ZRN120 or ZRN120Q

Model number with "Q" means equipped with Quick Change Head.



ZRN508
ZRN508Q w/Quick Change Head
Composite Air Rivet Nut Tool-M8

Optional Nose Assembly			
Size	B-Type (Screw-On)	Q-Type (Quick Change)	Model for other sizes:
M6	P/N: 106800B	P/N: 106800Q	ZRN506 or ZRN506Q
M8	P/N: 208800B	P/N: 208800Q	ZRN508 or ZRN508Q
1/4"-20	P/N: 114800B	P/N: 114800Q	ZRN520 or ZRN520Q
5/16"-18	P/N: 516800B	P/N: 516800Q	ZRN518 or ZRN518Q

ZRN210
ZRN212
Composite Air Rivet Nut Tool-M10/M12



Optional Nose Assembly			
Size	B-Type (Screw-On)	Q-Type (Quick Change)	Model for other sizes:
M10	P/N: 210800B	P/N: 210800Q	ZRN210 or ZRN210Q
M12	P/N: 212800B		ZRN212
1/2"-13	P/N: 12C800B		ZRN213
3/8"-16	P/N: 238800B	P/N: 238800Q	ZRN216 or ZRN216Q
3/8"-24	P/N: 38F800B		ZRN224

* There is ONLY one size of rivet head come along with each tool, please specify the model you require when ordering.

Model	Free Speed rpm	Avg. Air Cons. cfm (l/min)	Noise Level db(A)	Vibration m/s ²	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT	Max. Rivet Nut Setting Capacity Round Rivet Nut(mm)
ZRN106	1500	20.3 (580)	86	<2.5	3.06(1.39)	3/8(10)	1/4	M6 Round/Steel
ZRN106Q	1500	20.3 (580)	86	<2.5	2.42(1.10)	3/8(10)	1/4	M6 Round/Steel
ZRN508	500	20.3 (580)	86	<2.5	3.08(1.4)	3/8(10)	1/4	M8 Hex./All Materials
ZRN508Q	500	20.3 (580)	86	<2.5	2.50(1.13)	3/8(10)	1/4	M8 Hex./All Materials
ZRN210	280	20.3 (580)	86	<2.5	3.08(1.4)	3/8(10)	1/4	M10 Hex./All Materials
ZRN212	280	20.3 (580)	86	<2.5	3.08(1.4)	3/8(10)	1/4	M12 Round/Steel

Spin-Spin type Rivet Nut Installation Tool

Features

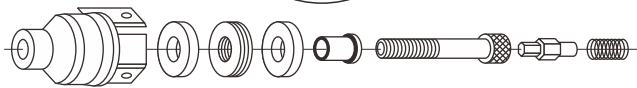
- Powerful Precise Motor.
- Exclusive Quick Reversible Trigger.
- Handle Exhaust.
- Lightweight.
- Smooth, Direct Driver.



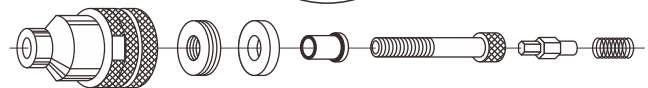
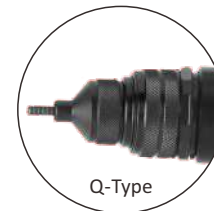
ZRN280 / ZRN500 / ZRN700 0.7HP
Aluminum Housing Air Rivet Nut Tool



ZRN1600 0.7HP
Aluminum Housing Air Rivet Nut Tool



B type Nose Head



Quick Change type Nose Head

Optional Nose Assembly (Metric System)			Optional Nose Assembly (Imperial System)		
Size	B-Type (Screw-On)	Q-Type (Quick Change)	Size	B-Type (Screw-On)	Q-Type (Quick Change)
M3	P/N: 103800B	P/N: 103800Q	#6-32	P/N: 632800B	P/N: 632800Q
M4	P/N: 104800B	P/N: 104800Q	#8-32	P/N: 832800B	P/N: 832800Q
M5	P/N: 105800B	P/N: 105800Q	#10-24	P/N: 124800B	P/N: 124800Q
M6	P/N: 106800B	P/N: 106800Q	#10-32	P/N: 132800B	P/N: 132800Q
M8	P/N: 208800B	P/N: 208800Q	1/4"-20	P/N: 114800B	P/N: 114800Q
M10	P/N: 210800B	P/N: 210800Q	5/16"-18	P/N: 516800B	P/N: 516800Q
			3/8"-16	P/N: 238800B	P/N: 238800Q

* There is ONLY one size of rivet head come along with each tool, please specify the model you require when ordering.

Model	Free Speed rpm	Avg. Air Cons. cu.ft(l/min)	Noise Level db(A)	Vibration m/s ²	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT	Max. Rivet Nut Setting Capacity
ZRN280B ZRN280Q	280	5(141)	86	<2.5	2.87(1.3)	3/8(10)	1/4	M10 Round/Alum.
ZRN500B ZRN500Q	500	5(141)	86	<2.5	2.87(1.3)	3/8(10)	1/4	M6 Hex./All Materials
ZRN700B ZRN700Q	720	5(141)	86	<2.5	2.87(1.3)	3/8(10)	1/4	M5 Round/Alum.
ZRN1600B ZRN1600Q	1700	5(141)	86	<2.5	2.2(1)	3/8(10)	1/4	M4 Round/Steel

Speed Riveter

Features

- Can be used in areas with restricted operator space.
- Available with in-line handle and top or bottom hose configuration - optimized ergonomic performance for improved productivity.
- Average cycle time of less than 2 seconds - increased productivity - up to 1500 fasteners per hour.
- High capacity, magazine fed fasteners - reduced component handling and subsequent spillage.
- Lightweight construction and zero action recoil - reduced operator fatigue.
- Long life, self-priming intensifier - consistent actuation and hence joint formation.
- Long reach barrel - can be used in many difficult access applications.
- Low maintenance hand tool - productive time is maximized - no requirement for specialist maintenance training.
- Robust & durable construction - suitable for most industrial environments.
- Parts interchangeable with Avdel® 07530-02100.



ZT0430
Speed Riveter

This tool is designed for Speed Rivet as Shown on the tables below.

	2.4mm	3.0mm	3.2mm	3.5mm	4.0mm	4.8mm
Speed Rivet	Aluminum, Brass	N/A	N/A	Aluminum, Steel Brass, Stainless	Aluminum, Steel Brass, Stainless	Aluminum, Steel Brass, Stainless
Speed Chovet	Aluminum, Brass	N/A	N/A	Aluminum, Steel	Aluminum, Steel	Aluminum, Steel
Speed Screw	N/A	Steel	Steel	N/A	N/A	N/A

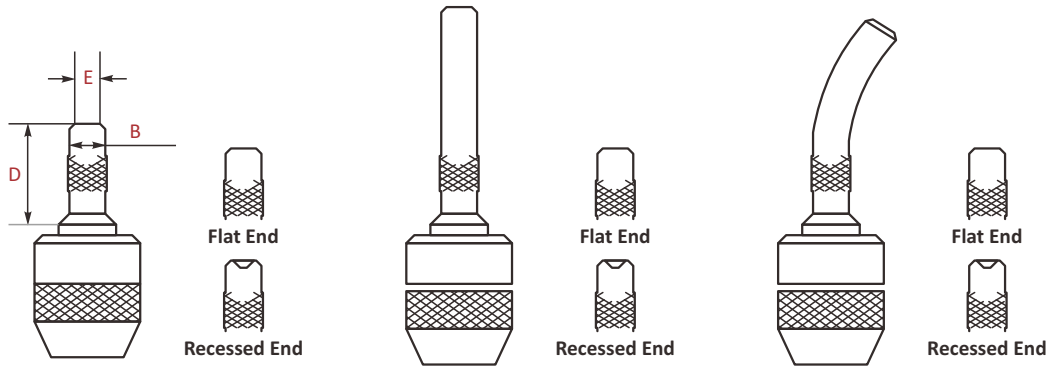
Model	Pull Force lbf(kgf)	Stroke Length inch(mm)	Cycle Time Approximately	Noise Level db(A)	Vibration m/s ²	Net Weight lbs(kgs)	Free Air Volume Required bar(liters)	Air Supply Pressure Minimum/Maximum bar
ZT0430	874(389)	1-3/16(30)	1 second	70	<2.7	2.38(1.08)	5.1(2.6)	5~7

- Overall Length 475mm
- Intensification Ratio: 30:1

Speed Riveter - Front Jaws

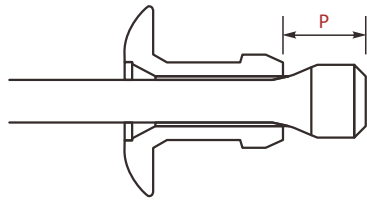
Features

- Our speed rivet has a Bulbed tail. And it is foreshortened and expanded radially during installation.
- Because this bulbed tail will give you high vibration and good hole fill.
- We supply the speed rivet with many different material and finishes.
- So you will have various options according to your needs.
- Speed rivets are podded in a paper pod. So you can install 20 to 70 rivets with one easy loading.



Rivet size	Item#	Size & End form	Dimensions(mm)			M/F Spring
			B	D	E	
2.4	ZNJ-3001	Standard Flat	9.5	33	3.4	Standard
	ZNJ-3002	Standard Recessed	9.5	33	3.4	
3.2	ZNJ-4001	Standard Flat	11.5	30.3	5.5	Standard
	ZNJ-4002	Standard Recessed	11.5	30.3	8.5	
	ZNJ-4003	Long Flat	9.6	59.5	5.5	Long
	ZNJ-4004	Long Recessed	9.6	59.5	8.5	
	ZNJ-4005	Long Curved Flat	9.6	59.5	5.5	
	ZNJ-4006	Long Curved Recessed	9.6	59.5	8.5	
4.0	ZNJ-5001	Standard Flat	12.5	30.3	7.0	Standard
	ZNJ-5002	Standard Recessed	12.5	30.3	10.5	
	ZNJ-5003	Long Flat	12.5	59.5	7.0	Long
	ZNJ-5004	Long Recessed	12.5	59.5	10.5	
	ZNJ-5005	Long Curved Flat	12.5	59.5	7.0	
	ZNJ-5006	Long Curved Recessed	12.5	59.5	10.5	
4.8	ZNJ-6001	Standard Flat	14.5	30.3	10.0	Standard
	ZNJ-6002	Standard Recessed	14.5	30.3	12.5	
	ZNJ-6003	Long Flat	14.5	60.5	10.0	Long
	ZNJ-6004	Long Recessed	14.5	60.5	12.5	
	ZNJ-6005	Long Curved Flat	14.5	60.5	10.0	
	ZNJ-6006	Long Curved Recessed	14.5	60.5	12.5	

Speed Riveter - Mandrels



SPEED RIVET



SPEED CHOVET

MANDRELS FOR SPEED RIVET					
Rivet size	Hole size	Mandrel Item#	Mandrel size	P	M.F Spring #
2.4mm(3/32inch) Aluminum, Brass	2.4(As recommended)	ZM-0183	1.83	3.02	ZS-3001
	2.4+0.1	ZM-0193	1.93	3.12	
	2.4+0.2	ZM-0201	2.01	3.20	
3.2mm(1/8inch) Aluminum, Steel, Brass	3.3(As recommended)	ZM-0234	2.34	3.05	ZS-4001
	3.3+0.13	ZM-0246	2.46	3.20	
	3.3+0.25	ZM-0259	2.59	3.38	
4.0mm(5/32inch) Aluminum, Steel, Brass	4.05(As recommended)	ZM-0279	2.79	3.45	ZS-5001
	4.05+0.13	ZM-0292	2.92	3.61	
	4.05+0.25	ZM-0305	3.05	3.78	
4.8mm(3/16inch) Aluminum, Steel, Brass	4.89(As recommended)	ZM-0358	3.58	3.99	ZS-6001
	4.89+0.13	ZM-0371	3.71	4.17	
	4.89+0.25	ZM-0384	3.84	4.32	
3.2mm(1/8inch) Stainless, Steel	3.3(As recommended)	ZM-S249	2.49	2.95	ZS-4001
	3.3+0.13	ZM-S262	2.62	3.10	
4.0mm(5/32inch) Stainless, Steel	4.05(As recommended)	ZM-S305	3.05	3.20	ZS-5001
	4.05+0.13	ZM-S318	3.18	3.35	
4.8mm(3/16inch) Stainless, Steel	4.89(As recommended)	ZM-S389	3.89	3.81	ZS-6001
	4.89+0.13	ZM-S401	4.01	3.96	
MANDRELS FOR SPEED CHOVET					
2.4mm(3/32inch) Aluminum, Brass	2.4(As recommended)	ZCM-0184	1.84	5.00	ZS-3001
	2.4+0.04	ZCM-0188	1.88	5.00	
	2.4+0.09	ZCM-0193	1.93	5.00	
3.2mm(1/8inch) Aluminum, Steel, Brass	3.3(As recommended)	ZCM-00234	2.34	7.11	ZS-4001
	3.3+0.13	ZCM-00249	2.49	7.11	
	3.3+0.25	ZCM-0259	2.59	7.11	
4.0mm(5/32inch) Aluminum, Steel, Brass	4.05(As recommended)	ZCM-0272	2.72	8.20	ZS-5001
	4.05+0.13	ZCM-0292	2.92	8.20	
	4.05+0.25	ZCM-0310	3.10	8.20	
4.8mm(3/16inch) Aluminum, Steel, Brass	4.89(As recommended)	ZCM-0335	3.35	9.90	ZS-6001
	4.89+0.13	ZCM-0371	3.71	9.30	
	4.89+0.25	ZCM-0396	3.96	9.30	

Depend on the hole size and material of application, you can select suitable mandrel for your application. For the curved front jaws, the mandrels have to be bent by hand to match the curvature of the front jaws. Mandrels for stainless steel speed rivet, they have a "V" cut on the end of the mandrel heads.

Installation Tool Selection Chart

Blind Rivet Installation Tool

Model	Diameter							Model	Diameter						
	3/32 (2.4)	1/8 (3.2)	5/32 (4.0)	3/16 (4.8)	1/4 (6.4)	5/16 (7.8)	3/8 (9.5)		3/32 (2.4)	1/8 (3.2)	5/32 (4.0)	3/16 (4.8)	1/4 (6.4)	5/16 (7.8)	3/8 (9.5)
ZT0318VS	ST/ST	ST/ST	AL/S					ZAR0921	ST/ST	ST/ST	ST/ST	S/S			
ZT0618T	ST/ST	ST/ST	ST/ST	S/S				ZAR0921V	ST/ST	ST/ST	ST/ST	S/S			
ZT0618VS	ST/ST	ST/ST	ST/ST	S/S				ZAR0818	ST/ST	ST/ST	ST/ST	S/S			
ZT0918T	ST/ST	ST/ST	ST/ST	ST/ST				ZAR0818V	ST/ST	ST/ST	ST/ST	S/S			
ZT0918VS	ST/ST	ST/ST	ST/ST	ST/ST				ZIR0922			ST/ST	ST/ST	ST/ST		
ZT0918L	ST/ST	ST/ST	ST/ST	ST/ST				ZT0616	ST/ST	ST/ST	ST/ST				
ZT0918LV	ST/ST	ST/ST	ST/ST	ST/ST				ZT0616V	ST/ST	ST/ST	ST/ST				
ZT1214VS-5			ST/ST	ST/ST				ZPR1016T	ST/ST	ST/ST	ST/ST	S/S			
ZT1214VS-6				ST/ST	S/S			ZPR1116T-3J	ST/ST	ST/ST	ST/ST	ST/ST	ST/ST		
ZT1214T			ST/ST	ST/ST	S/S			ZT1918T	ST/ST	ST/ST	ST/ST	ST/ST	ST/ST		
ZT1214L			ST/ST	ST/ST	S/S			ZRG510	ST/ST	ST/ST	ST/ST	AL/S			
ZT1214LV			ST/ST	ST/ST	S/S			ZRG540	ST/ST	ST/ST	ST/ST	ST/ST	AL/S		
ZT1819T				ST/ST	ST/ST			ZT-1020	ST/ST	ST/ST	ST/ST	ST/ST	AL/S		
ZT1819VS				ST/ST	ST/ST			ZT-1020V	ST/ST	ST/ST	ST/ST	ST/ST	AL/S		
ZT1819L				ST/ST	ST/ST			ZRA-48	ST/ST	ST/ST	ST/ST	S/S			
ZT1819LV				ST/ST	ST/ST			ZARA-48	ST/ST	ST/ST	ST/ST	S/S			
ZT1017VSN-5			ST/ST	ST/ST				ZRA-64		ST/ST	ST/ST	ST/ST	S/S		
ZT1017VSN-6				ST/ST	AL/S			ZT0518S	ST/ST	ST/ST	ST/ST				
ZT0919VS	ST/ST	ST/ST	ST/ST	ST/ST				ZT0920S			ST/ST	ST/ST			
ZT1821VS				ST/ST	ST/ST			ZT1626S				ST/ST	ST/ST		
ZT0520	ST/ST	ST/ST	ST/ST					ZT2420-8S				ST/ST	ST/ST	ST/ST	
ZT0715	ST/ST	ST/ST	ST/ST	S/S				ZT3213						ST/ST	ST/ST
ZT0922	ST/ST	ST/ST	ST/ST	ST/ST				ZT4125S						ST/ST	ST/ST
ZT1218			ST/ST	ST/ST	S/S			ZT0430	Alum.	Stainless Steel	Stainless Steel	Stainless Steel			
ZT1528				ST/ST	ST/ST			AL/AL= Aluminum head / Aluminum mandrel AL/S= Aluminum head / Steel mandrel S/S= Steel head / Steel mandrel S/ST= Steel head / Stainless Steel mandrel ST/ST= Stainless Steel head / Stainless Steel mandrel							
ZT1725				ST/ST	ST/ST										
ZT2021				ST/ST	ST/ST										
ZT2318				ST/ST	ST/ST										
ZT2021-8						ST/ST									
ZT2318-8						ST/ST									

Lock Bolt Installation Tool

Model	Material Lock Bolt	Diameter			
		3/16 (4.8)	1/4 (6.4)	5/16 (7.8)	3/8 (9.5)
ZT2420HSN	aluminum	★	★		
	steel	★	★		
	stainless	★			
ZT2420HS	aluminum	★	★		
	steel	★	★		
	stainless	★			
ZT2420HSK	aluminum	★	★		
	steel	★	★		
	stainless	★			
ZT2318-HA	aluminum	★	★		
	steel	★	★		
	stainless	★			
ZT2318H	aluminum	★	★		
	steel	★	★		
	stainless	★			
ZT2318HK	aluminum	★	★		
	steel	★	★		
	stainless	★			
ZT3213	aluminum			★	★
	steel			★	★
	stainless			★	
ZT4125S	aluminum			★	★
	steel			★	★
	stainless			★	

Blind Bolt Installation Tool

Model	Material Blind Bolt	Diameter			
		3/16 (4.8)	1/4 (6.4)	5/16 (7.8)	3/8 (9.5)
ZT2318B	steel		★		

Rivet Stud Installation Tool

Model	Material Rivet Stud	Diameter							
		M3	M4	M5	M6	M8	M10	M12	
ZRS1606M	aluminum			●	●	●	●		
	steel		●	●	●	●	●*		
	stainless		●	●	●	●	●*		
ZRS2508M	aluminum		●	●	●	●	●		
	steel		●	●	●	●	●		
	stainless		●	●	●	●	●		
ZRS1606E	aluminum		●	●	●	●	●		
	steel		●	●	●	●	●*		
	stainless		●	●	●	●	●*		
ZRS2508E	aluminum		●	●	●	●	●		
	steel		●	●	●	●	●		
	stainless		●	●	●	●	●		

● = Round
 ● = Hex.
 * = need to increase pressure to 100psi

Installation Tool Selection Chart

Rivet Nuts Installation Tool

		Diameter									Diameter						
Model	Material	M3	M4	M5	M6	M8	M10	M12	Model	Material	M3	M4	M5	M6	M8	M10	M12
	Rivet Nut									Rivet Nut							
ZRN1606M	aluminum	▲	●	●	●	●	●	●*	ZRN280	aluminum					●	●	
	steel	▲	●	●	●	●	●	●*		steel					●		
	stainless	▲	●	●	●	●	●	●*		stainless							
ZRN2508M	aluminum	▲	●	●	●	●	●	●	ZRN500	aluminum		●	●	●			
	steel	▲	●	●	●	●	●	●		steel		●	●	●			
	stainless	▲	●	●	●	●	●	●		stainless		●	●	●			
ZRN1811MS	aluminum	▲	●	●	●	●	●	●*	ZRN700	aluminum		●	●				
	steel	▲	●	●	●	●	●	●*		steel		●					
	stainless	▲	●	●	●	●	●	●*		stainless		●					
ZRN1XX	aluminum	●	●	●	●				ZNR4-410D	aluminum	●	●					
	steel	●	●	●	●					steel	●	●					
	stainless	●	●	●						stainless	●						
ZRN5XX	aluminum				●	●			ZRN1600	aluminum		●	●	●	●	●	
	steel				●	●				steel		●	●	●	●		
	stainless				●	●				stainless		●	●	●	●		
ZRN2XX	aluminum						●	●	ZRN1907M	aluminum		●	●	●	●	●	
	steel						●	●		steel		●	●	●	●		
	stainless						●	●		stainless		●	●	●	●		

		Diameter									
Model	Material	#6-32	#8-32	#10-24	#10-32	1/4"-20	5/16"-18	3/8"-16	3/8"-24	1/2"-13	1/2"-20
	Rivet Nut										
ZRN1606E	aluminum	▲	●	●	●	●	●	●	●	●*	●*
	steel	▲	●	●	●	●	●	●	●	●*	●*
	stainless	▲	●	●	●	●	●	●	●	●*	●*
ZRN2508E	aluminum	▲	●	●	●	●	●	●	●	●	●
	steel	▲	●	●	●	●	●	●	●	●	●
	stainless	▲	●	●	●	●	●	●	●	●	●
ZRN1811ES	aluminum	▲	●	●	●	●	●	●	●	●*	●*
	steel	▲	●	●	●	●	●	●	●	●*	●*
	stainless	▲	●	●	●	●	●	●	●	●*	●*
ZRN1XX	aluminum	●	●	●	●	●					
	steel	●	●	●	●	●	●				
	stainless	●	●	●	●						
ZRN5XX	aluminum					●	●				
	steel					●	●				
	stainless					●	●				
ZRN2XX	aluminum							●	●	●	●
	steel							●	●	●	●
	stainless							●	●	●	●
ZRN280	aluminum						●	●			
	steel						●				
	stainless										
ZRN500	aluminum			●	●	●					
	steel			●	●	●					
	stainless			●	●	●					
ZRN700	aluminum		●	●	●						
	steel		●								
	stainless		●								
ZNR4-410DE	aluminum	●	●								
	steel	●	●								
	stainless	●									
ZRN1600	aluminum		●	●	●	●	●	●			
	steel		●	●	●	●	●	●			
	stainless		●	●	●	●	●	●			
ZRN1907E	aluminum		●	●	●	●	●	●	●		
	steel		●	●	●	●	●	●	●		
	stainless		●	●	●	●	●	●			

- = Round
- = Hex.
- ▲ = Optional
- * = need to increase pressure to 100psi

"C" Yoke Riveters

Features

- Specially designed for airplane construction to ensure fast, economical riveting where two-man operation is impractical.
- Features strong, steady, silent squeeze action, which is easily controlled for a large variety of rivets.
- Ideal for dimpling, punching, stamping and pressing. Widely used for truck, bus and automotive applications.
- Extra powerful, portable tandem cylinder also available with double the compressive force for larger riveting capacity.



ZCR030



ZCR060

Model	Rivet Capacity Diameter		Standard Yoke Dimensions		Max Force lb(kN)	Set Holder		Overall Length inch(mm)	Weight With Yoke lbs(kgs)
	Alum	Steel	Reach	Gap		Max Travel	Stroke at Max Power		
ZCR030	1/8(3.2)	3/32(2.4)	1-1/2(38.1)	11/16(17.45)	3000(13.35)	9/16(14.27)	0.05(1.3)	10-1/4(260.35)	4.5(2.04)
ZCR060	3/16(4.8)	5/32(4)	1-1/2(38.1)	11/16(17.45)	6000(26.7)	9/16(14.27)	0.05(1.3)	14(355.6)	5.4(2.49)

Note: Please specify the model no. With CXX you may require while ordering.

CP214 Compatible Yoke

Applications

* C030 series C yoke not recommend for 6K model.



C030C15



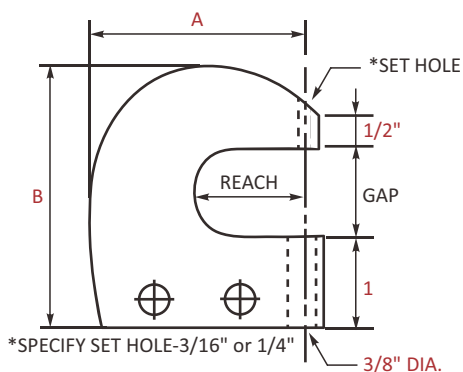
C030C30



C030C40



C030L25 (Longeron Yoke)



Model	Reach inch(mm)	Gap inch(mm)	A inch(mm)	B inch(mm)
C030C15	1.5(38.1)	1.33(33.8)	2.98(75.6)	3.38(86)
C030C30	3(76.2)	1.33(33.8)	4.43(112.6)	3.29(83.6)
C030C40	4(101.6)	1.33(33.8)	5.89(149.5)	3.76(95.4)
C030L25	2.5(63.5)	1.33(33.8)	3.66(93)	3.98(101)

"Alligator" Yoke Riveters

Features

- For squeezing a large variety of size and type of rivets.
- Strong squeeze action is easily controlled to provide uniformity and accuracy of work.
- Ideally used for dimpling, punching and pressing.
- Extra powerful, portable tandem cylinder also available with double the compressive force for large riveting capacity.



ZCR030A15 Single Cylinder



ZCR060A15 Tandem Cylinder



ZCR030A225 Single Cylinder



ZCR060A225 Tandem Cylinder



ZCR030A30 Single Cylinder



ZCR060A30 Tandem Cylinder

Model	Rivet Capacity Diameter		Standard Yoke Dimensions Reach	Max Force lb(kN)	Set Holder		Overall Length inch(mm)	Weight With Yoke lbs(kgs)
	Alum	Steel			Max Travel	Stroke at Max Power		
ZCR030A15	1/8(3.2)	3/32(2.4)	1-1/2(38.1)	3000(13.35)	5/8(15.9)	0.05(1.3)	9-3/16(230)	3.75(1.7)
ZCR030A225	3/32(2.4)	1/16(1.6)	2-1/4(57.1)	2200(9.79)	7/8(22.2)	0.094(2.4)	10-1/4(260)	4.25(1.9)
ZCR030A30	3/32(2.4)	1/16(1.6)	3(76.2)	1800(8)	1-1/4(31.8)	0.05(1.3)	10-3/4(270)	4.5(2.1)
ZCR060A15	3/16(4.8)	5/32(4)	1-1/2(38.1)	6000(26.7)	5/8(15.9)	0.05(1.3)	11-3/16(280)	4.75(2.2)
ZCR060A225	5/32(4.0)	1/8(3.2)	2-1/4(57.1)	4300(19.1)	7/8(22.2)	0.094(2.4)	12-29/32(328)	5.25(2.4)
ZCR060A30	1/8(3.2)	3/32(2.4)	3(76.2)	3400(15.1)	1-1/4(31.8)	0.05(1.3)	13-1/2(340)	5.5(2.5)



A15

A225

A30

Model	Reach inch(mm)	Gap inch(mm)	Closed Height inch(mm)
A15	1.5(38.1)	0.89(22.6)	0.875(22.2)
A225	2.25(57.2)	0.89(22.6)	0.875(22.2)
A30	3(76.2)	0.89(22.6)	0.875(22.2)

Large Cylinder Rivet Squeezer

"Alligator" Yoke Riveters



ZCR351A-278

"Alligator" Yoke Riveters

- Designed for one-man operation to increase productivity where costly two-man riveting was once done. Used in high volume riveting applications.
- Capable of accurately squeezing a large variety of solid, tubular and semi-tubular rivets in aircraft, truck, bus, boat, toy and automotive component applications.
- A tandem cylinder doubles the compressive force of the standard tool, allowing the operator to upset larger size rivets, as well as rivets made of stronger material.
- All models: regulated backhead and short stroke adjustment; CR-1 rivet shank holes. Model 351FCT08 air operated foot pedal control available.

Compression Riveters, "Alligator" Yoke

Model	Rivet Capacity Diameter		Standard Yoke Dimensions Reach	Standard Yoke Dimensions Gap	Standard Yoke Closed Height	Max Force lb(kN)	Set Holder Max Travel	Overall Length inch(mm)	Weight With Yoke lbs(kgs)
	Alum	Steel							
ZCR351A-278	5/32(4)	1/8(3.2)	2-7/8(73)	1-5/8(41.2)	7/8(22)	5200(23.13)	5/8(15.9)	19.5(495)	15.75(7.14)
ZCR351A-5	1/8(3.2)	3/32(2.4)	5(127)	1-5/8(41.2)	7/8(22)	3400(15.12)	1-3/8(35)	21.63(549)	19.75(8.96)
ZCR351A-7	1/8(3.2)	3/32(2.4)	7(177.8)	2(50.8)	1-1/2(38)	3000(13.35)	1-11/16(42.9)	23.63(600)	24.25(11)
ZCR351A-918	1/8(3.2)	3/32(2.4)	9-1/8(231.8)	2-3/16(55.6)	3/4(19)	3000(13.35)	1-11/16(42.9)	25.75(654)	26.25(11.91)

- Shank Dia.: 0.187" ● Inlet Thread: 1/4" ● Rec'd Hose: 3/8" ● Air Cons.: 2.75 cf per stroke

Tandem Compression Riveters, "Alligator" Yoke

Model	Rivet Capacity Diameter		Standard Yoke Dimensions Reach	Standard Yoke Dimensions Gap	Standard Yoke Closed Height	Max Force lb(kN)	Set Holder Max Travel	Overall Length inch(mm)	Weight With Yoke lbs(kgs)
	Alum	Steel							
ZCR351AT-278	1/4(6.4)	3/16(4.8)	2-7/8(73)	1-5/8(41.2)	7/8(22)	10400(46.26)	5/8(15.9)	23.75(603)	18.5(8.39)
ZCR351AT-5	3/16(4.8)	5/32(4)	5(127)	1-5/8(41.2)	7/8(22)	6800(30.25)	1-3/8(35)	25.88(657)	22.5(10.21)
ZCR351AT-7	3/16(4.8)	5/32(4)	7(177.8)	2(50.8)	1-1/2(38)	6000(26.7)	1-11/16(42.9)	27.88(708)	27(12.25)
ZCR351AT-918	3/16(4.8)	5/32(4)	9-1/8(231.8)	2-3/16(55.6)	3/4(19)	6000(26.7)	1-11/16(42.9)	30(762)	29(13.15)

- Shank Dia.: 0.187" ● Inlet Thread: 1/4" ● Rec'd Hose: 3/8" ● Air Cons.: 5.5 cf per stroke

"C" Yoke Riveters



ZCR351C-218

"C" Yoke Riveters

- Lightweight and compact used extensively in electronic chassis, metal furniture, aircraft, automotive component, boat, truck and bus building applications.
- Can also be used for staking, stamping, pressing or crimping service.
- Air inlet swivel aids maneuverability.
- Squeezes uniformly every time trigger is actuated, independent of operator skill.
- Using a compressing tool ensures all joints are of the highest integrity.
- All models: regulated backhead and short stroke adjustment; CR-1 rivet shank holes, CR-2 rivet shank holes available upon request. Model 351FCT08 air operated foot pedal control available.

Compression Riveters, "C" Yoke

Model	Rivet Capacity Diameter		Standard Yoke Dimensions Reach	Standard Yoke Dimensions Gap	Standard Yoke Closed Height	Max Force lb(kN)	Set Holder Max Travel	Overall Length inch(mm)	Weight With Yoke lbs(kgs)
	Alum	Steel							
ZCR351C-218	3/16(4.8)	5/32(4)	2-1/8(54)	1-3/16(30)	25/32(20)	6000(26.7)	9/16(14)	17.5(445)	12.5(5.67)

- Shank Dia.: 0.187" ● Inlet Thread: 1/4" ● Rec'd Hose: 3/8" ● Air Cons.: 2.75 cf per stroke

Tandem Compression Riveters, "C" Yoke

Model	Rivet Capacity Diameter		Standard Yoke Dimensions Reach	Standard Yoke Dimensions Gap	Standard Yoke Closed Height	Max Force lb(kN)	Set Holder Max Travel	Overall Length inch(mm)	Weight With Yoke lbs(kgs)
	Alum	Steel							
ZCR351CT-218	1/4(6.4)	7/32(5.6)	2-1/8(54)	1-3/16(30)	25/32(20)	12000(53.4)	9/16(14)	21.75(552)	15.25(6.92)

- Shank Dia.: 0.187" ● Inlet Thread: 1/4" ● Rec'd Hose: 3/8" ● Air Cons.: 5.5 cf per stroke

Large Cylinder Rivet Squeezer

"C" Yoke Riveters



ZCR351C-RY
Roof Top Rail Riveter

- Designed for installing 3/16" and 1/4" rivets on most tractor roof rails.
- With the low profile C-Yoke it makes for easy installation of rivets in the confined space of upper roof rails on enclosed trailers.
- The rapid rivet upsetting action and return of the riveter reduces job time.
- Requires at least SM210 flush set for the top of yoke and choice of additional cupped rivet set to be inserted in the moving set holder.

Model	Rivet Capacity Diameter Aluminum	Standard Yoke Dimensions Reach	Standard Yoke Dimensions Gap	Max Force lb(kN)	Overall Length inch(mm)	Weight With Yoke lbs(kgs)
ZCR351C-RY	1/4(6.4)	1-7/8(4.8)	1-3/16(30)	6000(26.7)	17.5(445)	12.5(5.67)

- Shank Dia.: 0.187" • Inlet Thread: 1/4" • Rec'd Hose: 3/8" • Air Cons.: 2.75 cf per stroke



ZCR351-PU
Punch Units

- Provides a mobile solution for punching holes ranging from 3/16" to 5/8" diameter in applications where the work piece is too large to be moved in and out of a stationary press.
- This is a rapid acting and portable unit making for a quick job turnaround.
- Model 351FCT08 air operated foot pedal control available.

Model	Max. Material Thickness	Max. Hole Diameter	Max. Reach	Work Clearance	Max Force lb(kN)	Overall Length inch(mm)	Weight With Yoke lbs(kgs)	Avg. Air Consumption
ZCR351C-PU	3/16(4.8)	1/2(12.7)	1-7/8(4.8)	1/2(12.7)	5400(24.02)	20.5(521)	20.5(9.3)	2.75 cf per stroke
ZCR351CT-PU	3/16(4.8)	5/8(16)	1-7/8(4.8)	1/2(12.7)	10800(48.04)	25.75(654)	23.75(10.77)	5.5 cf per stroke

- Inlet Thread: 1/4" • Rec'd Hose: 3/8"



ZCR355C-218
Series "C" Yoke Riveters

- Designed to install a variety of types and sizes of rivets with one-man operation to increase productivity where costly two-man riveting was once done.
- Used in high volume riveting applications.
- Equipped with closed height adjustment so the distance between sets can be quickly and easily adjusted without using rivet set shims.

Model	Rivet Capacity Diameter		Standard Yoke Dimensions Reach	Standard Yoke Dimensions Gap	Standard Yoke Closed Height	Max Force lb(kN)	Set Holder Max Travel	Overall Length inch(mm)	Weight With Yoke lbs(kgs)
	Alum	Steel							
ZCR355C-218	1/4(6.4)	7/32(5.6)	2-1/8(54)	2-5/32(55)	1-1/32(26)	12000(53.4)	7/8(22)	20(508)	21(9.53)
ZCR355C-438	1/4(6.4)	7/32(5.6)	4-3/8(111)	3(76)	1-1/32(26)	12000(53.4)	7/8(22)	22.5(572)	26(11.79)

- Shank Dia.: 0.25" • Inlet Thread: 1/4" • Rec'd Hose: 3/8" • Air Cons.: 2.75 cf per stroke



Pneudraulic C -Yoke & Alligator Squeezers

Features

- High quality industrial grade compression rivet squeezers, for the installation of solid rivets.
- Compact size and lighter in weight compare to current pneumatic squeezers on the market.
- CONSTANT FORCE over the entire stroke range.
- Built from high quality aircraft grade materials and features held to close tolerances, for years of dependable operation.
- The reduction in weight and constant force decreases operator fatigue, and improves the quality of every riveting work.



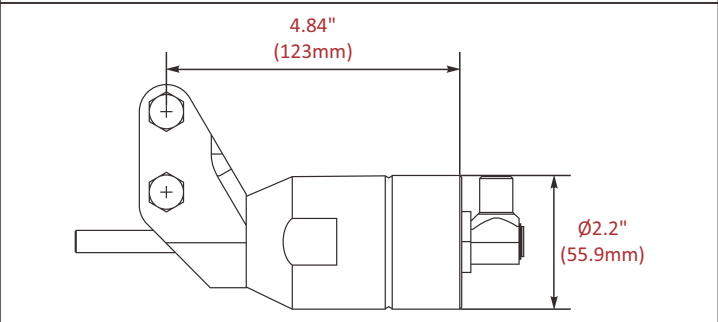
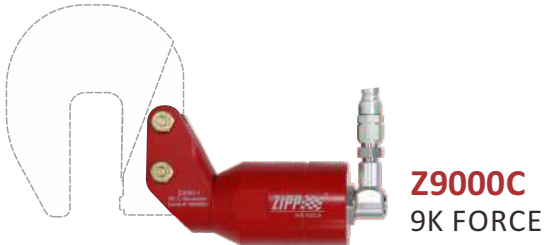
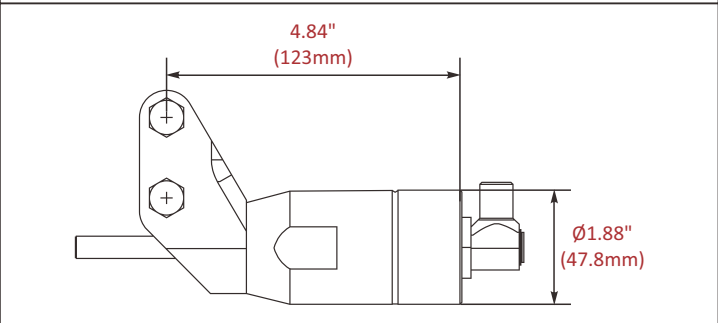
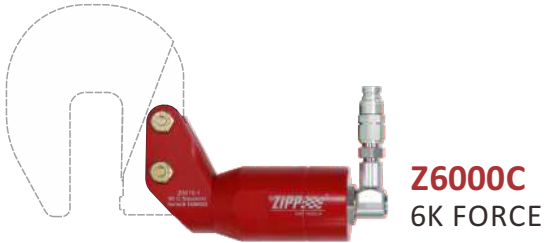
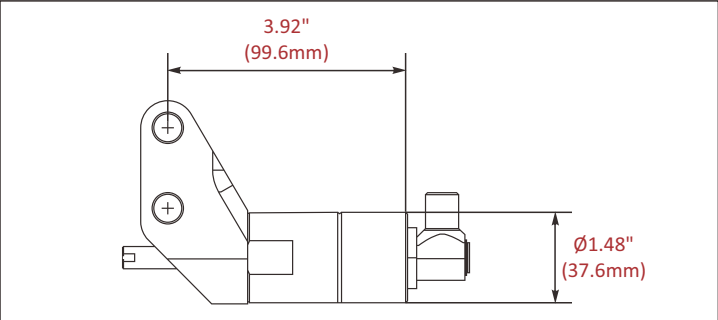
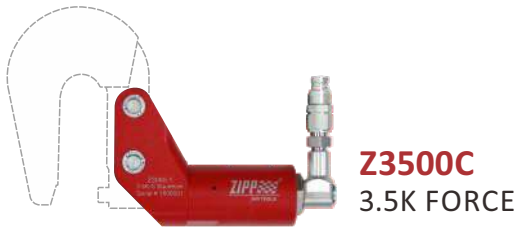
Commercial users of these Squeezers include:

AIRBUS
ALCOA
BARNES AEROSPACE
BEECHCRAFT
BOEING AIRCRAFT
CANADA NATIONAL DEFENCE
DELTA AIRLINES
GE AIRCRAFT ENGINES
HONDA AIRCRAFT
KOREAN AEROSPACE
LODE KING INDUSTRIES

MUSCO SPORTS LIGHTING
NORTHROP GRUMMAN
ORENDA AEROSPACE
ROLLS ROYCE - UK
ROLLS ROYCE - US
SCHILLING ROBOTICS
SPIRIT AEROSYSTEMS
UTC AEROSPACE SYSTEMS
U.S. ARMY
U.S AIR FORCE
Evergreen Aviation Precision Corp. (EGAP)



Pneudraulic C -Yoke Squeezers



ZIPP squeezer is 50% smaller
ZIPP squeezer is 50% lighter
ZIPP squeezer is quieter in operation



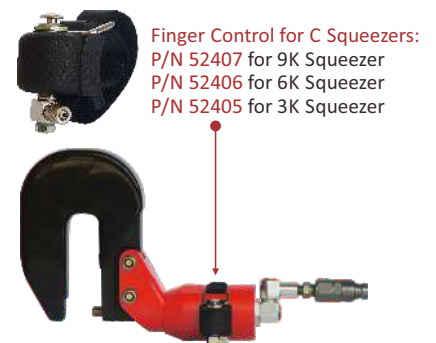
Model	Rivet Capacity Diameter		Fluid Disp Required in ³ (cc)	Force At Normal Hyd Pressure lbf(kN)	Hydraulic Pressure		Rivet Set (compression Pin) Travel inch(mm)	Weight (w/o Yoke) lbs(kgs)
	Alum	Steel			Normal psi(MPa)	MAX psi(MPa)		
Z3500C	5/32(4)	1/8(3.2)	0.55(9)	3480(15.5)	3500(24.1)	4500(31)	0.55(14)	1.25(0.56)
Z6000C	3/16(4.8)	5/32(4)	0.97(15.9)	6185(27.5)	3500(24.1)	4500(31)	0.55(14)	1.72(0.78)
Z9000C	1/4(6.4)	3/16(4.8)	0.32(21.6)	8420(37.4)	3500(24.1)	4500(31)	0.55(14)	2.6(1.17)

• All C-Squeezers accept industry standard CP-214 yokes. • All Squeezers accept rivet dies with 3/16(0.187") shanks.

Model Nomenclature when ordering the complete C yoke Squeezer System:



K = The system includes Alligator Squeezer, Intensifier, 3m Hyd. Hose set, Hyd. Quick Couplers & Foot or Finger control module.
 C = Intensifier on Transport Cart
 * All the C yokes are sold separately *



CP214 Compatible Yoke



C030C08



C030C09



C030C13



C030C14



C030C15



C030C30



C030C40



C030L25



Z3028-1



Z3028-2



Z3028-3



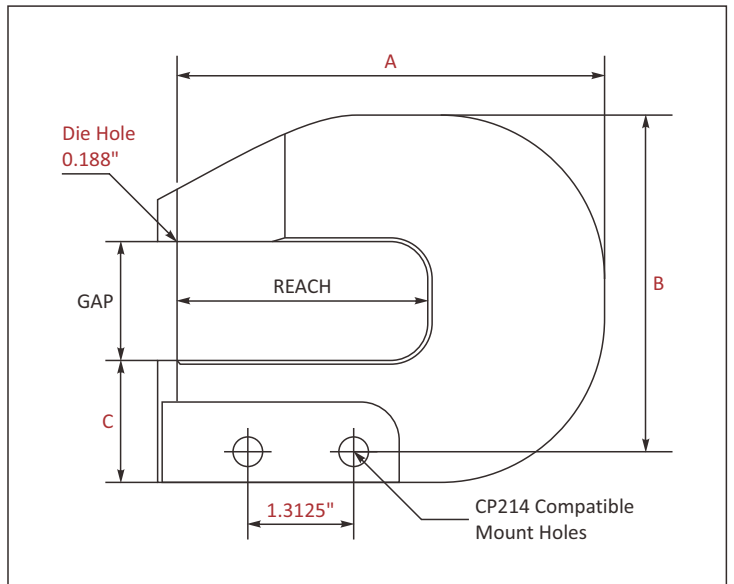
Z3028-4



Z3028-5



Z3028-6



Model	Reach	Gap	"A"	"B"	"C"	Thickness
C030C08	0.78"	1.1"	2.72"	2.16"	1.12"	0.57"
C030C09	0.9"	1.02"	3.27"	2.69"	1.12"	0.75"
C030C13	1.33"	1.41"	2.72"	2.87"	1.4"	0.57"
C030C14	1.4"	1.02"	3.73"	3.02"	1.4"	0.75"
C030C15	1.5"	1.25"	2.98"	3.39"	1.12"	0.57"
C030C30	3"	1.25"	4.44"	3.29"	1.12"	0.57"
C030C40	4"	1.25"	5.89"	3.76"	1.12"	0.83"
C030L25	2.5"	1.25"	3.67"	3.98"	1.12"	0.57"
Z3028-1	1.32"	1.5"	3.23"	3.72"	1.4"	1"
Z3028-2	2.07"	1.5"	4.23"	4.22"	1.4"	1"
Z3028-3	3.07"	1.5"	5.23"	4.22"	1.4"	1"
Z3028-4	4.07"	1.5"	6.35"	4.22"	1.4"	1"
Z3028-5	1.49"	1.92"	3.46"	5.68"	1.12"	1.18"
Z3028-6	3.53"	3.93"	6.77"	7.09"	1.5"	1.38"

*Please confirm the dimension of die holder when ordering.




Pneudraulic Alligator Squeezers




Z5000A
10" Alligator Squeezer

Z7000A
8" Alligator Squeezer

Z9000A
6" Alligator Squeezer



ZIPP squeezer is 50% smaller
ZIPP squeezer is 50% lighter
ZIPP squeezer is quieter in operation





Model	Rivet Capacity Diameter		Force lbf(kN)	Reach inch(mm)	Jaw Tip Gap closed inch(mm)	Jaw Tip Gap open inch(mm)	Jaw Tip Gap extended inch(mm)	Net Weight lbs(kgs)
	Alum	Steel						
Z9000A	1/4(6.4)	3/16(4.8)	10100(44.9)	6(152.4)	1.38(35.1)	2.05(52.1)	2.81(71.4)	13.8(6.26)
Z7000A	1/4(6.4)	3/16(4.8)	7862(34.9)	8(203.2)	1.38(35.1)	2.25(57.2)	3.23(82)	15.7(7.12)
Z5000A	3/16(4.8)	5/32(4)	6416(28.5)	10(254)	1.38(35.1)	2.45(62.2)	3.65(92.7)	18.3(8.3)

- Alligator tip gaps are without dies installed.
- All Squeezers accept rivet dies with 3/16(0.187") shanks.

Model Nomenclature when ordering the complete Alligator Squeezer System:

5000A = 10" Alligator Squeezer
7000A = 8" Alligator Squeezer
9000A = 6" Alligator Squeezer

T = Finger Control
F = Guarded Foot Pedal Control



K = The system includes Alligator Squeezer, Intensifier, 3m Hyd. Hose set, Hyd. Quick Couplers & Foot or Finger control module.
C = Intensifier on Transport Cart



Features

- The ZIPP Pneudraulic Intensifier is designed to operate devices requiring a small volumetric output of high pressure fluid. The unit is a "one shot" intensifier, meaning it will fully displace the hydraulic fluid with one stroke of the air piston in the cylinder. These types of intensifiers tend to be faster than pumping type air operated intensifiers of similar size. These models also allows for "feathering" of the riveter (subtle positioning of the squeezer rivet set), when controlled by a foot or finger operated valve.
- Optional electrical module. upgrade are available upon request.
- Portable intensifier instead of high cost hydraulic power unit.
- Low operating hydraulic pressure design for more durable hydraulic sealing mechanism.
- Custom design are welcome.
- Before using these Intensifier, please fully read and understand the operation manual.



ZPI-11016T

Trigger type, Pneudraulic Intensifier - 16cc

ZPI-11016F

Foot Pedal type, Pneudraulic Intensifier - 16cc



ZPI-12063T

Trigger type,
Pneudraulic Intensifier - 63cc

ZPI-12063F

Foot Pedal type,
Pneudraulic Intensifier - 63cc



ZPI-12063TC

ZPI-12063FC

Pneudraulic Intensifier
Cart-63cc





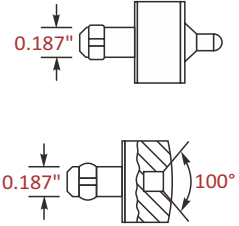


ZPI-15047

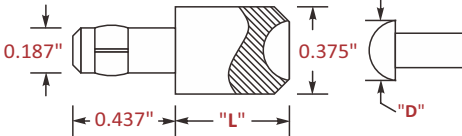
Pneudraulic Intensifier
-47cc

Model	Max. Inlet Air Pressure psi(kg/cm ²)	Max. Output Hydraulic Pressure psi(kg/cm ²)	Delivered Hyd. Fluid Volume CC	Suitable For
ZPI-11016T ZPI-11016F	90(6.3)	5062(354)	16	Z3500C
ZPI-12063T ZPI-12063F	90(6.3)	4978(350)	63	Z6000C, Z9000C & All Alligator Squeezers
ZPI-12063TC ZPI-12063FC	90(6.3)	4978(350)	63	Z6000C, Z9000C & All Alligator Squeezers
ZPI-15047	90(6.3)	4267(300)	47	3/8" Split type Pneudraulic Installation Tools

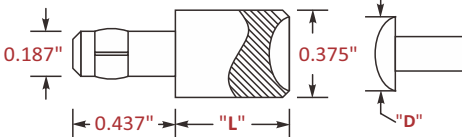
DIMPLE PUNCH & DIE SET

					
RS426-3	RS426-4	RS426-5	RS509-4	RS509-5	
3/32"	1/8"	5/32"	#6	#8	

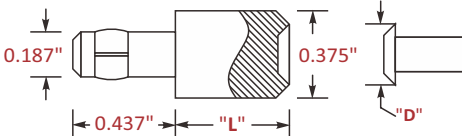
ROUND HEAD

 <p style="text-align: center;">RS-1000</p>	Rivet Head Diameter							
	RS-1000		RS-2000		RS-2100			
"D" 0.187"(4.75mm)		"D" 0.250"(6.35mm)		"D" 0.219"(5.57mm)		"D" 0.273"(6.94mm)		
NO.	L	NO.	L	NO.	L	NO.	L	
-1X	1/8(3.2mm)	-8X	1/8(3.2mm)	-01X	1/8(3.2mm)	-01XA	1/8(3.2mm)	
-1	1/4(6.4mm)	-8	1/4(6.4mm)	-01	1/4(6.4mm)			
-2	3/8(9.5mm)	-9	3/8(9.5mm)	-02	3/8(9.5mm)			
-3	1/2(12.7mm)	-10	1/2(12.7mm)	-03	1/2(12.7mm)			
		-11	5/8(15.9mm)					
		-12	3/4(19mm)					

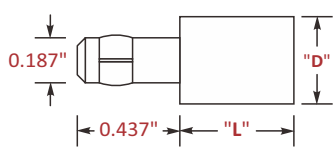
BRAZIER HEAD

 <p style="text-align: center;">RS-1001</p>	Rivet Head Diameter					
	RS-1001			RS-2001		
"D" 0.312"(7.93mm)			"D" 0.312"(7.93mm)		"D" 0.391"(9.94mm)	
NO.	L	NO.	L	NO.	L	
-8X	1/8(3.2mm)	-8X	1/8(3.2mm)	-15X	1/8(3.2mm)	
-8	1/4(6.4mm)	-8	1/4(6.4mm)	-15	1/4(6.4mm)	
-9	3/8(9.5mm)	-9	3/8(9.5mm)	-16	3/8(9.5mm)	
-10	1/2(12.7mm)	-10	1/2(12.7mm)	-17	1/2(12.7mm)	
-11	5/8(15.9mm)	-11	5/8(15.9mm)			
-12	3/4(19mm)	-12	3/4(19mm)			
-13	7/8(22.2mm)	-14	1(25.4mm)			
-14	1(25.4mm)					

UNIVERSAL HEAD

 <p style="text-align: center;">RS-1002</p>	Rivet Head Diameter									
	RS-1002					RS-2002				
"D" 0.187"(4.75mm)		"D" 0.25"(6.35mm)			"D" 0.187"(4.75mm)		"D" 0.25"(6.35mm)		"D" 0.312"(7.93mm)	
NO.	L	NO.	L	NO.	L	NO.	L	NO.	L	
-1X	1/8(3.2mm)	-8X	1/8(3.2mm)	-1X	1/8(3.2mm)	-8X	1/8(3.2mm)	-15X	1/8(3.2mm)	
-1	1/4(6.4mm)	-8	1/4(6.4mm)	-1	1/4(6.4mm)	-8	1/4(6.4mm)	-15	1/4(6.4mm)	
-2	3/8(9.5mm)	-9	3/8(9.5mm)	-2	3/8(9.5mm)	-9	3/8(9.5mm)	-16	3/8(9.5mm)	
-3	1/2(12.7mm)	-10	1/2(12.7mm)	-3	1/2(12.7mm)	-10	1/2(12.7mm)	-17	1/2(12.7mm)	
-4	5/8(15.9mm)	-11	5/8(15.9mm)	-4	5/8(15.9mm)	-11	5/8(15.9mm)	-18	5/8(15.9mm)	
-5	3/4(19mm)	-12	3/4(19mm)	-5	3/4(19mm)	-12	3/4(19mm)	-19	3/4(19mm)	
-6	7/8(22.2mm)	-13	7/8(22.2mm)	-6	7/8(22.2mm)	-13	7/8(22.2mm)	-20	7/8(22.2mm)	
-7	1(25.4mm)			-7	1(25.4mm)	-14	1(25.4mm)	-21	1(25.4mm)	

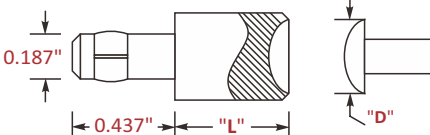
FLUSH STYLE



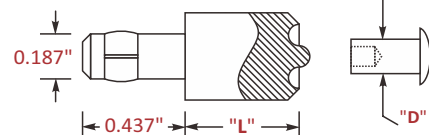
Rivet Head Diameter			
RS-2003			
"D" 0.5"(12.7mm)			
NO.	L	NO.	L
-16	1/8(3.2mm)	-24	5/8(15.9mm)
-18	1/4(6.4mm)	-26	3/4(19mm)
-20	3/8(9.5mm)	-28	7/8(22.2mm)
-22	1/2(12.7mm)		

OVAL/TRUSS HEAD

TUBULAR RIVETS



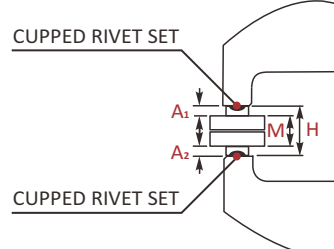
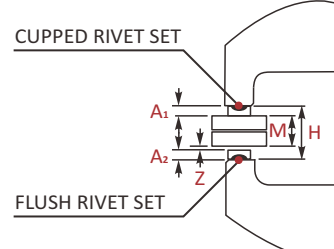
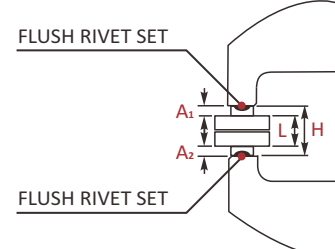
Rivet Head Diameter	
RS-2005	
"D" 0.187"(4.75mm)	
NO.	L
-24	1/2(12.7mm)



Rivet Head Diameter	
RS-2004	
"D" 0.375"(9.53mm)	
NO.	L
-23	3/8(9.5mm)

Choose of rivet dies

How to select the correct length of rivet die sets

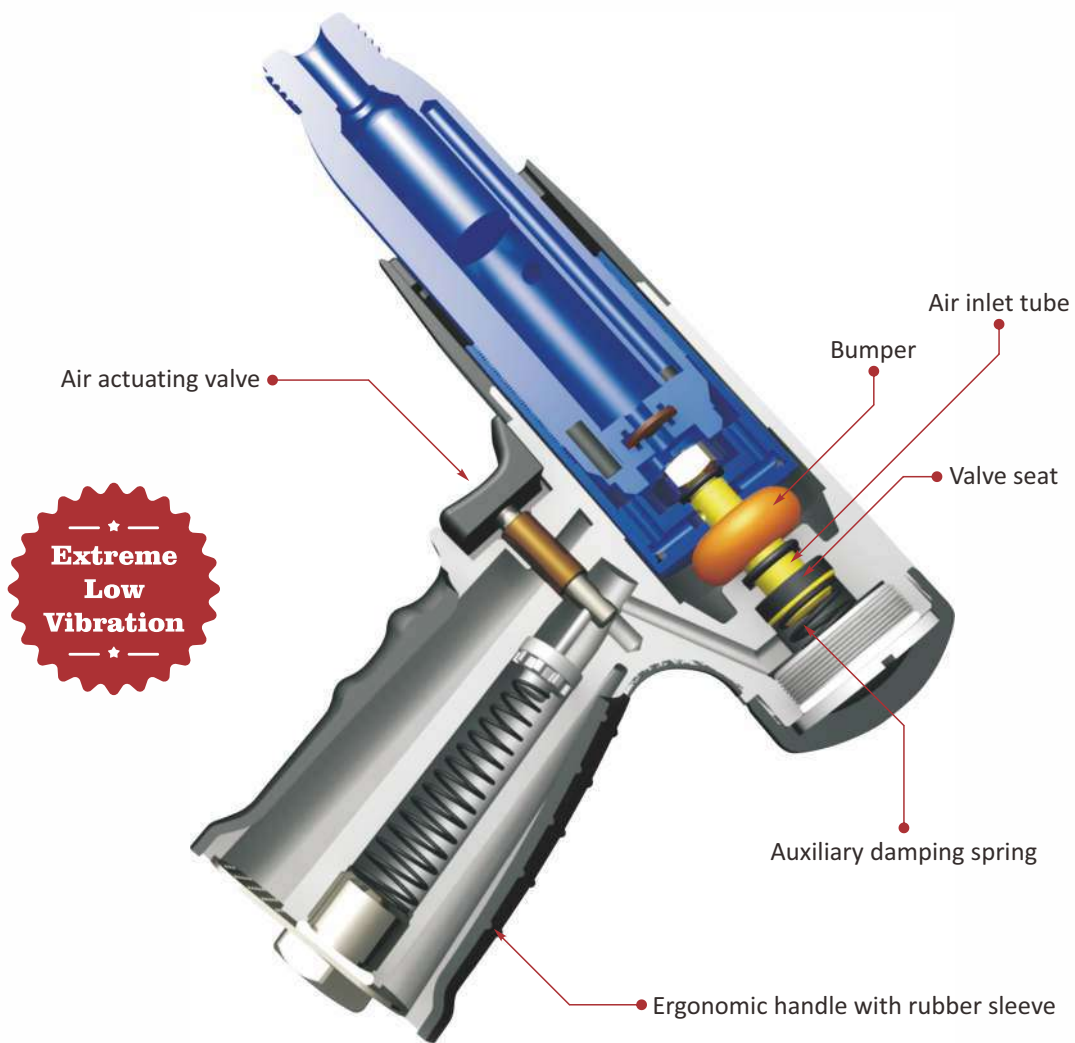
 <p>A₁-A₂ = H-M</p>	 <p>A₁-A₂ = H-M-Z</p>	 <p>A₁-A₂ = H-L</p>
<p>When two cupped rivet sets are used: The length of the body dimensions of the rivet sets (A₁, A₂) should equal the closed height dimension of the yoke H minus the total thickness of material being riveted together.</p>	<p>When one cupped set and one flush set are used: The length of the body dimensions of the rivet sets (A₁, A₂) should equal the closed height dimension of the yoke H minus the total thickness of material being riveted (M) and the height of the finished rivet head (Z) compressed by the flush set (A).</p>	<p>When two flush sets are used: The length of the body dimensions of the rivet sets (A₁, A₂) should equal the closed height dimension of the yoke H minus the overall length of the rivet (L) after it is compressed.</p>

Rivet Squeezing Force Reference Chart of Different Materials & Diameters

BODY DIAMETER	MATERIAL	FORCE Lbf	FORCE KN	RIVET STYLE	BODY DIAMETER	MATERIAL	FORCE Lbf	FORCE KN	RIVET STYLE
3/32" (2.4 MM)	2017-T4	2,000	9	"D" RIVET	5/32" (4.0 MM)	A-286	14,200	63	
	2024-T4	1,600	7	"DD" RIVET		MONEL	6,000	27	
	2117-T4	1,500	7	"AD" RIVET		TITANIUM	14,500	64	
	A-286	7,500	33		3/16" (4.8 MM)	2017-T4	4,800	21	"D" RIVET
	MONEL	2,500	11			2024-T4	4,800	21	"DD" RIVET
	TITANIUM	6,000	27			2117-T4	4,000	18	"AD" RIVET
1/8" (3.2 MM)	2017-T4	2,400	11	"D" RIVET	A-286	19,700	88		
	2024-T4	2,000	9	"DD" RIVET	MONEL	10,250	46		
	2117-T4	1,900	8	"AD" RIVET	TITANIUM	19,800	88		
	A-286	9,600	43		1/4" (6.4 MM)	2017-T4	9,000	40	"D" RIVET
	MONEL	4,400	20			2024-T4	10,600	47	"DD" RIVET
	TITANIUM	9,200	41			2117-T4	8,500	38	"AD" RIVET
5/32" (4.0 MM)	2017-T4	3,500	16	"D" RIVET	A-286	31,600	141		
	2024-T4	3,500	16	"DD" RIVET	MONEL	17,500	78		
	2117-T4	2,900	13	"AD" RIVET	TITANIUM	35,200	157		

Features

- Designed with following patents for assuring the best shock reduction and operator's comfort.
 - 1) Portable pneumatic tool **assembled with module units**.
 - 2) **Suspension vibration-reducing** means for portable pneumatic tools.
- Alloy steel made impact parts, heat-treated for durability.
- Quick Change Retainer for simple accessory changes.
- **Ergonomic handle with rubber** made exhaust muffler for added operator's comfort.
- Optional patented universal swivel air inlet joint for the best maneuverability of the tool.



Patent pending in other countries



R.O.C.PAT.:
174,032/184,745



U.S.A.PAT.:
6,149,356/5,615,746



P.R.C.PAT.:
ZL 00 2 53627.7

**Extreme
Low
Vibration**

Shock Reduced Air Hammer

ZAH-392-Round
ZAH-392H-Hex.



ZAH-393-Round
ZAH-393H-Hex.



ZAH-394-Round
ZAH-394H-Hex.



ZAH-592-Round
ZAH-592H-Hex.



ZAH-593-Round
ZAH-593H-Hex.



ZAH-594-Round
ZAH-594H-Hex.



<p>ZAH-392K ZAH-392HK ZAH-592K ZAH-592HK</p> 	<p>ZAH-393K ZAH-393HK ZAH-593K ZAH-593HK</p> 	<p>ZAH-394K ZAH-394HK ZAH-594K ZAH-594HK</p> 	<p>Accessories</p> <ul style="list-style-type: none"> ● Shock Reduced Air Hammer X 1 ● 192913 Retainer Spring ● CH641RL 7" Single End Cutter X 1 ● CH645RL 7" Cut Off Chisel X 1 ● CH649RL 7" Rivet Cutter Chisel X 1 ● CH672RL 7" Special Panel Cutter X 1 ● CH627RL 7" Shear Chisel X 1
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*ZAH-393H, ZAH-593H, ZAH394H, ZAH594H chisel shank size are 0.410"(10.4mm) Hex. shank.



ZNS-392
Shock Reduced
Needle Scaler



ZCH-394B
Shock Reduced
Construction Air Hammer

<p>Needle Scaler Attachment</p>  <p>CA2321 *No. of Needles: 19 pcs</p>	 <p>ZCH-394BK</p>	<p>Accessories</p> <ul style="list-style-type: none"> ● Shock Reduced Air Hammer X1 ● 294903 Retainer Spring ● CA132910 7" Moil Point Chisel  <p>294903 CA132910</p>
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Model	Chisel Shank Opening inch(mm)	Bore Diameter inch(mm)	Stroke Length inch(mm)	Blow Per Minute bpm	Avg. Air Cons. cfm(l/min)	Vibration m/s ²	Net Weight lbs(kgs)	Min. Hose Size inch(mm)
ZAH-392(H)	0.401(10.2)/0.410(10.4)	3/4(19)	1-31/32(50)	4000	15.2(430)	2.5	3.4(1.5)	3/8(10)
ZAH-393(H)	0.401(10.2)/0.410(10.4)	3/4(19)	2-5/8(66)	3000	4.95(140)	10	4(1.8)	3/8(10)
ZAH-394(H)	0.401(10.2)/0.410(10.4)	3/4(19)	3-1/2(89)	2100	5.65(160)	5.5	4.6(2.1)	3/8(10)
ZAH-592(H)	0.401(10.2)/0.410(10.4)	3/4(19)	1-31/32(50)	4000	15.2(430)	2.5	3.4(1.5)	3/8(10)
ZAH-593(H)	0.401(10.2)/0.410(10.4)	3/4(19)	2-5/8(66)	3000	4.95(140)	10	4(1.8)	3/8(10)
ZAH-594(H)	0.401(10.2)/0.410(10.4)	3/4(19)	3-1/2(89)	2100	5.65(160)	5.5	4.6(2.1)	3/8(10)
ZNS-392(H)	0.401(10.2)/0.410(10.4)	3/4(19)	1-31/32(50)	4000	15.2(430)	2.5	3.4(1.5)	3/8(10)
ZCH-394B(H)	0.401(10.2)/0.410(10.4)	3/4(19)	3-1/2(89)	2100	6(170)	5.3	4.6(2.1)	3/8(10)

● Operating Air Pressure: 90psi/6.2bar ● Air Inlet Size: 1/4" NPT/PT

Shock Reduced Air Hammer

Features

- Designed with following patents for assuring the best shock reduction and operator's comfort.
 - 1) Portable pneumatic tool **assembled with module units**.
 - 2) **Suspension vibration-reducing** means for portable pneumatic tools.
- Alloy steel made impact parts, heat-treated for durability.
- Quick Change Retainer for simple accessory changes.
- **Ergonomic handle with rubber** made exhaust muffler for added operator's comfort.
- Optional patented universal swivel air inlet joint for the best maneuverability of the tool.



ZAH-393S / ZAH-394S
Shock Reduced Air Hammer
With Special Chassis Chisel Sets

Accessories

CA193901

CA193902

CA193903

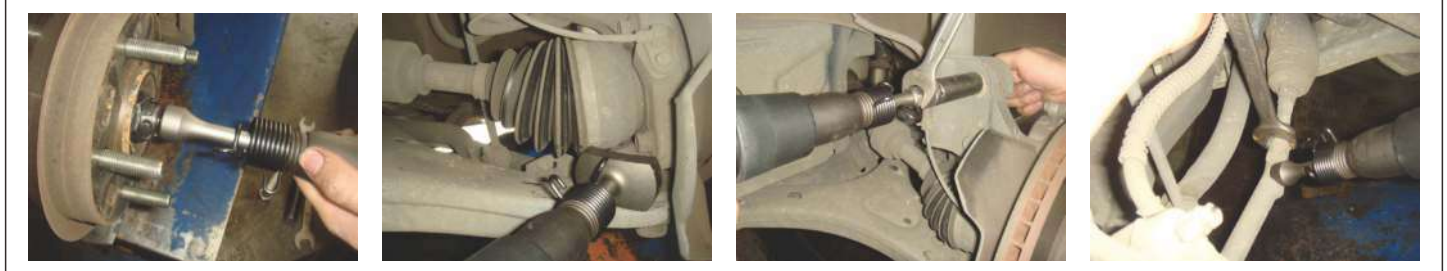
CA193904

CA193909

Optional

CA193910

CA193911



Model	Chisel Shank Opening inch(mm)	Bore Diameter inch(mm)	Stroke Length inch(mm)	Blow Per Minute bpm	Avg. Air Cons. cfm(l/min)	Vibration m/s ²	Net Weight lbs(kgs)	Min. Hose Size inch(mm)
ZAH-393S	0.401(10.2)	3/4(19)	2-5/8(66)	3000	4.95(140)	10	4(1.8)	3/8(10)
ZAH-394S	0.401(10.2)	3/4(19)	3-1/2(89)	2100	5.65(160)	5.5	4.6(2.1)	3/8(10)

- Operating Air Pressure: 90psi/6.2bar
- Air Inlet Size: 1/4" NPT/PT

Air Riveting Hammer



ZRH-131P
1X Air Riveting Hammer
-Pistol



ZRH-132P(TC)
ZRH-132PAP(TC)
2X Air Riveting Hammer
-Pistol



ZRH-133P(TC)
ZRH-133PAP(TC)
3X Air Riveting Hammer
-Pistol



ZRH-134P(TC)
ZRH-134PAP(TC)
4X Air Riveting Hammer
-Pistol



ZRH-131S
1X Air Riveting Hammer
-Straight



ZRH-132S(TC)
2X Air Riveting Hammer
-Straight



ZRH-133S(TC)
3X Air Riveting Hammer
-Straight



ZRH-134S(TC)
4X Air Riveting Hammer
-Straight



Tungsten Carbide (TC)
piston
provides more powerful blows



ZRH-195P
5X Air Riveting Hammer
-Pistol



ZRH-197P
7X Air Riveting Hammer
-Pistol



ZRH-199P
9X Air Riveting Hammer
-Pistol

Use for aero space & general automotive industries, etc.

Model	Chisel Shank Opening inch(mm)	Bore Diameter inch(mm)	Stroke Length inch(mm)	Blow Per Minute bpm	Avg. Air Cons. cfm(l/min)	Max. Rivet Diameter Capacity		Joule	Overall Length inch(mm)	Net Weight lbs(kgs)
						Steel inch(mm)	Alum. inch(mm)			
ZRH-131P	0.401(10.2)	9/16(14.3)	1-3/8(35)	2850	6.4(180)	1/8(3.2)	5/32(4)	2.61	4.49(115)	2.3(1.0)
ZRH-132P(TC)	0.401(10.2)	1/2(12.7)	2-1/4(57.2)	2580	7.8(221)	3/32(2.4)	1/8(3.2)	3.37	6.63(170)	2.7(1.2)
ZRH-133P(TC)	0.401(10.2)	1/2(12.7)	2-7/8(73)	2160	7.78(220)	5/32(4)	3/16(4.8)	4.27	7.25(186)	2.9(1.3)
ZRH-134P(TC)	0.401(10.2)	1/2(12.7)	3-1/16(77.8)	1740	7.78(220)	3/16(4.8)	1/4(6.4)	4.30	8.22(211)	3.1(1.4)
ZRH-132PAP(TC)	0.401(10.2)	9/16(14.3)	2-1/4(57.2)	2580	5.7(160)	3/32(2.4)	1/8(3.2)	5.46	6.63(170)	2.7(1.2)
ZRH-133PAP(TC)	0.401(10.2)	9/16(14.3)	2-7/8(73)	2160	4.9(140)	5/32(4)	3/16(4.8)	4.59	7.25(186)	2.9(1.3)
ZRH-134PAP(TC)	0.401(10.2)	9/16(14.3)	3-1/16(77.8)	1740	6.4(180)	3/16(4.8)	1/4(6.4)	5.81	8.22(211)	3.1(1.4)
ZRH-131S	0.401(10.2)	9/16(14.3)	1-3/8(35)	2850	6.4(180)	1/8(3.2)	5/32(4)	2.61	6.3(160)	1.9(0.86)
ZRH-132S(TC)	0.401(10.2)	1/2(12.7)	2-1/4(57.2)	2580	6(170)	3/32(2.4)	1/8(3.2)	3.37	8.39(215)	2.4(1.06)
ZRH-133S(TC)	0.401(10.2)	1/2(12.7)	2-7/8(73)	2160	6(170)	5/32(4)	3/16(4.8)	4.27	9(231)	2.6(1.16)
ZRH-134S(TC)	0.401(10.2)	1/2(12.7)	3-1/16(77.8)	1740	6.4(180)	3/16(4.8)	1/4(6.4)	4.30	9.98(256)	2.8(1.27)
ZRH-195P	0.498(12.6)	3/4(19.1)	2-11/16(68.3)	1560	7.78(220)	3/16(4.8)	1/4(6.4)	9.03	8.97(230)	4.6(2.1)
ZRH-197P	0.498(12.6)	3/4(19.1)	5-13/16(147.6)	900	9.19(260)	5/16(8)	3/8(9.5)	19.51	11.07(284)	5.5(2.5)
ZRH-199P	0.498(12.6)	3/4(19.1)	3-7/8(98.4)	1140	7.78(220)	1/4(6.4)	5/16(8)	13.01	9.98(256)	5(2.3)

● Operating Air Pressure: 90psi/6.2bar ● Min. Hose Size: 3/8(10)inch(mm) ● Air Inlet Size: 1/4" NPT/PT

Shock Reduced Riveting Hammer / Bucking Bar

Features

- The new ZRH riveting hammer is designed to minimize the vibration while maintaining high tool performance. Vibration is reduced by an effective air cushion behind the hammer piston.
- Parts are interchangeable with RRH series.
- Streamline profile & adjustable power.
- Equipped with universal swivel air inlet joint for the best maneuverability.



ZRH-04
Shock Reduced
Air Riveting Hammer



ZRH-06
Shock Reduced
Air Riveting Hammer



ZRH-08
Shock Reduced
Air Riveting Hammer

Use for aero space & general automotive industries, etc.

Model	Chisel Shank Opening inch(mm)	Bore Diameter inch(mm)	Piston Stroke inch(mm)	bpm	Air Consumption cfm	Max. Rivet Diameter Capacity		Overall Length inch(mm)	Vibration m/s ²	Weight lbs(kgs)
						Steel inch(mm)	Alum. inch(mm)			
ZRH-04	0.401(10.2)	0.6(15.24)	1.57(40)	3960	6	3/21~5/32(1~4)	3/32~3/16(2~5)	7.1(180)	2.5	2.2(1)
ZRH-06	0.401(10.2)	0.6(15.24)	4.02(102)	2160	19	1/8~1/4(3~6)	5/32~1/4(4~7)	8.9(225)	3.9	2.9(1.33)
ZRH-08	0.401(10.2)	0.6(15.24)	5.39(137)	1440	21	5/32~1/4(4~7)	3/16~5/16(5~8)	11(280)	4.8	2.9(1.33)

- Air Inlet Size: 1/4" NPT/PT
- Air Hose (I.D): 9.5(10)inch(mm)

Features

- An efficient riveting system consists of shock reduced bucking bar with shock reduced riveting hammers.
- Self-adjustable - SP models use a spring as shock reducing element and consequently do not require the air supply.
- Flexible - The bucking bars can fitted with serval different interchangeable dolly configurations via a quick change retainer for maximum flexibility.



ZBB10SP
Shock Reduced
Bucking Bars



ZBB16SP
Shock Reduced
Bucking Bars

Model	Diameter inch(mm)	Net Weight lbs(kgs)
ZBB10SP	2.0(48)	2.4(1.1)
ZBB16SP	2.0(48)	3.7(1.7)

Features

- Designed with following patents for assuring the best shock reduction and operator's comfort.
 - 1) Portable pneumatic tool **assembled with module units.**
 - 2) **Suspension vibration-reducing** means for portable pneumatic tools.
- Alloy steel made impact parts, heat-treated for durability.
- Spool valve allows slow heavy blows needed to drive rivets.
- **Ergonomic handle with rubber** made exhaust muffler for added operator's comfort.
- Optional patented universal swivel air inlet joint for the best maneuverability of the tool.



Patent pending in other countries



R.O.C.PAT.:
174,032/184,745



U.S.A.PAT.:
6,149,356/5,615,746



P.R.C.PAT.:
ZL 00 2 53627.7

Shock Reduced Air Riveting Hammer

NEW
PRODUCT

Tungsten Carbide (TC) piston provides more powerful blows

Shock Reduced



Low Vibration

ZRH-132N(TC)
ZRH-132NP(TC)
2X Shock Reduced
Air Riveting Hammer



Low Vibration

ZRH-133N(TC)
ZRH-133NP(TC)
3X Shock Reduced
Air Riveting Hammer



Low Vibration

ZRH-134N(TC)
ZRH-134NP(TC)
4X Shock Reduced
Air Riveting Hammer

Features

- Patented Shock Reduced Mechanism.
 - Low vibration design to prevent operator's injury after long time use.
 - Ergonomic handle with rubber made exhaust muffler for added operator's comfort.
 - Optional patented Universal Swivel Air Inlet Joint for the best maneuverability of the tool.
- Use for aero space & general automotive industries, etc.

ZRH-132N(TC)K / ZRH-132NP(TC)K
ZRH-133N(TC)K / ZRH-133NP(TC)K
ZRH-134N(TC)K / ZRH-134NP(TC)K

- CA132901 X1
- CA132902 X1
- CA132903 X1
- CA132904 X1
- CA132905 X1
- 192902 Retainer Spring X1

Model	Chisel Shank Opening inch(mm)	Bore Diameter inch(mm)	Stroke Length inch(mm)	Blow Per Minute bpm	Avg. Air Cons. cfm(l/min)	Max. Rivet Diameter Capacity		Net Weight lbs(kgs)
						Steel inch(mm)	Alum. inch(mm)	
ZRH-132N(TC)	0.401(10.2)	1/2(12.7)	2-1/4(57.2)	2580	6.71(190)	3/32(2.4)	1/8(3.2)	2.9(1.3)
ZRH-132NP(TC)	0.401(10.2)	9/16(14.3)	2-1/4(57.2)	2580	6.71(190)	3/32(2.4)	1/8(3.2)	2.9(1.3)
ZRH-133N(TC)	0.401(10.2)	1/2(12.7)	2-7/8(73)	2164	7.42(210)	5/32(4)	3/16(4.8)	2.9(1.3)
ZRH-133NP(TC)	0.401(10.2)	9/16(14.3)	2-7/8(73)	2164	7.42(210)	5/32(4)	3/16(4.8)	2.9(1.3)
ZRH-134N(TC)	0.401(10.2)	1/2(12.7)	3-1/16(77.8)	1740	7.42(210)	3/16(4.8)	1/4(6.4)	3.7(1.7)
ZRH-134NP(TC)	0.401(10.2)	9/16(14.3)	3-1/16(77.8)	1740	7.42(210)	3/16(4.8)	1/4(6.4)	3.7(1.7)

- Vibration: 6m/s² ● Operating Air Pressure: 90psi/6.2bar ● Air Inlet Size: 1/4"NPT/PT

Patent pending in other countries



R.O.C.PAT.:
184,745



U.S.A.PAT.NO.:
5,533,579



P.R.C.PAT.:
ZL 00 2 53627.7

**For ZRH-131P
ZRH-131PA, ZRH-131S**

- Chisel Shank: 10.2mm(0.401")
- Material SCM440 Alloy
- Hardness: 48~51°



131901



**For ZRH-132P, ZRH-132PAP, ZRH-132S
ZRH-133P, ZRH-133PAP, ZRH-133S
ZRH-134P, ZRH-134PAP, ZRH-134S
ZRH-132N, ZRH-133N, ZRH-134N**

- Chisel Shank: 10.2mm(0.401")
- Material SCM440 Alloy
- Hardness: 48~51°



192902



Optional

192903



132914



For ZRH-195P, ZRH-197P, ZRH-199P

- Chisel Shank: 12.6mm(0.498")
- Material SCM440 Alloy
- Hardness: 48~51°

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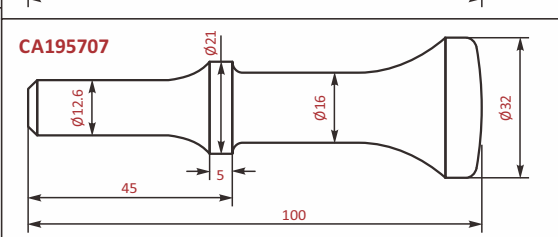
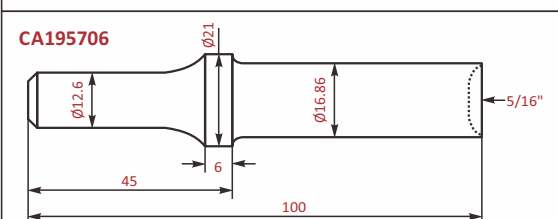
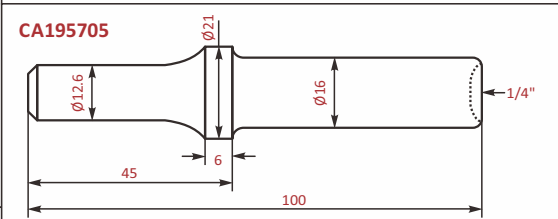
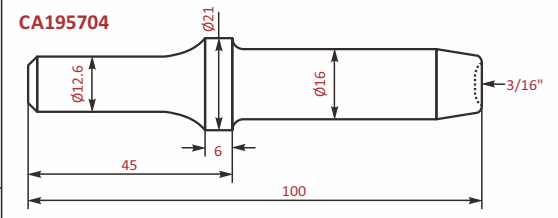
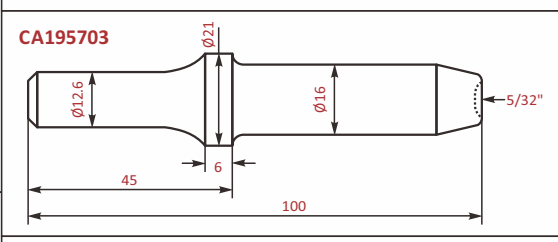
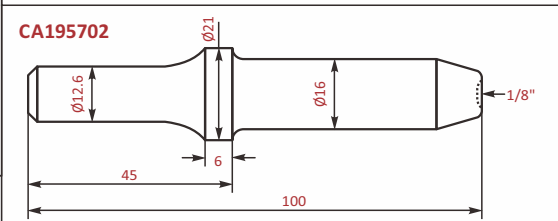
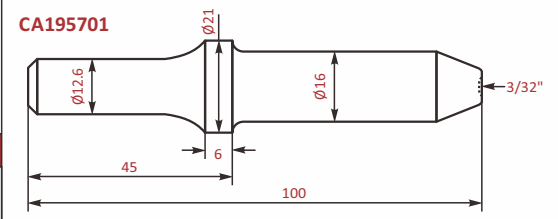
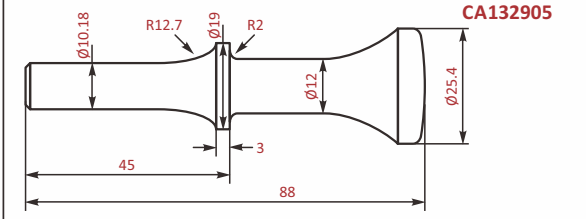
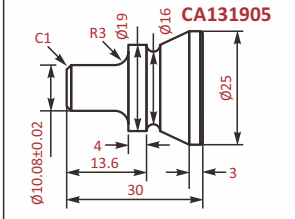
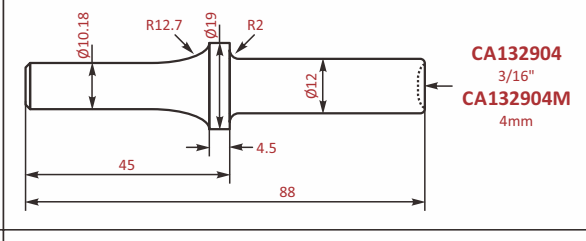
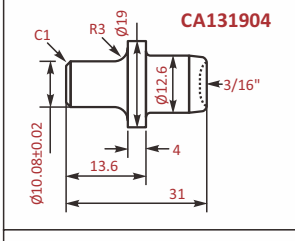
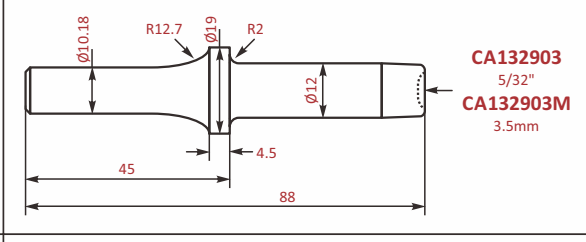
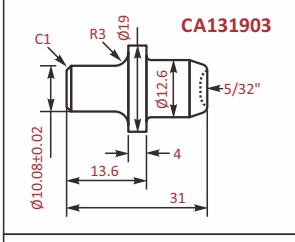
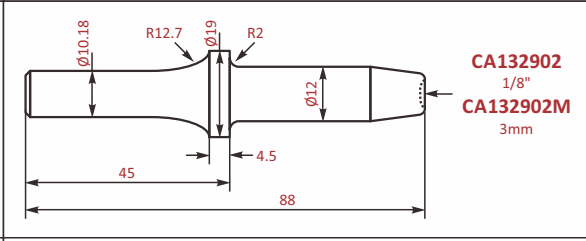
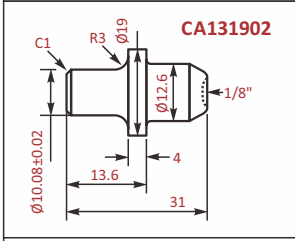
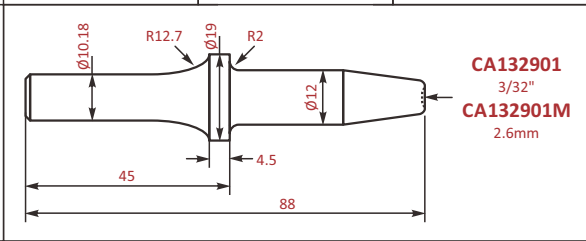
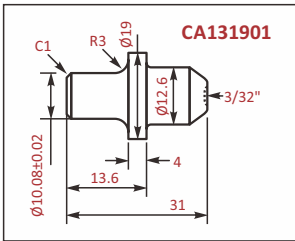


Optional

195903



195914



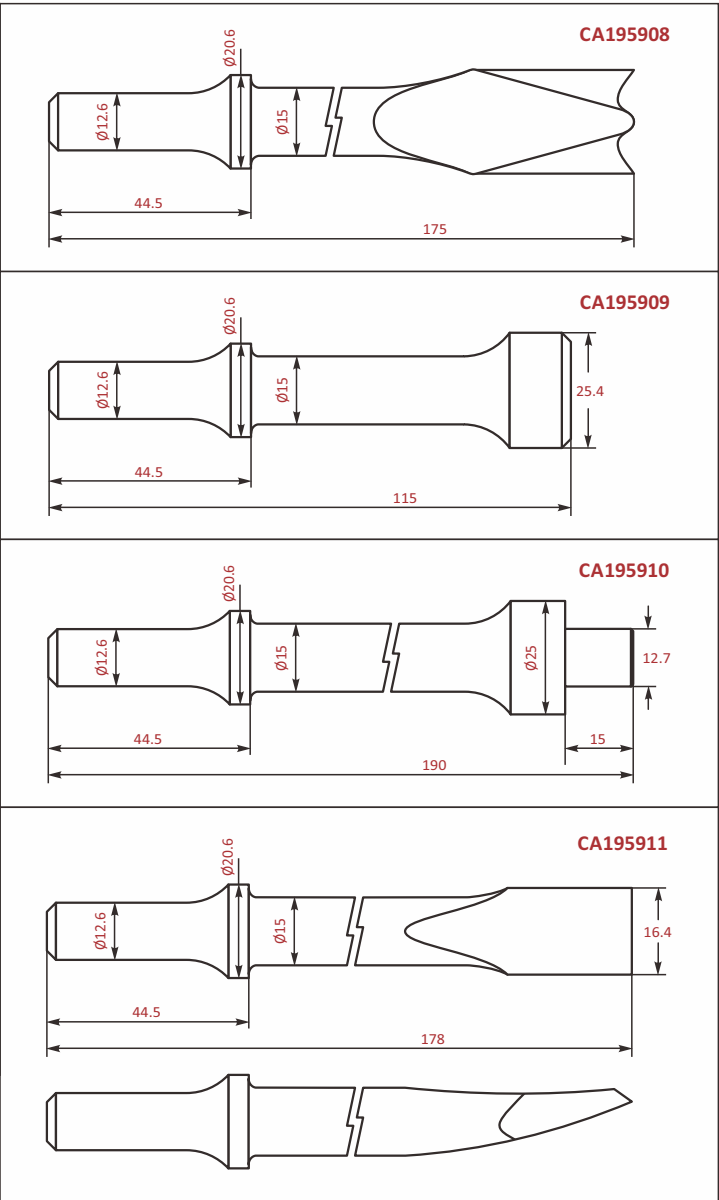
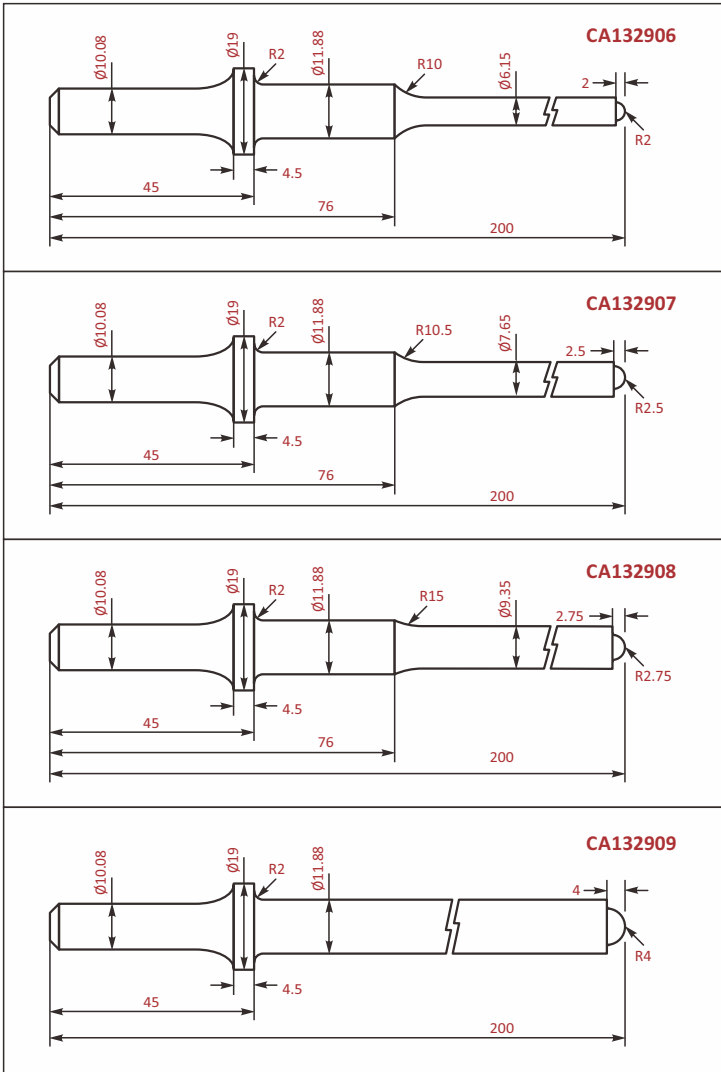
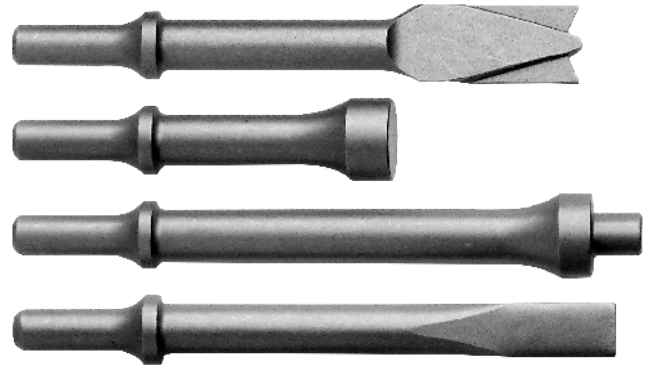
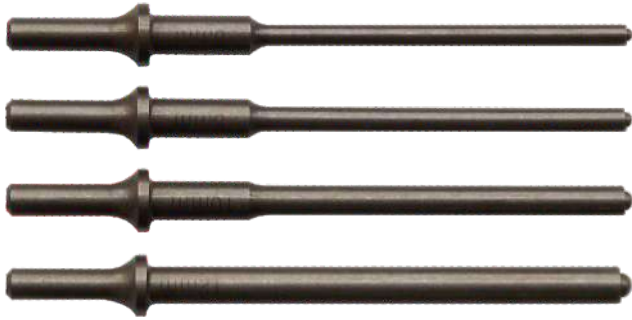
Rivet Chisels / Retainers

**For ZRH-132P, ZRH-132PAP, ZRH-132S
 ZRH-133P, ZRH-133PAP, ZRH-133S
 ZRH-134P, ZRH-134PAP, ZRH-134S
 ZRH-132N, ZRH-133N, ZRH-134N**

For ZRH-195P, ZRH-197P, ZRH-199P

- Chisel Shank: 10.2mm(0.401")
- Hardness: 48~51°
- Material SCM440 Alloy

- Chisel Shank: 12.6mm(0.498")
- Hardness: 48~51°
- Material SCM440 Alloy



Features

- Designed with following patents to assure extreme low vibration and operator's comfort.
 - 1) Portable pneumatic tool assembled with module units in clam shell composite housing.
 - 2) Suspension vibration-reducing means for portable pneumatic tools.
- Engineering plastic made clam-shell housing designed for easy service.
- Patented universal swivel air inlet joint for the best maneuverability of the tool.
- Safety trigger to prevent accidental start ups and provide operator's comfort.
- Rear exhaust directs air away from work-piece.



Patent pending in other countries



R.O.C.PAT.:
174,032/184,745



U.S.A.PAT.:
6,149,356/5,615,746



P.R.C.PAT.:
ZL 00 2 53627.7

Vibration Reduced Air Body Saw / Air Pipe Saw



10mm stroke

ZS311
Metal Housing

ZS311K



Kit include:
 ● Bi-metal blades
 18T X 5
 24T X 5
 32T X 5



25mm stroke

ZS317
Metal Housing

ZS317K



Kit include:
 ● Bi-metal blades
 18T X 5
 24T X 5



10mm stroke

ZS319
Clam-Shell Composite Housing

ZS319K



Kit include:
 ● Bi-metal blades
 18T X 5
 24T X 5
 32T X 5



25mm stroke

ZS329
Clam-Shell Composite Housing

ZS329K



Kit include:
 ● Bi-metal blades
 18T X 5
 24T X 5



10mm stroke

ZS319H
Clam-Shell Composite Housing

ZS319HK



Kit include:
 ● Bi-metal blades
 18T X 5
 24T X 5
 32T X 5



25mm stroke

ZS329H
Clam-Shell Composite Housing

ZS329HK



Kit include:
 ● Bi-metal blades
 18T X 5
 24T X 5

*10mm stroke models are good for 3mm steel sheet cutting.
 *25mm stroke models are good for 5mm up to 10mm steel sheet or pipe cutting.

Model	Blow Per Minute bpm	Stroke Length mm	Avg. Air Cons. cfm(l/min)	Noise Level db(A)	Vibration m/s ²	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZS311	9500	10	3.5(100)	85	1.8	1.5(0.7)	3/8(10)	1/4
ZS317	5000	25	3(90)	85	3.9	2.1(0.96)	3/8(10)	1/4
ZS319	9500	10	3(90)	85	3.7	1.12(0.51)	3/8(10)	1/4
ZS329	5000	25	2.8(80)	85	4.3	1.68(0.76)	3/8(10)	1/4
ZS319H	9500	10	3.5(100)	85	3.7	1.12(0.51)	3/8(10)	1/4
ZS329H	5000	25	3.5(100)	85	4.3	1.68(0.76)	3/8(10)	1/4

● Operating Air Pressure: 90psi/6.2bar

Vibration Reduced Air Body Saw

**Extreme
Low
Vibration**



ZS319-T2B
Vibration Reduced Air Body Saw
Clam-Shell Composite Housing



ZS317M
Vibration Reduced Mini Air Body Saw
Metal Housing

ZS317MK

Kit include:
● Bi-metal blades
14T X 5
18T X 5
24T X 5



ZS311M
Vibration Reduced Mini Air Body Saw
Metal Housing

ZS311MK

Kit include:
● Bi-metal blades
18T X 5
24T X 5
32T X 5



ZS312M
Vibration Reduced Mini Air Body Saw
Metal Housing

ZS312MK

Kit include:
● Bi-metal blades
18T X 5
24T X 5
32T X 5

Model	Blow Per Minute bpm	Stroke Length mm	Avg. Air Cons. cfm(l/min)	Noise Level db(A)	Vibration m/s ²	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZS319-T2B	9500	10	3(90)	85	3.7	1.17(0.53)	3/8(10)	1/4
ZS311M	10000	10	7.6(215)	80.4	4.3	1.0(0.45)	3/8(10)	1/4
ZS312M	10000	10	7.6(215)	80.4	4.3	1.0(0.45)	3/8(10)	1/4
ZS317M	5800	20	6.9(195)	81.5	8.4	1.17(0.53)	3/8(10)	1/4

● Operating Air Pressure: 90psi/6.2bar

Vibration Reduced Pneumatic Roofing Cutter

- Designed to assure extreme low vibration for operator's comfort.
- Portable pneumatic tool assembled with module units in clam shell composite housing.
- Engineering plastic made clam-shell housing designed for easy service.
- Universal swivel air inlet joint for the best maneuverability of the tool.
- Blades offer efficient and fast cutting in cold weather to reduce down time.
- These blades cut through a variety of material including shingles, roofing paper, and asphalt roll roofing, etc.
- Blades offer seamless cutting of straight edges provides more efficient to the applications.
- Can be used on ANY ZIPP vibration reduced air saws for the best performance.





ZRC-311
Metal Housing



ZRC-319
Composite Housing



3.5" Hook Roofing
Cutter Blade Kit

ZRC-311K	ZRC-319K
	
<p>Kit include:</p> <ul style="list-style-type: none"> ● Bi-metal blades 18T X 5 24T X 5 32T X 5 ● 3.5" cutting blade X3 	<p>Kit include:</p> <ul style="list-style-type: none"> ● Bi-metal blades 18T X 5 24T X 5 32T X 5 ● 3.5" cutting blade X3

Accessories	
314990-3	3 pcs
314990-5	5 pcs
314990-10	10 pcs

Each cutter includes 3 pcs 3.5Hook Roofing Cutter Blades

Model	Blow Per Minute bpm	Stroke Length mm	Avg. Air Cons. cfm(l/min)	Noise Level db(A)	Vibration m/s ²	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZRC-311	9500	10	3.5(100)	85	1.8	1.5(0.7)	3/8(10)	1/4
ZRC-319	9500	10	3.5(100)	85	3.7	1.12(0.51)	3/8(10)	1/4

● Operating Air Pressure: 90psi/6.2bar

Vibration Reduced Industrial Air Saw

Applications

The most powerful Industrial Air Saw for clean, burr-free cuts with standard hacksaw blades in serving a wide range of industries and emergency services where reliability and durability are really matter such as Petrochemicals, Oil Rigs, Power Stations, Public Transport Facilities, Coal Mines, Fire Brigades, Airways & Airport Facilities, Railway, Garages, Car Manufacturers, Commercial Vehicle Builders, Boat Building, Reinforced Fiberglass, Shipyard use, Ministry of Defense-Army, Navy, Air Force, etc.

Capacity Features

- Excellent sawing work of various materials, trims or shapes sheet metal, plastics, plates, fiberglass, plywood, or cut pipe, rod, bar in any place.
- Available anywhere in ship, in oil tank, in mining tunnel, in construction site, in plant, in water, for rescue work, in car accident, etc.
- Most versatile maintenance tool-used throughout industry.
- Clean and burr-free cuts with standard hacksaw blades.
- Adaptable for cutting a variety of materials with proper saw blades.
- Ideal for sustained usage and suitable for the most awkward places.
- Used throughout fiberglass boat building and car body repair shop industries.
- Powerful enough to easily and quickly cut through steel-flexible enough to enough to efficiently and accurately cut in even the most awkward place.

Construction Features

- Designed with a patented vibration reduced mechanism to ensure the lowest vibration and most operator comfort.
- Few moving parts means breakdowns are virtually eliminated-ensuring total reliability and long trouble-free service.
- Safety Switch-essential for when changing blades.
- Quiet in operation-enables you to use it anywhere.
- Electro-chemical treated bores giving long-wearing quality.
- Slim, compact and lightweight design for easy portability.
- Blade and work piece cooled by exhausted air and oil.
- Special alloy steel made Nosepiece ensures the highest level of durability.
- Automatic and visible lubrication.
- Extremely low air consumption. Operates on normal compressed air supply.
- Safe to use in non-flame areas.
- 45MM stroke length and ability to accept short pieces of blades making it ideal for cutting in confined spaces and "Double skin" panels.



Cutting Capacity			
Pipe Material	Steel	Steel	Steel
Wall Thickness	2.4mm	3.5mm	5mm
Pipe O.D.	22mm	34mm	80mm
Saw Blade	14T.P.I Bacho Blades		
Cut Off Time(sec.)	9	21	470
Test under same condition as:			
1) 90psi air pressure.			
2) 5kg standard load weight on the tool while testing.			

Accessories



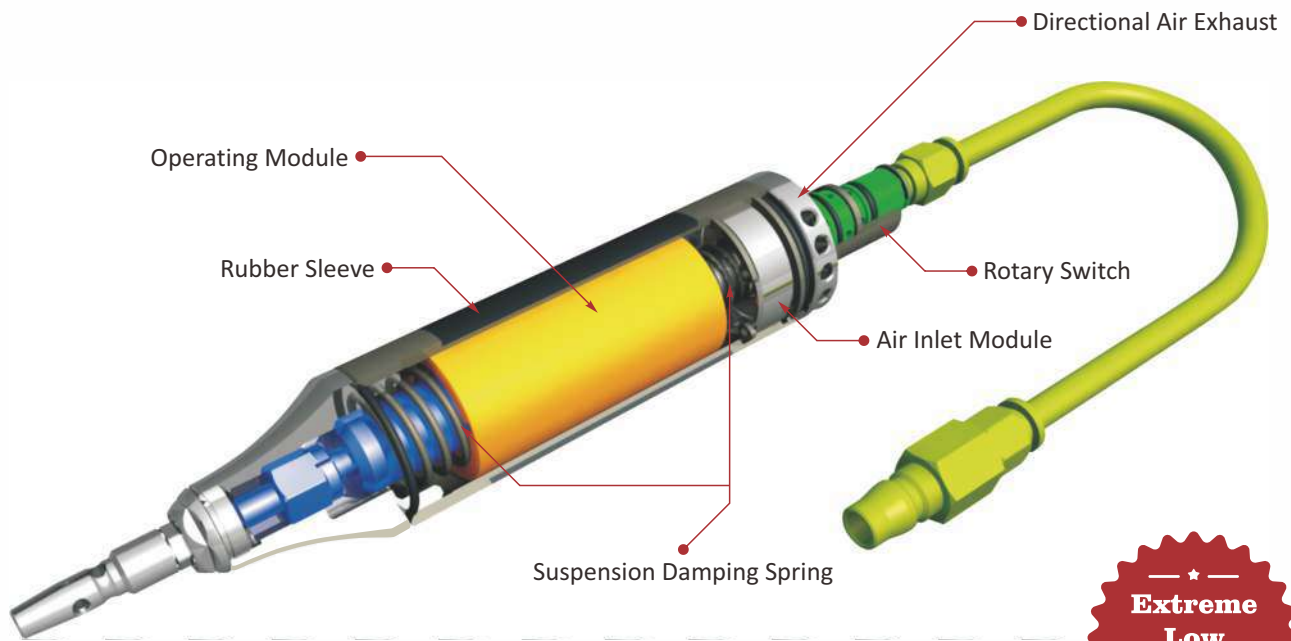
- Patented Universal Swivel Joint X 1
- Carrying Box X 1
- Oiler Pot X 1
- Each of 300mm 14TPI & 8/12TPI Bi-Metal BAHCO Saw Blades (1/2" W x 12" L x 0.025" T) X 1
- 3mm Hex Wrench X 1
- Hand Grip X 1

Model	Blow Per Minute bpm	Stroke Length mm	Avg. Air Cons. cfm(l/min)	Noise Level db(A)	Vibration m/s ²	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZS350D	1200	45	4.6(130)	85	5	6.17(2.8)	3/8(10)	1/4

● Operating Air Pressure: 90psi/6.2bar

Features

- High frequency with 1mm, 5mm & 10mm strokes for various kind of surface finishing works such as precise and delicate lapping of die & mold surface, finishing in confined area and general filing works.
- Designed with following patents to ensure extreme low vibration and operator's comfort.
 - Portable Pneumatic Tool assembled with module units.
 - Suspension Vibration-Reducing means for portable pneumatic tools.
- Throttle type flexible hose equipped for the best maneuverability of the tool.
- Adjustable side exhaust directs air away from operators.
- Rubber sleeve designed for operator's comfort.



Patent pending in other countries



R.O.C.PAT.:
174,032/184,745



U.S.A.PAT.:
6,149,356/5,615,746



P.R.C.PAT.:
ZL 00 2 53627.7

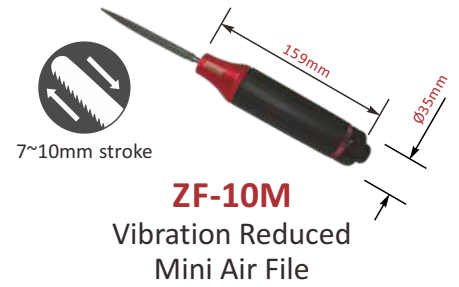
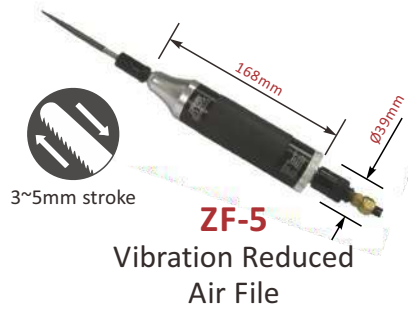
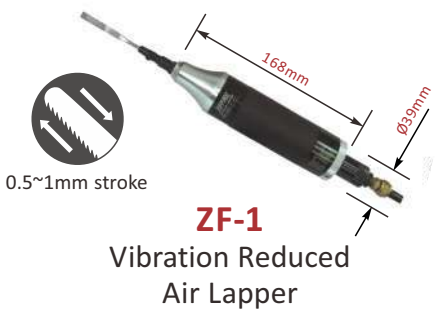


All rotary type Switch can be converted to safety lever type Switch upon request.

Vibration Reduced Air Lapper / Air File

Features

- Ideal for precise and delicate filing castings, also perfect for lapping die and mold surface.
- High frequency with 0.5~1mm stroke for ZF-1, ZF-1T, ZF-1M, ZF-1MT
- High frequency with 3~5mm stroke for ZF-5, ZF-5T, ZF-5M, ZF-5MT
- High frequency with 7~10mm stroke for ZF-10, ZF-10T, ZF-10M, ZF-10MT



Model	Blow Per Minute bpm	Stroke Length mm	Avg. Air Cons. cfm(l/min)	Noise Level db(A)	Vibration m/s ²	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZF-1(T)	21000	0.5~1	4(120)	72	0.8	1.26(0.57)/1.41(0.64)	3/8(10)	1/4
ZF-5(T)	11000	3~5	2.82(80)	83	3.6	1.54(0.7)/1.69(0.77)	3/8(10)	1/4
ZF-10(T)	9000	7~10	3.89(110)	71	4.6	1.65(0.75)/1.8(0.82)	3/8(10)	1/4
ZF-1M(MT)	21000	0.5~1	4(120)	72	0.8	0.73(0.33)/1.04(0.47)	3/8(10)	1/4
ZF-5M(MT)	11000	3~5	2.82(80)	83	3.6	0.73(0.33)/1.04(0.47)	3/8(10)	1/4
ZF-10M(MT)	9000	7~10	3.89(110)	71	4.6	0.73(0.33)/1.04(0.47)	3/8(10)	1/4

• Operating Air Pressure: 90psi/6.2bar

Saw Blades / Files

Saw Blade

-For ZS350D




350812L(300-8/12-SL)

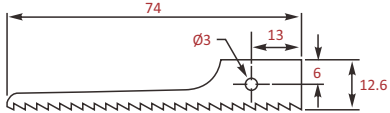


350914L(300-14-ST)

-For ZS311, ZS311M, ZS315, ZS319, ZS319H, ZS319-T2R, ZS319-T2B




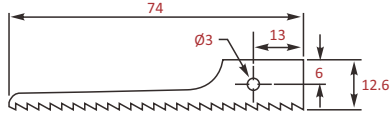
18 TPI

314918Z-5(5pcs) / 314918Z-10(10pcs)



24 TPI

314924Z-5(5pcs) / 314924Z-10(10pcs)




32 TPI


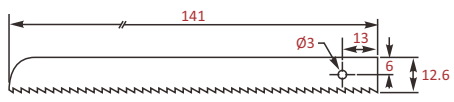



314932Z-5(5pcs) / 314932Z-10(10pcs)


-For ZS317, ZS317M, ZS329, ZS329H




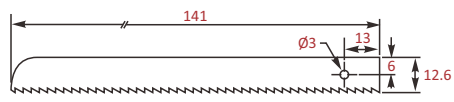
14 TPI

317914Z-5(5pcs) / 317914Z-10(10pcs)



18 TPI

317918Z-5(5pcs) / 317918Z-10(10pcs)



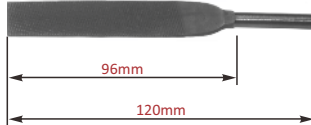
24 TPI





317924Z-5(5pcs) / 317924Z-10(10pcs)

Regular File

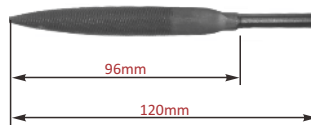
-For ZF-5, ZF-5T, ZF-5M, ZF-5MT, ZF-10, ZF-10T, ZF-10M, ZF-10MT Type Air File, 5mm Shank Diameter



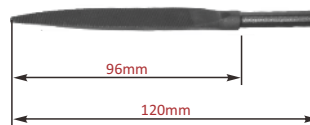
325901
Rectangular File



325902
Round File



325903
Half Round File



325904
Triangular File

Diamond File

-For ZF-1, ZF-1T, ZF-1M, ZF-1MT Type Air Lapper, 3mm Shank Diameter



201952
2mm Rectangular Diamond File



201954
4mm Rectangular Diamond File



201956
6mm Rectangular Diamond File

Air Metal Shear / Air Scissors



ZP226
Air Metal Shear

- The ZP226 Air Shear is ideal for the trimming , outlining and shearing of various sheet.
- The heavy-duty cutting blades make clean cut in cold rolled steel up to 18-gauge.
- The shear is ideal for body shop, sheet metal shop, and machine shop.



ZP227
Air Scissors

- The ZP227 Air Scissors is ideal for contour snip.
- The heavy duty blades make quick and clean snip.
- The scissors is ideal for body shop and machine shop.



ZP228
Pistol-Grip Air Shear

- Lightweight and durable composite pistol-grip for great control.



ZP229
Pistol-Grip Air Scissors

- Lightweight and durable composite pistol-grip for great control.



ZS-01
Shear Head



ZS-02
Scissors Head

Model	Cutting Capacity Steel	Cutting Capacity Aluminum	rpm	Avg. Air Cons. cfm	Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZP226	1.2mm	1.6mm	2600	3.7	10(255)	2.2(1)	3/8(10)	1/4
ZP227	1.2mm	1.6mm	2600	3.7	11.4(290)	2.2(1)	3/8(10)	1/4
ZP228	1.2mm	1.6mm	2600	3.7	7.8(200)	2.2(1)	3/8(10)	1/4
ZP229	1.2mm	1.6mm	2600	3.7	9.4(240)	2.2(1)	3/8(10)	1/4

• Operating Air Pressure: 90psi/6.2bar

Industrial Air Drills / Blind Rivet & Rivet Nut Removal Tool



ZD300 / ZD600 / ZD900 0.7HP
1/2" Industrial Air Drill



ZD3600 0.7HP
3/8" Industrial Air Drill
ZRD1600 / ZRD2400 0.7HP
3/8" Industrial Air Reversible Drill



ZRD220 0.7HP
ZRD400 / ZRD700 0.7HP
1/2" Industrial Air Reversible Drill



ZRD3625C / ZRD3645C 0.7HP
1/2" Air Reversible Drill Composite Housing



ZRD3600C 0.7HP
3/8" Air Reversible Drill Composite Housing



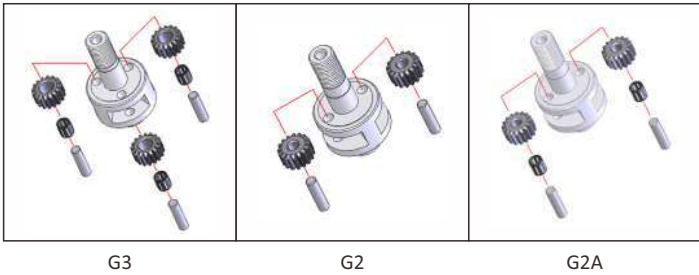
ZRR21 0.9HP
Blind Rivet & Rivet Nut Removal Tool
Adjustable precise shaving in 0.01mm increment.

Model	Capacity inch(mm)	Spindle Size inch	Shaver skirt & Bits dia.	Free Speed rpm	Avg. Air Cons. cfm(l/min)	Overall Length mm	Net Weight lbs(kgs)
ZRD220/ZRD400	1/2(13)	3/8"-24	-	220/410	5(141)	230	3.8(1.7)
ZRD700	1/2(13)	3/8"-24	-	700	5(141)	230	3.8(1.7)
ZD300/ZD600	1/2(13)	3/8"-24	-	300/600	5(141)	230	3.8(1.7)
ZD900	1/2(13)	3/8"-24	-	900	5(141)	230	3.8(1.7)
ZRD1600/ZRD2400	3/8(10)	3/8"-24	-	1600/2200~2400	5(141)	185/165	2.5(1.1)
ZD3600	3/8(10)	3/8"-24	-	3500	5(141)	185	2.5(1.1)
ZRD3600C	3/8(10)	3/8"-24	-	1500	5(141)	175	2.2(1)
ZRD3625C	1/2(13)	3/8"-24	-	220	5(141)	185	3.3(1.5)
ZRD3645C	1/2(13)	3/8"-24	-	500	5(141)	185	3.3(1.5)
ZRR21-5/16	-	-	5/16"	21000	17(180)	265	3.3(1.5)
ZRR21-3/8	-	-	3/8"	21000	17(180)	265	3.3(1.5)
ZRR21-7/16	-	-	7/16"	21000	17(180)	265	3.3(1.5)
ZRR21-1/2	-	-	1/2"	21000	17(180)	265	3.3(1.5)
ZRR21-9/16	-	-	9/16"	21000	17(180)	265	3.3(1.5)
ZRR21-5/8	-	-	5/8"	21000	17(180)	265	3.3(1.5)

● Min. Hose Size: 3/8(10)inch(mm) ● Air Inlet Size: 1/4" NPT/PT

Industrial Air Drills - Composite Housing

- The tools feature an innovative and ergonomic composite housing and textured rubber grip that insulates against cold temperature and vibration and provides great comfort and controllability.
- The ZRD324 Air Drill features one-piece gear box structure that runs smoother and lasts longer.



G3

G2

G2A

Gear box options

- One-piece gearbox for heavy duty application.
- Combination gearbox for general application.



ZD322 0.5HP
3/8" Air Drill



ZD322P 0.5HP
3/8" Air Drill



ZD323 0.5HP
1/2" Air Drill



ZD323P 0.5HP
1/2" Air Drill

Model	Chuck Size inch(mm)	Spindle Thread	Free Speed rpm	Avg. Air Cons. cfm	Length inch(mm)	Net Weight lbs(kgs)
ZD322/ZD322P	3/8(10)	3/8"-24	2600	3.7	7.6(195)	2(0.9)
ZD323/ZD323P	1/2(13)	3/8"-24	900	3.7	9(230)	2.6(1.2)

• Min. Hose Size: 3/8(10)inch(mm) • Air Inlet Size: 1/4" NPT/PT

Industrial Air Drills - Composite Housing



ZRD324 0.5HP
ZRD324D 0.5HP Feathering Control
 3/8" Air Reversible Drill



ZRD324P 0.5HP
ZRD324DP 0.5HP Feathering Control
 3/8" Air Reversible Drill



ZRD325 0.5HP
ZRD325D 0.5HP Feathering Control
 1/2" Air Reversible Drill



ZRD325P 0.5HP
ZRD325DP 0.5HP Feathering Control
 1/2" Air Reversible Drill



ZRD327 0.5HP
ZRD327D 0.5HP Feathering Control
 1/2" Air Reversible Drill



ZRD327P 0.5HP
ZRD327DP 0.5HP Feathering Control
 1/2" Air Reversible Drill



ZGD-D27-G1 Side Exhaust
 5/8" Gear Type Air Drill-Outside trigger
ZGD-D20-G1 Side Exhaust
 3/4" Gear Type Air Drill-Outside trigger



ZGD-D27-G1Z Side Exhaust
 5/8" Gear Type Air Drill-Inside trigger
ZGD-D20-G1Z Side Exhaust
 3/4" Gear Type Air Drill-Inside trigger

Model	Chuck Size inch(mm)	Spindle Thread	Free Speed rpm	Avg. Air Cons. cfm	Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZRD324/324P/324D/324DP	3/8(10)	3/8"-24	1800	4	7.6(195)	2(0.9)	3/8(10)	1/4
ZRD325/325P/325D/325DP	1/2(13)	3/8"-24	450	4	9(230)	2.6(1.2)	3/8(10)	1/4
ZRD327/327P/327D/327DP	1/2(13)	3/8"-24	700	4	9(230)	2.6(1.2)	3/8(10)	1/4
ZGD-D27-G1/G1Z	5/8(16)	-	1000	15	16.54(420)	13.98(6.34)	-	3/8
ZGD-D20-G1/G1Z	3/4(19)	-	1000	15	17.2(437)	15.52(7.04)	-	3/8

• Recommended Gauge Air Pressure: 60~90psi



ZAD-3004P 1.0HP
3/8" Air Drill



ZAD-3004PC 1.0HP
3/8" Air Drill



ZAD-336 0.5HP
3/8" 90° Angle Air Drill

- The Angle Air Drill is ideal for drilling applications of restricted areas.
- The powerful air motor provides high power output and stall torque resistance.



ZAD-356 / ZAD-376 0.5HP
3/8" Air Drill

- In-Line Drill is designed for low speed/high torque applications, such as drilling, sanding, and polishing.
- Keyless chuck comes with both ZAD-356 and ZAD-376.



ZAD-356P / ZAD-376P 0.5HP
3/8" Air Drill

- In-Line Drill is designed for low speed/high torque applications, such as drilling, sanding, and polishing.
- Keyless chuck comes with both ZAD-356P and ZAD-376P.



Z226036
Rubber Eraser
3-8/15" x 7/12"



Z226036-7
Rubber Eraser
4" x 7/12"



Z226036-2
Rubber Eraser
3-8/15" x 7/12"



ZBT265A6026TB
Tire Buffer Metal Wheel



ZP384 / ZP3843 0.5HP
Air Tire Buffer

- The Tire Buffer is ideal for general purpose tire buffering.
- Featuring high power and stall torque resistance makes the tire buffering easy and efficient.

ZAE-371 / ZAE-3714 0.5HP
Air Eraser

- Smart Eraser is designed for every user to get rid of any kind of marks on the plastic plate or painted surface.
- The user can do the removal very fast and clear without any damages on the surface.
- The original painting will as like the original.

ZTB-383 0.5HP
Air Tire Buffer

- The Tire Buffer is ideal for general purpose tire buffering.
- Featuring high power and stall torque resistance makes the tire buffering easy and efficient.

Model	Chuck Size inch(mm)	Spindle Thread	Free Speed rpm	Avg. Air Cons. cfm	Length inch(mm)	Net Weight lbs(kgs)
ZAD-3004P	3/8(10)	-	22000	4.1	7.2(185)	1.5(0.7)
ZAD-336	3/8(10)	3/8"-24	1800	3.7	7.6(195)	2(0.9)
ZAD-356/356P	3/8(10)	3/8"-24	2600	3.7	8.8(225)	1.8(0.8)
ZAD-376/376P	3/8(10)	3/8"-24	3600	3.7	8.8(225)	1.8(0.8)
ZAE-371/3714	-	5/16"-24	2600/3600	3.7	8.8(225)	1.8(0.8)
ZTB-383	-	5/16"-24	2600	3.7	8.8(225)	1.8(0.8)
ZP384/3843	-	3/8"-24	2600/3600	3.5	8.8(225)	1.8(0.8)

• Min. Hose Size: 3/8(10)inch(mm) • Air Inlet Size: 1/4" NPT/PT

Air Angle Eraser

Benefits

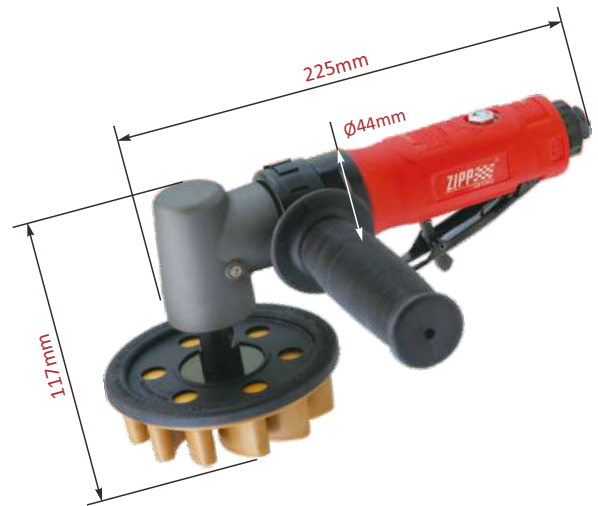
- Superior Ergonomics.
- Easy to use & offer greater visibility on work surface.
- Safety & Convenience.
- Powerful at 1.0 hp.
- Durable.
- Specially tool developed for the removal of pinstripes, Car Decals and Stickers, double faced tapes.

Features

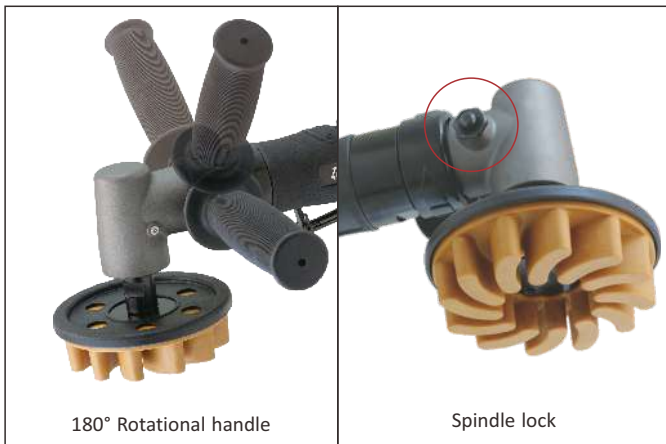
- High quality alloy steel's bevel gear with precision teeth design for tool performance durable & longevity.
- Spindle lock button feature allows for faster eraser wheel changeovers.
- Fully adjustable side handle.
- 4" Eraser Wheel with eraser wheel hub for secured fastened on spindle & more stable operation.
- Eraser wheel's pad as spiral oriented design as running direction for smoothly removal operation.
- 5/16"-24 spindle female thread.
- 1.0hp motor & 2400 rpm free speed.



ZAE-30836E 1.0HP
Air Angle Eraser



ZAE-3308E 0.5HP
Air Angle Eraser

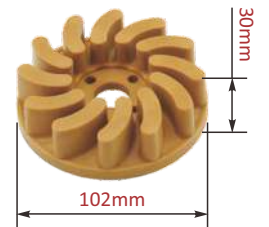


180° Rotational handle

Spindle lock



ZST-BT29756-1
Eraser Wheel Hub



ZBT29756
Eraser Wheel
4"(102mm)

Model	Spindle Thread	Free Speed rpm	Avg. Air Cons. cfm	Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZAE-30836E	5/16"-24	2400	4.1	8.8(225)	3.1(1.4)	3/8(10)	1/4
ZAE-3308E	5/16"-24	2400	3.5	8.8(225)	2.2(1)	3/8(10)	1/4

0.3HP Industrial Right Angle Air Drills



ZD2328 / ZD2328L

Threaded type **0.3HP**

90° Industrial Angle Drill



ZD2329 / ZD2329L

Threaded type **0.3HP**

45° Industrial Angle Drill



ZD2331 / ZD2331L

Chuck type **0.3HP**

90° Industrial Angle Drill



ZD2320 / ZD2320L

Chuck type **0.3HP**

45° Industrial Angle Drill



ZD2349 / ZD2349L

Collet type **0.3HP**

90° Industrial Angle Drill

• 2.4, 2.5, 3.0, 3.1, 3.2, 4.5, 4.6, 5.8 & 5.9 mm collet will be supply with each tool



ZD2340 / ZD2340L

Collet type **0.3HP**

45° Industrial Angle Drill

• 2.4, 2.5, 3.0, 3.1, 3.2, 4.5, 4.6, 5.8 & 5.9 mm collet will be supply with each tool

Model	Chuck/Collet Capacity inch(mm)	Spindle Thread	Free Speed rpm	Avg. Air Cons. cfm	Noise Level db(A)	Vibration m/s ²	Overall Length mm	Net Weight lbs(kgs)
ZD2328	-	1/4"-28	4000	3(84)	81.5	<2.5	240	1.4(0.64)
ZD2328L	-	1/4"-28	4000	3(84)	81.5	<2.5	308	1.65(0.75)
ZD2329	-	1/4"-28	4000	3(84)	81.5	<2.5	256	1.4(0.64)
ZD2329L	-	1/4"-28	4000	3(84)	81.5	<2.5	333	1.65(0.75)
ZD2331	1/8(3)	-	4000	3(84)	81.5	<2.5	240	1.4(0.64)
ZD2331L	1/8(3)	-	4000	3(84)	81.5	<2.5	308	1.65(0.75)
ZD2320	1/8(3)	-	4000	3(84)	81.5	<2.5	256	1.4(0.64)
ZD2320L	1/8(3)	-	4000	3(84)	81.5	<2.5	333	1.65(0.75)
ZD2349	(2.4~5.9)	-	4000	3(84)	81.5	<2.5	240	1.4(0.64)
ZD2349L	(2.4~5.9)	-	4000	3(84)	81.5	<2.5	308	1.65(0.75)
ZD2340	(2.4~5.9)	-	4000	3(84)	81.5	<2.5	256	1.4(0.64)
ZD2340L	(2.4~5.9)	-	4000	3(84)	81.5	<2.5	333	1.65(0.75)



Two Gear Mechanism

• Exhaust Type: Adjust Side Exhaust • Min. Hose Size: 3/8(10)inch(mm) • Air Inlet Size: 1/4" NPT/PT

0.5HP Industrial Right Angle Air Drills



ZD2333 / ZD2333L

Threaded type 0.5HP

90° Industrial Angle Drill



ZD2332 / ZD2332L

Threaded type 0.5HP

45° Industrial Angle Drill



ZD2335 / ZD2335L

Chuck type 0.5HP

90° Industrial Angle Drill



ZD2334 / ZD2334L

Chuck type 0.5HP

45° Industrial Angle Drill



ZD2352 / ZD2352L

Collet type 0.5HP

90° Industrial Angle Drill

• 2.4, 2.5, 3.0, 3.1, 3.2, 4.5, 4.6, 5.8 & 5.9 mm collet will be supply with each tool



ZD2351 / ZD2351L

Collet type 0.5HP

45° Industrial Angle Drill

• 2.4, 2.5, 3.0, 3.1, 3.2, 4.5, 4.6, 5.8 & 5.9 mm collet will be supply with each tool

Model	Chuck/Collet Capacity inch(mm)	Spindle Thread	Free Speed rpm	Avg. Air Cons. cfm	Noise Level db(A)	Vibration m/s ²	Overall Length mm	Net Weight lbs(kgs)
ZD2333	-	1/4"-28	3600	3.5(99)	82	<2.5	259	1.9(0.86)
ZD2333L	-	1/4"-28	3600	3.5(99)	82	<2.5	327	2.2(1)
ZD2332	-	1/4"-28	3600	3.5(99)	82	<2.5	274	1.9(0.86)
ZD2332L	-	1/4"-28	3600	3.5(99)	82	<2.5	351	2.2(1)
ZD2335	1/8(3)	-	3600	3.5(99)	82	<2.5	259	1.9(0.86)
ZD2335L	1/8(3)	-	3600	3.5(99)	82	<2.5	327	2.2(1)
ZD2334	1/8(3)	-	3600	3.5(99)	82	<2.5	274	1.9(0.86)
ZD2334L	1/8(3)	-	3600	3.5(99)	82	<2.5	351	2.2(1)
ZD2352	(2.4~5.9)	-	3600	3.5(99)	82	<2.5	259	1.9(0.86)
ZD2352L	(2.4~5.9)	-	3600	3.5(99)	82	<2.5	327	2.2(1)
ZD2351	(2.4~5.9)	-	3600	3.5(99)	82	<2.5	274	1.9(0.86)
ZD2351L	(2.4~5.9)	-	3600	3.5(99)	82	<2.5	351	2.2(1)



Two Gear Mechanism

• Exhaust Type: Adjust Side Exhaust • Min. Hose Size: 3/8(10)inch(mm) • Air Inlet Size: 1/4" NPT/PT

Angle Drill Attachments



ZD90T

Threaded type

- Spindle Thread: 1/4"-28



ZD90TL

Threaded type

- Spindle Thread: 1/4"-28



ZD45T

Threaded type

- Spindle Thread: 1/4"-28



ZD45TL

Threaded type

- Spindle Thread: 1/4"-28



ZD90CH

Chuck type

- Chuck Capacity: 1/8(3) inch(mm)



ZD90CHL

Chuck type

- Chuck Capacity: 1/8(3) inch(mm)



ZD45CH

Chuck type

- Chuck Capacity: 1/8(3) inch(mm)



ZD45CHL

Chuck type

- Chuck Capacity: 1/8(3) inch(mm)



ZD90C

Collet type

- Collet Capacity: (2.4~5.9) inch(mm)
- 2.4, 2.5, 3.0, 3.1, 3.2, 4.5, 4.6, 5.8 & 5.9 mm collet will be supply with each attachment



ZD90CL

Collet type

- Collet Capacity: (2.4~5.9) inch(mm)
- 2.4, 2.5, 3.0, 3.1, 3.2, 4.5, 4.6, 5.8 & 5.9 mm collet will be supply with each attachment



ZD45C

Collet type

- Collet Capacity: (2.4~5.9) inch(mm)
- 2.4, 2.5, 3.0, 3.1, 3.2, 4.5, 4.6, 5.8 & 5.9 mm collet will be supply with each attachment



ZD45CL

Collet type

- Collet Capacity: (2.4~5.9) inch(mm)
- 2.4, 2.5, 3.0, 3.1, 3.2, 4.5, 4.6, 5.8 & 5.9 mm collet will be supply with each attachment

Air Die Grinder / Air Angle Die Grinder

- Ergonomic cushion-grip handle-Insulates against cold temperature in the hand, helps ease user fatigue, and insulates against vibration.
- Power/Speed Regulator-Allows for easy rpm adjustment.
- Rear exhaust-Directs the exhaust away from the user and the working areas.
- Twin-Bearing Spindle-This quality design results in super precise spindle concentricity less than 0.05mm and minimal vibration.



ZDG-231 0.3HP Mini Air Die Grinder

- The ZDG-231 Mini Die Grinder is suitable for light weld grinding, porting and polishing applications. It features a spindle concentricity less than 0.05mm.



ZDG-2319 0.3HP

Medium Speed Mini Air Die Grinder

- Low profile for grinding restricted areas.
- Light weight for fatigue free use.
- Medium speed for specific grinding accessories.



ZDG-231AL 0.3HP

3" Extension Mini Air Die Grinder



ZDG-231L 0.3HP

5" Extension Mini Air Die Grinder

ZDG-231K Mini Die Grinder Tool Kit



Specifications:

- 1 pc Die Grinder
- 2 pcs Spanners
- 5 pcs 1/4" Shank Grinding Stones
- 5 pcs 1/8" Shank Grinding Stones
- 1 pc 1/8" Collet
- 1 pc Nipple
- 1 pc Blow Case



ZDG-236 0.3HP

Mini Air Angle Die Grinder

- The ZDG-236 Mini Angle Die Grinder allows easy handling in confined areas, and is capable of using carbide burs and other attachments for polishing, porting, and light metal removal.

ZDG-236K Mini Angle Die Grinder Tool Kit



Specifications:

- 1 pc Angle Die Grinder
- 1 pc 2" Roloc Pad
- 5 pcs 2" Roloc Scotch Discs
- 1 pc 1/8" Collet
- 1 pc Nipple
- 2 pcs Spanners
- 5 pcs 1/8" Shank Grinding Stones
- 5 pcs 1/4" Shank Grinding Stones
- 1 pc Blow Case

Model	Collet Size inch(mm)	Free Speed rpm	Avg. Air Cons. cfm	Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZDG-231	1/4(6)	25000	3	6.1(155)	0.9(0.4)	3/8(10)	1/4
ZDG-236	1/4(6)	20000	3	6.1(155)	1.1(0.5)	3/8(10)	1/4
ZDG-2319	1/4(6)	7600	3	7.3(185)	1.3(0.6)	3/8(10)	1/4
ZDG-231AL	1/4(6)	25000	2.6	8.6(220)	1.3(0.5)	3/8(10)	1/4
ZDG-231L	1/4(6)	25000	2.6	10.1(259)	1.5(0.7)	3/8(10)	1/4

Air Die Grinder / Air Angle Die Grinder



ZP313 0.5HP

Low Noise Air Die Grinder

- The ZP313 Die Grinder is suitable for many automotive and industrial high speed grinding applications. The grinder can be used to clean dies, rotors, backing plates and brake pad mounts.
- Grind valve seats, dress welds and enlarge holes.
- Can use with 1/4"(6mm) or 1/8"(3mm) grinding.

ZP313K Low Noise Air Die Grinder Kit



Specifications:

- 1 pc Die Grinder
- 2 pcs Spanners
- 5 pcs 1/4" Shank Grinding Stones
- 5 pcs 1/8" Shank Grinding Stones
- 1 pc 1/8" Collet
- 1 pc Nipple
- 1 pc Blow Case



- In-Line Die Grinder is designed for low speed application.
- Can use with 1/4"(6mm) or 1/8"(3mm) grinding accessories.

ZDG-356A / ZDG-376A 0.5HP

Low Speed, Low Noise Air Die Grinder



ZST-200E-29
6mm COLLET
ZST-200E-29-1
1/4" COLLET



ZDG-376AL 0.5HP

Low Speed Air Extension Die Grinder

- The die grinder come with 1/4"(6mm) or 3/8"(8mm) double angle collets for industrial application.



ZP314 0.5HP

Low Noise 3"

Air Extension Die Grinder

- Extension Die Grinder is designed for high speed grinding and polishing in hard-to-reach areas.
- Features an extended reach of 3".
- By using 1/4"(6mm) or 1/8"(3mm) grinding accessories, the grinder can be used in a wide range of grinding and polishing applications.

ZP319K Low Noise Air Angle Die Grinder Kit



Specifications:

- 1 pc Angle Die Grinder
- 5 pcs 2" Roloc Scotch Discs
- 5 pcs 3" Roloc Scotch Discs
- 1 pc 1/8" Collet
- 1 pc Nipple
- 2 pcs Spanners
- 5 pcs 1/8" Shank Grinding Stones
- 5 pcs 1/4" Shank Grinding Stones
- 1 pc Blow Molded Case
- 2 pcs Roloc Pad
- 2 pcs Bolts



ZP319 0.5HP

Low Noise

Air Angle Die Grinder

- The ZP319 Angle Die Grinders are ideal for high speed grinding and polishing.
- It can be used in finishing dies and metal molds, smoothing and shaping sheet metal and cast iron, weld finishing and other high speed polishing applications.
- Can use with 1/4"(6mm) or 1/8"(3mm) grinding accessories.



ZP315 0.5HP

Low Noise

5" Air Extension Die Grinder

- Extension Die Grinder is designed for high speed grinding and polishing in hard-to-reach areas.
- Features an extended reach of 5".
- By using 1/4"(6mm) or 1/8"(3mm) grinding accessories, the grinder can be used in a wide range of grinding and polishing applications.



ZDG-3226 0.5HP

Low Noise

115° Air Angle Die Grinder

- The ZDG-3226 Angle Die Grinders are ideal for high speed grinding and polishing.
- It can be used in finishing dies and metal molds, smoothing and shaping sheet metal and cast iron, weld finishing and other high speed polishing applications.
- Can use with 1/4"(6mm) or 1/8"(3mm) grinding accessories.



ZAG-341 0.5HP

Low Noise

2" Air Angle Grinder

- The Angle Grinder features versatile application for grinding, including depressed disc.



ZBT288544-2GD060
(#60Grit), 2" DISC WHEEL

Model	Collet Size inch(mm)	Free Speed rpm	Avg. Air Cons. cfm	Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZP313	1/4(6)	22000	3.7	7(178)	1.4(0.6)	3/8(10)	1/4
ZDG-356A/376A	1/4(6)	2600/3600	3.7	7.8(200)	1.5(0.7)	3/8(10)	1/4
ZDG-376AL	1/4(6)	3600	3.5	12(305)	2.2(1)	3/8(10)	1/4
ZP314	1/4(6)	22000	3.7	9.4(240)	1.5(0.7)	3/8(10)	1/4
ZP315	1/4(6)	22000	3.7	11(280)	1.8(0.8)	3/8(10)	1/4
ZP319/ZDG-3226	1/4(6)	18000	3.7	7(178)	1.5(0.7)	3/8(10)	1/4
ZAG-341	Grinding Wheel 2"	15000	3.5	7(178)	1.5(0.7)	3/8(10)	1/4

Industrial Air Die Grinder / Air Angle Grinder



ZDG-S215 0.3HP
Industrial 1/4" Air Die Grinder

- High power, efficient motor for heavy grinding works.
- Side exhaust.



ZDG-S24B 0.3HP
Industrial 1/4" Air Die Grinder

- Roll type throttle.
- Compact and durable steel housing for long service life.

Model	Size of Collet inch(mm)	Free Speed rpm	Avg. Air Cons. cfm(l/min)	Overall Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZDG-S215	1/4(6)	24000	7.8(220)	6-11/16(170)	1.46(0.66)	3/8(10)	1/4
ZDG-S24B	1/4(6)	24000	7.8(220)	7-3/64(179)	1.7(0.77)	3/8(10)	1/4

• Operating Air Pressure: 90psi/6.2bar



ZAG213A 0.3HP
Air Angle Grinder



ZAG213B 0.3HP
Air Angle Grinder



ZAG213AF 0.3HP
Air Angle Grinder



ZAG213BF 0.3HP
Air Angle Grinder

Model	Grinding Wheel inch(mm)	Free Speed rpm	Avg. Air Cons. cfm(l/min)	Overall Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZAG213A	2(50)	15000	7.8(220)	6-3/16(157)	1.46(0.66)	3/8(10)	1/4
ZAG213B	2(50)	15000	6.7(190)	7-13/32(188)	1.64(0.74)	3/8(10)	1/4
ZAG213AF	1/4(6)	15000	7.8(220)	6-3/16(157)	1.44(0.65)	3/8(10)	1/4
ZAG213BF	1/4(6)	15000	6.7(190)	7-13/32(188)	1.61(0.73)	3/8(10)	1/4

• Operating Air Pressure: 90psi/6.2bar

High HP Die Grinders

Super Power Air Tools

- 0.9HP and 1HP air grinders come with 1/4" (6mm) or 3/8" (8mm) double angle collets for industrial application.



ZST-200E-29
6mm COLLET
ZST-200E-29-1
1/4" COLLET



ZDG-301 0.9HP
Air Die Grinder

- The ZDG-301 Die Grinder is suitable for many automotive and industrial high speed grinding applications. The grinder can be used to clean dies, rotors, backing plates and brake pad mounts.
- Grind valve seats, dress welds and enlarge holes.
- Can use with 1/4"(6mm) or 1/8"(3mm) grinding accessories.



ZDG-302 0.9HP
Air Angle Die Grinder

- The ZDG-302 Angle Die Grinder is ideal for high speed grinding and polishing.
- It can be used in finishing dies and metal molds, smoothing and cast iron, weld finishing and other high speed polishing application.
- Can use with 1/4"(6mm) or 1/8"(3mm) grinding accessories.



ZDG-301AL 1.0HP
3.5" Air Extension Die Grinder

- Extension Die Grinder is designed for high speed grinding and polishing in hard-to-reach areas.
- Features an extended reach of 3.5".
- By using 1/4"(6mm) or 1/8"(3mm) grinding accessories, the grinder can be used in a wide range of grinding and polishing applications.



ZDG-301L 1.0HP
5.5" Air Extension Die Grinder

- Extension Die Grinder is designed for high speed grinding and polishing in hard-to-reach areas.
- Features an extended reach of 5.5".
- By using 1/4"(6mm) or 1/8"(3mm) grinding accessories, the grinder can be used in a wide range of grinding and polishing applications.

Model	Collet Size inch(mm)	Free Speed rpm	Avg. Air Cons. cfm	Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZDG-301	1/4(6)	23000	4.1	7(180)	1.4(0.5)	3/8(10)	1/4
ZDG-302	1/4(6)	18000	4.1	7(180)	1.8(0.8)	3/8(10)	1/4
ZDG-301AL	1/4(6)	22000	4.1	9.4(240)	1.8(0.8)	3/8(10)	1/4
ZDG-301L	1/4(6)	22000	4.1	11(280)	2(0.9)	3/8(10)	1/4

1HP Extended Die Grinders

ZDG-301L300 1.0HP

ZDG-3076L300 1.0HP

12" Air Extension Die Grinder

ZDG-301L500 1.0HP

ZDG-3076L500 1.0HP

21-3/8" Air Extension Die Grinder

ZDG-301L800 1.0HP

ZDG-3076L800 1.0HP

31-1/2" Air Extension Die Grinder



ZST-200E-29
6mm COLLET
ZST-200E-29-1
1/4" COLLET

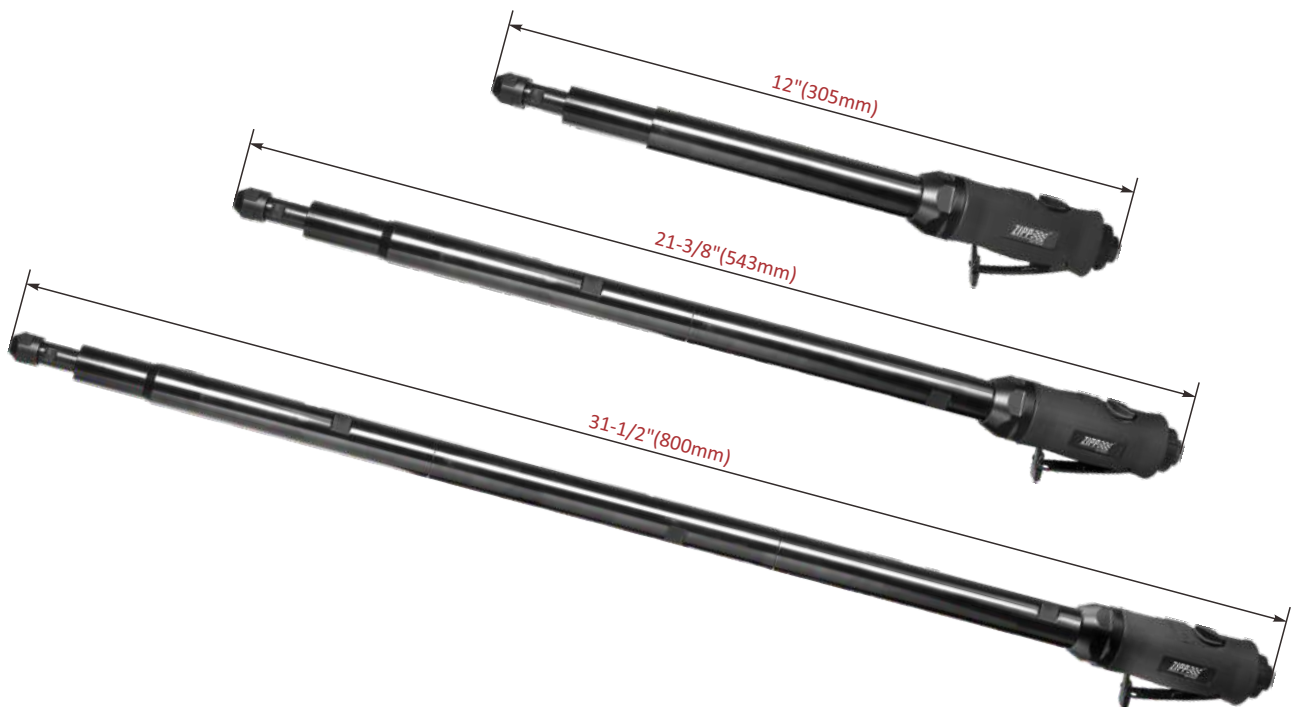
ZST-200E-29-2
8mm COLLET
ZST-200E-29-4
3/8" COLLET

Benefits

- Industrial extended shaft long die grinder design for high speed grinding & polishing in hard-to-reach areas
- By using 1/4" (6mm) or 3/8" (8mm) Double Angle Collets, the die grinder can be used in a wide range of grinding and polishing applications with various wheels
- 4000rpm models are excellent for grinding applications with flap sanding wheel
- High productivity
- Highest durability in demanding applications

Features

- 12" (305 mm), 21-3/8" (543 mm), 31-1/2" (800 mm) extended body by Aluminum alloy structure.
- Comfort grip over-housing
- Streamlined safety lever
- Rear exhaust
- 1/4" (6mm) & 3/8" (8mm) industrial grade Double Angle collet holder
- 1.0 hp motor
- 22000 rpm free speed models and 3500 rpm free speed models



* The length of extended body can be customize to extended as requirement.

Model	Collet Size inch(mm)	Free Speed rpm	Avg. Air Cons. cfm	Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZDG-301L300	1/4(6)	21000	4.2	17.5(445)	2.9(1.3)	3/8(10)	1/4
ZDG-301L500	1/4(6)	21000	4.2	27(688)	3.9(1.8)	3/8(10)	1/4
ZDG-301L800	1/4(6)	21000	4.2	37.1(943)	4.9(2.2)	3/8(10)	1/4
ZDG-3076L300	1/4(6)	3500	4.2	18.7(477)	3.5(1.6)	3/8(10)	1/4
ZDG-3076L500	1/4(6)	3500	4.2	28.3(719)	4.5(2)	3/8(10)	1/4
ZDG-3076L800	1/4(6)	3500	4.2	38.3(974)	5.5(2.5)	3/8(10)	1/4

Industrial Air Die Grinder



ZDG-S220 0.8HP
Industrial 1/4" Air Die Grinder

- Can be used as sander for expandable / flap wheels, brushes.



ZDG-S216 0.8HP
Industrial 1/4" Air Die Grinder

- With 360° rotating rear exhaust muffler Safety Trigger.
- Use for heavy grinding works.



ZDG-S206 0.8HP
Industrial 1/4" Air Die Grinder

- Can be used as sander for expandable / flap wheels, brushes.



ZDG-S235 0.8HP
Industrial 1/4" Air Die Grinder

- Can be used as sander for expandable / flap wheels, brushes.



24182-10 3/8"-24 / 24182-13 1/2"-20

Optional combo arbor (interchange with # 24182 arbor set) with 1/2"-20 or 3/8"-24 female thread for up to 3" wide wheels with 5/8" or 1" diameter center hole for use on model# ZDG-S220, ZDG-S206 & ZDG-S235 grinders.

Model	Collet Size inch(mm)	Free Speed rpm	Avg. Air Cons. cfm (l/min)	Overall Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZDG-S220	1/4(6)	2200	5(141)	8-5/8(220)	2(0.92)	3/8(10)	1/4
ZDG-S216	1/4(6)	15000	5(141)	8(200)	1.8(0.8)	3/8(10)	1/4
ZDG-S206	1/4(6)	600	5(141)	10(250)	2.6(1.2)	3/8(10)	1/4
ZDG-S235	1/4(6)	3500	5(141)	8-5/8(220)	2(0.92)	3/8(10)	1/4

- Operating Air Pressure: 90psi/6.2bar

Micro Die Grinder



ZPD327
 0.3HP Rear Exhaust
 Micro Die Grinder



ZPD212
 0.12HP Rear Exhaust
 Micro Die Grinder



ZPD312
 0.12HP Rear Exhaust
 Micro Die Grinder



ZPD412
 0.15HP Rear Exhaust
 Micro Die Grinder



ZPD322
 0.12HP Rear Exhaust
 90° Air Micro Grinder



ZPD323
 0.12HP Rear Exhaust
 120° Air Micro Grinder

Model	Collet Size inch(mm)	Free Speed rpm	Air Cons. l/min	Air Pressure kg(cm ²)	Tool Dimension mm	Tool Length mm	Hose Length mm	Net Weight kg
ZPD327	1/4(6)	30000	300	6	26.5	150	1500	0.3
ZPD212	1/8(3)	60000	180	6	17	140	1500	0.24
ZPD312	3mm	60000	180	6	18	125	1500	0.24
ZPD412	1/8(3)	70000	180	6	17	140	1500	0.13
ZPD322	3mm	22000	240	6	-	140	1500	0.345
ZPD323	3mm	22000	240	6	-	140	1500	0.355

● Air Inlet Size: 1/4" NPT/PT

Angle Cutter / Air Nibbler



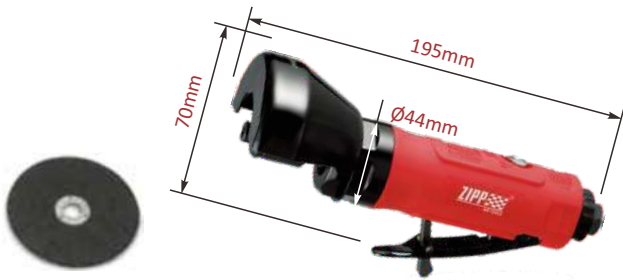
ZP219 0.5HP
Air Nibbler

Benefits

- Easy to operate and control
- Perfect for accurate cutting and best for tight corners and circles
- Used for nibbling plastic, tin, aluminum and others metals original
- Ideal for paint and auto body shops, tinsmiths, and sheet metal shops

Features

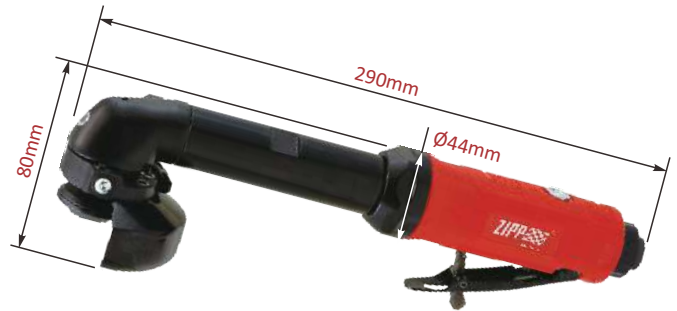
- 4.5mm diameter punch cuts rolled steel sheet up to 0.0478"/1.2mm (18 gauge) and aluminum up to 0.064"/1.628mm (14 gauge).
- The nibbler is capable of cutting 4.5mm in radius with accuracy and without distorted edges.
- Easy access to punch and die for quick replacement.
- Balanced, lightweight tool.



ZBT25134-3GD
3" Disc Wheel
(3" x 3/8 x 1/16")

ZP250 0.5HP
Low Noise Air Cutter

- The 3" Cutter is ideal for a wide range of cutting applications.



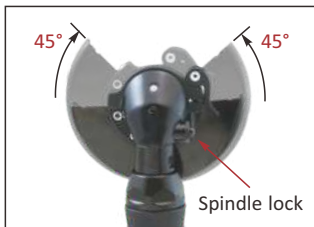
ZAC-354L 0.5HP
3" Extended Air Angle Cutter



ZAC-354 0.5HP
3" Air Angle Cutter



ZAC-304 0.9HP
3" Air Angle Cutter



Model	Grinding Wheel	Cutting Capacity Steel	Cutting Capacity Aluminum	Free Speed rpm	Avg. Air Cons. cfm	Length inch(mm)	Net Weight lbs(kgs)
ZP219	–	1.2mm	1.6mm	2600	3.7	7.2(185)	2.2(1)
ZAC-354	Cutting Wheel 3"	–	–	16000	3.5	8.6(220)	2.7(1.2)
ZAC-354L	Cutting Wheel 3"	–	–	16000	3.5	11.4(290)	2.9(1.3)
ZAC-304	Cutting Wheel 3"	–	–	16000	4.1	8.6(220)	2.9(1.3)
ZP250	Cutting Wheel 3"	–	–	21000	3.5	7.6(195)	1.8(0.8)

• Min. Hose Size: 3/8(10)inch(mm) • Air Inlet Size: 1/4" NPT/PT

Angle Grinder / Cutter

ZAG-306B

1.0HP Spindle Thread 5/8"-11

ZAG-306BM

1.0HP Spindle Thread M14x2P

4" Air Angle Grinder & Cutter

ZAG-30656B

1.0HP Spindle Thread 5/8"-11

ZAG-30656BM

1.0HP Spindle Thread M14x2P

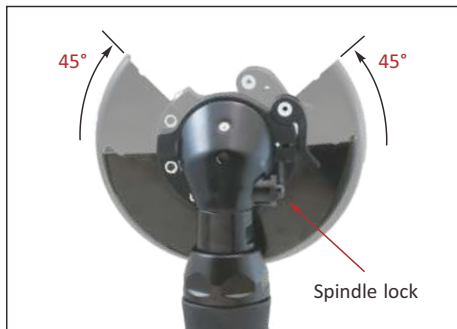
4-1/2" Air Angle Grinder & Cutter

Benefits

- Compact head design.
- Superior Ergonomics.
- Easy to Use.
- Safety & Convenience.
- Powerful at 1.0 hp.
- Durable.
- Ideal for a variety of applications such as sanding with flap discs, grinding especially in tight spaces.

Features

- High quality alloy steel's bevel gear with precision teeth design for tool performance durable & longevity.
- Spindle lock button feature allows for faster grinding wheel changeovers.
- 9 position adjustable swivel guard-120° adjustable for better operator protection & greater visibility of cutting operations.
- 4" (100mm) & 4.5" (115 mm) wheel capacity.
- 5/8"-11 & M14 x 2P spindle thread.
- 1.0hp motor & 11000 rpm free speed.



Model	Grinding Wheel	Free Speed rpm	Avg. Air Cons. cfm	Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZAG-306B	4"	11000	4.1	8.7(220)	2.2(1)	3/8(10)	1/4
ZAG-306BM	4"	11000	4.1	8.7(220)	2.2(1)	3/8(10)	1/4
ZAG-30656B	4-1/2"	11000	4.1	8.7(220)	2.2(1)	3/8(10)	1/4
ZAG-30656BM	4-1/2"	11000	4.1	8.7(220)	2.2(1)	3/8(10)	1/4

Extended Air Cutter

ZAC-30540 1.0HP

4" Extended Air Cutter

ZAC-305640 1.0HP

4-1/2" Extended Air Cutter

Benefits

- Extended Length & Compact Gear Housing at height 39mm
- Ergonomic Grip
- Easy to Use
- Safety & Convenient
- Powerful at 1.0hp
- Durable
- Ideal for cutting composite, metal, exhaust pipes, hangers, body panels, hoses, and U-bolts, ... especially in tight spaces

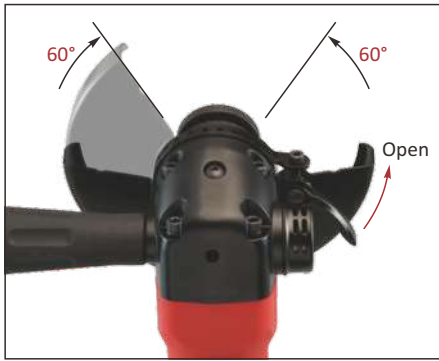
Features

- Cutting disc size: 4"/100mm, 4-1/2"/115 mm
- 7" = 180mm for better reach and easy access to restricted areas
- Composite ergonomic grip to reduce cold air transmission to operators
- Spindle lock system for easier wheel changing
- 9 position adjustable swivel guard - 120° adjustable for better operator protection & greater visibility of cutting operations
- Built-in speed regulator for easy adjustment
- Safety throttle lever to prevent accidental start up
- Rear exhaust with low noise
- 1 HP motor & 14000 rpm
- High quality bearing (larger bearing size) for better support internal gears
- High quality alloy steel for spiral bevels gears with precision teeth design for tool longevity



Model	Grinding Wheel	Free Speed rpm	Avg. Air Cons. cfm	Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZAC-30540	4"	14000	4.1	13.6(345)	3.2(1.4)	3/8(10)	1/4
ZAC-305640	4-1/2"	14000	4.1	13.6(345)	3.2(1.4)	3/8(10)	1/4

Air Angle Grinders



ZP321R 1.2HP 100° 4" Heavy Duty Grinder

ZP322R 1.2HP 100° 4-1/2" Heavy Duty Grinder

ZP323R 1.2HP 100° 5" Heavy Duty Grinder



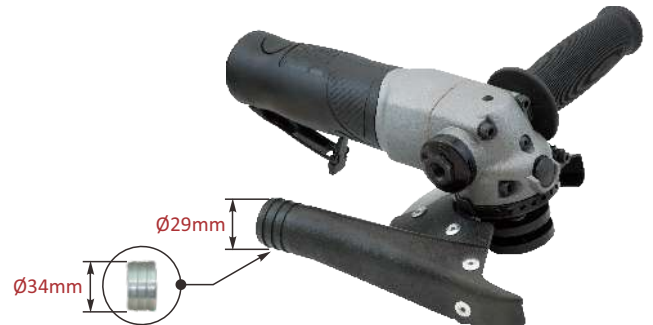
ZAG-965R 1.3HP 4" Angle Grinder

ZAG-9656R 1.3HP 4-1/2" Angle Grinder

ZAG-966R 1.3HP 5" Angle Grinder

- 1.3 HP Motor for stall resistance.
- Safety lock-off throttle lever.
- One piece housing reduces maintenance costs.
- Heavy duty air cooled spiral gears and double bearings for durability.
- Ergonomic composite grip for comfort and reduced vibration.
- ANSI compliance wheel guard design.

Best for: Continuous use, heavy duty surface preparation, and material removal.



ZAG-966C 1.3HP

5" H.D. Angle Grinder With Central Vacuum Wheel Guard

Model	Grinding Wheel	Grinding Wheel	Free Speed rpm	Avg. Air Cons. cfm	Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZP321R	3/8"-24, M10x1.5	4"	10000	3.5	8.2(210)	3.1(1.4)	3/8(10)	1/4
ZP322R	5/8"-11, M14x2	4-1/2"	10000	3.5	8.2(210)	3.1(1.4)	3/8(10)	1/4
ZP323R	5/8"-11, M14x2	5"	10000	3.5	8.2(210)	3.1(1.4)	3/8(10)	1/4
ZAG-965R	3/8"-24, M10x1.5	4"	11000	3.8	9(230)	4(1.8)	3/8(10)	1/4
ZAG-9656R	5/8"-11, M14x2	4-1/2"	11000	3.8	9(230)	4(1.8)	3/8(10)	1/4
ZAG-966R	5/8"-11, M14x2	5"	11000	3.8	9(230)	4(1.8)	3/8(10)	1/4
ZAG-966C	5/8"-11, M14x2	5"	11000	3.8	9(230)	4(1.8)	3/8(10)	1/4

Air Cut-Off Tool

Features

- Low Vibration & Ergonomic handle design.
- Easy access to changing discs.



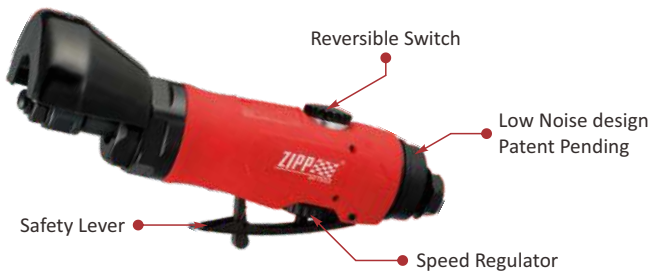
ZAG-386 0.5HP
3" Air Cut Off Tool



ZAG-387 0.7HP
4" Air Cut Off Tool

Model	Capacity Size PAD	Horse Power HP	Free Speed rpm	Avg. Air Cons. cfm	Overall Length mm	Net Weight kg	Air Pressure kg/cm ²	Air Inlet Size inch-NPT/PT
ZAG-386	3"	0.82	18000	4	225x115x105	0.83	6.3	1/4
ZAG-387	4"	0.8	14000	4.5	240x105x125	0.93	6.3	1/4

Reversible Air Tools

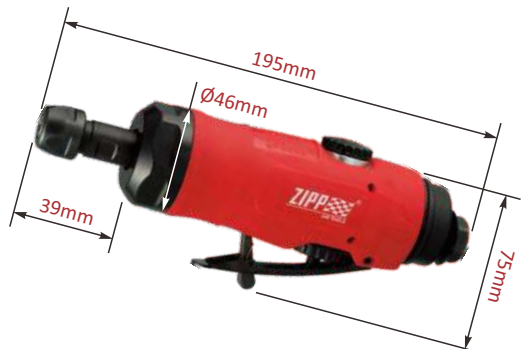


ZRD368 0.7HP
3/8" 90° Angle Air Reversible Drill



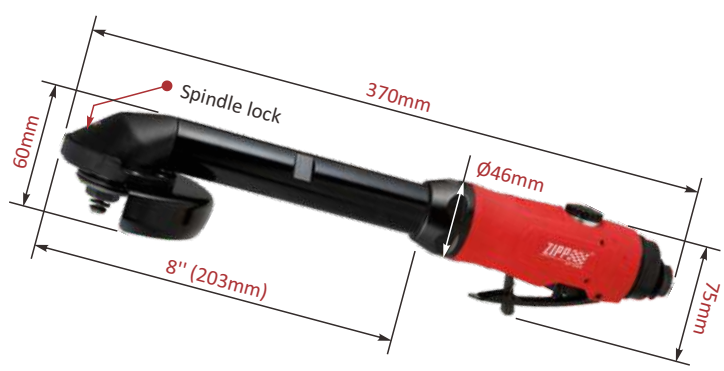
ZRC-361R 0.7HP
3" Reversible Air Cutter

- Directs sparks away for personal safety.
- Reversible cutting providing powerful cutting application.
- Best cutting tool for restricted areas.



ZRDG-363 0.7HP
Reversible Air Die Grinder

- Directs sparks away for personal safety.
- Reversible grinding for versatility.



ZRAC-365B 0.7HP
4" Extended Reversible Air Axial Cutter

- Directs sparks away for personal safety.
- Excellent for hard to reach areas.
- Low profile for restricted area applications.
- Versatile cutting applications for any cutting jobs.
- Spindle lock for disc replacement.



ZRAG-366B / ZRAG-367B 0.7HP
4" Reversible Air Axial Cutter

- Newly designed lower profile axial cutter providing versatile cutting applications.
- Best for restricted areas.
- Light weight ensures fatigue-free use.
- Spindle lock for disc replacement.

Model	Collet Size inch(mm)	Cutting Wheel	Free Speed rpm	Avg. Air Cons. cfm	Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZRC-361R	–	3"	18000	3.6	8(205)	2(0.9)	3/8(10)	1/4
ZRAC-365B	–	4"	15000	3.6	14.5(370)	2.4(1.1)	3/8(10)	1/4
ZRAG-366B/367B	–	4"	13000/15000	3.6	9.4(240)	2.4(1.1)	3/8(10)	1/4
ZRDG-363	1/4(6)	–	18000	3.6	7.6(195)	1.6(0.7)	3/8(10)	1/4
ZRD368	3/8(10)	–	1600	3.6	8.2(210)	2.4(1.1)	3/8(10)	1/4

Laser welding removal Tool

Benefits

- Compact angle head housing design for quick and easy use.
- Ergonomic Grip
- 0.5hp Powerful & Durable
- Ideal tool & specifically designed to deal with the latest technique in vehicle assembly laser welding

Features

- High speed cutting wheel made of a specially hardened metal. Depth of cut limitation-optional at either 0.8-1.0mm. The depth limiter ensures that the lower panel doesn't get damaged.
- Protection guard (transparent acetate material) design for safety protection.
- High quality manufacturing and materials guarantee durability.
- High quality alloy steel for internal gears with precision gear teeth design for prolong the gear life.



ZWR-3212K Laser welding removal Tool Kit



Kit include:

- 1 pc Laser welding removal Tool
- 2 pcs Spanners
- 1 pc Cutting Wheel
- 1 pc Hex
- 1 pc Depth 0.8mm Shaft
- 1 pc Depth 1.0mm Shaft
- 1 pc Blow Molded Case

ZWR-3212 0.5HP Laser welding removal Tool

- Solid Tungsten Carbide Cutting wheel with TiAlN coating.
- Superior for high speed and dry cutting

Model	Collet Size inch(mm)	Free Speed rpm	Avg. Air Cons. cfm	Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZWR-3212	1/4(6)	11000	3.5	7(180)	1.5(0.7)	3/8(10)	1/4

Rust & Paint Removal Tools



ZTU-391 0.5HP

Non-Vacuum Low Noise



ZTU-391C 0.5HP

Central-Vacuum



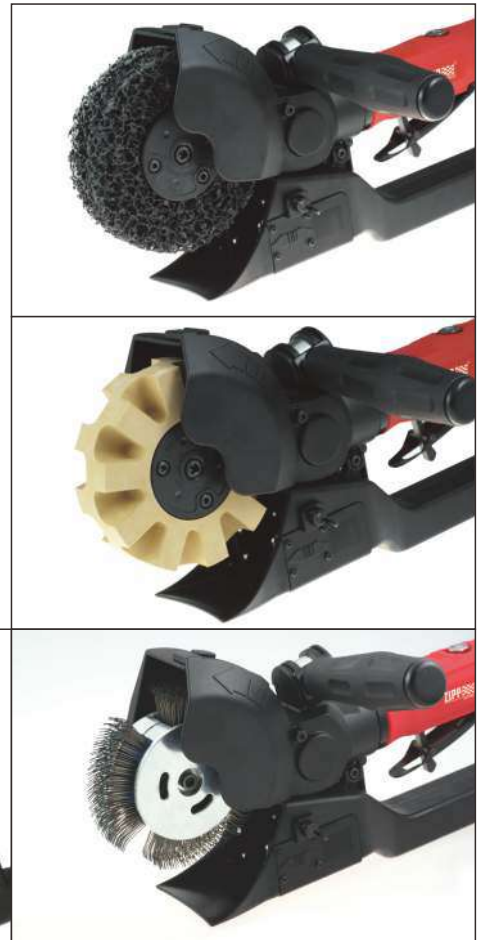
ZTU-391S 0.5HP

Self-Generated Vacuum



HB-46-2
HOSE & BAG

- Innovative 180° rotational handle for precise leverage and control.
- Unique double side safety guards and integrated dust extraction system for safe and clean operation.
- Planetary gear system for increased torque.
- Ergonomic cushion grip insulates against cold and vibration.
- Swivel exhaust outlet in rear of tool allows easy operations.
- Paddle style trigger for precise speed control.
- Increase the baffle and prevent hands from being injured.
- Integrated Safety and Dust Extraction System.



Model	Spindle Thread mm	Free Speed rpm	Avg. Air Cons. cfm	Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZTU391	9	4000	3.5	10(254)	2.7(1.2)	3/8(10)	1/4
ZTU391C	9	4000	3.5	10(254)	2.7(1.2)	3/8(10)	1/4
ZTU391S	9	4000	3.5	10(254)	2.7(1.2)	3/8(10)	1/4

Rust & Paint Removal Tools

	ZTU-391K Non-Vacuum		ZTU-391CK Central-Vacuum
	Kit include: <ul style="list-style-type: none"> ● 1 pc Paint Removal Tool ● 1 pc Rubber Eraser Wheel ● 1 pc Stripping Wheel ● 1 pc Hub ● 3 pcs Wire Wheel ● 1 pc Nipple ● 1 pc Hex ● 1 pc Screw ● 1 pc Blow Molded Cast 		Kit include: <ul style="list-style-type: none"> ● 1 pc Paint Removal Tool ● 1 pc Rubber Eraser Wheel ● 1 pc Stripping Wheel ● 1 pc Hub ● 3 pcs Wire Wheel ● 1 pc Nipple ● 1 pc Hex ● 1 pc Screw ● 1 pc Blow Molded Cast
 <p>ZST-BTRE115-30 Rubber eraser wheel Wheel diameter 4"(103mm) Wheel width 1.2"(30mm)</p>	 <p>ZST-BTRE115-30A Water based eraser Wheel diameter 4"(103mm) Wheel width 1.2"(30mm)</p>	 <p>ZBT246655 Rubber eraser wheel Wheel diameter 4"(103mm) Wheel width 1.2"(30mm)</p>	 <p>ZBT246655 Stripping wheel Wheel diameter 4"(103mm) Wheel width 1.2"(30mm)</p>
 <p>ZBTWW103-23-7 Wire wheel(Coarse) Wire diameter 0.028"(0.7mm) Wheel diameter 4"(103mm) Wheel width 0.91"(23mm)</p>	 <p>ZBTWW103-23-5.5 Wire wheel(Medium) Wire diameter 0.019"(0.5mm) Wheel diameter 4"(103mm) Wheel width 0.91"(23mm)</p>	 <p>ZBTWW103-23-5 Wire wheel(Fine) Wire diameter 0.019"(0.5mm) Wheel diameter 4"(103mm) Wheel width 0.91"(23mm)</p>	 <p>ZST-BT246655A-K03 Hub Hub width 0.91"(23mm)</p>
 <p>ZBTWW103-23-7ASS Stainless steel wire(Coarse) Wire diameter 0.028"(0.7mm) Wheel diameter 4"(103mm) Wheel width 0.91"(23mm)</p>	 <p>ZBTWW103-23-5ASS Stainless steel wire(Medium) Wire diameter 0.019"(0.5mm) Wheel diameter 4"(103mm) Wheel width 0.91"(23mm)</p>	 <p>ZBTWW103-23-5SS Stainless steel wire(Fine) Wire diameter 0.019"(0.5mm) Wheel diameter 4"(103mm) Wheel width 0.91"(23mm)</p>	
 <p>ZBTWW103-11-7AM Wire wheel(Coarse) Wire diameter 0.028"(0.7mm) Wheel diameter 4"(103mm) Wheel width 0.43"(11mm)</p>	 <p>ZBTWW103-11-5AM Wire wheel(Medium) Wire diameter 0.019"(0.5mm) Wheel diameter 4"(103mm) Wheel width 0.43"(11mm)</p>	 <p>ZBTWW103-11-5M Wire wheel(Fine) Wire diameter 0.019"(0.5mm) Wheel diameter 4"(103mm) Wheel width 0.43"(11mm)</p>	 <p>ZST-BT28068-K03 Hub Hub width 0.43"(11mm)</p>
 <p>ZBTWW103-11-5ASS Stainless steel wire(Coarse) Wire diameter 0.028"(0.7mm) Wheel diameter 4"(103mm) Wheel width 0.43"(11mm)</p>	 <p>ZBTWW103-11-5ASS Stainless steel wire(Medium) Wire diameter 0.019"(0.5mm) Wheel diameter 4"(103mm) Wheel width 0.43"(11mm)</p>	 <p>ZBTWW103-11-5SS Stainless steel wire(Fine) Wire diameter 0.019"(0.5mm) Wheel diameter 4"(103mm) Wheel width 0.43"(11mm)</p>	

Spot Repair Sander

Benefits

- Mini compact design with angle head Housing at height 75 mm
- Ergonomic Grip
- Easy to use & convenient
- 0.3hp Powerful & Durable
- Ideal for use in paint shop applications for sanding nibs or for sanding small areas and for car headlights polish.
- Dual action for provide uniform sanding surface with a superior finish , ready for buffing application as next steps.

Features

- Angle head dual action sander with 2" Velcro Pad, 1.2" Velcro Pad , Triangle mini Velcro Pad
- High quality bearing provide long tool life
- High quality alloy steel for spiral bevels gears with precision teeth design for tool longevity
- One piece balancer design for reducing vibration of dual action



ZSR-242 0.3HP
Spot Repair Sander



ZSR-242K Spot Repair Sander Kit

Kit include:

- 1 pc Spot Repair Sander
- 1 pc 2" Velcro Pad
- 1 pc 1.2" Velcro Pad
- 1 pc Triangle mini Velcro Pad
- 1 pc Nipple
- 1 pc 2" Wool Pad
- 1 pc 1.2" Wool Pad
- 1 pc 2" Polishing Pad
- 1 pc 1.2" Polishing Pad
- 10 pcs 2" 120# Sandpapers
- 10 pcs 2" 180# Sandpapers
- 10 pcs 2" 320# Sandpapers
- 10 pcs 2" 600# Sandpapers
- 10 pcs 2" 1000# Sandpapers
- 10 pcs 2" 1500# Sandpapers
- 10 pcs Triangle mini 120# Sandpapers
- 10 pcs Triangle mini 180# Sandpapers
- 10 pcs Triangle mini 320# Sandpapers
- 10 pcs Triangle mini 600# Sandpapers
- 10 pcs Triangle mini 1000# Sandpapers
- 10 pcs Triangle mini 1500# Sandpapers
- 10 pcs 1.2" 120# Sandpapers
- 10 pcs 1.2" 180# Sandpapers
- 10 pcs 1.2" 320# Sandpapers
- 10 pcs 1.2" 600# Sandpapers
- 10 pcs 1.2" 1000# Sandpapers
- 10 pcs 1.2" 1500# Sandpapers
- 1 pc Blow Molded Case

Model	Orbit Diameter mm	Free Speed rpm	Avg. Air Cons. cfm	Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZSR-242	2	13000	2.6	6.1(155)	1.1(0.5)	3/8(10)	1/4

Spot Repair Sander Accessories

 <p>ZST13145 1.2" Velcro Pad</p>	 <p>ZST13144 Triangle mini Velcro Pad</p>	 <p>ZST13146 2" Velcro Pad</p>	
 <p>ZBT131-30-1 1.2" Wool Pad</p>	 <p>ZBT131-2-1 2" Wool Pad</p>	 <p>ZBT131-30-2 1.2" Polishing Pad</p>	 <p>ZBT131-2-2 2" Polishing Pad</p>
 <p>ZP-131-32-120 120# Sandpaper (32mm)</p>	 <p>ZP-131-32-180 180# Sandpaper (32mm)</p>	 <p>ZP-131-32-320 320# Sandpaper (32mm)</p>	
 <p>ZP-131-32-600 600# Sandpaper (32mm)</p>	 <p>ZP-131-32-1000 1000# Sandpaper (32mm)</p>	 <p>ZP-131-32-1500 1500# Sandpaper (32mm)</p>	
 <p>ZP-131-40-3-120 120# Sandpaper (40mm)</p>	 <p>ZP-131-40-3-180 180# Sandpaper (40mm)</p>	 <p>ZP-131-40-3-320 320# Sandpaper (40mm)</p>	
 <p>ZP-131-40-3-600 600# Sandpaper (40mm)</p>	 <p>ZP-131-40-3-1000 1000# Sandpaper (40mm)</p>	 <p>ZP-131-40-3-1500 1500# Sandpaper (40mm)</p>	
 <p>ZP-ZOS-2-120 120# Sandpaper (50.8mm)</p>	 <p>ZP-ZOS-2-180 180# Sandpaper (50.8mm)</p>	 <p>ZP-ZOS-2-320 320# Sandpaper (50.8mm)</p>	
 <p>ZP-ZOS-2-600 600# Sandpaper (50.8mm)</p>	 <p>ZP-ZOS-2-1000 1000# Sandpaper (50.8mm)</p>	 <p>ZP-ZOS-2-1500 1500# Sandpaper (50.8mm)</p>	

Air Sander / Polisher



ZOS-343 0.25HP
3" Orbital Sander

- Ideal for headlamp, windshield and small area repair and finishing.
- 2.5mm orbital diameter.



ZP388 0.25HP 3" Mini Polisher - 1/4"-20 or M6x1.0

ZP389 0.25HP 3" Mini Polisher - 5/16"-24

- Composite Motor Housing
- Handle Exhaust
- Low Noise 80 dB(A)



ZVP-7N-7747 0.6HP

5" Vertical Sander / Polisher

- Composite Motor Housing
- with Air Regulator



6N-663636-11
5" White
Compounding Pad
-Velcro
#80 Grip



6N-663637-11
5" Yellow
Compounding Pad
-Velcro
#70 Grip



6N-663638-11
5" Wool
Polishing Pad
- Velcro



ZNRS-71-6346 0.3HP

Nib Removal Sander - Orbit Dia. 3 mm

- Small Diameter Head Size for Better Visibility, Less Buffing
- Lightweight, Easy-Grip, Right Angle Tool
- Better Visibility, Less Buffing
- Precise Speed Control
- Rear Exhaust with Available Overhose

ZP388K 3" Mini Polisher - 1/4"-20 or M6x1.0
ZP389K 3" Mini Polisher - 5/16"-24

Kit include:

- 1 pc 3" Mini Polisher
- 1 pc Key Wrench
- 1 pc 3" Velcro Sanding Pad (Installed)
- 1 pc 3-1/2" Bonnet
- 1 pc 3-1/2" Yellow Compounding Pad
- 1 pc 3-1/2" White Compounding Pad



ZASL-342A 0.5HP

Low Noise 2" Angle Sander

- Includes locking-type pad(2" diameter or 3" diameter).
- The Angle Sander is ideal for all types of sanding on small areas.

Model	Pad Size inch(mm)	Orbit Diameter inch(mm)	Spindle Thread	Free Speed rpm	Avg. Air Cons. cfm(l/min)	Length inch(mm)	Noise Level db(A)	Net Weight lbs(kgs)
ZOS-343	3(76)	-	-	15000	3.5(99.1)	7.3(185)	86	1.5(0.7)
ZVP-7N-7747	5(125)	-	5/16"-24	3500	3.9(110)	144x205x214mm	80	2.2(1)
ZNRS-71-6346	1-1/4(32)	1/8(3)	-	12000	1(28.3)	7-7/8(197)	80	1.1(0.5)
ZP388	3(75)	-	1/4"-20 or M6X1.0	3200	3.2(91)	4.6(116)	80	1.59(0.72)
ZP389	3(75)	-	5/16"-24	3200	3.2(91)	4.6(116)	80	1.59(0.72)
ZASL-342A	-	-	Sanding Wheel: 2", 3"	15000	3.1(87.8)	7(180)	-	1.5(0.7)

• Operating Air Pressure: 90psi/6.2bar • Min. Hose Size: 3/8(10)inch(mm) • Air Inlet Size: 1/4" NPT/PT

Air Mini Sander / Air Mini Polisher



ZP385M / ZP385A 0.3HP
Air Mini Orbital Sander



ZP385MK / ZP385AK Air Mini Orbital Sander Kit

- Kit include:
- 2" / 3" Mini Orbital Sander (ZP385M or ZP385A) 1 pc
 - 320 Grit Sanding Disc 10 pcs
 - 400 Grit Sanding Disc 10 pcs
 - 600 Grit Sanding Disc 10 pcs
 - 2" Hook & Loop Type Pad 1 pc
 - 3" Hook & Loop Type Pad 1 pc



ZP386A 0.3HP
Air Mini Sander



ZP386AK Air Mini Sander Kit

- Kit include:
- 3" Mini Sander (ZP386A) 1 pc
 - 80 Grit Sanding Disc 10 pcs
 - 100 Grit Sanding Disc 10 pcs
 - 120 Grit Sanding Disc 10 pcs
 - Coarse Preparation Disc 1 pc
 - Medium Preparation Disc 1 pc
 - Fine Surface Preparation Disc 1 pc



ZP387M / ZP387A 0.3HP
Air Mini Polisher



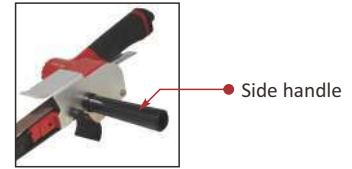
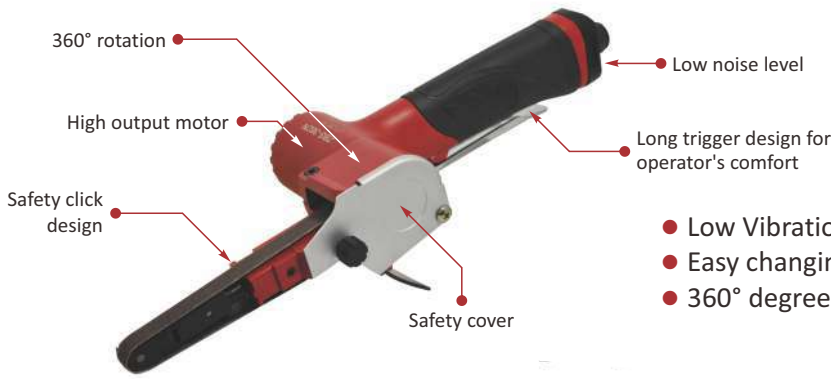
ZP387MK / ZP387AK Air Mini Polisher Kit

- Kit include:
- 3" Mini Polisher (ZP387M or ZP387A) 1 pc
 - 3" Hard Compounding Pad 1 pc
 - 3" Soft Compounding Pad 1 pc
 - 3-1/2" Lambs wool Bonnet 1 pc
 - 3" Hook & Loop Backing Pad 1 pc

Model	Pad Size inch(mm)	Spindle Thread inch(mm)	Free Speed rpm	Avg. Air Cons. cfm(l/min)	Overall Length inch(mm)	Net Weight lbs(kgs)
ZP385M	2(51) or 3(76)	(M6)	16000	4(113)	4-11/16(120)	2(0.98)
ZP385A	2(51) or 3(76)	5/16-24 UNC	16000	4(113)	4-11/16(120)	2(0.98)
ZP386A	3(76)	1/4-20 UNC	18000	4(113)	4-11/16(120)	1.5(0.68)
ZP387M	3(76)	(M6)	2000	4(113)	5-1/4(138)	1.6(0.75)
ZP387A	3(76)	5/16-24 UNC	2000	4(113)	5-1/4(138)	1.6(0.75)

● Min. Hose Size: 3/8(10)inch(mm) ● Air Inlet Size: 1/4" NPT/PT

Air Belt Sander



- Low Vibration & Ergonomic handle design
- Easy changing sand belt
- 360° degree sanding direction



ZBS-382 0.5HP
Air Belt Sander



ZBS-383 0.5HP
Air Belt Sander



ZBS-385 0.5HP
Air Belt Sander

Model	Wheel Material	Size of Belt mm	Free Speed rpm	Avg. Air Cons. cfm	Overall Length inch(mm)	Net Weight lbs(kgs)	Air Hose (I.D.)	Air Inlet Size inch-NPT/PT
ZBS-382A	RUBBER WHEEL	10X330	17000	4	12.83(326)	1.94(0.88)	3/8"	1/4
ZBS-382N	STEEL WHEEL	10X330	17000	4	12.83(326)	1.94(0.88)	3/8"	1/4
ZBS-382N1	STEEL WHEEL	6X457	17000	4	15.35(390)	2.86(1.3)	3/8"	1/4
ZBS-382N3	STEEL WHEEL	13X457	17000	4	15.35(390)	2.07(0.94)	3/8"	1/4
ZBS-382N4	STEEL WHEEL	13X610	17000	4	17.72(450)	2.18(0.99)	3/8"	1/4
ZBS-382N5	STEEL WHEEL	13X330	17000	4	12.83(326)	1.98(0.9)	3/8"	1/4
ZBS-382N6	STEEL WHEEL	15X475	17000	4	15.35(390)	1.98(0.9)	3/8"	1/4
ZBS-382N7	STEEL WHEEL	8X475	17000	4	15.35(390)	2.86(1.3)	3/8"	1/4
ZBS-383	RUBBER WHEEL	20X520	17000	4	16.02(407)	2.93(1.33)	3/8"	1/4
ZBS-383A	RUBBER WHEEL	20X520	17000	4	16.02(407)	2.93(1.33)	3/8"	1/4
ZBS-383N	STEEL WHEEL	20X520	17000	4	16.02(407)	2.93(1.33)	3/8"	1/4
ZBS-383A1	RUBBER WHEEL	20X520	17000	4	16.02(407)	2.93(1.33)	3/8"	1/4
ZBS-383A2	RUBBER WHEEL	20X520	17000	4	16.02(407)	2.93(1.33)	3/8"	1/4
ZBS-383N1	STEEL WHEEL	20X330	17000	4	12.8(325)	1.98(0.9)	3/8"	1/4
ZBS-383N2	STEEL WHEEL	20X520	17000	4	16.02(407)	2.18(0.99)	3/8"	1/4
ZBS-385A	RUBBER WHEEL	30X540	13000	5	16.34(415)	3.3(1.5)	3/8"	1/4
ZBS-385A1	RUBBER WHEEL	20X520	13000	5	16.34(415)	3.3(1.5)	3/8"	1/4
ZBS-385N	STEEL WHEEL	30X540	13000	5	16.34(415)	3.3(1.5)	3/8"	1/4
ZBS-385Z2A	RUBBER WHEEL	20X520	13000	5	16.34(415)	3.3(1.5)	3/8"	1/4
ZBS-385Z2N	STEEL WHEEL	20X520	13000	5	16.34(415)	3.3(1.5)	3/8"	1/4
ZBS-385Z3A	RUBBER WHEEL	30X540	13000	5	16.34(415)	3.3(1.5)	3/8"	1/4
ZBS-385Z3N	STEEL WHEEL	30X540	13000	5	16.34(415)	3.3(1.5)	3/8"	1/4

Air Belt Sander



ZBS-3892 / ZBS-3893
Air Belt Sander



ZBS-3894
Air Belt Sander



ZBS-371
Air Belt Sander



371-AA
Contact Arm Assy
for belt wide 8&10



371-BB
Contact Arm Assy
for belt wide 3



371-BG
Contact Arm Assy
for belt wide 3&5



371-CC
Contact Arm Assy
for belt wide 10&12



371-AD
Contact Arm Assy
for belt wide 10&12



371-BF
Contact Arm Assy
for belt wide 8&10



371-BH
Contact Arm Assy
for belt wide 5&6



371-DE
Contact Arm Assy
for belt wide 8&10

ZBS-371K Air Belt Sander Kit



Kit include:

- ZBS-371 1 pc
- 371-AA 1 pc
- 371-AD 1 pc
- 371-BB 1 pc
- 371-BF 1 pc
- 371-BG 1 pc
- 371-BH 1 pc
- 371-CC 1 pc
- 371-DE 1 pc
- 3 pcs Belt of Each Arm (#80, #100, #120) 24 pcs
- Blow Case 1 pc

Model	Wheel Material	Size of Belt mm	Free Speed rpm	Avg. Air Cons. cfm	Overall Length inch(mm)	Net Weight lbs(kgs)	Air Hose (I.D.)	Air Inlet Size inch-NPT/PT
ZBS-3892	STEEL WHEEL	20X640	13000	4	16.34(415)	3.3(1.5)	3/8"	1/4
ZBS-3893A	RUBBER WHEEL	30X640	13000	4	16.34(415)	3.3(1.5)	3/8"	1/4
ZBS-3893G	RUBBER WHEEL	30X760	3300	4	16.34(415)	3.3(1.5)	3/8"	1/4
ZBS-3894	RUBBER WHEEL	40X750	13000	4	16.34(415)	3.3(1.5)	3/8"	1/4
ZBS-3894G	RUBBER WHEEL	40X760	3300	4	16.34(415)	3.3(1.5)	3/8"	1/4
ZBS-371	STEEL WHEEL	10X330	16000	5	11.6(295)	2.09(0.95)	3/8"	1/4

Angle Sander / Polisher



ZAP-342L 0.5HP
Right Angle Buffer, 3" Diameter
(3" Rotary Right Angle Polisher)



ZAP3308 / ZAP330825 0.5HP
Angle Sander / Polisher



Z26041 3/8"x16NC **ZBT22749** M16-x2 **ZBT22750** M14-x2 **ZBT22751** 5/8"x11NC **Z23138** 1/4"x20

ADAPTERS



ZAP308 / ZAP30825 1.0HP
Angle Sander / Polisher



ZBT1650-05G
5.5" FINE GRAY
POLISHING PAD



ZBT1650-03G
3" FINE GRAY
POLISHING PAD



ZBT1650-05Y
5.5" COARSE YELLOW
POLISHING PAD



ZBT1650-03Y
3" COARSE YELLOW
POLISHING PAD



ZBT1650-05W
5.5" WOOL WHEEL



ZBT1650-03W
3" WOOL WHEEL



180° Rotational Handle



Z210K-8
3" POLOC PAD



ZBT22748
STRIPPING WHEEL



Z26036-7
RUBBER ERASER



ZBTOB-385V0Y-T10
5" PAD (Hook-up)

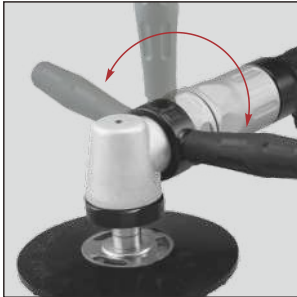


ZBTOB-38-3V0Y-W80
3" 80g PAD (Hook-up)

Model	Spindle Thread	Free Speed rpm	Avg. Air Cons. cfm	Overall Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZAP-342L	5/16"-24	2600	3.5	12.1(307)	2.6(1.2)	3/8(10)	1/4
ZAP3308	5/16"-24	4000	3.5	8.8(225)	2.2(1)	3/8(10)	1/4
ZAP330825	5/16"-24	2400	3.5	8.8(225)	2.2(1)	3/8(10)	1/4
ZAP308	5/16"-24	4000	4.1	8.8(225)	2.2(1)	3/8(10)	1/4
ZAP30825	5/16"-24	2400	4.1	8.8(225)	2.2(1)	3/8(10)	1/4

Angle Sander / Angle Polisher

- Excellent for roughing body filler, rust removal, and smoothing welds.
- Both hands operating.
- Lightweight for easy handling.
- Outperforms than regular ones.



180° Rotational Handle



Spindle Lock



Low noise design



ZAS-982 / ZAS-983 1.3HP
7" Angle Polisher



ZBT871-07W
7" Wool pad



ZST77152
(5/8"-11 Thread)
ZST77152-1
(M14x2 Thread)
7" Pad Hook-up



ZST87158
(5/8"-11 Thread)
ZST87158.1
(M14x2 Thread)
7" Plastic Pad



ZST870S60
(5/8"-11 Thread)
ZST870S60.1
(M14x2 Thread)
7" Rubber Backing Pad

Model	Spindle Thread	Free Speed rpm	Avg. Air Cons. cfm	Overall Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZAS-982	5/8"-11, M14x2	4500	3.8	12.9(328)	5.1(2.3)	3/8(10)	1/4
ZAS-983	5/8"-11, M14x2	2500	3.8	12.9(328)	5.1(2.3)	3/8(10)	1/4

◻ **Angle Sander / Angle Polisher** ◻

ZAP-882 1.3HP

7" Angle Polisher

Benefits

- Powerful motor for productivity
- Maximize operator comfort
- Lightweight with side handle for easy handing
- Excellent for buffing and polishing flat and contoured surfaces

Features

- Heavy-duty angle polisher
- 1.0 hp precision motor
- Built-in air regulator
- High quality alloy steel bevel gears with well hardened and ground
- Delivered with optional 7" Pad



ZAS-883 1.3HP

7" Angle Sander

Benefits

- Powerful motor for productivity
- Low vibrations and durability
- Lightweight with side handle for easy handing
- Perfect for weld smoothing, paint, rust and stone removal

Features

- Heavy-duty angle sander
- 1.0 hp precision motor
- Built-in air regulator
- High quality alloy steel bevel gears with well hardened and ground
- Delivered with optional 7" Pad
- Muffled rear exhaust



ZBT871-07W
7" Wool pad



ZST77152
(5/8"-11 Thread)
ZST77152-1
(M14x2 Thread)
7" Pad Hook-up



ZST87158
(5/8"-11 Thread)
ZST87158.1
(M14x2 Thread)
7" Plastic Pad



ZST870S60
(5/8"-11 Thread)
ZST870S60.1
(M14x2 Thread)
7" Rubber Backing Pad

Model	Spindle Thread	Free Speed rpm	Avg. Air Cons. cfm	Overall Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZAP-882	5/8"-11, M14x2	2500	3.8	13.6(345)	3.9(1.7)	3/8(10)	1/4
ZAS-883	5/8"-11, M14x2	4000	3.8	13.6(345)	3.9(1.7)	3/8(10)	1/4

Air Orbital Sander



ZP351 0.25HP
Non-Vacuum

3" Mini Orbital Palm Sander



ZP354-5 0.25HP Non-Vacuum
ZP354-5C Central-Vacuum
ZP354-5S Self-Generated Vacuum

5" Air Random Orbital Sander



ZP354-6 0.25HP Non-Vacuum
ZP354-6C Central-Vacuum
ZP354-6S Self-Generated Vacuum

6" Air Random Orbital Sander



ZOS-5N / ZOS-6N 0.3HP
5"/6" Non-Vac.
Random Orbital Sander



ZOS-5C / ZOS-6C 0.3HP
5"/6" Central-Vacuum
Random Orbital Sander



ZOS-5S / ZOS-6S 0.3HP
5"/6" Self-Generated
Vacuum Random Orbital Sander



ZOS-5NF / ZOS-6NF 0.3HP
5"/6" Oil-Free Non-Vac.
Random Orbital Sander



ZOS-5CF / ZOS-6CF 0.3HP
5"/6" Oil-Free Central-Vacuum
Random Orbital Sander



ZOS-5SF / ZOS-6SF 0.3HP
5"/6" Oil-Free Self-Generated
Vacuum Random Orbital Sander

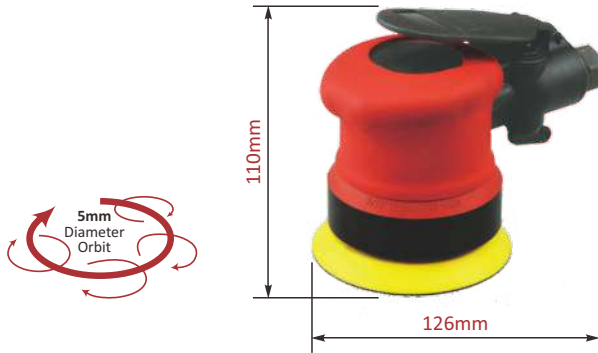
Model	Pad Size inch(mm)	Free Speed rpm	Avg. Air Cons. cfm(l/min)	Noise Level db(A)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZP351	3(76)	12000	2.5(70.8)	81	1.54(0.7)	3/8(10)	1/4
ZP354-5/6	5(127)/6(152)	12000	2.5(70.8)	82	1.8(0.8)	3/8(10)	1/4
ZP354-5C/6C	5(127)/6(152)	12000	2.5(70.8)	82	1.8(0.8)	3/8(10)	1/4
ZP354-5S/6S	5(127)/6(152)	12000	2.5(70.8)	82	1.7(0.78)	3/8(10)	1/4
ZOS-5N ZOS-5C ZOS-5S	5(127)	12000	6(170)	83	1.86(0.84) 2.01(0.91) 2.01(0.91)	3/8(10)	1/4
ZOS-6N ZOS-6C ZOS-6S	6(152)	12000	6(170)	83	1.97(0.89) 2.12(0.96) 2.12(0.96)	3/8(10)	1/4
ZOS-5NF ZOS-5CF ZOS-5SF	5(127)	12000	6(170)	83	1.61(0.73) 1.77(0.8) 1.77(0.8)	3/8(10)	1/4
ZOS-6NF ZOS-6CF ZOS-6SF	6(152)	12000	6(170)	83	1.72(0.78) 1.88(0.85) 1.88(0.85)	3/8(10)	1/4

• Operating Air Pressure: 90psi/6.2bar

Random Orbital Polisher

Random Orbital Polisher

- Excellent for swirl-free polishing
- Probably the best polisher in the world!



ZBT1650-03W
3" WOOL WHEEL

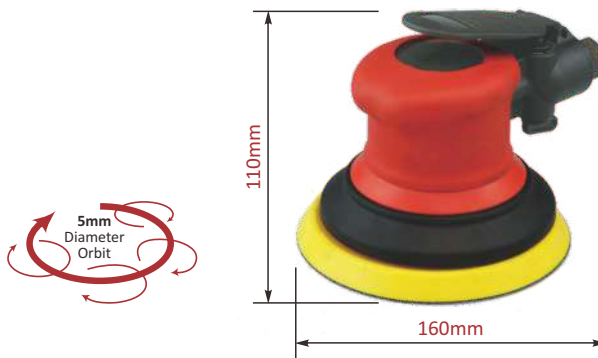


ZBT1650-03Y
3" SPONGE WHEEL



ZBT1650-03G
3" FINE GRAY
POLISHING PAD

ZOP-35 0.3HP
3" Random Orbital Polisher



ZBT1650-05W
5.5" WOOL WHEEL



ZBT1650-05Y
5.5" SPONGE WHEEL



ZBT1650-05G
5.5" FINE GRAY
POLISHING PAD

ZOP-55 0.3HP
5" Random Orbital Polisher



ZBT1650-05W
5.5" WOOL WHEEL



ZBT1650-05Y
5.5" SPONGE WHEEL



ZBT1650-05G
5.5" FINE GRAY
POLISHING PAD

ZHOP-510 0.5HP
5" Random Orbital Polisher

Model	Pad Size inch(mm)	Dia. Orbit mm	Free Speed rpm	Avg. Air Cons. cfm	Noise Level db(A)	Vibration m/s ²	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZOP-35	3(75)	5	11000	1.6	80	0.8	1.3(0.5)	3/8(10)	1/4
ZOP-55	5(125)	5	11000	1.6	80	0.8	1.5(0.7)	3/8(10)	1/4
ZHOP-510	5(125)	10	11000	3	80	0.8	2.6(1.2)	3/8(10)	1/4

Random Orbital Sanders

- Low vibration for swirl-free finishes.
- Durable, lightweight composite housing design.
- Include low profile balanced sanding pad.



2.5mm (3" 80g PAD) Random Orbital Sanders



ZOS3-214-N3

0.3HP

Non-Vacuum



ZOS3-214-C3

0.3HP

Central-Vacuum



ZOS3-214-S3

0.3HP

Self-Generated Vacuum



HB-46-2
HOSE & BAG

2.5mm Random Orbital Sanders



ZOS3-214-N5 / ZOS3-214-N6

0.3HP

Non-Vacuum



ZOS3-214-C5 / ZOS3-214-C6

0.3HP

Central-Vacuum



ZOS3-214-S5 / ZOS3-214-S6

0.3HP

Self-Generated Vacuum



HB-46-2
HOSE & BAG

5mm Random Orbital Sanders



ZOS-214-N5 / ZOS-214-N6

0.3HP

Non-Vacuum



ZOS-214-C5 / ZOS-214-C6

0.3HP

Central-Vacuum



ZOS-214-S5 / ZOS-214-S6

0.3HP

Self-Generated Vacuum



HB-46-2
HOSE & BAG

Model	Pad Size inch(mm)	Dia. Orbit inch(mm)	Free Speed rpm	Avg. Air Cons. cfm	Noise Level db(A)	Vibration m/s ²	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZOS-214-N5/C5/S5	5(125)	3/16(5)	11000	1.6	80	0.8	2(0.9)	3/8(10)	1/4
ZOS-214-N6/C6/S6	6(150)	3/16(5)	11000	1.6	80	0.8	2(0.9)	3/8(10)	1/4
ZOS3-214-N5/C5/S5	5(125)	3/32(2.5)	11000	1.6	80	0.8	2(0.9)	3/8(10)	1/4
ZOS3-214-N6/C6/S6	6(150)	3/32(2.5)	11000	1.6	80	0.8	2(0.9)	3/8(10)	1/4
ZOS3-214-N3/C3/S3	3(75)	3/32(2.5)	11000	1.6	80	0.8	1.8(0.8)	3/8(10)	1/4

Air Orbital Sander

- Low vibration for swirl-free finishes.
- Durable, lightweight composite housing design.
- Include low profile balanced sanding pad.



2.5mm Random Orbital Sanders



ZOS01-3-N5 / ZOS01-3-N6

0.3HP Non-Vacuum



ZOS01-3-C5 / ZOS01-3-C6

0.3HP Central-Vacuum



ZOS01-3-S5 / ZOS01-3-S6

0.3HP Self-Generated Vacuum



HB-46-2
HOSE & BAG

5mm Random Orbital Sanders



ZOS01-N5 / ZOS01-N6

0.3HP Non-Vacuum



ZOS01-C5 / ZOS01-C6

0.3HP Central-Vacuum



ZOS01-S5 / ZOS01-S6

0.3HP Self-Generated Vacuum



HB-46-2
HOSE & BAG

10mm Random Orbital Sanders



ZOS01-9-N5 / ZOS01-9-N6

0.3HP Non-Vacuum



ZOS01-9-C5 / ZOS01-9-C6

0.3HP Central-Vacuum



ZOS01-9-S5 / ZOS01-9-S6

0.3HP Self-Generated Vacuum



HB-46-2
HOSE & BAG

Model	Pad Size inch(mm)	Dia. Orbit inch(mm)	Free Speed rpm	Avg. Air Cons. cfm	Noise Level db(A)	Vibration m/s ²	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZOS01-N5/C5/S5	5(125)	3/16(5)	11000	1.6	80	0.8	2(0.9)	3/8(10)	1/4
ZOS01-N6/C6/S6	6(150)	3/16(5)	11000	1.6	80	0.8	2(0.9)	3/8(10)	1/4
ZOS01-3-N5/C5/S5	5(125)	3/32(2.5)	11000	1.6	80	0.8	2(0.9)	3/8(10)	1/4
ZOS01-3-N6/C6/S6	6(150)	3/32(2.5)	11000	1.6	80	0.8	2(0.9)	3/8(10)	1/4
ZOS01-9-N5/C5/S5	5(125)	3/8(10)	11000	1.6	80	0.8	2(0.9)	3/8(10)	1/4
ZOS01-9-N6/C6/S6	6(150)	3/8(10)	11000	1.6	80	0.8	2(0.9)	3/8(10)	1/4



ZTHS-C5 / ZTHS-C6 0.5HP

Central Vacuum 2-Hand Random Orbital Sanders

Benefits

- Powerful and lightweight.
- Lube Free Design eliminates contamination of the work environment.
- 3-in-1 hose design same as FESTOOL IAS 2 Connection. supplies air, extracts dust, and provides an exhaust all through one hose.

Features

- Ergonomic housing design.
- Hardened Steel Alloy Cylinder for more durable & longevity.
- Innovative Anti-Dust Protection system.
- Lube Free Design eliminates contamination of the work environment



ZTHG-C5 / ZTHG-C6 0.5HP

Central Vacuum 2-Hand Gear-Driven Sanders

Benefits

- Powerful and lightweight.
- 900 rpm motor produces excellent low speed torque.
- Unique epicycloidal pad motion generates torque-enhanced power, for consistent material removal.
- Lube Free Design eliminates contamination of the work environment.
- 3-in-1 hose design same as FESTOOL IAS 2 Connection. supplies air, extracts dust, and provides an exhaust all through one hose.

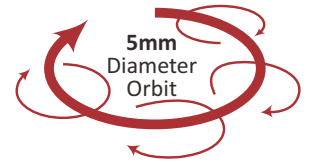
Features

- Long handle design for easy two-handed control.
- High quality alloy steel of gear driven gear with precision teeth design for durable tool life.
- Speed control lever is conveniently located for easy thumb adjustment.
- 3-in-1 hose design same as FESTOOL IAS 2 Connection.

Model	Pad Size inch(mm)	Dia. Orbit inch(mm)	Free Speed rpm	Avg. Air Cons. cfm	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZTHS-C5	5(125)	3/16(5)	10000	3	2.6(1.2)	3/8(10)	1/4
ZTHS-C6	6(150)	3/16(5)	10000	3	2.6(1.2)	3/8(10)	1/4
ZTHG-C5	5(125)	3/16(5)	900	3	3.3(1.5)	3/8(10)	1/4
ZTHG-C6	6(150)	3/16(5)	900	3	3.5(1.6)	3/8(10)	1/4

2-Hand Random Orbital Sanders

- The 2-hand handle and low vibration combined to provide superior control and flawless finishes.
- Durable lightweight composite housing design.

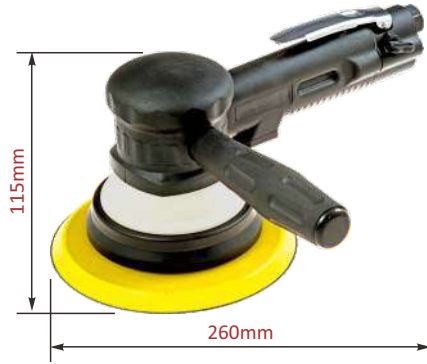


5mm 2-Hand Random Orbital Sanders



ZP347-5

0.5HP Non-Vacuum



ZP347-6

0.5HP Non-Vacuum



ZP347-C5

0.5HP Central-Vacuum



ZP347-C6

0.5HP Central-Vacuum



ZP347-S5

0.5HP Self-Generated Vacuum



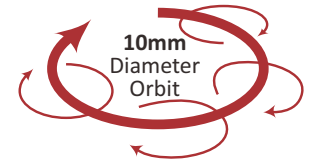
ZP348

0.5HP Self-Generated Vacuum

Model	Pad Size inch(mm)	Dia. Orbit inch(mm)	Free Speed rpm	Avg. Air Cons. cfm	Noise Level db(A)	Vibration m/s ²	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZP347-5/C5/S5	5(125)	3/16(5)	10000	3	80	0.8	2.6(1.2)	3/8(10)	1/4
ZP347-6/C6	6(150)	3/16(5)	10000	3	80	0.8	2.6(1.2)	3/8(10)	1/4
ZP348	6(150)	3/16(5)	10000	3	80	0.8	2.6(1.2)	3/8(10)	1/4

2-Hand Random Orbital Sanders

- Large orbit for removing heavy material with swirl-free finish.
- Durable lightweight composite housing design.



10mm 2-Hand Random Orbital Sanders



ZP349-5

0.5HP Non-Vacuum



ZP349-6

0.5HP Non-Vacuum



ZP349-C5

0.5HP Central-Vacuum



ZP349-C6

0.5HP Central-Vacuum



ZP349-S5

0.5HP Self-Generated Vacuum



ZP350

0.5HP Self-Generated Vacuum

Model	Pad Size inch(mm)	Dia. Orbit inch(mm)	Free Speed rpm	Avg. Air Cons. cfm	Noise Level db(A)	Vibration m/s ²	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZP349-5/C5/S5	5(125)	3/16(5)	10000	3	80	0.8	2.6(1.2)	3/8(10)	1/4
ZP349-6/C6	6(150)	3/16(5)	10000	3	80	0.8	2.6(1.2)	3/8(10)	1/4
ZP350	6(150)	3/16(5)	10000	3	80	0.8	2.6(1.2)	3/8(10)	1/4

2-Hand Gear-Driven Sanders

- The strength and power of this sander lets you remove heavy material and body filler on large, flat surfaces leaving a swirl-free finish.
- A long life, vibration-free performance

**Epicycloidal
pattern of
Gear-Driven
Orbital Sander!**

2-Hand Gear-Driven Sanders

Ø29mm or Ø33mm



ZP337-5

0.5HP Non-Vacuum



ZP337-C5

0.5HP Central-Vacuum



ZP337-S5

0.5HP Self-Generated Vacuum



ZP337-6

0.5HP Non-Vacuum



ZP337-C6

0.5HP Central-Vacuum



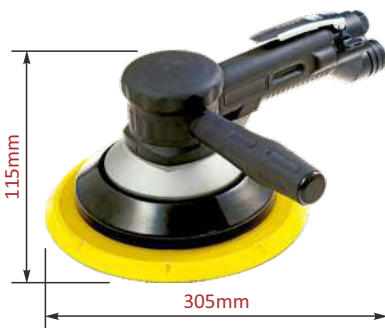
ZP337-S6

0.5HP Self-Generated Vacuum



ZGS-N8

0.5HP Non-Vacuum



ZGS-C8

0.5HP Central-Vacuum



ZGS-S8

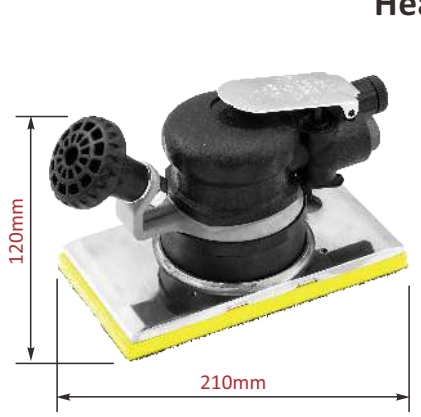
0.5HP Self-Generated Vacuum

Model	Pad Size inch(mm)	Dia. Orbit inch(mm)	Free Speed rpm	Avg. Air Cons. cfm	Noise Level db(A)	Vibration m/s ²	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZP337-5/C5/S5	5(125)	3/16(5)	900	3	82	<2.5	3.3(1.5)	3/8(10)	1/4
ZP337-6/C6/S6	6(150)	3/16(5)	900	3	82	<2.5	3.5(1.6)	3/8(10)	1/4
ZGS-N8/C8/S8	8(200)	3/16(5)	900	3	82	<2.5	3.5(1.6)	3/8(10)	1/4

Heavy Duty Jitterbug Sanders

- Smooth, reliable and powerful.
- Long lasting durability with low maintenance.
- For all types of surface preparation and rapid removal of material from large areas.

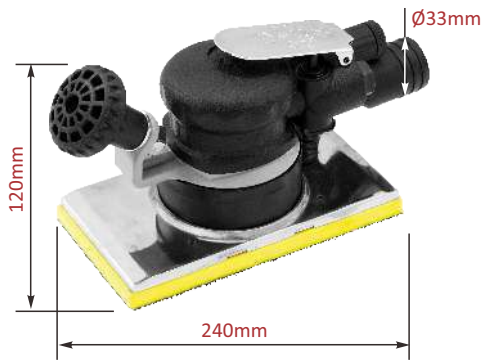
Heavy Duty Jitterbug Sanders



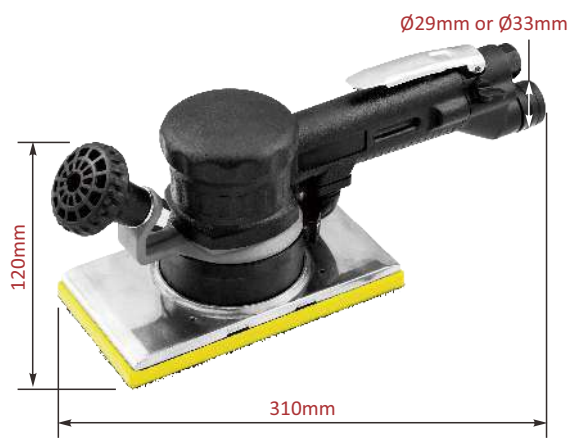
ZJS-NL4C / ZJS-NL4AC
 0.3HP Non-Vacuum Clip Type



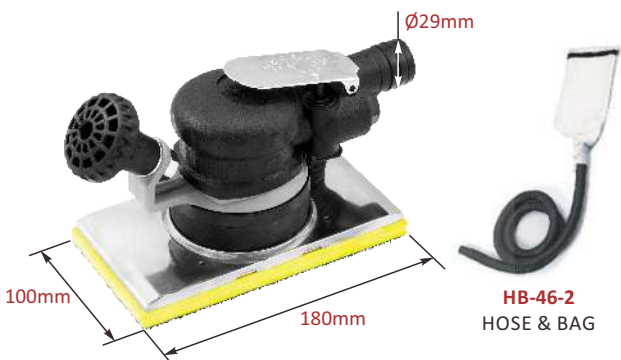
ZHS-NL4C / ZHS-NL4AC
 0.5HP Non-Vacuum Clip Type



ZJS-CL4C
 0.3HP Central-Vacuum



ZHS-CL4C
 0.5HP Central-Vacuum



ZJS-SL4C
 0.3HP Self-Generated Vacuum



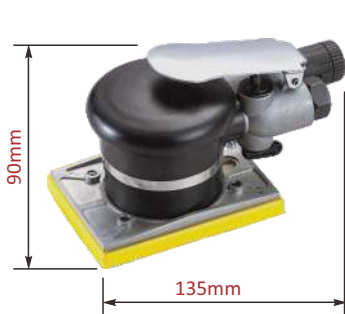
ZHS-SL4C
 0.5HP Self-Generated Vacuum

Model	Dia. Orbit inch(mm)	Free Speed rpm	Avg. Air Cons. cfm	Noise Level db(A)	Vibration m/s ²	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZJS-NL4C/NL4AC/CL4C/SL4C	1/8(3.2)	8500	1.6	80	0.8	2.6(1.2)	3/8(10)	1/4
ZHS-NL4C/NL4AC/CL4C/SL4C	3/16(5)	8500	3	80	0.8	3.3(1.5)	3/8(10)	1/4

Air Jitterbug Sanders / Delta Sanders

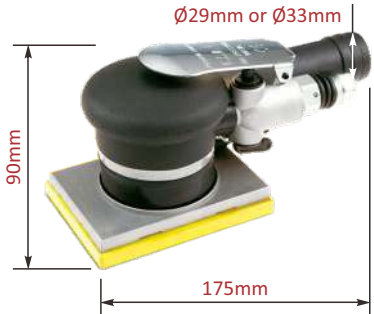
- Compact design and comfortable grip.
- Heavy-duty construction for durable operations.
- Pad size: 75mm*100mm for ZP339A, 100mm*110mm for ZOS-7511A.

Jitterbug Sanders



ZP339

0.3HP Non-Vacuum



ZP339C

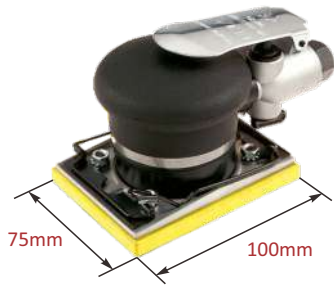
0.3HP Central-Vacuum



ZP339S

0.3HP Self-Generated Vacuum

HB-46-2 HOSE & BAG



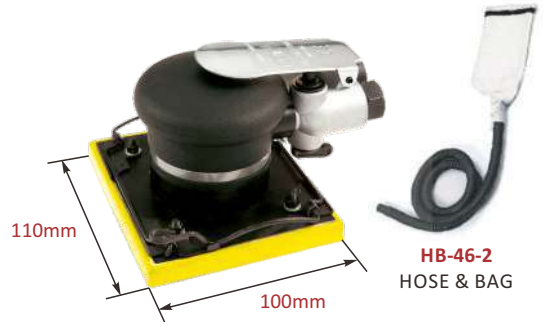
ZP339A

0.3HP Non-Vacuum



ZOS-7511

0.3HP Central-Vacuum



ZOS-7511A

0.3HP Self-Generated Vacuum

HB-46-2 HOSE & BAG

- Compact design and comfortable grip.
- Heavy-duty construction for durable operations.
- Ideal for all types of surface sanding, polishing and scrubbing.

Delta Sanders



ZP338

0.3HP Non-Vacuum



ZP338C

0.3HP Central-Vacuum



ZP338S

0.3HP Self-Generated Vacuum

HB-46-2 HOSE & BAG

Model	Dia. Orbit inch(mm)	Free Speed rpm	Avg. Air Cons. cfm	Noise Level db(A)	Vibration m/s ²	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZP339/339C/339S/339A	1/8(3.2)	10000	1.6	80	0.8	1.5(0.7)	3/8(10)	1/4
ZOS-7511/7511A	1/8(3.2)	10000	1.6	80	0.8	1.5(0.7)	3/8(10)	1/4
ZP338/338C/338S	1/8(3.2)	10000	1.6	80	0.8	1.5(0.7)	3/8(10)	1/4

Air Jitterbug Sanders

- Smooth, reliable and powerful.
- Long lasting durability with low maintenance.
- For all types of surface preparation and rapid removal of material from large areas.

2-Hand Gear-Driven Sanders



ZOS-927

0.3HP Non-Vacuum

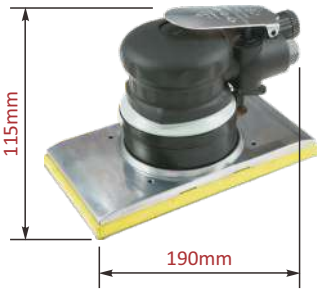


ZOS-927A

0.3HP Non-Vacuum Clip Type



10mm Dia. Orbit Motion



ZP356 / ZP356A

0.3HP Non-Vacuum Clip Type



ZP356C

0.3HP Central-Vacuum



ZP356S

0.3HP Self-Generated Vacuum



ZHS-NL4 / ZHS-NL4A

0.5HP Non-Vacuum Clip Type



ZHS-CL4

0.5HP Central-Vacuum

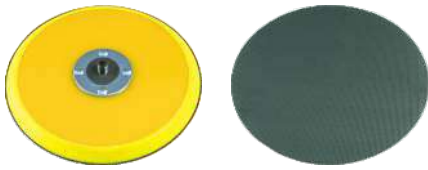


ZHS-SL4

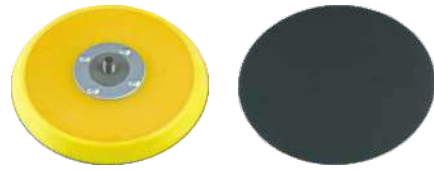
0.5HP Self-Generated Vacuum

Model	Dia. Orbit inch(mm)	Free Speed rpm	Avg. Air Cons. cfm	Noise Level db(A)	Vibration m/s ²	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZOS-927/927A	1/8(3.2)	8500	1.6	80	0.8	2.4(1.1)	3/8(10)	1/4
ZP356/356A	1/8(3.2)	8500	1.6	80	0.8	2.6(1.2)	3/8(10)	1/4
ZP356C	1/8(3.2)	8500	1.6	80	0.8	2.6(1.2)	3/8(10)	1/4
ZP356S	1/8(3.2)	8500	1.6	80	0.8	2.6(1.2)	3/8(10)	1/4
ZHS-NL4/NL4A	3/16(5)	7500	3.1	80	0.8	3.3(1.5)	3/8(10)	1/4
ZHS-CL4	3/16(5)	7500	3.1	80	0.8	3.3(1.5)	3/8(10)	1/4
ZHS-SL4	3/16(5)	7500	3.1	80	0.8	3.3(1.5)	3/8(10)	1/4

◀ Air Sander Accessories ▶



ZBTOB-38-6V0Y-T10
6" PAD Hook-up (No-Hole)



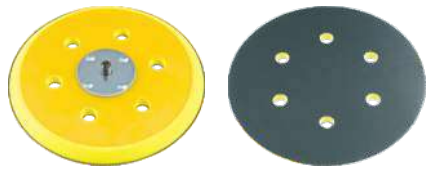
ZBTOB-38-5V0Y-T10
5" PAD Hook-up (No-Hole)



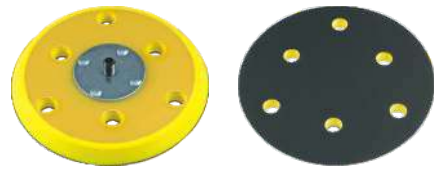
ZBTOB-38-6P0Y-T10
6" PAD PSA (No-Hole)



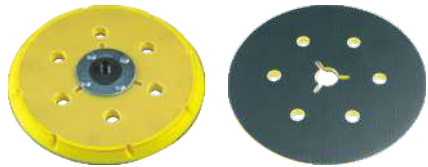
ZBTOB-38-5P0Y-T10
5" PAD PSA (No-Hole)



ZBTOB-38-6V6Y-T10
6" PAD Hook-up (6-Hole)



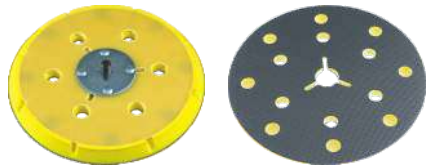
ZBTOB-38-5V6Y-T10
5" PAD Hook-up (6-Hole)



ZBTOB-38-6V7Y-T10
6" PAD Hook-up (7-Hole)



ZBTOB-38-5V7Y-T10
5" PAD Hook-up (7-Hole)



ZBTOB-38-6V15Y-T10
6" PAD Hook-up (15-Hole)



ZBTOB-38-3V0Y-W80
3" PAD Hook-up (No-Hole)

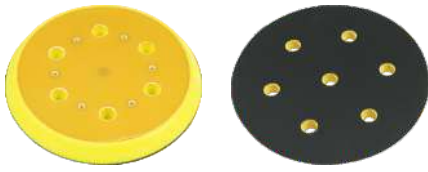


ZBTOB-38-3V0Y-W30
3" PAD Hook-up (No-Hole)

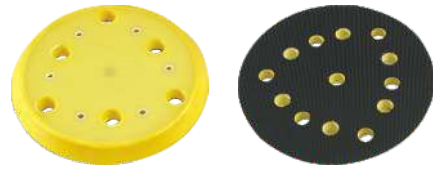


ZBTOB-38-3V3Y-W80
3" PAD Hook-up (3-Hole)

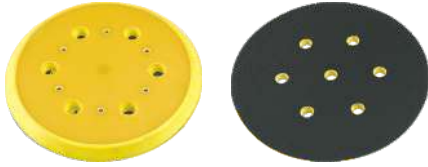
Air Sander Accessories



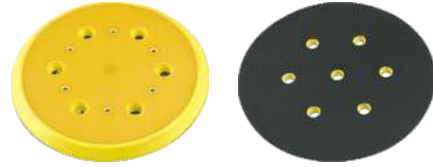
ZBT2HG-51-5V0Y
5" PAD Hook-up (No-Hole)



ZBT2HG-51-5V6Y
5" PAD Hook-up (6-Hole)



ZBT2HG-51-6V0Y
6" PAD Hook-up (No-Hole)



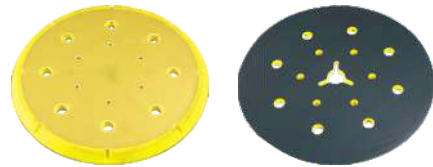
ZBT2HG-51-6P0Y
6" PAD PSA (No-Hole)



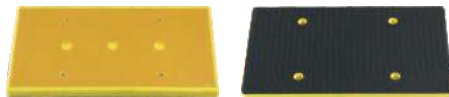
ZBT2HG4-49-6V7Y
6" PAD Hook-up (7-Hole)



ZBT2HG4-49-8V0Y
8" PAD Hook-up (No-Hole)



ZBT2HG4-49-8V9Y
8" PAD Hook-up (9-Hole)



ZBTL4-40V-100*180-Y
Hook-up (No-Hole)
95mm x 175mm PAD



ZBTL4-40P-100*180-Y
PSA (No-Hole)
95mm x 175mm PAD

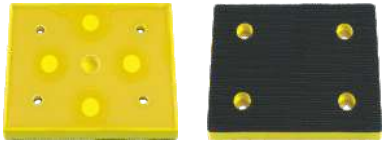


ZBTL4-40V-100*180-Y-3*2*3
Hook-up (8-Hole)
95mm x 175mm PAD

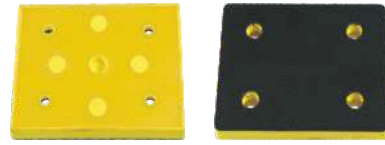


ZBTL4-40V-100*180-Y-4*4
Hook-up (8-Hole)
95mm x 175mm PAD

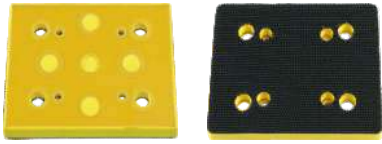
Air Sander Accessories



ZBT81339V-75*100-Y
Hook-up (No-Hole)
75mm x 100mm PAD



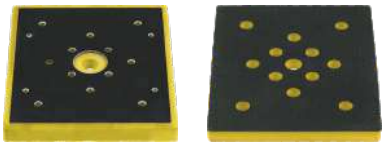
ZBT81339P-75*100-Y
PSA (No-Hole)
75mm x 100mm PAD



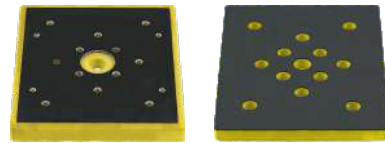
ZBT813S37V-75*100-Y
Hook-up (4-Hole)
75mm x 100mm PAD



ZBT813S37P-75*100-Y
PSA (4-Hole)
75mm x 100mm PAD



ZBT81438V-97*109-Y
Hook-up (No-Hole)
100mm x 110mm PAD



ZBT81438P-97*109-Y
PSA (No-Hole)
100mm x 110mm PAD



ZBT81539V-Y
Hook-up (No-Hole)
ZBT81539P-Y
PSA (No-Hole)
75mm x 100mm PAD



ZBT815S41-V-Y
Hook-up (No-Hole)
75mm x 100mm PAD



ZBT81642V-100*110*1.5-YV-100*110-Y
Hook-up (No-Hole)
100mm x 110mm PAD(PSA)



ZBT81642P-100*110*1.5-Y(PSA)
PSA (No-Hole)
100mm x 110mm PAD(PSA)

◻ Air Sander Accessories ◻



Sandpaper (75mm x 100mm)

- | | |
|-----------------|------------------|
| ZP-813-4-0-80# | ZP-813-4-0-400# |
| ZP-813-4-0-100# | ZP-813-4-0-600# |
| ZP-813-4-0-120# | ZP-813-4-0-800# |
| ZP-813-4-0-150# | ZP-813-4-0-1000# |
| ZP-813-4-0-180# | ZP-813-4-0-1200# |
| ZP-813-4-0-240# | ZP-813-4-0-1500# |
| ZP-813-4-0-320# | |



Sandpaper (75mm x 100mm)

- | | |
|-----------------|------------------|
| ZP-813-4-4-80# | ZP-813-4-4-400# |
| ZP-813-4-4-100# | ZP-813-4-4-600# |
| ZP-813-4-4-120# | ZP-813-4-4-800# |
| ZP-813-4-4-150# | ZP-813-4-4-1000# |
| ZP-813-4-4-180# | ZP-813-4-4-1200# |
| ZP-813-4-4-240# | ZP-813-4-4-1500# |
| ZP-813-4-4-320# | |



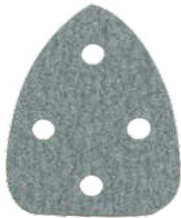
Sandpaper (100mm x 110mm)

- | | |
|-----------------|------------------|
| ZP-814-4-0-80# | ZP-814-4-0-400# |
| ZP-814-4-0-100# | ZP-814-4-0-600# |
| ZP-814-4-0-120# | ZP-814-4-0-800# |
| ZP-814-4-0-150# | ZP-814-4-0-1000# |
| ZP-814-4-0-180# | ZP-814-4-0-1200# |
| ZP-814-4-0-240# | ZP-814-4-0-1500# |
| ZP-814-4-0-320# | |



Sandpaper (75mm x 100mm)

- | | |
|-----------------|------------------|
| ZP-815-3-0-80# | ZP-815-3-0-400# |
| ZP-815-3-0-100# | ZP-815-3-0-600# |
| ZP-815-3-0-120# | ZP-815-3-0-800# |
| ZP-815-3-0-150# | ZP-815-3-0-1000# |
| ZP-815-3-0-180# | ZP-815-3-0-1200# |
| ZP-815-3-0-240# | ZP-815-3-0-1500# |
| ZP-815-3-0-320# | |



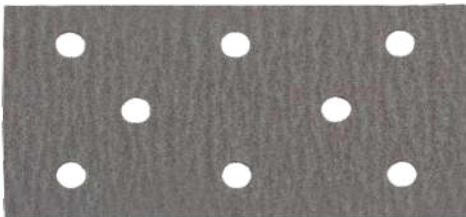
Sandpaper (75mm x 100mm)

- | | |
|-----------------|------------------|
| ZP-815-3-4-80# | ZP-815-3-4-400# |
| ZP-815-3-4-100# | ZP-815-3-4-600# |
| ZP-815-3-4-120# | ZP-815-3-4-800# |
| ZP-815-3-4-150# | ZP-815-3-4-1000# |
| ZP-815-3-4-180# | ZP-815-3-4-1200# |
| ZP-815-3-4-240# | ZP-815-3-4-1500# |
| ZP-815-3-4-320# | |



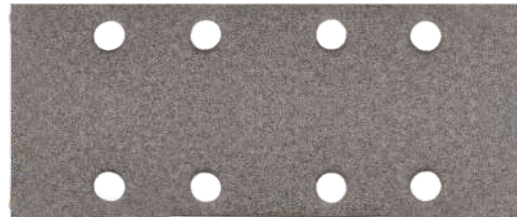
Sandpaper (95mm x 175mm)

- | | |
|----------------|-----------------|
| ZP-L4-4-0-80# | ZP-L4-4-0-400# |
| ZP-L4-4-0-100# | ZP-L4-4-0-600# |
| ZP-L4-4-0-120# | ZP-L4-4-0-800# |
| ZP-L4-4-0-150# | ZP-L4-4-0-1000# |
| ZP-L4-4-0-180# | ZP-L4-4-0-1200# |
| ZP-L4-4-0-240# | ZP-L4-4-0-1500# |
| ZP-L4-4-0-320# | |



Sandpaper (95mm x 175mm)

- | | |
|------------------|-------------------|
| ZP-L4-3X2X3-80# | ZP-L4-3X2X3-320# |
| ZP-L4-3X2X3-100# | ZP-L4-3X2X3-600# |
| ZP-L4-3X2X3-120# | ZP-L4-3X2X3-800# |
| ZP-L4-3X2X3-150# | ZP-L4-3X2X3-1000# |
| ZP-L4-3X2X3-180# | ZP-L4-3X2X3-1200# |
| ZP-L4-3X2X3-240# | ZP-L4-3X2X3-1500# |

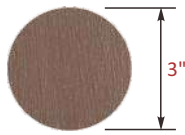


Sandpaper (95mm x 175mm)

- | | |
|----------------|-----------------|
| ZP-L4-4x4-80# | ZP-L4-4x4-400# |
| ZP-L4-4x4-100# | ZP-L4-4x4-600# |
| ZP-L4-4x4-120# | ZP-L4-4x4-800# |
| ZP-L4-4x4-150# | ZP-L4-4x4-1000# |
| ZP-L4-4x4-180# | ZP-L4-4x4-1200# |
| ZP-L4-4x4-240# | ZP-L4-4x4-1500# |
| ZP-L4-4x4-320# | |

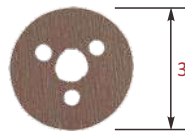
Feature & Benefit

- Premium P-graded, heat-treated aluminum oxide abrasive for superior life, fast cut rate, and consistent finish.
- Unique fiber-reinforced, B-wt latex-saturated backing provides a 50-60% improvement in tear strength.
- Flexible; can be used wet.
- Water-based stearate, non-pigmented, No-Fil coating provides maximum load resistance and extended life with no color transfer to work.
- Typical applications include preparing primed and painted surfaces for finishing, stripping primer and paint, sanding plastic and fiberglass, and bare wood sanding.



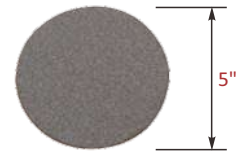
Sandpaper (3")

- | | |
|-----------------|------------------|
| ZP-ZOS-3X0-80# | ZP-ZOS-3X0-400# |
| ZP-ZOS-3X0-100# | ZP-ZOS-3X0-600# |
| ZP-ZOS-3X0-120# | ZP-ZOS-3X0-800# |
| ZP-ZOS-3X0-150# | ZP-ZOS-3X0-1000# |
| ZP-ZOS-3X0-180# | ZP-ZOS-3X0-1200# |
| ZP-ZOS-3X0-240# | ZP-ZOS-3X0-1500# |
| ZP-ZOS-3X0-320# | |



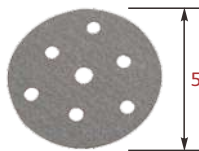
Sandpaper (3")

- | | |
|-----------------|------------------|
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| ZP-ZOS-3X4-100# | ZP-ZOS-3X4-600# |
| ZP-ZOS-3X4-120# | ZP-ZOS-3X4-800# |
| ZP-ZOS-3X4-150# | ZP-ZOS-3X4-1000# |
| ZP-ZOS-3X4-180# | ZP-ZOS-3X4-1200# |
| ZP-ZOS-3X4-240# | ZP-ZOS-3X4-1500# |
| ZP-ZOS-3X4-320# | |



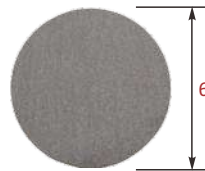
Sandpaper (5")

- | | |
|-----------------|------------------|
| ZP-ZOS-5X0-80# | ZP-ZOS-5X0-400# |
| ZP-ZOS-5X0-100# | ZP-ZOS-5X0-600# |
| ZP-ZOS-5X0-120# | ZP-ZOS-5X0-800# |
| ZP-ZOS-5X0-150# | ZP-ZOS-5X0-1000# |
| ZP-ZOS-5X0-180# | ZP-ZOS-5X0-1200# |
| ZP-ZOS-5X0-240# | ZP-ZOS-5X0-1500# |
| ZP-ZOS-5X0-320# | |



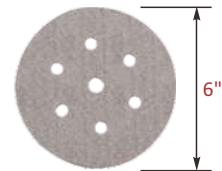
Sandpaper (5")

- | | |
|-----------------|------------------|
| ZP-ZOS-5X7-80# | ZP-ZOS-5X7-400# |
| ZP-ZOS-5X7-100# | ZP-ZOS-5X7-600# |
| ZP-ZOS-5X7-120# | ZP-ZOS-5X7-800# |
| ZP-ZOS-5X7-150# | ZP-ZOS-5X7-1000# |
| ZP-ZOS-5X7-180# | ZP-ZOS-5X7-1200# |
| ZP-ZOS-5X7-240# | ZP-ZOS-5X7-1500# |
| ZP-ZOS-5X7-320# | |



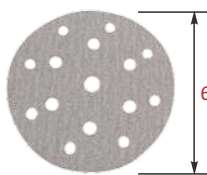
Sandpaper (6")

- | | |
|-----------------|------------------|
| ZP-ZOS-6X0-80# | ZP-ZOS-6X0-400# |
| ZP-ZOS-6X0-100# | ZP-ZOS-6X0-600# |
| ZP-ZOS-6X0-120# | ZP-ZOS-6X0-800# |
| ZP-ZOS-6X0-150# | ZP-ZOS-6X0-1000# |
| ZP-ZOS-6X0-180# | ZP-ZOS-6X0-1200# |
| ZP-ZOS-6X0-240# | ZP-ZOS-6X0-1500# |
| ZP-ZOS-6X0-320# | |



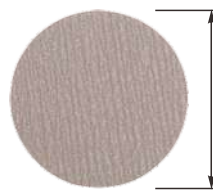
Sandpaper (6")

- | | |
|-----------------|------------------|
| ZP-ZOS-6X7-80# | ZP-ZOS-6X7-400# |
| ZP-ZOS-6X7-100# | ZP-ZOS-6X7-600# |
| ZP-ZOS-6X7-120# | ZP-ZOS-6X7-800# |
| ZP-ZOS-6X7-150# | ZP-ZOS-6X7-1000# |
| ZP-ZOS-6X7-180# | ZP-ZOS-6X7-1200# |
| ZP-ZOS-6X7-240# | ZP-ZOS-6X7-1500# |
| ZP-ZOS-6X7-320# | |



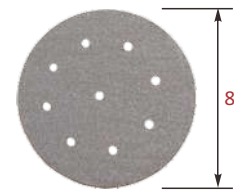
Sandpaper (6")

- | | |
|------------------|-------------------|
| ZP-ZOS-6X15-80# | ZP-ZOS-6X15-400# |
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| ZP-ZOS-6X15-120# | ZP-ZOS-6X15-800# |
| ZP-ZOS-6X15-150# | ZP-ZOS-6X15-1000# |
| ZP-ZOS-6X15-180# | ZP-ZOS-6X15-1200# |
| ZP-ZOS-6X15-240# | ZP-ZOS-6X15-1500# |
| ZP-ZOS-6X15-320# | |



Sandpaper (8")

- | | |
|-----------------|------------------|
| ZP-ZOS-8X0-80# | ZP-ZOS-8X0-400# |
| ZP-ZOS-8X0-100# | ZP-ZOS-8X0-600# |
| ZP-ZOS-8X0-120# | ZP-ZOS-8X0-800# |
| ZP-ZOS-8X0-150# | ZP-ZOS-8X0-1000# |
| ZP-ZOS-8X0-180# | ZP-ZOS-8X0-1200# |
| ZP-ZOS-8X0-240# | ZP-ZOS-8X0-1500# |
| ZP-ZOS-8X0-320# | |



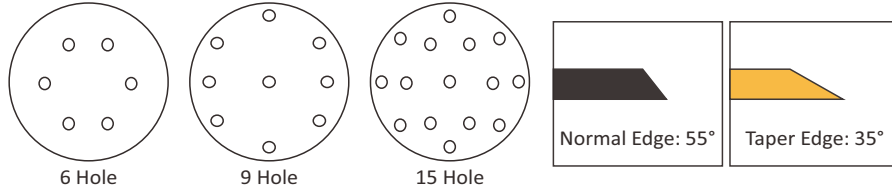
Sandpaper (8")

- | | |
|-----------------|------------------|
| ZP-HG4-8X9-80# | ZP-HG4-8X9-400# |
| ZP-HG4-8X9-100# | ZP-HG4-8X9-600# |
| ZP-HG4-8X9-120# | ZP-HG4-8X9-800# |
| ZP-HG4-8X9-150# | ZP-HG4-8X9-1000# |
| ZP-HG4-8X9-180# | ZP-HG4-8X9-1200# |
| ZP-HG4-8X9-240# | ZP-HG4-8X9-1500# |
| ZP-HG4-8X9-320# | |

Anti-Vibration Pads

VELCRO

12000 rpm maximum, 5/16"-24 male thread



Model	Description	Thickness	Weight	Color
ZY-Q60-V/ZB-Q60-V	0 Hole	3/8"	130g/120g	Yellow/Black
ZY-Q66-V/ZB-Q66-V	6 Holes	3/8"	130g/120g	Yellow/Black
ZY-S66-V/ZB-S66-V	6 Holes Taper	3/8"	130g/120g	Yellow/Black
ZY-T609-V/ZB-T609-V	9 Holes	1/2"	130g/120g	Yellow/Black
ZY-T69-V/ZB-T69-V	15 Holes	1/2"	130g/120g	Yellow/Black



Model	Description	Thickness	Weight	Color
ZY-Q50-V/ZB-Q50-V	0 Hole	3/8"	130g/95g	Yellow/Black
ZY-Q55-V/ZB-Q55-V	5 Holes	3/8"	130g/95g	Yellow/Black
ZY-Q56-V/ZB-Q56-V	6 Holes	3/8"	130g/95g	Yellow/Black
ZY-Q57-V/ZB-Q57-V	7 Holes	3/8"	130g/95g	Yellow/Black



Model	Description	Thickness	Thread	Weight	Color
ZY-Q30-V6/ZB-Q30-V6	0 Hole	3/8"	M6	35g/25g	Yellow/Black
ZY-B30-V8/ZB-Q30-V8	0 Hole	3/8"	M8	35g/25g	Yellow/Black
ZB-T30-V	0 Hole	5/8"	M8	80g	Black



Model	Description	Thickness	Thread	Weight	Color
ZY-Q20-V6/ZB-Q20-V6	0 Hole	3/8"	M6	25g	Yellow/Black
ZY-Q20-V8/ZB-Q20-V8	0 Hole	3/8"	M8	25g	Yellow/Black

SUPER SOFT

6000 rpm maximum

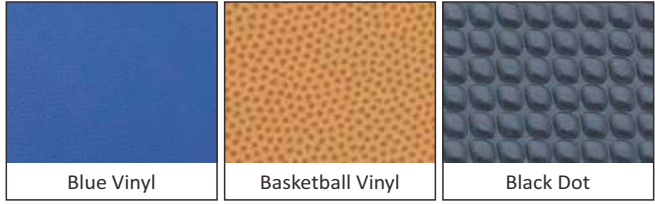


Model	Description	Thickness	Weight	Color
ZO-Q66-V	6" 6 Holes	3/8"	130g/120g	Orange
ZO-S66-V	6" 6 Holes Taper	3/8"	130g/120g	Orange
ZO-Q50-V	5" 0 Hole	3/8"	130g/95g	Orange

Anti-Vibration Pads

PSA

12000 rpm maximum, 5/16"-24 male thread



Model	Description	Thickness	Weight	Color
ZY-Q60-P/ZB-Q60-P	0 Hole Blue Vinyl	3/8"	130g/120g	Yellow/Black
ZY-Q60-C/ZB-Q60-C	0 Hole Basketball Vinyl	3/8"	130g/120g	Yellow/Black
ZY-Q60-D/ZB-Q60-D	0 Hole Black Vinyl	3/8"	130g/120g	Yellow/Black



Model	Description	Thickness	Weight	Color
ZY-Q50-P/ZB-Q50-P	0 Hole Blue Vinyl	3/8"	130g/95g	Yellow/Black
ZY-Q50-C/ZB-Q50-C	0 Hole Basketball Vinyl	3/8"	130g/95g	Yellow/Black
ZY-Q50-D/ZB-Q50-D	0 Hole Black Vinyl	3/8"	130g/95g	Yellow/Black



Model	Description	Thickness	Thread	Weight	Color
ZY-Q30-P6/ZB-Q30-P6	0 Hole Blue Vinyl	3/8"	M6	35g/25g	Yellow/Black
ZY-Q30-P8/ZB-Q30-P8	0 Hole Blue Vinyl	3/8"	M8	35g/25g	Yellow/Black
ZY-Q30-C6/ZB-Q30-C6	0 Hole Basketball Vinyl	3/8"	M6	35g/25g	Yellow/Black
ZY-Q30-C8/ZB-Q30-C8	0 Hole Basketball Vinyl	3/8"	M8	35g/25g	Yellow/Black



Model	Description	Thickness	Thread	Weight	Color
ZY-Q20-P6/ZB-Q20-P6	0 Hole Blue Vinyl	3/8"	M6	25g	Yellow/Black
ZY-Q20-P8/ZB-Q20-P8	0 Hole Blue Vinyl	3/8"	M8	25g	Yellow/Black
ZY-Q20-C6/ZB-Q20-C6	0 Hole Basketball Vinyl	3/8"	M6	25g	Yellow/Black
ZY-Q20-C8/ZB-Q20-C8	0 Hole Basketball Vinyl	3/8"	M8	25g	Yellow/Black

SUPER SOFT
6000 rpm maximum

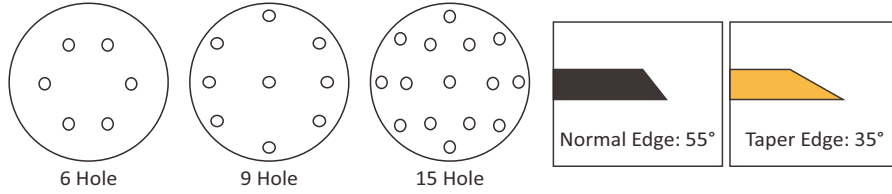
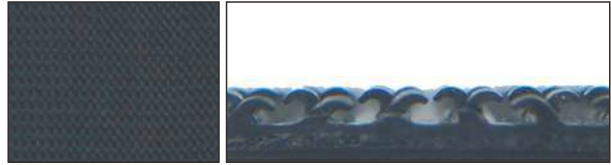


Model	Description	Thickness	Weight	Color
ZO-Q60-P	6" 0 Hole Blue Vinyl	3/8"	130g/120g	Orange
ZO-Q50-P	5" 0 Hole Blue Vinyl	3/8"	130g/95g	Orange
ZO-Q60-C	6" 0 Hole Basketball Vinyl	3/8"	130g/120g	Orange
ZO-Q50-C	5" 0 Hole Basketball Vinyl	3/8"	130g/95g	Orange
ZO-Q60-D	6" 0 Hole Black Vinyl	3/8"	130g/120g	Orange
ZO-Q50-D	5" 0 Hole Black Vinyl	3/8"	130g/95g	Orange

Anti-Vibration Pads

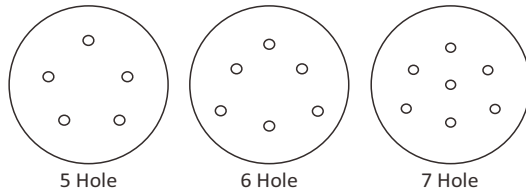
SHORT NAP

12000 rpm maximum, 5/16"-24 male thread



6" (152mm)

Model	Description	Thickness	Weight	Color
ZY-Q60-E/ZB-Q60-E	0 Hole	3/8"	130g/120g	Yellow/Black
ZY-Q66-E/ZB-Q66-E	6 Holes	3/8"	130g/120g	Yellow/Black
ZY-S66-SV/ZB-S66-SV	6 Holes Taper	3/8"	130g/120g	Yellow/Black
ZY-T609-E/ZB-T609-E	9 Holes	1/2"	130g/120g	Yellow/Black
ZY-T69-E/ZB-T69-E	15 Holes	1/2"	130g/120g	Yellow/Black



5" (125mm)

Model	Description	Thickness	Weight	Color
ZY-Q50-E/ZB-Q50-E	0 Hole	3/8"	130g/95g	Yellow/Black
ZY-Q55-E/ZB-Q55-E	5 Holes	3/8"	130g/95g	Yellow/Black
ZY-Q56-E/ZB-Q56-E	6 Holes	3/8"	130g/95g	Yellow/Black
ZY-Q57-E/ZB-Q57-E	7 Holes	3/8"	130g/95g	Yellow/Black



3" (75mm)

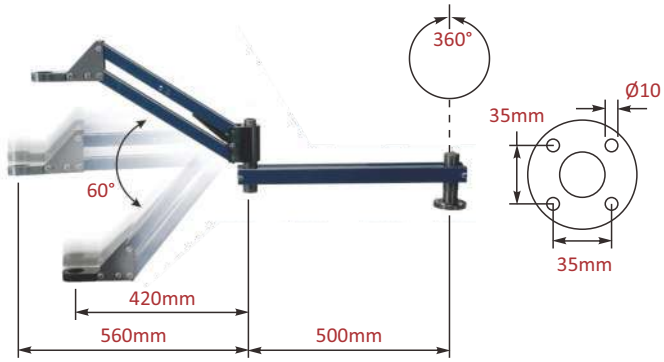
Model	Description	Thickness	Thread	Weight	Color
ZY-Q30-E6/ZB-Q30-E6	0 Hole	3/8"	M6	35g/25g	Yellow/Black
ZY-Q30-E8/ZB-Q30-E8	0 Hole	3/8"	M8	35g/25g	Yellow/Black



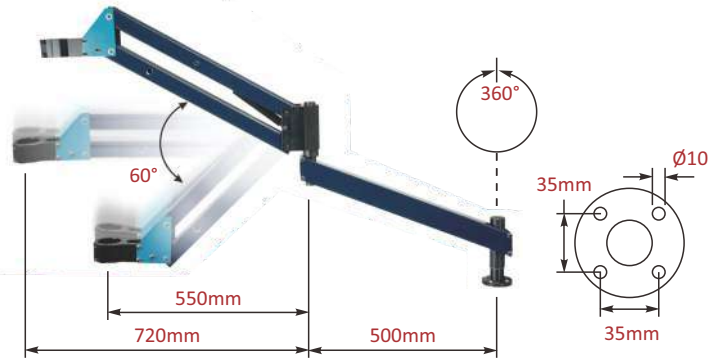
2" (48mm)

Model	Description	Thickness	Thread	Weight	Color
ZY-Q20-E6/ZB-Q20-E6	0 Hole	3/8"	M6	25g	Yellow/Black
ZY-Q20-E8/ZB-Q20-E8	0 Hole	3/8"	M8	25g	Yellow/Black

Robot Arm / Air Tapping Tools

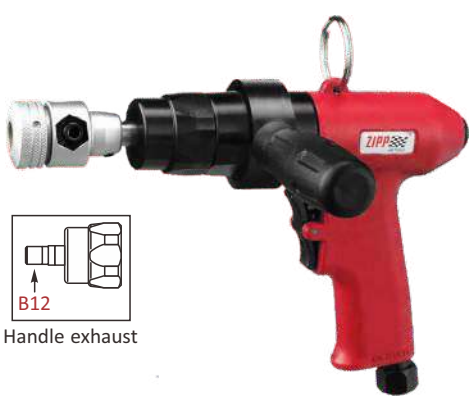


RB27
Robot Arm



RB35
Robot Arm

Model	Clamping Jaw	Tool Diameter mm	Net Weight lbs(kgs)
RB27		38/44	13(5.89)
RB35		56.6	23.7(10.75)



ZAT22AKH
3/8" Air Tapping Tool



ZAT415B2
3/8" Air Tapping Tool



ZAT712AKI
3/8" Air Tapping Tool

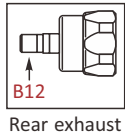
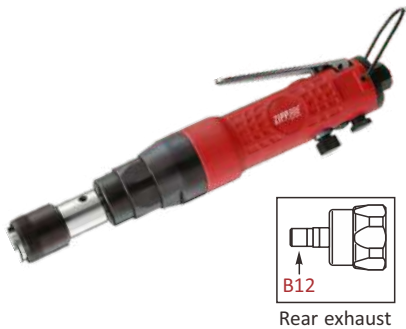
Model	Tapping Capacity		Free Speed rpm	Avg. Air Cons. cfm(l/min)	Overall Length inch(mm)	Noise Level db(A)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT
	Aluminum/mm	Iron/mm						
ZAT22AKH	3-12	3-8	150	6.5(184)	7.87(200)	82	3.79(1.72)	1/4
ZAT415B2	1-3	1-3	1000	5(141)	11.02(280)	77	1.63(0.74)	1/4
ZAT712AKI	6-12	6-8	150	7(198)	9.65(245)	82	3.9(1.77)	1/4

• Specification (air pressure at 90psi, 6.2bar, 6.3kg/cm²)

Air Tapping Tools



ZAT22AK
Air Tapping Tool



ZAT19AK / ZAT23AK
Air Tapping Tool



Please specify tapping tool code & chuck standard while ordering.

Air Tapping Tool Order Code Reference			
Model	ZAT22AK	ZAT19AK	ZAT23AK
Size	Order Code		
M2		ZAT19AK-2	
M3	ZAT22AK-3	ZAT19AK-3	ZAT23AK-3
M4	ZAT22AK-4	ZAT19AK-4	ZAT23AK-4
M5	ZAT22AK-5	ZAT19AK-5	ZAT23AK-5
M6	ZAT22AK-6	ZAT19AK-6	ZAT23AK-6
M8	ZAT22AK-8	ZAT19AK-8	ZAT23AK-8
M10	ZAT22AK-10		ZAT23AK-10
M12	ZAT22AK-12		ZAT23AK-12

NOTICE:

When different sizes or standard chucks are needed, please refer to the chuck standards and size list and note on the purchase order, otherwise, the chuck will be JIS.

Chuck standards and size list												
FOR TAP	JIS			ISO			DIN 371			DIN 376		
Thread	∅d	<input type="checkbox"/>	Order Code	∅d	<input type="checkbox"/>	Order Code	∅d	<input type="checkbox"/>	Order Code	∅d	<input type="checkbox"/>	Order Code
M2	3	2.5	TCJISM2									
M3	4	3.2	TCJISM3	3.15	2.5	TCISOM3	3.5	2.7	TCDIN371M3	2.2	–	TCDIN376M3
M4	5	4	TCJISM4	4	3.15	TCISOM4	4.5	3.4	TCDIN371M4	2.8	2.1	TCDIN376M4
M5	5.5	4.5	TCJISM5	5	4	TCISOM5	6	4.9	TCDIN371M5	3.5	2.7	TCDIN376M5
M6	6	4.5	TCJISM6	6.3	5	TCISOM6	6	4.9	TCDIN371M6	4.5	3.4	TCDIN376M6
M8	6.2	5	TCJISM8	8	6.3	TCISOM8	8	6.2	TCDIN371M8	6	4.9	TCDIN376M8
M10	7	5.5	TCJISM10	10	8	TCISOM10	10	8	TCDIN371M10	7	5.5	TCDIN376M10
M12	8.5	6.5	TCJISM12	9	7.1	TCISOM12				9	/	TCDIN376M12
FOR TAP	JIS											
Thread	∅d	<input type="checkbox"/>	Order Code									
1/2"	9.322	6.985	TCANSIW1/2									

Model	Tapping Capacity		Free Speed rpm	Avg. Air Cons. cfm(l/min)	Overall Length inch(mm)	Noise Level db(A)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT
	Aluminum/mm	Iron/mm						
ZAT22AK	3-12	3-8	150	6.5(184)	10.04(255)	82	3.81(1.73)	1/4
ZAT19AK	2-8	2-4	350	8(226)	11.42(290)	87	3.7(1.68)	1/4
ZAT23AK	3-12	3-10	100	8(226)	12.2(310)	87	4.1(1.86)	1/4

● Specification(air pressure at 90psi, 6.2bar, 6.3kg/cm²)

Adjustable Torque Tapping Chuck

★★★★★★
Patented
— PRODUCT —

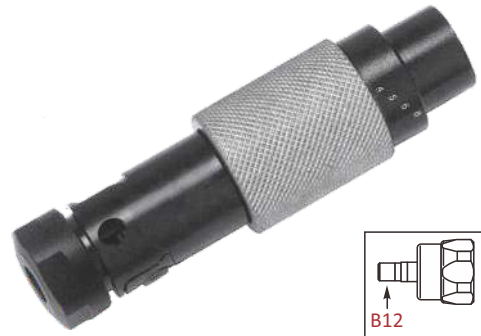


JIS, ISO, DIN371, DIS376, ANSI all standards chuck and sizes can using

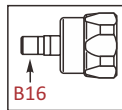
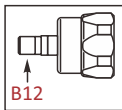


For { Drilling Machine
Electric Drill
Air Drill

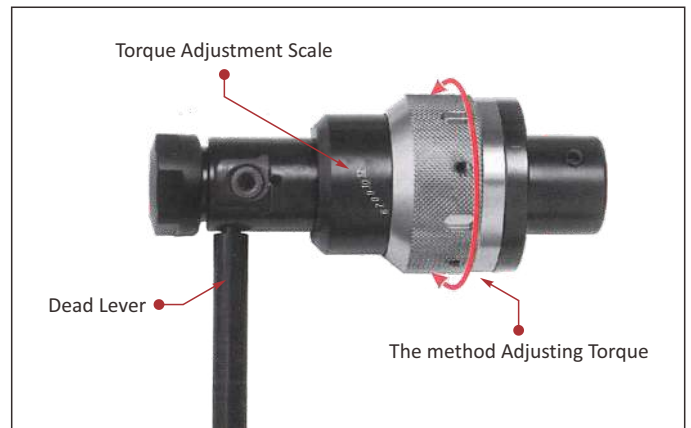
ZPTC-DT6
Professional Tapping Chuck



ZPTC-B12A
Professional Tapping Chuck



ZATC-B12B / ZATC-B16C
Adjustable Tapping Chuck



Model	Tapping Size mm	Overall Length inch(mm)	Net Weight lbs(kgs)
ZPTC-DT6	3~8	4.72(120)	1.32(0.6)
ZPTC-B12A	3~8	4.72(120)	1.32(0.6)
ZATC-B12B	3~12	4.72(120)	1.9(0.86)
ZATC-B16C	3~12	4.72(120)	1.9(0.86)

● Specification(air pressure at 90psi, 6.2bar, 6.3kg/cm²)



Torque collet Chuck

METRIC THREAD						IMPERIAL THREAD				
No.1 Torque collet Chuck		JIS		ISO		Torque collet Chuck			JIS	
		Handle Diameter	Opposite	Handle Diameter	Opposite				Handle Diameter	Opposite
M3	P0.5	4	3.2	3.15	2.5	W 1/8	4	3.2		
M4	P0.7	5	4	4	3.15	W 3/16	5.5	4.5		
M5	P0.8	5.5	4.5	5	4	W 1/4	6	4.5		
M6	P1.0	6	4.5	6.3	5	W 5/16	6.1	5		
M8	P1.25	6.2	5	8	6.3	W 3/8	7	5.5		
M10	P1.5	7	5.5	10	8	W 7/16	8	6		
M12	P1.75	8.5	6.5	9	7.1	W 1/2	9	7		
METRIC THREAD						JIS Pipe / Tube				
No.2 Torque collet Chuck		JIS		ISO		PT	PS	PF	Handle Diameter	Opposite
		Handle Diameter	Opposite	Handle Diameter	Opposite					
M14	P2.0	10.5	8	11.2	9	W 9/16	10.5	8		
M16	P2.0	12.5	10	12.5	10	W 5/8	12	9		
M18	P2.5	14	11	14	11.2	W 3/4	14	11		
M20	P2.5	15	12	14	11.2	W 7/8	17	13		
M22	P2.5	17	13	16	12.5	W 1	20	15		
M24	P3.0	19	15	18	14	W 1-1/8	22	17		
METRIC THREAD						JIS Pipe / Tube				
No.3 Torque collet Chuck		JIS		ISO		PT	PS	PF	Handle Diameter	Opposite
		Handle Diameter	Opposite	Handle Diameter	Opposite					
M30	P3.5	23	17	20	16	W 1-1/4	24	19		
M32		24	19			3/8	3/8	3/8	14	11
M33	P3.5	25	19			1/2	1/2	1/2	18	14
M34		26	21					5/8	19	15
M35		26	21			5/8			20	15
M36		28	21			3/4	3/4	3/4	23	17
M38		28	21					7/8	24	19
M39		30	23			1	1	1	26	21
M40		30	23				1-1/8	1-1/8	28	21
M42	P4.5	32	26			1-1/4	1-1/4	1-1/4	32	26
						1-3/8	1-3/8	1-3/8	35	26
						1-1/2	1-1/2	1-1/2	38	29

Industrial Angle Grinder



0.9HP

ZAG4140AF / ZAG4140AM
ZAG5110AF / ZAG5110AM
ZAG5110AC / ZAG5110AP



0.9HP

ZAG4140BF / ZAG4140BM
ZAG5110BF / ZAG5110BM
ZAG5110BC / ZAG5110BP



2.0HP

ZAG7075AC
ZAG7075AN / ZAG7075AP

2.5HP

ZAG9060AC
ZAG9060AP / ZAG9060AN



2.0HP

ZAG7075BC
ZAG7075BN / ZAG7075BP

2.5HP

ZAG9060BC
ZAG9060BP / ZAG9060BN



0.9HP

ZAG460AC



0.9HP

ZAG460BC

Model	Throttle Type	Grinding Wheel inch(mm)	Spindle Thread Size	Free Speed rpm	Max. Air Cons. cfm(m ³ /min)	Angle Head Height inch(mm)	Overall Length inch(mm)	Net Weight lbs(kgs)
ZAG4140AF	Roll	4(100)	3/8x24UNF	13600	33(0.95)	3(76)	8-3/16(208)	4.41(2)
ZAG4140AM	Roll	4(100)	M8x1.25P	13600	33(0.95)	3(76)	8-3/16(208)	4.41(2)
ZAG4140BF	Lever	4(100)	3/8x24UNF	13600	33(0.95)	3(76)	9-11/16(246)	3.75(1.7)
ZAG4140BM	Lever	4(100)	M8x1.25P	13600	33(0.95)	3(76)	9-11/16(246)	3.75(1.7)
ZAG5110AF	Roll	5(125)	3/8x24UNF	10900	33(0.95)	3(76)	8-3/16(208)	3.97(1.8)
ZAG5110AM	Roll	5(125)	M8x1.25P	10900	33(0.95)	3(76)	8-3/16(208)	3.97(1.8)
ZAG5110AC	Roll	5(125)	5/8x11UNC	10900	33(0.95)	3(76)	8-3/16(208)	3.97(1.8)
ZAG5110AP	Roll	5(125)	M14x2.0P	10900	33(0.95)	3(76)	8-3/16(208)	3.97(1.8)
ZAG5110BF	Lever	5(125)	3/8x24UNF	10900	33(0.95)	3(76)	9-11/16(246)	3.53(1.6)
ZAG5110BM	Lever	5(125)	M8x1.25P	10900	33(0.95)	3(76)	9-11/16(246)	3.53(1.6)
ZAG5110BC	Lever	5(125)	5/8x11UNC	10900	33(0.95)	3(76)	8-3/16(208)	4.63(2.1)
ZAG5110BP	Lever	5(125)	M14x2.0P	10900	33(0.95)	3(76)	8-3/16(208)	4.63(2.1)
ZAG7075AC	Roll	7(180)	5/8x11UNC	7600	56(1.6)	3-27/64(87)	10(253)	8.93(4.05)
ZAG7075AN	Roll	7(180)	M10x1.5P	7600	56(1.6)	3-27/64(87)	10(253)	8.93(4.05)
ZAG7075AP	Roll	7(180)	M14x2.0P	7600	56(1.6)	3-27/64(87)	10(253)	8.93(4.05)
ZAG7075BC	Lever	7(180)	5/8x11UNC	7600	56(1.6)	3-27/64(87)	11-13/16(300)	8.36(3.79)
ZAG7075BN	Lever	7(180)	M10x1.5P	7600	56(1.6)	3-27/64(87)	11-13/16(300)	8.36(3.79)
ZAG7075BP	Lever	7(180)	M14x2.0P	7600	56(1.6)	3-27/64(87)	10(253)	8.36(3.79)
ZAG9060AC	Roll	9(230)	5/8x11UNC	5900	67(1.9)	4-1/2(115)	11(280)	9.52(4.32)
ZAG9060AN	Roll	9(230)	M10x1.5P	5900	67(1.9)	4-1/2(115)	11(280)	9.52(4.32)
ZAG9060AP	Roll	9(230)	M14x2.0P	5900	67(1.9)	4-1/2(115)	11(280)	9.52(4.32)
ZAG9060BC	Lever	9(230)	5/8x11UNC	5900	67(1.9)	4-1/2(115)	12-13/64(310)	8.95(4.06)
ZAG9060BN	Lever	9(230)	M10x1.5P	5900	67(1.9)	4-1/2(115)	12-13/64(310)	8.95(4.06)
ZAG9060BP	Lever	9(230)	M14x2.0P	5900	67(1.9)	4-1/2(115)	12-13/64(310)	8.95(4.06)
ZAG460AC	Roll	-	5/8x11UNC	6000	33(0.95)	3-55/64(98)	8-3/16(208)	3.09(1.4)
ZAG460BC	Lever	-	5/8x11UNC	6000	33(0.95)	3-55/64(98)	8-3/16(208)	3.09(1.4)

Industrial Angle Grinder



Features & Benefits

- High torque 2.5HP (1.9kW) motor output.
- Governed motor & Safety lever for operator safety.
- Spindle lock design for easy disc change.
- Vibration damped & Balanced side handle.



ZAG636 2.5HP
5" Angle Grinder
**Grinding Wheel not included*



ZAG6368 2.5HP
7" Angle Grinder
**Grinding Wheel not included*

Features & Benefits

- High efficient turbine motor for effective grinding & material removal.
- Autobalancer to minimize vibration for operator comfort.
- Adjustable guard.
- Governed motor & Safety lever for operator safety.
- Integrated Autobalancer & Overspeed shut-off device.



ZTG638 6.1HP
7" Turbine Angle Grinder
**Grinding Wheel not included*



ZTG630 6.1HP
9" Turbine Angle Grinder
**Grinding Wheel not included*

Model	Grinding Wheel	Spindle Thread Size	Free Speed rpm	Air Cons. cfm(m ³ /min)	Noise Level dB(A)	Overall Length inch(mm)	Net Weight lbs(kgs)	Air Inlet Thread Size
ZAG636	5"	M14*2.0P	11000	5(0.14)	<90	10.4(265)	2.2(4.85)	3/8"
ZAG6368	7"	M14*2.0P	7500	5(0.14)	<90	10.4(265)	2.5(5.51)	3/8"
ZTG638	7"	-	8500	Free 42(1.19) Max. 126(3.57)	90	12.4(315)	3.8(8.38)	1/2"
ZTG630	9"	-	6600	Free 42(1.19) Max. 126(3.57)	90	12.4(315)	4(8.82)	1/2"

Industrial Vertical Grinder



ZVG5120-BC 1.4HP 5/8-11UNC
ZVG5120-BP 1.4HP M14 x 2.0P



ZVG770-BC 2.0HP 5/8-11UNC
ZVG784-BC 2.0HP 5/8-11UNC
ZVG770-BP 2.0HP M14 x 2.0P
ZVG784-BP 2.0HP M14 x 2.0P



ZVG960B 4.0HP
ZVG945B 3.8HP



ZVG660B 4.0HP
ZVG645B 3.8HP

Model	Grinding Wheel mm	Max. Dia Cup Wheel mm	Free Speed rpm	Max. Air Cons. cfm(m ³ /min)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)
ZVG5120-BC	125x6x22.2	–	12000	42.4(1.2)	6.17(2.8)	1/2(12.7)
ZVG5120-BP	125x6x22.2	–	12000	42.4(1.2)	6.17(2.8)	1/2(12.7)
ZVG770-BC	180x6x22.2	–	7000	56.5(1.6)	8.82(4)	1/2(12.7)
ZVG770-BP	180x6x22.2	–	7000	56.5(1.6)	8.82(4)	1/2(12.7)
ZVG784-BC	180x6x22.2	–	8400	56.5(1.6)	8.82(4)	1/2(12.7)
ZVG784-BP	180x6x22.2	–	8400	56.5(1.6)	8.82(4)	1/2(12.7)
ZVG960B	230x10x22.2	–	6000	98.9(2.8)	12.79(5.8)	3/4(19)
ZVG945B	230x10x22.2	–	4500	87.7(2.4)	12.79(5.8)	3/4(19)
ZVG660B	–	150x50x22.2	6000	98.9(2.8)	13.01(5.9)	3/4(19)
ZVG645B	–	150x50x22.2	4500	87.7(2.4)	13.01(5.9)	3/4(19)

Industrial Straight Grinder



ZSG-105A 1.3HP
Industrial Straight Grinder

ZSG-106A 1.4HP
Industrial Straight Grinder

Roll Throttle Type



ZSG-105B 1.3HP
Industrial Straight Grinder

ZSG-106B 1.4HP
Industrial Straight Grinder

Lever Throttle Type



ZSG206B 1.4HP
Industrial Straight Grinder

Lever Throttle Type



ZSG306B 1.4HP
Industrial Straight Grinder

Lever Throttle Type

Model	Throttle Type	Grinding Wheel inch(mm)	Spindle Thread Size	Free Speed rpm	Max. Air Cons. SCFM	Overall Length inch(mm)	Net Weight lbs(kgs)	Air Hose Size	Air Inlet Thread Size
ZSG-105A	Roll	5x3/4x1/2 (125x19x12.7)	1/2x12	7600	20	15-3/4(400)	2.79(1.27)	12.7	3/8
ZSG-105B	Lever	5x3/4x1/2 (125x19x12.7)	1/2x12	7600	20	19-11/16(501)	2.79(1.27)	12.7	3/8
ZSG-106A	Roll	6x1x5/8 (150x25x15.8)	5/8x11	6300	24	16-47/64(425)	4.14(1.88)	12.7	3/8
ZSG-106B	Lever	6x1x5/8 (150x25x15.8)	5/8x11	6300	24	20-33/64(521)	4.14(1.88)	12.7	3/8
ZSG206B	Lever	6x1x5/8 (150x25x15.8)	5/8x11	6300	24	20(510)	3.27(1.48)	12.7	3/8
ZSG306B	Lever	5/8" Cone Wheel	5/8x11	6300	24	20(510)	4.1(1.86)	12.7	3/8



High power, quality design

Features & Benefits

- Texturing concrete
- Cleaning & stress relieving weld seams and joints
- Removing coatings, corrosion & other accumulated materials
- Chisel scalers for splitting, chipping, pointing and brick raking
- Convert to chisels in seconds
- Dust shroud attachments available
- Adjustable front tube extends needle life
- Heat treated piston and cylinder ensure excellent durability and long life

Air Needle / Chisel Scalers



ZKJ221-19 / ZKJ221-29
ZKJ221A Vacuum Type
 Medium Duty Pistol Grip Needle Scaler



ZKJ3221-19 / ZKJ3221-28
 Heavy Duty Pistol Grip Needle Scaler



ZKJ222
 Medium Duty Chisel Scaler



ZKJ3222
 Heavy Duty Chisel Scaler



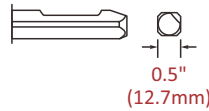
ZKJ211-2B-19 / ZKJ211-2B-29
ZKJ211A Vacuum Type
 Medium Duty Needle Scaler



ZKJ799NS-12 / ZKJ799NS-27
 Light Duty Needle Scaler

Vacuum System

Chisel Shank 0.5" (12.7mm)



110A025

Needle scalers can be fitted with dust shroud

Model	Numbers of Needles pcs	Piston Diameter inch(mm)	Piston Stroke inch(mm)	Needle Diameter Øinch(mm)	Blows Per Min. bpm	Avg. Air Cons. cfm(l/min)	Overall Length inch(mm)	Net Weight lbs(kgs)
ZKJ3221-19	19	1.2(29.5)	0.86(22)	5/32x7(4x180)	2700	3(85)	13.4(340)	8.6(3.9)
ZKJ3221-28	28	1.2(29.5)	0.86(22)	1/8x7(3x180)	2700	3(85)	13.4(340)	8.6(3.9)
ZKJ3222	-	1.2(29.5)	0.86(22)	-	2000	2(51)	11.6(295)	6(2.7)
ZKJ221-19	19	0.9(23)	1.3(33)	1/8x7(3x180)	3700	3(85)	13(330)	6(2.7)
ZKJ221-29	29	0.9(23)	1.3(33)	5/64x7(2x180)	3700	3(85)	13(330)	6(2.7)
ZKJ221A	-	0.9(23)	1.3(33)	-	3700	3(85)	13(330)	6(2.7)
ZKJ222	-	0.9(23)	1.3(33)	-	2700	3(85)	11.6(295)	4.8(2.2)
ZKJ211-2B-19	19	0.9(23)	1.3(33)	1/8x7(3x180)	3700	3(85)	14.8(375)	6.2(2.8)
ZKJ211-2B-29	29	0.9(23)	1.3(33)	5/64x7(2x180)	3700	3(85)	14.8(375)	6.2(2.8)
ZKJ211A	-	0.9(23)	1.3(33)	-	3700	3(85)	14.8(375)	6.2(2.8)
ZKJ799NS-12	12	0.7(18)	1(26)	1/8x7(3x180)	4200	2(60)	14.2(360)	3.5(1.6)
ZKJ799NS-27	27	0.7(18)	1(26)	5/64x7(2x180)	4200	2(60)	14.2(360)	3.5(1.6)

Warning: Facial and operation of pneumatic tools, must wear eye protection. Recommended air pressure must equal or below @90psi (6.2 bar).

- Min. Hose Size: 3/8(10) inch(mm)
- Air Inlet Size: 1/4 inch-NPT/PT

Air Chisel Scalers / Air Scraper / Air Flux Chipper



ZKJ211
Medium Duty Chisel Scaler



ZKJ799F
Light Duty Chisel Scaler



ZFC-2540
Air Chisel Scaler

Model	Piston Diameter inch(mm)	Piston Stroke inch(mm)	Blows Per Min. bpm	Avg. Air Cons. cfm(l/min)	Overall Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZKJ211	0.9(23)	1.3(33)	2700	3(85)	13.2(335)	4.8(2.2)	3/8(10)	1/4
ZKJ799F	0.7(18)	1(26)	3800	2.5(70)	13(330)	3.5(1.6)	3/8(10)	1/4
ZFC-2540	63/64(25)	1-11/32(34)	4000	14(392)	7-1/2(190)	3.3(1.5)	3/8(10)	1/4

Warning: Facial and operation of pneumatic tools, must wear eye protection. Recommended air pressure must equal or below @90psi (6.2 bar).



ZAS132
Air Flux Chipper



ZP232 0.15HP
Air Scraper



ZFC-2
Air Scraper



Model	Bore Diameter inch(mm)	Piston Diameter inch(mm)	Stroke Length inch(mm)	Blows Per Min. bpm	Avg. Air Cons. cfm(l/min)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZAS132	(18x14)	-	15/16(24)	2800	2.12(60)	2.0(0.9)	3/8(10)	1/4
ZFC-2	-	0.87(22)	0.87(22)	4000	8.8(250)	2.56(1.16)	3/8(10)	1/4
ZP232	1/2(12.7)	-	1/4(6.3)	4800	2.8(80)	1.59(0.72)	3/8(10)	1/4

• Specification(air pressure at 90psi, 6.2bar, 6.3kg/cm²)

Air Needle Scalers

Features & Benefits

- Needle scaler for industrial application
- Sturdy and simple design for heavy and wide applications
- Superior design with internal spring components provides greater durability



ZKJ27
Pistol Grip Needle Scaler



ZKJ39-14 / ZKJ39-28
ZKJ39-66 / ZKJ39A Vacuum Type
Pistol Grip Needle Scaler



ZNS1919
Air Needle Scalers



ZKJ35-23 / ZKJ35-53
Pistol Grip Needle Scaler



ZNS1919C
Air Needle Scalers



ZKJ831
Pistol Grip Needle Scaler



ZNS-4111
PENCIL NEEDLE SCALER
w/ Inline air flow regulator

Application:

- Gentle cleaning of soiled/rusted parts
- Pin form and free needles allow you to reach difficult-to-access areas as well

Vacuum System



Needle scalers can be fitted with dust shroud



ZNS-1228
Air Needle Scalers



ZKJ31-12 / ZKJ31-27
Composite Straight Needle Scaler

Model	Numbers of Needles pcs	Piston Diameter inch(mm)	Piston Stroke inch(mm)	Needle Diameter Øinch(mm)	Blows Per Min. bpm	Avg. Air Cons. cfm(l/min)	Overall Length inch(mm)	Net Weight lbs(kgs)
ZKJ27	19	0.6(16)	0.6(16)	5/64x7(2x180)	4000	2.5(70)	11.2(285)	3.5(1.6)
ZKJ31-12	12	0.8(20)	1.06(27)	1/8x7(3x180)	4000	4(115)	13.6(345)	5.3(2.4)
ZKJ31-27	27	0.8(20)	1.06(27)	5/64x7(2x180)	4000	4(115)	13.6(345)	5.3(2.4)
ZKJ35-23	23	0.94(24)	1.06(27)	1/8x7(3x180)	4000	7(198)	13.2(335)	6.2(2.8)
ZKJ35-53	53	0.94(24)	1.06(27)	5/64x7(2x180)	4000	7(198)	13.2(335)	6.2(2.8)
ZKJ39-14	14	1.1(28)	1.1(28)	5/32x7(4x180)	3500	7.4(210)	13.8(350)	7.9(3.6)
ZKJ39-28	28	1.1(28)	1.1(28)	1/8x7(3x180)	3500	7.4(210)	13.8(350)	7.9(3.6)
ZKJ39-66	66	1.1(28)	1.1(28)	5/64x7(2x180)	3500	7.4(210)	13.8(350)	7.9(3.6)
ZKJ39A	—	1.1(28)	1.1(28)	—	3500	7.4(210)	13.8(350)	7.9(3.6)
ZKJ831	19	0.75(19)	2.7(70)	1/8x7(3x180)	3500	6.6(187)	14.6(370)	6(2.7)
ZNS-1228	12	0.75(19)	1.6(41)	1/8x4.9(3x126)	2800	2.1(60)	11.6(295)	2.4(1.1)
ZNS1919	19	0.75(19)	1.6(41)	1/8x7(3x180)	4000	7.4(210)	12(305)	4.9(2.2)
ZNS1919C	19	0.75(19)	1.6(41)	1/8x7(3x180)	4000	7.4(210)	13(330)	4.9(2.2)
ZNS-4111	13	—	—	0.051(1.3)	3000	1.68(48.1)	9.28(235.6)	1.06(0.48)

Warning: Facial and operation of pneumatic tools, must wear eye protection. Recommended air pressure must equal or below @90psi (6.2 bar).

- Min. Hose Size: 3/8(10) inch(mm)
- Air Inlet Size: 1/4 inch-NPT/PT

Air Needle / Chisel Scalers



ZNS-1944NS
ZNS-1944NSL (Locking Lever Type)
ZNS-1944A (Vacuum Type)
 Medium Duty Needle Scaler

Vacuum System



Locking Lever Type



268A029

Needle scalers can be fitted with dust shroud



ZKJ379F
ZKJ379FL (Locking Lever Type)
 Medium Duty Chisel Scaler



ZKJ379K Scaler Kits

- 1 pc Needle Scaler
- 1 pc Moil Point Chisel
- 1 pc 20mm Flat Chisel
- 1 pc 35mm Bent Chisel
- 1 pc 1/4" Air Nipple
- 1 set Needle Attachment
- Net Weight 4 kg



ZKJ279NS
 Medium Duty Pistol Grip Needle Scaler



ZKJ479NS
 Medium Duty Pistol Grip Needle Scaler



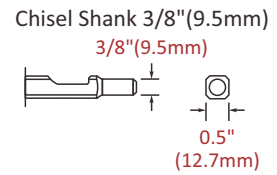
ZNS361
 Air Needle Scaler



ZKJ279F
 Medium Duty Chisel Scaler



ZKJ479F
 Medium Duty Chisel Scaler



Model	Numbers of Needles pcs	Piston Diameter inch(mm)	Piston Stroke inch(mm)	Needle Diameter Øinch(mm)	Blows Per Min. bpm	Avg. Air Cons. cfm(l/min)	Overall Length inch(mm)	Net Weight lbs(kgs)
ZKJ279NS	19	1(25)	1.5(38)	1/8x7(3x180)	4600	8.2(232)	18.1(460)	7(3.2)
ZKJ279F	–	1(25)	1.5(38)	–	4800	8.2(232)	14.8(375)	5.3(2.4)
ZNS-1944NS	19	1(25)	1.5(38)	1/8x7(3x180)	4600	8.2(232)	18.1(460)	6.2(2.8)
ZNS-1944NSL	19	1(25)	1.5(38)	1/8x7(3x180)	4600	8.2(232)	18.1(460)	6.2(2.8)
ZNS-1944A	19	1(25)	1.5(38)	1/8x7(3x180)	4600	8.2(232)	18.1(460)	6.2(2.8)
ZKJ379F	–	1(25)	1.5(38)	–	4800	8.5(240)	15(380)	4.6(2.1)
ZKJ379FL	–	1(25)	1.5(38)	–	4800	8.5(240)	15(380)	4.6(2.1)
ZKJ479NS	19	1(25)	1.5(38)	1/8x7(3x180)	4600	8.6(243)	21.3(540)	7.3(3.3)
ZKJ479F	–	1(25)	1.5(38)	–	4800	8(227)	17.3(440)	5.5(2.5)
ZNS361	–	63/64(25)	1-11/32(34)	–	4000	14(392)	16-1/4(413)	5.7(2.6)

Warning: Facial and operation of pneumatic tools, must wear eye protection. Recommended air pressure must equal or below @90psi (6.2 bar).

- Min. Hose Size: 3/8(10) inch(mm)
- Air Inlet Size: 1/4 inch-NPT/PT

Low Vibration Needle Scaler & Flux Chipper

Features

- Medium duty with vibration reduced design
- 19 x 3mm needles
- Dust shroud attachment available
- Requires no additional tools for changing needles/chisels
- Removal coatings, corrosion and accumulated materials
- Slag removal and stress-relieving welds
- Cleaning concrete, mixers, formwork & machinery



ZNS-203VR
Medium duty low vibration
needle scaler - Pistol



ZFC-203VR
Medium duty low vibration
flux chipper - Pistol



ZNS-223VR
Medium duty low vibration
needle scaler - Straight



ZFC-223VR
Medium duty low vibration
flux chipper - Straight



ZNS-312VR
Low Vibration
Air Needle Scaler



ZNS311VR
Low Vibration
Air Needle Scaler



ZNS313VR
Low Vibration
Air Needle Scaler

Model	Numbers of Needles pcs	Piston Diameter inch(mm)	Piston Stroke inch(mm)	Needle Diameter Øinch(mm)	Blows Per Min. bpm	Avg. Air Cons. cfm(l/min)	Overall Length inch(mm)	Net Weight lbs(kgs)
ZNS-203VR	19	0.63(23.5)	0.43(11)	1/8x7(3x180)	2400	4(113)	13.38(340)	6(2.7)
ZFC-203VR	–	0.63(23.5)	0.43(11)	–	2400	4(113)	15.56(395)	7(3.2)
ZNS-223VR	19	0.63(23.5)	0.43(11)	1/8x7(3x180)	2400	4(113)	14.56(370)	5.2(2.35)
ZFC-223VR	–	0.63(23.5)	0.43(11)	–	2400	4(113)	17.13(435)	6.5(2.95)
ZNS-312VR	12	0.79(20)	0.79(20)	1/8x7(3x180)	4800	3.5(99)	13.3(338)	2.4(1.1)
ZNS311VR	12	0.79(20)	0.79(20)	1/8x4.9(3x125)	4800	3.5(99)	9.4(238)	2.4(1.1)
ZNS313VR	19	0.91(23)	0.79(20)	1/8x7(3x180)	4300	3.5(99)	11(280)	3.5(1.6)

Warning: Facial and operation of pneumatic tools, must wear eye protection. Recommended air pressure must equal or below @90psi (6.2 bar).

- Min. Hose Size: 3/8(9.5) inch(mm)
- Air Inlet Size: 1/4 inch-NPT/PT

Heavy Duty Air Needle & Chisel Scalers

Features & Benefits

- Needle scaler designed to tackle a wide range of surface preparation tasks in construction, marine and petrochemical.
- Heaviest in the range of scalers.
- Heavy duty semi pistol grip.
- Adjustable front tube for longer needle life.
- The heavy duty scaler for the toughest applications such as roughing and dressing concrete and aggregate exposure, also ideal for removing the hardest scale and corrosion.
- Heavy rust and scale removal from steel structures such as bridges, ships and offshore platforms.
- Stippling of plain concrete for keying and decorative finishes.



**ZKJ231-35 / ZKJ231-49
ZKJ231-66**

ZKJ231A Vacuum Type
Heavy Duty Semi Pistol Grip Needle Scaler

Vacuum System



120A025

Needle scalers can be fitted with dust shroud



**ZKJ231-3B-19
ZKJ231-3B-28**

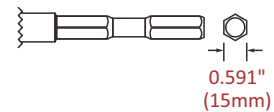
Heavy Duty Semi Pistol Grip Needle Scaler



ZKJ231B

Heavy Duty Chisel Scaler

Chisel Shank 0.591" (15mm)



0.591" (15mm)



Focus on the front exhaust, effectively blocking dust, Welding slag.

The control rod installation of safety devices, to increase the user security.



ZKJ383F

ZKJ383FL Safety lever
Heavy Duty Chisel Scaler



ZKJ383NS

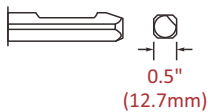
ZKJ383NSL Safety lever
Heavy Duty Needle Scaler



ZKJ381

Medium Duty Needle Scaler

Chisel Shank 0.5" (12.7mm)



0.5" (12.7mm)

Model	Numbers of Needles pcs	Piston Diameter inch(mm)	Piston Stroke inch(mm)	Needle Diameter Øinch(mm)	Blows Per Min. bpm	Avg. Air Cons. cfm(l/min)	Overall Length inch(mm)	Net Weight lbs(kgs)
ZKJ231-35	35	1.3(33)	2(52)	5/32x7(4x180)	2500	7.4(210)	18.1(460)	13.2(6)
ZKJ231-49	49	1.3(33)	2(52)	1/8x7(3x180)	2500	7.4(210)	18.1(460)	13.2(6)
ZKJ231-66	66	1.3(33)	2(52)	5/64x7(2x180)	2500	7.4(210)	18.1(460)	13.2(6)
ZKJ231-3B-19	19	1.1(28)	1.5(39)	5/32x7(4x180)	3000	6.2(176)	17.5(445)	10.4(4.7)
ZKJ231-3B-28	28	1.1(28)	1.5(39)	1/8x7(3x180)	3000	6.2(176)	17.5(445)	10.4(4.7)
ZKJ383NS	19	0.9(23)	1.06(27)	1/8x7(3x180)	3500	6.4(182)	16.9(430)	6.2(2.8)
ZKJ383NSL	19	0.9(23)	1.06(27)	1/8x7(3x180)	3500	6.4(182)	16.9(430)	6.2(2.8)
ZKJ231B	–	1.3(33)	2(52)	–	2000	7.4(210)	17.7(450)	11(5)
ZKJ383F	–	0.9(23)	1.06(27)	–	4000	6.4(182)	14.2(360)	4.2(1.9)
ZKJ383FL	–	0.9(23)	1.06(27)	–	4000	6.4(182)	14.2(360)	4.2(1.9)
ZKJ381	19	1(25)	1.3(33)	1/8x7(3x180)	4600	6(170)	16.5(420)	6(2.7)

Warning: Facial and operation of pneumatic tools, must wear eye protection. Recommended air pressure must equal or below @90psi (6.2 bar).

- Min. Hose Size: 3/8(10) inch(mm)
- Air Inlet Size: 1/4 inch-NPT/PT

Hand Held Heavy Duty Air Scaling Hammers

Features & Benefits

- Lightweight, easy to handle.
- Detachable taper fit cutter head reduces cost of replacement and extends piston life.
- Bush hammer tungsten carbide tipped pistons.
- Alternative cruciform tungsten carbide tipped pistons.
- Removal of rust, coatings, scale from steel structures and surface.
- Cleaning of cast iron, steel pipe and bell joints of gas lines maintained by utilities and gas companies.
- Removal of stubborn coatings and mastic residue from floor.
- Reduced Vibration improves operators control.



ZKJ271
Triple Headed Scaling Hammer



ZKJ271L
Triple Headed Scaling Hammer (straight)



ZKJ311
Single Headed Scaling Hammer



ZKJ311T
Single Headed Scaling Hammer



Standard Side Handle
(fitted as standard)



Cruciform taper
tungsten cutterhead
(fitted as standard)



Single head cruciform piston
(fitted as standard)



Single head cruciform
tungsten piston
(Optional)

Model	Piston Diameter inch(mm)	Piston Stroke inch(mm)	Blows Per Min. bpm	Avg. Air Cons. cfm(l/min)	Overall Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZKJ271	1.06(27)	1.024(26)	2400	7.8(223)	21.7(550)	8.8(4)	3/8(10)	3/8
ZKJ271L	1.06(27)	1.024(26)	2400	7.8(223)	20.5(520)	8.8(4)	3/8(10)	3/8
ZKJ311	1.18(30)	1.496(38)	7000	3.3(94)	22(560)	5.1(2.3)	3/8(10)	1/4
ZKJ311T	1.18(30)	1.496(38)	7000	3.3(94)	21.7(550)	5.3(2.4)	3/8(10)	3/8

Warning: Facial and operation of pneumatic tools, must wear eye protection. Recommended air pressure must equal or below @90psi (6.2 bar).

⬡ Long Reach Air Scrapers ⬡

Features

- Quick change chisel release
- Unique, light weight version
- Air efficient & economical to use
- Available in 3L, 4L, 5L and 6L lengths
- Three tools in one: chipping, scraping, de-scaling



Applications

- | | |
|-------------------|----------------------|
| ● Ice | ● Asbestos |
| ● Floor tiles | ● Roofing materials |
| ● Residue | ● Linoleum |
| ● Metal slag | ● Chemical spillages |
| ● Adhesive | ● Carpeting |
| ● Rubber coatings | ● Bituminous |



Corrosion removal for inaccessible area

One tool, multiple applications



ZKJ241K

Long Reach Scraper Kits

- 1 pc Long Reach Scraper
- 4 pcs Flat Chisel (40 / 50 / 70 / 100mm)
- 2 pcs Grip Tube 500mm
- 1 pc Grip Tube 300mm
- 1 pc Rubber Handle Grip
- 2 pcs Hex Wrench (6 / 2.5mm)
- 1 pc 1/4" Air Nipple
- Net Weight 11.5kg



ZKJ341K

Long Reach Scraper Kits

- 1 pc Long Reach Scraper
- 4 pcs Flat Chisel (40 / 50 / 70 / 100mm)
- 2 pcs Grip Tube 500mm
- 1 pc Grip Tube 300mm
- 1 pc Rubber Handle Grip
- 2 pcs Hex Wrench (6 / 2.5mm)
- 1 pc 1/4" Air Nipple
- Net Weight 6.2kg

2 tools in one



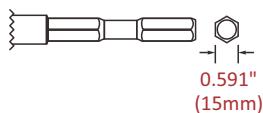
Long Reach Air Scrapers

Features & Benefits

- Light weight aluminium tools for flexible vertical and floor application.
- Low air consumption, will run from small 2HP compressor.
- Clean up of paint & chemical spillages.
- Rail track and infrastructure maintenance.
- Peeling Paint removal in hard to reach areas.
- Quickly clean large areas.
- Remove paint from checker plate using needle attachment.
- Removal of glue residues from carpet tiles.
- Use close to wall for finishing large areas.
- Ceramic & linoleum floor tile removal using chisel or scraper.
- "Pointing" tool for mortar removal.
- Weld seam cleaning.
- Plaster and render removal.



Chisel Shank 0.591"(15mm) Hex



ZKJ241-3L

Long Reach Scraper



ZKJ241NS

Long Reach Needle Scraper



ZKJ241-4L

Long Reach Scraper 47" (1200mm)



ZKJ2415NS

Long Reach Needle Scraper 47" (1200mm)



ZKJ241-5L

Long Reach Scraper 59" (1500mm)



ZKJ2416NS

Long Reach Needle Scraper 59" (1500mm)



ZKJ341-3L

Aluminium Long Reach Scraper



ZKJ341NS

Aluminium Long Reach Needle Scraper



ZKJ341-4L

Aluminium Long Reach Scraper 47" (1200mm)



ZKJ3415NS

Aluminium Long Reach Needle Scraper 47" (1200mm)



ZKJ341-5L

Aluminium Long Reach Scraper 59" (1500mm)



ZKJ3416NS

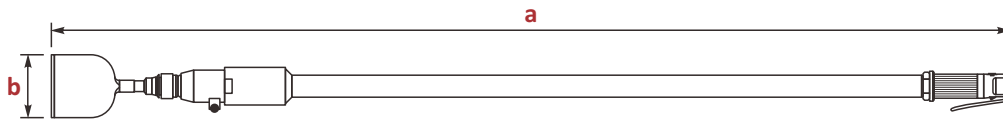
Aluminium Long Reach Needle Scraper 59" (1500mm)

Model	Numbers of Needles pcs	Piston Diameter inch(mm)	Piston Stroke inch(mm)	Needle Diameter Øinch(mm)	Blows Per Min. bpm	Avg. Air Cons. cfm(l/min)	Net Weight lbs(kgs)
ZKJ241-3L	–	1.12(28.5)	1.5(38)	1/8x7(3x180)	2400	2.8(80)	10.6(4.8)
ZKJ241NS	28	1.12(28.5)	1.5(38)	1/8x7(3x180)	2400	2.8(80)	10.6(4.8)
ZKJ241-4L	–	1.12(28.5)	1.5(38)	1/8x7(3x180)	2400	3.2(90)	14.3(6.5)
ZKJ2415NS	28	1.12(28.5)	1.5(38)	1/8x7(3x180)	2400	3.2(90)	14.3(6.5)
ZKJ241-5L	–	1.12(28.5)	1.5(38)	1/8x7(3x180)	2400	4(114)	16.1(7.3)
ZKJ2416NS	28	1.12(28.5)	1.5(38)	1/8x7(3x180)	2400	4(114)	16.1(7.3)
ZKJ341-3L	–	1.12(28.5)	1.5(38)	1/8x7(3x180)	2400	2.8(80)	8.2(3.7)
ZKJ341NS	28	1.12(28.5)	1.5(38)	1/8x7(3x180)	2400	2.8(80)	8.2(3.7)
ZKJ341-4L	–	1.12(28.5)	1.5(38)	1/8x7(3x180)	2400	3.2(90)	10.1(4.6)
ZKJ3415NS	28	1.12(28.5)	1.5(38)	1/8x7(3x180)	2400	3.2(90)	10.1(4.6)
ZKJ341-5L	–	1.12(28.5)	1.5(38)	1/8x7(3x180)	2400	4(114)	10.8(4.9)
ZKJ3416NS	28	1.12(28.5)	1.5(38)	1/8x7(3x180)	2400	4(114)	10.8(4.9)

Warning: Facial and operation of pneumatic tools, must wear eye protection. Recommended air pressure must equal or below @90psi (6.2 bar).

- Min. Hose Size: 3/8(10) inch(mm)
- Air Inlet Size: 1/4 inch-NPT/PT

Dimensions and Accessories



Dimensions

Long Reach Scrapers			Long Reach Needle Scaler		
Model	a inch(mm)	b inch(mm)	Model	a inch(mm)	b inch(mm)
ZKJ241-3L	23.6(600)	3.93(100)	ZKJ241NS	24(610)	3.93(100)
ZKJ241-4L	47.2(1200)	3.93(100)	ZKJ2415NS	47.2(1200)	3.93(100)
ZKJ241-5L	59(1500)	3.93(100)	ZKJ2416NS	59(1500)	3.93(100)
ZKJ341-3L	23.6(600)	3.93(100)	ZKJ341NS	24(610)	3.93(100)
ZKJ341-4L	47.2(1200)	3.93(100)	ZKJ3415NS	47.2(1200)	3.93(100)
ZKJ341-5L	59(1500)	3.93(100)	ZKJ3416NS	59(1500)	3.93(100)

Optional Accessories

Needle Type

Needle attachment

- Needle holder for 28 needles Ø3mm (1/8")
- Needle holder for 19 needles Ø4mm (5/32")

Needle Type	Length inch(mm)	O.D inch(mm)
1	7(180)	5/64(2)
1	5.9(150)	5/64(2)
1	4.9(125)	1/8(3)
1	7(180)	1/8(3)
1	7(180)	5/64(2)
2	7(180)	1/8(3)
3	7(180)	1/8(3)
3	7(180)	5/64(2)

Chisel Shank 0.59" (15mm) Hex

Chisel Shank 0.37" (9.5mm)

Chisel Shank 0.5" (12.7mm)

Item: 1-4

Item: 5-8

Item: 9-12

Item	Model	Length inch(mm)	Length inch(mm)	Width inch(mm)
1	ZST-13040	1-1/2" Flat Chisel	8.7(220)	1.57(40)
2	ZST-13050	1-1/3" Flat Chisel	8.7(220)	1.96(50)
3	ZST-13070	2-3/4" Flat Chisel	8.7(220)	2.75(70)
4	ZST-130100	4" Flat Chisel	8.7(220)	3.93(100)
5	ZST-26850	2" Flat Chisel	7(175)	1.96(50)
6	ZST-26835	1-1/3" Flat Chisel	7(175)	1.37(35)
7	ZST-26820	3/4" Flat Chisel	7(175)	0.78(20)
8	ZST-26801	Moil Point Chisel	7(175)	-
9	ZST-27050	2" Flat Chisel	7(175)	1.96(50)
10	ZST-27035	1-1/3" Flat Chisel	7(175)	1.37(35)
11	ZST-27020	3/4" Flat Chisel	7(175)	0.78(20)
12	ZST-27001	Moil Point Chisel	7(175)	-

Air Rammer



ZSR-412
Air Rammer



ZSR-302
Air Rammer



ZSR-303
Air Rammer



ZSR-302L
Air Rammer



ZSR-303L
Air Rammer



ZSR-304L
Air Rammer

Model	Piston Diameter mm	Stroke Length mm	Free Speed bpm	Overall Length inch(mm)	Avg. Air Cons. cfm(m ³ /min)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT
ZSR-412	18	50	1500	280~360	14(0.4)	3.53(1.6)	3/8(10)	1/4
ZSR-302	22	65	1000	380~470	17(0.5)	6.5(2.95)	3/8(10)	3/8
ZSR-302L	22	65	1000	870~980	17(0.5)	8.27(3.75)	3/8(10)	3/8
ZSR-303	25.4	100	800	500~660	24(0.7)	13.23(6)	3/8(10)	3/8
ZSR-303L	25.4	100	800	1060~1210	24(0.7)	17.64(8)	1/2(12.7)	1/2
ZSR-304L	32	125	700	1080~1250	30(0.85)	21.58(9.79)	1/2(12.7)	1/2

Air Chipping Hammer



ZCH280G-F
Air Chipping Hammer



ZP281GF
Air Chipping Hammer



ZP283GF
Air Chipping Hammer



ZCH280AG-F
Air Chipping Hammer



ZP282GF
Air Chipping Hammer



ZP284GF
Air Chipping Hammer



ZND5002
Air Chipping Hammer



ZND5004
Air Chipping Hammer



ZND5003
Air Chipping Hammer



ZND5005
Air Chipping Hammer



ZP363L
Air Chipping Hammer

Model	Chisel Shank Round inch(mm)	Chisel Shank Hex inch(mm)	Piston Diameter mm	Piston Stroke Length inch(mm)	Blows Per Minute bpm	Avg. Air Cons. cfm	Overall Length inch(mm)	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT	Power (Joule)
ZCH280G-F	0.55(14)	0.47(12)	20	1-3/4(45)	3000	14	9-9/16(243)	5.7(2.6)	3/8(10)	1/4	9.51
ZCH280AG-F	0.55(14)	0.47(12)	20	1-3/4(45)	3000	14	9-9/16(243)	5.7(2.6)	3/8(10)	1/4	9.51
ZP281GF	0.68(17.3)	0.58(14.7)	28.5	1(25.4)	2820	21	12-1/8(308)	12.1(5.5)	1/2(12.7)	3/8	19.74
ZP282GF	0.68(17.3)	0.58(14.7)	28.5	2(50)	2150	21	12-7/8(327)	13(5.9)	1/2(12.7)	3/8	27.3
ZP283GF	0.68(17.3)	0.58(14.7)	28.5	3(76)	1900	24	14-7/8(378)	14.3(6.5)	1/2(12.7)	3/8	28.01
ZP284GF	0.68(17.3)	0.58(14.7)	28.5	4(102)	1500	28	16-1/8(410)	15.4(7)	1/2(12.7)	3/8	30.41
ZND5002	0.68(17.3)	0.58(14.7)	27.9	1.81(46)	2940	17	14-1/2(390)	11.9(5.4)	1/2(12.7)	3/8	13.12
ZND5003	0.68(17.3)	0.58(14.7)	28.5	3.03(77)	2200	34	14(365)	17.7(8.04)	1/2(12.7)	3/8	22.9
ZND5004	0.68(17.3)	0.58(14.7)	28.5	3.7(94)	1900	33	15-1/4(400)	18.7(8.5)	1/2(12.7)	3/8	28
ZND5005	0.68(17.3)	0.58(14.7)	28.5	4.02(102)	1500	30	16-1/2(425)	19.6(8.88)	1/2(12.7)	3/8	30.46
ZP363L	0.68(17.3)	0.58(14.7)	28.5	3.7(94)	2280	33	35-3/8(900)	20.2(9.16)	1/2(12.7)	1/2	28

Shock Reduced Air Chipping Hammer

Features

- Newly Patented Shock Reduced Mechanism.
- Gravity cast Aluminum Alloy 4 bolts handle withstands rugged use.
- Spline locking device prevents loosening of Handle & Cylinder. Grooved barrel for use with retainers.
- Alloy steel made Cylinder & Piston heat-treated for durability.
- Choice of Bushing- round bushing for chisel freely rotating or hexagonal Bushing for use with hexagonal Chisels.



ZCH-2SRTI
Shock Reduced
Air Chipping Hammer



ZCH-3SRTI
Shock Reduced
Air Chipping Hammer



ZCH-4SRTI
Shock Reduced
Air Chipping Hammer



ZCH-2SRTO
Shock Reduced
Air Chipping Hammer



ZCH-3SRTO
Shock Reduced
Air Chipping Hammer



ZCH-4SRTO
Shock Reduced
Air Chipping Hammer

Application:

The New ZCH series heavy duty Chipping Hammers are designed for rugged use in foundries, shipyards, refineries, fabrication shops and construction applications.

Available in 2" thru 4" stroke versions to offer the power levels necessary for a variety of use from light to medium chipping and trimming through heavy cutting.

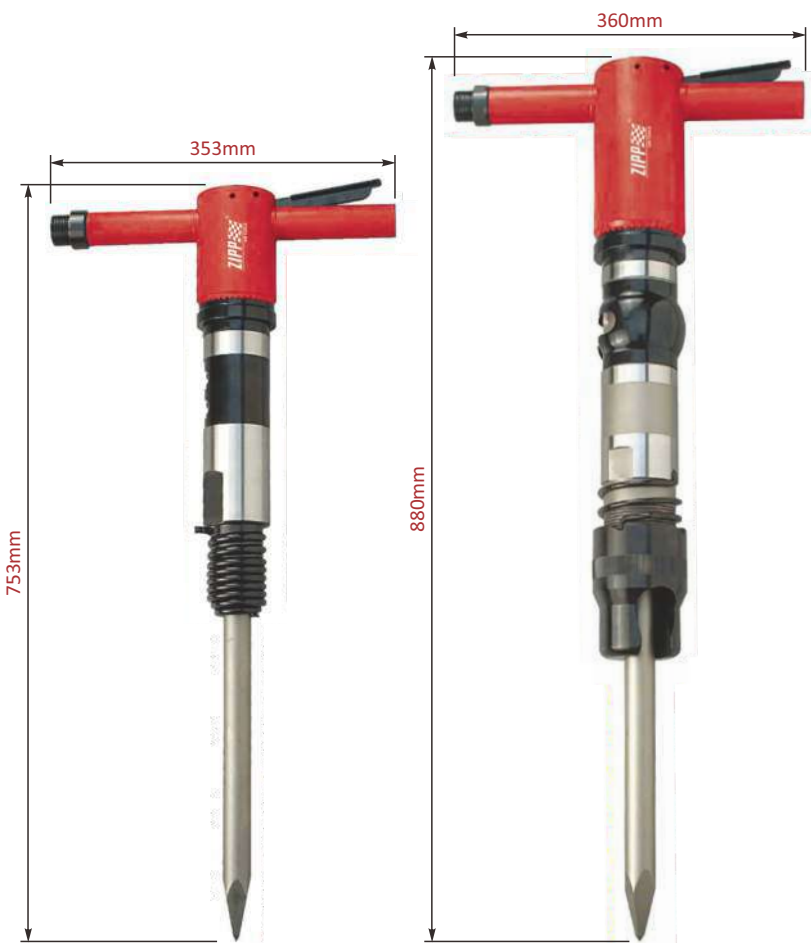


Model	Chisel Shank Round inch(mm)	Chisel Shank Hex inch(mm)	Piston Diameter mm	Piston Stroke Length inch(mm)	Blows Per Minute bpm	Avg. Air Cons. cfm(m³/min)	Vibration m/s²	Net Weight lbs(kgs)	Min. Hose Size inch(mm)	Air Inlet Size inch-NPT/PT	Power (Joule)
ZCH-2SRTI	0.68(17.3)	0.58(14.7)	28.5	2(50)	2150	30(0.85)	5	19.2(8.71)	1/2(12.7)	3/8	22.9
ZCH-2SRTO	0.68(17.3)	0.58(14.7)	28.5	2(50)	2150	30(0.85)	5	19.55(8.87)	1/2(12.7)	3/8	22.9
ZCH-3SRTI	0.68(17.3)	0.58(14.7)	28.5	3(76)	1900	32(0.9)	5	21.03(9.54)	1/2(12.7)	3/8	28
ZCH-3SRTO	0.68(17.3)	0.58(14.7)	28.5	3(76)	1900	32(0.9)	5	20.97(9.51)	1/2(12.7)	3/8	28
ZCH-4SRTI	0.68(17.3)	0.58(14.7)	28.5	4(102)	1500	33(0.95)	7	21.05(9.55)	1/2(12.7)	3/8	30.46
ZCH-4SRTO	0.68(17.3)	0.58(14.7)	28.5	4(102)	1500	33(0.95)	7	21.76(9.87)	1/2(12.7)	3/8	30.46

Air Concrete Breakers

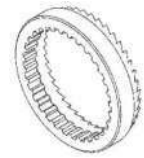
Features & Benefits

- Simple structure for less maintenance.
- Powerful hitting power and low reacting.
- Use for destroy the concretes, asphalt path, building and infrastructure.
- Medium size service/general demolition breaker.
- Long stroke cylinder provides maximum impact energy, giving a harder impact than similarly sized standard breakers.
- The best choice for applications in medium hard materials and where you need lower weight or low air consumption.



ZKJ21S
Concrete Breaker

ZKJ41S
Concrete Breaker



Reinforced cup retainer.



Unique Nut for (ZKJ21S, ZKJ41S)



Hose Nipple 1/2", 1/4"



Hitch Cutter Retainer



Beehive Retainer Spring



Item	Model	Description	Length inch(mm)	Width inch(mm)
1	ZST-10S01R	Tapered Punch	17.7(450)	—
2	ZST-30S01R	Tapered Punch	17.7(450)	—
3	ZST-30S45R	Flat Chisel	17.7(450)	1.8(45)

Model	Shank Size inch(mm)	Piston Diameter inch(mm)	Piston Stroke Length inch(mm)	Blows Per Minute bpm	Avg. Air Cons. cfm(l/min)	Overall Length inch(mm)	Net Weight lbs(kgs)	Hose Int. Ø inch(mm)
ZKJ21S	1.02(26)	1.38(35)	5.9(150)	1300	35(990)	28.9(753)	31.1(14.1)	12.7(1/2)
ZKJ41S	1.18(30)	1.57(40)	9.2(235)	1000	42(1189)	34.6(880)	54.2(24.6)	19(3/4)

Warning: Facial and operation of pneumatic tools, must wear eye protection. Recommended air pressure must equal or below @90psi (6.2 bar).



Chipping Hammer / Clay Digger

Features

ZCH 2, 3, and 4" stroke chipper has a durable 4 bolt D handle and inside trigger for chipping concrete in parking garages, highway pillars and light demolition and building restoration.

- Machined from premium alloy steel
- Forged G handle
- Cast D handle with inside rubberized trigger
- High shock tool steel piston
- Rotatable exhaust deflector

- Inlet 3/8" with bushing, 7/8" with out bushing
- Available with .680 Round Chuck Model
- ZCH 2,3, or 4, R
- Available with .580 Hex Chuck
- ZCH 2,3,or 4, H
- Standard with oval collar retainer
- Optional Universal BALL retainer available
- Optional whip hose with oiler available



**ZCH-02C(H)
ZCH-03C(H) / ZCH-04C(H)**
"C" Type



**ZCH-02D(H)
ZCH-03D(H) / ZCH-04D(H)**
"D" Type Outer Trigger



**ZCH-02DI(H)
ZCH-03DI(H) / ZCH-04DI(H)**
"D" Type Inner Trigger

Model	Chuck Size inch(mm)	Bore inch(mm)	Stroke inch(mm)	Blows Per Minute bpm	Avg. Air Cons. cfm(m ³ /min)	Overall Length inch(mm)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT
ZCH-02C(H)	0.58(14.8) Hex, 0.68(17.5) Rnd	1.125(29)	2(51)	2300	29.75(0.84)	14(356)	13(6)	3/8(10)
ZCH-02D(H)	0.58(14.8) Hex, 0.68(17.5) Rnd	1.125(29)	2(51)	2300	29.75(0.84)	14(356)	13(6)	3/8(10)
ZCH-02DI(H)	0.58(14.8) Hex, 0.68(17.5) Rnd	1.125(29)	2(51)	2300	29.75(0.84)	14(356)	13(6)	3/8(10)
ZCH-03C(H)	0.58(14.8) Hex, 0.68(17.5) Rnd	1.125(29)	3(75)	2200	31.5(0.89)	15.3(387)	14(6.4)	3/8(10)
ZCH-03D(H)	0.58(14.8) Hex, 0.68(17.5) Rnd	1.125(29)	3(75)	2200	31.5(0.89)	15.3(387)	14(6.4)	3/8(10)
ZCH-03DI(H)	0.58(14.8) Hex, 0.68(17.5) Rnd	1.125(29)	3(75)	2200	31.5(0.89)	15.3(387)	14(6.4)	3/8(10)
ZCH-04C(H)	0.58(14.8) Hex, 0.68(17.5) Rnd	1.125(29)	4(102)	1800	33.23(0.94)	17(432)	15(7)	3/8(10)
ZCH-04D(H)	0.58(14.8) Hex, 0.68(17.5) Rnd	1.125(29)	4(102)	1800	33.23(0.94)	17(432)	15(7)	3/8(10)
ZCH-04DI(H)	0.58(14.8) Hex, 0.68(17.5) Rnd	1.125(29)	4(102)	1800	33.23(0.94)	17(432)	15(7)	3/8(10)

Features

Designed for light demolition jobs, hardpan and digging clay. Can be used horizontally with D handle and internal trigger.

- Forged alloy construction with one piece cylinder
- 4 bolt back head
- Internal oiler
- Removable front head with latch
- Replaceable check bushing
- Optional muffler



ZCD-30
Clay Digger

DO NOT apply air pressure over 100 psi / 7 bar to these tools.

Model	Chuck Size inch(mm)	Bore inch(mm)	Stroke inch(mm)	Blows Per Minute bpm	Avg. Air Cons. cfm(m ³ /min)	Overall Length inch(mm)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT
ZCD-30	1 x 4-1/4(25 x 108) 7/8 x 3-1/4(22 x 83)	1.75(44)	3.375(86)	1550	49(1.4)	23(584)	30(14)	3/8(10)



Rivet Buster

Features

Designed for light concrete demolition, all angles or confined spaces. D handle with external thumb trigger

- Rotatable exhaust muffler
- One piece machined premium alloy cylinder
- Safe bridged or stepped internal cylinder (piston will not exit bottom of tool)
- Utilizes 11X jumbo steels
- Spring held retainer
- Standard upper and lower hardened sleeves
- Urethane bumper for longer life
- Requires whip hose and oiler



ZRB-6
Rivet Buster

Features

Designed for light concrete demolition, all angles or confined spaces. D handle with external thumb trigger

- ZRB-8 designed for medium & ZRB-11 designed for heavy concrete demolition or cutting rivet heads. D handle with internal variable speed trigger.
- Rotatable rubber exhaust muffler or optional rotatable steel clip exhaust
- One piece machined premium alloy cylinder
- Safe bridged or stepped internal cylinder (piston will not exit bottom of the tool)
- Standard upper & lower hardened sleeves
- Replaceable auto valve for extended life
- Utilizes 11X jumbo steels
- Spring retainer
- Urethane bumper for longer life
- Screened 1/2" NPT inlet
- Requires whip hose and oiler



Optional Steel clip
Exhaust

ZRB-8 / ZRB-11
Rivet Buster

DO NOT apply air pressure over 100 psi / 7 bar to these tools.

Model	Chuck Size inch(mm)	Bore inch(mm)	Stroke inch(mm)	Blows Per Minute bpm	Avg. Air Cons. cfm(m ³ /min)	Overall Length inch(mm)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT
ZRB-6	11 x JUMBO	1.418(36)	2.75(70)	1560	40(1.2)	17(432)	23(10.5)	3/4(19), 7/8(22.2)
ZRB-8	11 x JUMBO	1.188(30)	8(203)	1140	44(1.3)	22(572)	30(14)	1/2(12)
ZRB-11	11 x JUMBO	1.188(30)	11(279)	850	50(1.41)	25-1/2(648)	33(15)	1/2(12)



Hammer Drill / Light Weight Rock Drill / Rock Drill



ZRD-9
Hammer Drill

Features

Designed for a wide variety of construction and maintenance applications such as driving or setting masonry anchors and drilling holes in concrete, bricks or rock. As a hammer, these tools can be used for chipping, scarifying, scaling and cleaning welds.

- Excellent power-to-weight ratio helps drill holes faster and easier than comparable electric rotary hammers
- Built-in oiler provides continuous lubrication
- Teasing throttle for precise control
- Rotation release button converts tool to a hammer
- Cushioned piston for smooth operation and long life
- With an adaptor, can be used with electric hammer drill bits
- Round spline version available



ZRD-20
Light Weight
Rock Drill

Features

Designed for anchoring, shallow holes. D type handle allow horizontal drilling & collaring holes.

- D type handle with thumb trigger
- Forged alloy construction
- Built-in oiler
- Replaceable chuck, 7/8" x 3-1/4" Hex.



ZRD-30
Rock Drill

Features

Designed for light construction or soft rock drill with high speed & excellent flushing ability.

- Forged alloy construction
- Requires constant feed inline oiler
- Replaceable chuck, 7/8" x 4-1/4" or 7/8" x 3-1/4"
- Single throttle with three drilling speed: Stop, Blow, 1, 2, 3. 1 or slow is for collaring holes and remove drill from drilling hole.
- Optional wet kit available
- rpm: 240
- Water Consumption: 4.8 l/min



ZRD-50
Rock Drill

Features

Designed for medium to heavy duty construction drill suit for drilling medium rocks.

- Forged alloy construction
- Requires constant feed inline oiler
- Replaceable chuck, 1" x 4-1/4" or 7/8" x 4-1/4" or 7/8" x 3-1/4"
- Adjustable drilling speed
- Optional muffler & wet kit available
- rpm: 180
- Water Consumption: 6.7 l/min
- Performance in Granite at 85-90psi(6-7bar): 24.4"/m(62 cm/m)



ZRD-75
Rock Drill

Features

Designed for heavy duty Quarry drill suit for drill granite.

- Forged alloy construction
- Internal oiler
- Replaceable chuck, 1" x 4-1/4" or 7/8" x 4-1/4"
- Three drilling speed: Stop, Blow, 1, 2, 3. 1 or slow is for collaring holes and remove drill from drilling hole.
- Optional wet kit available
- Optional muffler
- Optional constant feed inline oiler (6' 3/4" whip)
- rpm: 200

Model	Chuck Size inch(mm)	Bore inch(mm)	Stroke inch(mm)	Blows Per Minute bpm	Avg. Air Cons. cfm(m ³ /min)	Overall Length inch(mm)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT
ZRD-9	3/4 Hex. Round spline shank	1-1/4(32)	1(25.4)	3400	20(0.9)	15(375)	9(4)	3/8(10)
ZRD-20	7/8 x 3-1/4(22 x 83)	1.94(49.18)	1.89(48)	2900	36(1.2)	19(483)	16.5(7.5)	3/8(10)
ZRD-30	7/8 x 4-1/4(22 x 108) 7/8 x 3-1/4(22 x 83)	2.44(62)	1.44(37)	2700	73(2.1)	19.5(495)	29(13)	3/4(19)
ZRD-50	1 x 4-1/4(25 x 108) 7/8 x 4-1/4(22 x 108) 7/8 x 3-1/4(22 x 83)	3(76)	2(51)	2300	92.2(2.6)	20.5(521)	51(23)	3/4(19)
ZRD-75	1 x 4-1/4(25 x 108) 7/8 x 4-1/4(22 x 108) 7/8 x 3-1/4(22 x 83)	2.63(67)	3.22(82)	2250	98(2.77)	23.75(603)	61(27.5)	3/4(19)



Pavement Breaker

Features

Designed for light demolition works. 2" to 4" concrete sidewalks, pavement and breaking asphalt.

- One piece cylinder & 4 bolt back head
- Forged alloy construction
- Replaceable chuck bushing
- Removable front head
- Internal oiler
- Optional muffler



ZPB-30
Pavement Breaker

Features

Designed for light or medium demolition works. 2" to 4" plus hard concrete, bridge deck resurfacing and asphalt.

- 4 bolt back head
- Forged alloy construction
- Replaceable chuck bushing
- Removable front head (bolt on)
- Tool requires inline oiler
- Optional muffler



ZPB-40
Pavement Breaker

Features

Designed for medium demolition works on rocks and 3" to 4" thick concrete pavement and asphalt.

- 4 bolt back head
- Forged alloy construction
- Heavy duty side rod
- bolts and springs
- Replaceable chuck bushing
- Removable front head
- Internal oiler
- Optional muffler



ZPB-60
Pavement Breaker

Features

Designed for heavy demolition works, rocks, reinforced concrete and 5" to 6" plus thick concrete and pavement.

- 4 bolt back head
- Forged alloy construction
- Heavy duty side rod bolts and springs
- Replaceable chuck bushing
- Removable front head
- Internal oiler
- Optional muffler



ZPB-90
Pavement Breaker

DO NOT apply air pressure over 100 psi / 7 bar to these tools.

Model	Chuck Size inch(mm)	Bore inch(mm)	Stroke inch(mm)	Blows Per Minute bpm	Avg. Air Cons. cfm(m ³ /min)	Overall Length inch(mm)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT
ZPB-30	1 x 4-1/4(25 x 108) 7/8 x 3-1/4(22 x 83)	1.75(44)	3.375(86)	1550	49(1.4)	22.5(572)	34(15)	3/8(10)
ZPB-40	1 x 4-1/4(25 x 108)	1.69(43)	2.75(70)	1800	49(1.4)	31(777)	39(18)	3/8(10)
ZPB-60	1-1/4 x 6(32 x 154) 1-1/8 x 6(28 x 154)	2.25(57)	4.1(104)	1400	59(1.7)	25.63(651)	67(30)	3/4(19)
ZPB-90	1-1/4 x 6(32 x 154) 1-1/8 x 6(28 x 154)	2.625(67)	6.06(154)	1250	75(2.1)	28.75(730)	92.5(42)	3/4(19)



Backfill Tamper / Trench Digger

Features

This temper is designed for soil compaction, temporary filling of holes or asphalt packing. Applications range from foundation and pavement repair to the installation of power or telephone poles. Comes with standard 6" cast iron butt.

- Side handle throttle
- Precision ground alloy cylinder
- Requires whip hose (oiler optional)
- Optional butts - Pole of half moon butt / 6" Aluminum butt



ZBT-6
Back Fill Tamper

DO NOT apply air pressure over 100 psi / 7 bar to these tools.

Model	Bore inch(mm)	Stroke inch(mm)	Blows Per Minute bpm	Avg. Air Cons. cfm(m ³ /min)	Taper	Overall Length inch(mm)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT
ZBT-6	1.5(38)	5.5(140)	800	38.5(1.1)	804	48.25(1226)	40(18)	1/2(13)

Features

Designed with long reach handle for digging in trenches & foundations. Used for clay, hardpan or frozen ground.

- 4 bolt back head & one piece cylinder
- Forged alloy long handle
- Removable front head
- Replaceable chuck bushing
- Internal oiler
- Optional muffler



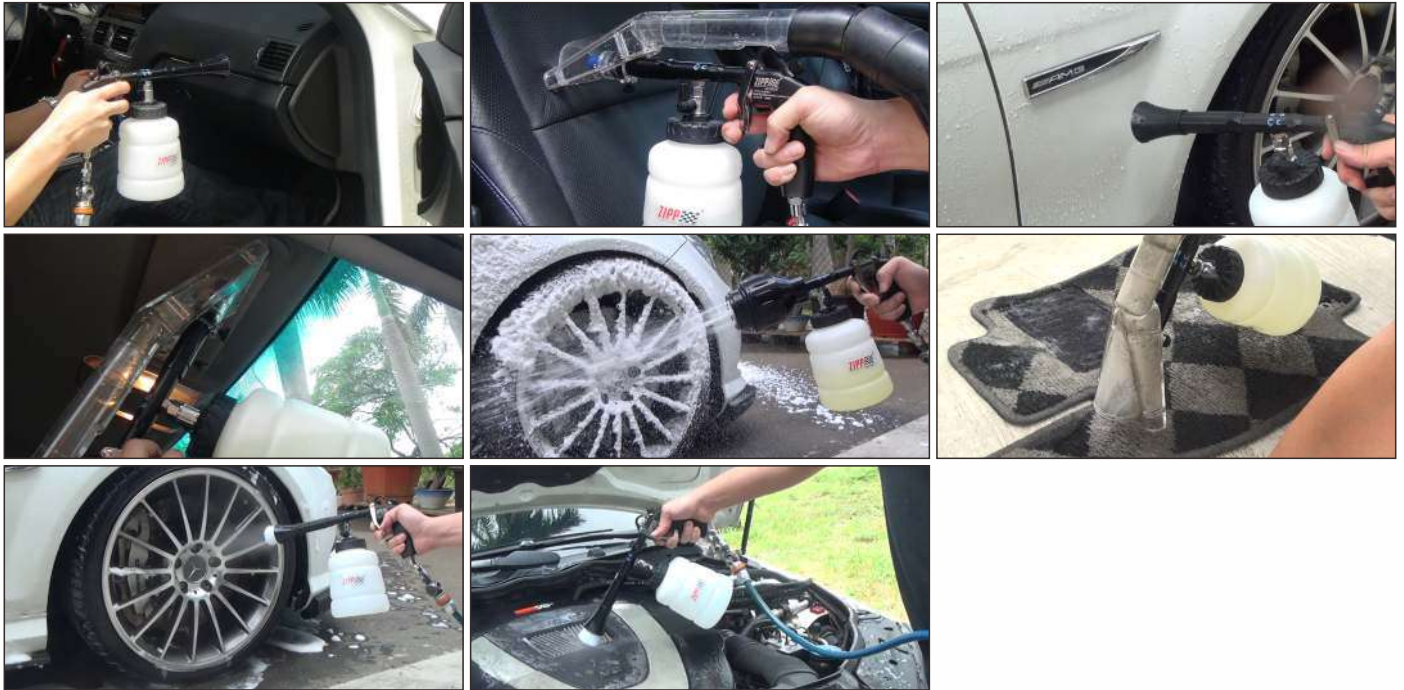
ZTD-19
Trench Digger

DO NOT apply air pressure over 100 psi / 7 bar to these tools.

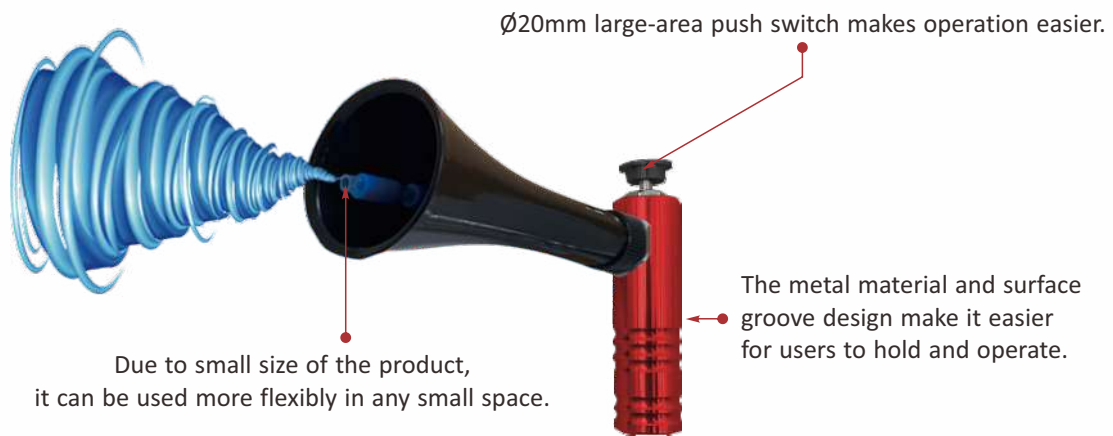
Model	Chuck Size inch(mm)	Bore inch(mm)	Stroke inch(mm)	Blows Per Minute bpm	Avg. Air Cons. cfm(m ³ /min)	Overall Length inch(mm)	Net Weight lbs(kgs)	Air Inlet Size inch-NPT/PT
ZTD-19	1 x 4-1/4(25 x 108) 7/8 x 3-1/4(22 x 83)	1.69(43)	2.75(70)	1800	49(1.4)	31(777)	39(18)	3/8(10)

Features

- Patented water atomization mechanism.
- Patented 2 in 1 cap for use with regulator bottle or PET bottles.
- Easiest and fastest wet or dry cleaning tool for automotive interiors, engine bay, carpets, floor mats, etc.



The Handheld high-intensity rotating air flow dust blow gun. It is different from the commercially available blow gun. It is designed with a special hose and uses high-pressure air to generate high-speed rotation and then develop high-intensity rotating air flow which can clean dust / foreign matter / dewatering.



Storm Cleaning Gun / Foam Gun



ZBG-1211
Palm-shaped blow gun



ZTG-1211 Plastic tube

ZTG-1211S Stainless tube
Storm Cleaning Gun



For USA For EUROPE

ZTG3125 Ball type
Storm cleaning gun with brush

ZTG3125BS Ball type
Storm cleaning gun & suction kit (large cover)

ZTG3125BSS Ball type
Storm cleaning gun & suction kit (small cover)



ZCCWT-1311BS
Large cover suction kit



Tube type
ZTG1311A Tube type
Storm cleaning gun with brush

ZTG1311BS Tube type
Storm cleaning gun & suction kit (large cover)

ZTG1311BSS Tube type
Storm cleaning gun & suction kit (small cover)



ZCTB-3125BSS
Small cover suction kit



ZTG-1211N Plastic tube

ZTG-1211SN Stainless tube
Storm Cleaning Gun



ZFG1411
Foam Gun

Model	Free Speed rpm	CUP	L*W*H mm	Avg. Air Cons. cfm	Net Weight lbs(kgs)	Operating Air Pressure psi	Air Inlet Size inch-NPT/PT	
ZBG-1211	6000	–	156*104	2.8(80)	0.38(0.171)	90	1/4	
ZTG3125	8000	1L	330*120*240	9(255)	1.54(0.7)	90	1/4	can't sell to USA
ZTG3125BS	8000	1L	360*120*275	9(255)	2.65(1.2)	90	1/4	can't sell to USA
ZTG3125BSS	8000	1L	360*120*275	9(255)	2.4(1.1)	90	1/4	can't sell to USA
ZTG1311A	8000	1L	330*120*240	9(255)	1.54(0.7)	90	1/4	can't sell to USA
ZTG1311BS	8000	1L	360*120*275	9(255)	2.65(1.2)	90	1/4	can't sell to USA
ZTG1311BSS	8000	1L	360*120*275	9(255)	2.4(1.1)	90	1/4	can't sell to USA
ZTG1211	3000	1L	305*120*240	6(170)	1.35(0.61)	90	1/4	
ZTG1211S	3000	1L	305*120*240	6(170)	1.35(0.61)	90	1/4	
ZTG1211N	–	–	305*43*160	6(170)	0.88(0.4)	90	1/4	
ZTG1211SN	–	–	305*43*160	6(170)	0.88(0.4)	90	1/4	
ZFG1411	–	1L	295*120*260	13(368)	1.76(0.8)	90	1/4	

⬡ **Brushless BOBTAIL® / NEOBOLT® Tool** ⬡

Features

- Riveting tools developed and designed specifically for solar panel Installation.
- The nozzle and claw are CNC processed by special alloy steel material to reduce the frequency of replacement of worn parts.
- Built-in brushless motor system, durable and stable working performance.
- Transmission mechanism adopts screw mechanism to meet the requirements of large pulling force operation.
- The internal parts of the whole machine achieve integrated design scheme, excellent production, safe and reliable.
- The starting switch is non-contact induction switch, which greatly improves the working life of the switch.
- The charger and battery meet the CE safety standard, fireproof and explosion-proof, using temperature control protection, can realize 1 hour fast charging.



ZCR1026BL
Brushless BOBTAIL® / NEOBOLT® Tool

Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Battery (Charging Time)	Charger	Net Weight (without Battery) lbs(kgs)	Rivet Range
ZCR1026BL	2248(1020)	1(26)	18V 2.0Ah (Approx. 60mins)	AC100V~240V	4.41(2)	M6(Aluminum)

BOBTAIL® IS A REGISTERED TRADEMARK OF HOWMET AEROSPACE. NEOBOLT® IS A REGISTERED TRADEMARK OF AVDEL UK LIMITED.

Cordless Brushless Rivet Tool

Features

- Special Anti-off Nozzle design to avoid rivets failing down.
- Automatic Pin Removal, (no need to tilt the tool) and make shortest processing time.
- A larger riveting stroke (28mm), capable of riveting 6.4x22mm blind rivets.
- If specially riveting 6.4mm structural rivets such as hemlok, monobolt, magna-lok, or 6.4mm stainless steel rivets should be matched with 18V / 4.0Ah Battery.



Accessories

- ZCR2028BL Handle
- Battery*2
- Charger
- 5 Nosepieces (3.2/ 4.0/ 5.0/ 6.0/ 6.4 mm)
- Special Wrench
- Instructions
- One Big Mandrel Collector and One Small Mandrel Collector
- High Quality Tool Box



ZCR2028BL

Cordless Brushless Rivet Tool

Product Details

 <p>KD18BS Match 18V Bosch Battery</p>  <p>KD18MT Match 18V Makita Battery</p>  <p>KD18MW Match 18V Milwaukee Battery</p>			<p>3.2 mm: Approx.1300 PCS/ Battery Charge</p> <p>4.0 mm: Approx.1150 PCS/ Battery Charge</p> <p>5.0 mm: Approx.1000 PCS/ Battery Charge</p> <p>6.0 mm: Approx.900 PCS/ Battery Charge</p> <p>6.4 mm: Approx.800 PCS/ Battery Charge</p>
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Optional Battery Adapters

Anti-off Nozzle and Automatic Pin Collecting Design

Riveting Datas(Steel Blind Rivets)

Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Battery (Charging Time)	Charger	Net Weight (without Battery) lbs(kgs)	Nozzle Spec
ZCR2028BL	4496(2040)	1-7/64(28)	18V 2.0Ah (Approx. 55mins)	AC100V~240V	4(1.82)	3.2, 4.0, 5.0, 6.0, 6.4mm

Cordless Rivet Tool

Features

- Brushless Motor for longer service life.
- 30kN high pull force & long stroke length for Ultimate versity.
- 18V/4.0Ah DC Lithium battery system, DC BL motor.
- Install Huck Magna Grip, C6L Lockbolt, hemlok, monobolt and megna-lok.



Accessories

- ZT3031BL Tool (exclude any nose assemblies)
- Battery*2
- Charger
- Special Wrench
- Blow Mold Case

ZT3031BL
Cordless Rivet Tool

Product Details

 <p>KD18BS Match 18V Bosch Battery</p> <p>KD18MT Match 18V Makita Battery</p> <p>KD18MW Match 18V Milwaukee Battery</p>		 <p>Huck Magna Grip 4.8mm (3/16"): Approx.1200 PCS/ Battery Charge Huck Magna Grip 6.4mm (1/4"): Approx.700 PCS/ Battery Charge C6L Lockbolt 4.8mm (3/16"): Approx.1200 PCS/ Battery Charge C6L Lockbolt 6.4mm (1/4"): Approx.700 PCS/ Battery Charge Hemlok 7.8mm(5/16"): Approx.700 PCS/ Battery Charge Hemlok / monobolt / megna-lok: 6.4mm: Approx.900 PCS/ Battery Charge</p>
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Optional Battery Adapters

Nose Assemblies

Riveting Datas(Steel Rivets)

Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Battery (Charging Time)	Charger	Net Weight (without Battery) lbs(kgs)	Fastener Capacity
ZT3031BL	6744(3060)	1-7/32(31)	18V 4.0Ah (Approx. 110mins)	AC 100V~240V	5.25(2.38)	Huck Magna Grip 4.8mm (3/16") 6.4mm (1/4") C6L Lockbolt: 4.8mm (3/16") 6.4mm (1/4") Hemlok: 7.8mm (5/16") Hemlok / monobolt / megna-lok: 6.4mm (1/4")

Cordless Brushless Rivet Nut Tool

Features

- Brushless motor, longer duration.
- Suitable for M3-M12 all materials rivet nut and rivet nut studs.
- Convenient to use, auto spin on/ off and adjustable stroke.
- Intelligently records and displays the quantities of rivet nut or rivet stud used.
- ZRN2408BL also can compatible with MINOVA AC Adapter.



Accessories

- ZRN2408BL Handle (exclude any nose assemblies)
- Battery*2
- Charger
- Special Wrench
- High Quality Tool Box



ZRN2408BL
Cordless Brushless Rivet Nut Tool

Product Details

 <p>KD18BS Match 18V Bosch Battery</p>  <p>KD18MT Match 18V Makita Battery</p>  <p>KD18MW Match 18V Milwaukee Battery</p>		<p>M3 (6-32 UNC) (1900 PCS/ Battery) M4 (8-32 UNC) (1700 PCS/ Battery) M5 (10-24 UNC) (1500 PCS/ Battery) M6 (1/4-20 UNC) (1300 PCS/ Battery) M8 (5/16-18 UNC) (1000 PCS/ Battery) M10 (3/8-16 UNC) (900 PCS/ Battery) M12 (800 PCS/ Battery)</p>  <p>AC Power Adapter Available</p>	 <p>Rivet Nut</p> <p>Rivet Nut Stud</p>
Optional Battery Adapters	Riveting Datas(Stainless Steel Rivet Nuts)		

Model	Traction Power lbf(kgf)	Stroke Length inch(mm)	Battery (Charging Time)	Charger	Net Weight (without Battery) lbs(kgs)	Mandrel Spec
ZRN2408BL	5395(2448)	5/16(8)	18V 2.0Ah (Approx. 55mins)	AC100V~240V	4.54(2.06)	M3, M4, M5, M6, M8, M10, M12

Features

- Two-speed gearbox, adjustable speed.
- LED lighting work area.
- Ergonomic grip, soft grip.
- Forward and reverse mode.
- 20+1 torque adjustment, suitable for drilling and screwdrivers.



ZCD9112

Brushless Driver With Torque Control



ZCD9113

Brushless Drill With Torque Control



12V Li-Ion Battery



Charger

Model	Chuck Size inch(mm)	Max. Torque ft-lb(Nm)	Free Speed rpm	Torque Setting	Voltage DC
ZCD9112	3/8(10)	22.1(30)	L: 350 / H: 1250	20+1	12
ZCD9113	1/4(6)	22.1(30)	L: 350 / H: 1250	20+1	12

ZCHD9216

Brushless Hammer Drill

ZCHD9216-B

Brushless Hammer Drill-Bare Tool

Features

- Brushless motor, lightweight, more functions, longer use time.
- 20+1 stage torque adjustment.
- Auxiliary side handles increase convenience and safety.
- Continuously variable speed switch for better control.



All models supply with 2 pcs BT-DX0051 4.0Ah batteries, 1 pc CG-DX0030 charger in Blow Mold Case.

Model	Chuck Size inch(mm)	Max. Torque ft-lb(Nm)	Free Speed rpm	Torque Setting	Voltage DC	Net Weight lbs(kg)
ZCHD9216	1/2(13)	100(135)	L: 500 / H: 2000	20+1 with 3 functions	20	3.15(1.43)

ZCID9413 Brushless Impact Driver
ZCID9413-B Brushless Impact Driver-Bare Tool

Features

- Brushless EC motor, lightweight, more functions, longer use time.
- Four speed/torque selections.
- Intelligent speed adjustment mode to avoid overlocking.
- Compact size, lightweight, suitable for long-term operations.
- Continuously variable speed switch makes locking work easier to control.



All models supply with 2 pcs BT-DX0051 4.0Ah batteries, 1 pc CG-DX0030 charger in Blow Mold Case.

Model	Hex Collet inch(mm)	Max. Torque ft-lb(Nm)	Free Speed rpm	Impact Per Minute ipm	Voltage DC	L*W*H mm	Net Weight lbs(kg)
ZCID9413	1/4(6)	147(200)	L: 1000 / M: 2400 H: 3800 / S: 2750	2200	20	130*65*200	2.29(1.04)

ZAG9611 Brushless Angle Grinder
ZAG9611-B Brushless Angle Grinder-Bare Tool

Features

- Professional grade electronically controlled brushless motor.
- Intelligent control and adjustment, multiple protection design, extend tool life.
- Ergonomic handle design, lightweight and portable.
- Soft start design.
- Tool-free installation of protective cover, quick adjustment of angle.



All models supply with 2 pcs BT-DX0051 4.0Ah batteries, 1 pc CG-DX0030 charger in Blow Mold Case.

Model	Disk dia. inch(mm)	Disk hole dia. inch(mm)	Max cutting depth inch(mm)	No load speed rpm	Arbor Size	Dimension mm	Voltage DC	Weight with Li-ion battery pack lbs(kgs)
ZAG9611	5(125)	7/8(22.23)	1-1/8(29)	8000	5/8"-11(M14)	300x230x101	18	3.08(1.4)

⬡ **Cordless Impact Wrench** ⬡

ZCIW9562 Friction Ring Anvil 3/8" Brushless Impact wrench
ZCIW9562-B Friction Ring Anvil 3/8" Brushless Impact wrench-Bare Tool



Features

- Brushless motor delivers up to 400Nm of torque.
- 3 speed/torque selections.
- Smart reverse mode for loosening bolts/nuts, tool stops impact and rotation.
- Compact size, lightweight, suitable for long-term operations.
- Continuously variable speed switch makes locking work easier to control.

All models supply with 2 pcs BT-DX0051 4.0Ah batteries, 1 pc CG-DX0030 charger in Blow Mold Case.

Model	Hex Collet inch(mm)	Max. Torque ft-lb(Nm)	Free Speed rpm	Impact Per Minute ipm	Voltage DC	L*W*H mm	Net Weight lbs(kg)
ZCIW9562	1/2(13)	295(400)	L: 1000 / M: 2200 H:3500 / Smart Reverse	L: 2000 / M: 3200 H: 4600	20	137*71*200	2.31(1.05) w/o battery

● Max. Bolt Diameter: M20

ZCIW9566 Friction Ring Anvil 1/2" Brushless High Torque Impact Wrench
ZCIW9566-B Friction Ring Anvil 1/2" Brushless High Torque Impact Wrench-Bare Tool
ZCIW9567 Friction Ring Anvil 3/4" Brushless High Torque Impact Wrench
ZCIW9567-B Friction Ring Anvil 3/4" Brushless High Torque Impact Wrench-Bare Tool



Features

- Professional-grade electronically controlled brushless motor for long service life.
- high torque wrench, 4-stage speed adjustment.
- Intelligent reverse mode, the tool will stop impact and rotation after the bolt/nut is loose.
- All-metal gearbox, high strength and long life.
- Continuously variable speed switch makes locking work easier to control.
- Excellent shock-absorbing design greatly improves durability.

All models supply with 2 pcs BT-DX0051 4.0Ah batteries, 1 pc CG-DX0030 charger in Blow Mold Case.

Model	Hex Collet inch(mm)	Max. Torque ft-lb(Nm)	Torque settings ft-lb(Nm)	Free Speed rpm	Impact Per Minute ipm	Voltage DC	L*W*H mm	Net Weight lbs(kg)
ZCIW9566	1/2(13)	737(1000)	Mode1: 74(100), Mode2: 221(300) Mode3: 516(700), Mode4: 737(1000) Mode5: Smart Reverse	1800	2400	20	235*85*203	6.38(2.9)
ZCIW9567	3/4(19)	782(1060)	Mode1: 78(106), Mode2: 236(320) Mode3: 546(740), Mode4: 782(1060) Mode5: Smart Reverse	1800	2400	20	235*85*203	6.5(2.95)

● Max. Bolt Diameter: M24

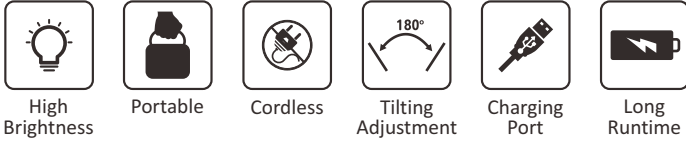
LED Work Lights

ZL-9151-B

20V 1000/2000Lm LED Work Light-Bare Tool

Features

- Compact size, removable and light weight.
- 180° tilt six position lamp head adjustment.
- USB port to charge mobile devices.
- Two brightness adjustment modes.

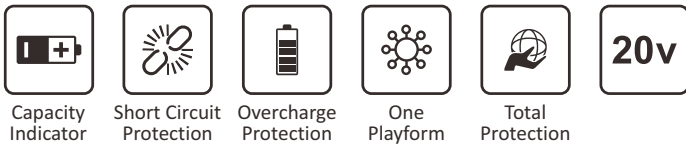


All model supplied bare, battery and charger need to purchase separately.

Model	Low output	High output	Color temp.	USB port output	Voltage DC	Weight with Li-ion battery pack lbs(kgs)
ZL-9151-B	1000 Lm, Battery run time 8Hours	2000 Lm, Battery run time 4Hours	6000K~7000K	5V/1A	20	3.86(1.75)

Features

- Soft grip provides the best protection from falling off.
- Robust bracket & structure protects battery cells and increases the cooling effect.
- Best cooling & ventilation design efferently reduce battery temperature.



Optional						
Li-ion Battery Pack	Description	Li-ion Battery Pack	Description	Li-ion Battery Pack	Description	
 BT-DX0030	20V 2.0Ah Li-ion	 BT-DX0051	20V 4.0Ah Li-ion	 BT-DX0054	20V 8.0Ah Li-ion	
	Dimension		Dimension		Dimension	
	120x80x50 mm		120x80x68 mm		145x80x78 mm	
	Weight		Weight		Weight	
0.88 lbs(0.4 kgs)	1.54 lbs(0.7 kgs)	2.43 lbs(1.1 kgs)				
Charger	Description		Power cord (for charger use)			
 CG-DX0030	Input: AC100~240V 50/60 Hz Output: DC 20V, Rated Output Current: 4A		 UL	 VD	 AS	 UK
	Dimension	Weight	Part No.	Description	Weight	
	180x490x520 mm	1.12 lbs(0.51 kgs)	CG-DX0030-UL	for USA region	0.13lbs(62g)	
Charger	Description		CG-DX0030-VD	for Europe region	0.17lbs(79g)	
 CG-DX0031	Input: AC100~240V 50/60 Hz Output: DC 20V, Rated Output Current: 5A		CG-DX0030-AS	for Australia region	0.23lbs(105g)	
	Dimension	Weight	CG-DX0030-UK	for England region	0.33lbs(151g)	
	180x490x520 mm	1.12 lbs(0.51 kgs)	<ul style="list-style-type: none"> • CG-DX0030: Battery Capacity 2.0Ah/40min, 4.0Ah/80min, 8.0Ah/160min • CG-DX0031: Battery Capacity 2.0Ah/26min, 4.0Ah/48min, 8.0Ah/120min 			

LED Work Lights

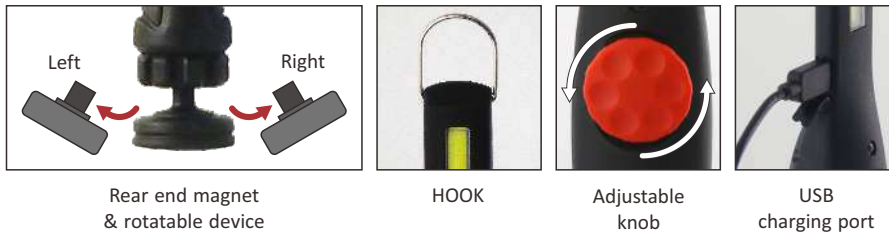


ZL-9470W
15W COB LED
Work Light - White

ZL-8800W
8W COB LED
Work Light - White

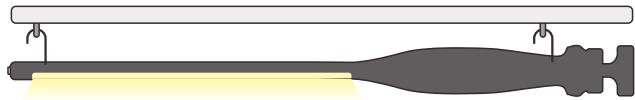
ZL-5800W
5W LED
Work Light - White

ZL-5641W
8W COB LED
Work Light - White



Model	Capacity of LED	Lighting up	Distance illumination of 50cm	Frequency	Lithium Battery	L*W*H mm	Net Weight lbs(g)
ZL-9470W	15W COB LED	2.5H(full light), 6H(micro light)	935 LUX / 458 LUM	50/60Hz	3.7V 2200mAh	375*45*35	0.44(200)
ZL-8800W	8W COB LED	2.5H(full light), 6H(micro light)	450 LUX / 280 LUM	50/60Hz	3.7V 2200mAh	445*38*33	0.5(226)
ZL-5800W	5W LED	2.5H(full light), 6H(micro light)	450 LUX / 260 LUM	50/60Hz	3.7V 2200mAh	380*38*33	0.51(230)
ZL-5641W	8W COB LED	2.5H(full light), 6H(micro light)	450 LUX / 318 LUM	50/60Hz	3.7V 2200mAh	210*26*28	0.28(127)

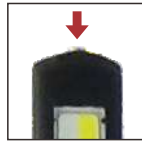
LED Work Lights



Front end hook



Rear end hook



Front end magnet



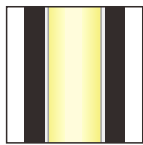
ZL-8740W
8W COB Light
3W LED TIP Light

- Use 8W light to make large area lighting.
- Use 3W lights for depth lighting.



ZL-8740WU
8W COB Light
3W LED Tip UV light

- Use 8W light to make large area lighting.
- Engine interior refrigerant detection by UV light.



ZL-9880W
20W LED - White



ZL-9880WY
Dual color 10W LED
- White & Yellow

- Single White color or Dual White & Yellow colors.
- Dual color model is perfect for car polishing inspection.
- Engine room lighting.



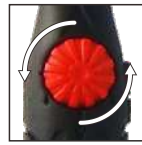
ZL-9880WU
Dual color 10W LED
- White & UV light

- Dual White color & UV light
- Engine interior refrigerant detection by UV light.
- Engine room lighting by white light.



ZL-9880WR
Dual color 10W LED
- White & Red flashing light

- Dual White color & Red flashing light
- Red flashing warning light.



Adjustable knob



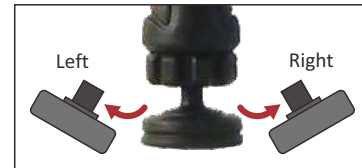
USB charging port



3W white or UV light with adjustable focal length



Back hook with magnet



Rear end magnet & rotatable device



Model	Capacity of LED	Lighting up	Distance illumination of 50cm	IP	Lithium Battery	L*W*H mm	Net Weight lbs(g)
ZL-9880W	20W	3.5H(full light), 6H(micro light)	880 LUM / 1300 LUX (White)	IP54	3.7V 3350mAh	475*50*42	0.62(280)
ZL-9880WY	10W	3.5H(full light), 6H(micro light)	620 LUM / 1000 LUX (White) 600 LUM / 950 LUX (Yellow)	IP54	3.7V 3350mAh	475*50*42	0.62(280)
ZL-9880WU	10W	3.5H(full light), 6H(micro light)	620 LUM / 1000 LUX (White)	IP54	3.7V 3350mAh	475*50*42	0.62(280)
ZL-9880WR	10W	3.5H(full light), 6H(micro light)	620 LUM / 1000 LUX (White) 142 LUM / 170 LUX (Red)	IP54	3.7V 3350mAh	475*50*42	0.62(280)
ZL-8740W	8W	3H	400 LUM (8W)	IP44	3.7V/2200mAh	230*30*40	0.32(145)
ZL-8740WU	8W	3H	400 LUM (8W)	IP44	3.7V/2200mAh	230*30*40	0.32(145)

- Yellow / white mixed light (ZL-9880WY): 770 LUM / 1400 LUX
- Frequency: 50/60Hz



Certified Cordless Screwdriver Genius-30 Series According to ISO 5359, VDI / VDE 2647

Patented clutch system

- The latest patented two-stage clutch design, CMK high-precision locking.
- Over a million use lifespans.

Patented power-saving motor

- Brushless motor, maintenance-free.
- Patented motor with the latest technology, high performance and efficiency.



Ergonomic grip design

- Safe, special non-slip material grip.
- LED work light.
- Excellent sense of balance.

New board design

- fault display function. (optional software)

Battery

- High-capacity lithium battery: new lithium battery. (lightweight)
- Patented energy-saving mode: power-saving mode, normal mode, full-on mode, longer battery life and locking times.
- Long-lasting battery: 12.0V/4.0Ah

Certified Cordless Screwdriver



**Certified Cordless Screwdriver
Genius-30 Series**

According to ISO 5359, VDI / VDE 2647







Genius 30 Series		The bits specification: 6.35 mm(1/4" Hex) For Industrial Use.		Specification are subject to change without prior notice.	
Model	Torque Range Nm	Idle Speed rpm	Voltage DC	Weight w/2.0Ah battery lbs(kgs)	CMK Value According to VDI 2647
ZBCP031600	0.8~3.0	600~1600	10.8	2.6(1.18)	CMK>2.2±10%
ZBCP051900	1.0~7.0	1000~1900	10.8	2.6(1.18)	CMK>2.2±10%
ZBCP061550	1.0~7.0	800~1550	10.8	2.6(1.18)	CMK>2.2±10%
ZBCP081100	1.0~10.0	700~1100	10.8	2.6(1.18)	CMK>2.2±10%
ZBCP101200	1.0~12.0	600~1200	10.8	2.6(1.18)	CMK>2.2±10%
ZBCP121000	5.0~15.0	500~1000	10.8	2.6(1.18)	CMK>2.2±10%

[Custom-made] Customized models available upon request. Please contact us for further information.

- New Patented Magnetic Levitation Motor
- Non-Vibration Bit Holder for A More Precise and Sensitive Tightening Process
- High Accuracy: CMK Value >2.2 ± 10%
- CMK Test Report Included(Dynamic)
- USB Interface for Parameter setting on Speed
- New PCB-Board: Diagnostic and Report

Optional				Charger	
Li-ion Battery Pack	Description	Li-ion Battery Pack	Description		
	12V 2.0Ah Li-ion		12V 4.0Ah Li-ion		
	Dimension		Dimension		
	120x80x50 mm		120x80x68 mm		
	Weight		Weight		
1M7530	0.584 lbs(0.265 kgs)	1M7535	0.97 lbs(0.44 kgs)	6C1001	
				Description	
				Input: 100~240 VAC, Charge Time: 60min	

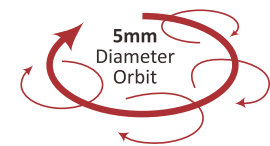
Power cord (for charger use)

						
CH002-02	CH002-03	CH002-04	CH002-05	CH002-06	CH002-07	CH002-08
for USA region	for India (Big) region	for Europe region	for UK region	for Australia region	for India (Small) region	for USA region

Hyper Sander

Features

- Random orbital electric sander use advanced brushless DC motor technology, without the need for an external power transformer.
- High-abrasion electric sander with 5 mm sanding stroke, ideal for coarse and intermediate sanding with effective dust removal.
- Connect to multi-hole sanding discs with radial holes.
- Powerful, low-noise and maintenance-free direct drive through a brushless 350W EC motor.
- Sanders are vacuum-ready using multi-hole backing pads with hook and loop attachment.
- For effective and effortless dry sanding of wood, plastic and composite parts, drywall as well as paints, varnishes and fillers.
- Digitally controlled variable speeds from 4,000 to 10,000 rpm to provide the ideal finish for a variety of applications. Perfectly balanced center of gravity for effortless work.



ZES-6DC
Brushless DC Sander - 5mm Orbit

Model	Orbital range mm	No load speed r/min	Frequency Hz	Input power W	Amperage A	Backing plate size mm	Dimension mm	Voltage V	Weight lbs(kgs)
ZES-6DC	5	4000~10000	50/60	350	3	150	310x110x150	120/220	2.43(1.1)

Industrial Vacuum Cleaner

Features

- Automatic syncs by both air tool and power tool.
- Lightweight and Powerful.
- Triple Filtration System.
- Light weight composite housing design.
- Use for both Electric & Air sanders.
- Two types startup control: manual or automatic startup.
- Speed adjustment for various sanding application.
- Ideal for wood furniture industry & automotive body shops.



ZVC5111ES

Industrial Vacuum Cleaner with Rack

Accessories

- 5M length vacuum & air hose set X 1
- Replaceable Filter X 1
- Dust collection bag X 1



ZVC5111E

Industrial Vacuum Cleaner

* Please specify the type of plug when ordering.

Model	Voltage	Power Consumption w	Max Vacuum mmH2O	Air Flow m ³ /min	Drum Capacity L	L*W*H mm	Net Weight lbs(kgs)
ZVC5111ES	220~240V	1200	2450	2.9	40	640*465*1290	54(24.5)
ZVC5111E	220~240V	1200	2450	2.9	40	640*465*500	35.3(16)

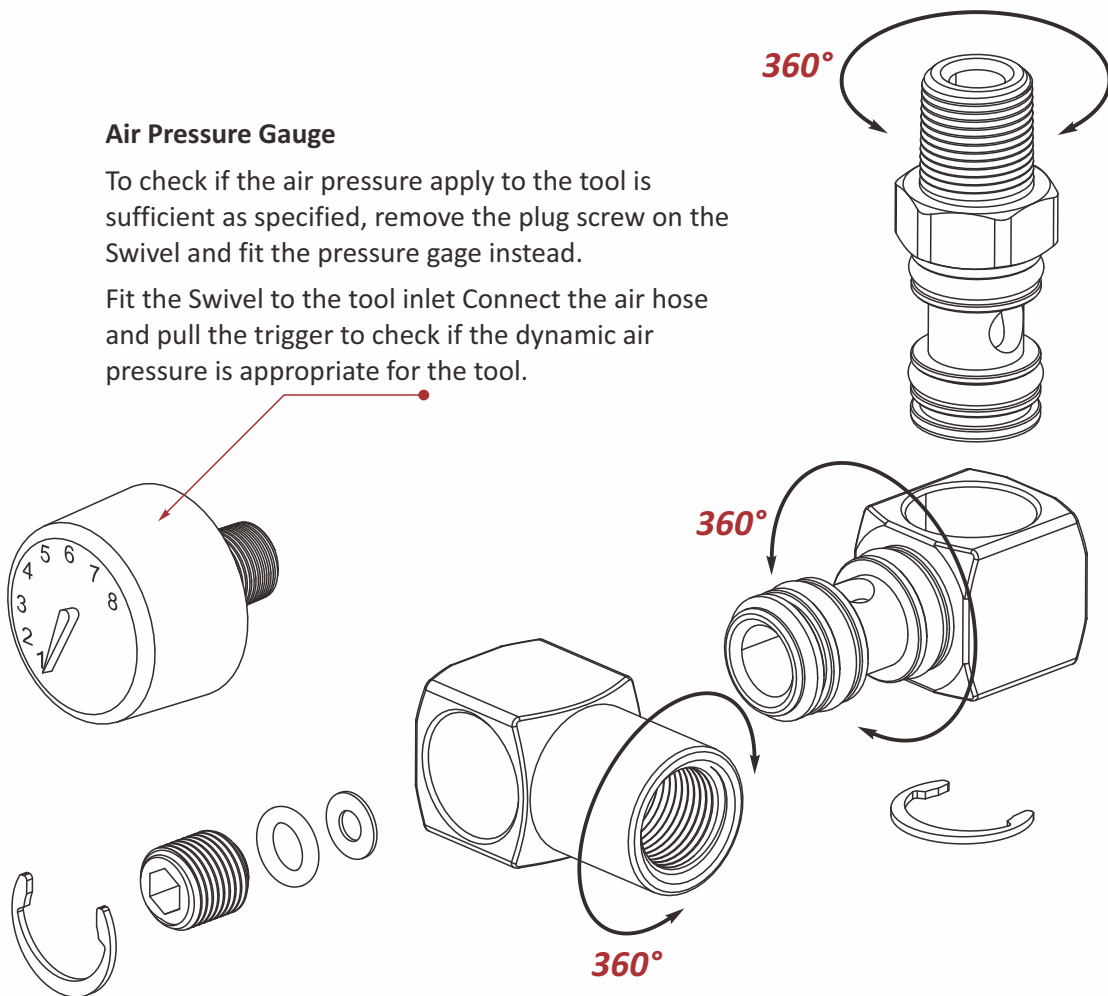
ZIPP SWIVEL-360° Free-directional rotation air hose universal joints.

- The ZIPP SWIVEL is a patented, uniquely designed "Universal Swivel Air Inlet Joint" that connects portable air tools to an air line. it swivels 360° to allow the hose hanging straight down to the floor no matter how the tool is held.
- The ZIPP SWIVEL is available in 5 types covering most popular sizes of Air tools in the field for superior maneuverability while increasing operator comfort and productivity.
- It will increase the life of air hoses and inlet fitting as well.
- The ZIPP SWIVEL can be efficiently used on Air Drills, Grinders, Polishers, Sanders, Staplers, Spray Gun, etc. It is **applicable with percussive or impact tools.**
- All types can be attached with a miniature 1" air pressure gauge for checking the most precise dynamic working air pressure right at the tool inlet.
- Unique pressure relief valve available as an option to prevent the tool working under abnormal higher air pressure.

Air Pressure Gauge

To check if the air pressure apply to the tool is sufficient as specified, remove the plug screw on the Swivel and fit the pressure gage instead.

Fit the Swivel to the tool inlet Connect the air hose and pull the trigger to check if the dynamic air pressure is appropriate for the tool.



Patent pending in other countries



U.S.A. PAT.:
4,823,835



P.R.C. PAT.:
ZL 2006 2 0001776.6

◻ Universal Swivel Air Inlet Joint ◻



ZA-922P(K)
1/4" Swivel Joint Composite



ZA-922(K)
1/4" Swivel Joint-Alum.



ZA-933(K)
3/8" Swivel Joint-Alum.



ZA-944(K)
1/2" Swivel Joint-Alum.



ZA-92R2(K)
1/4" Swivel Joint
w/Regulator



ZA-92S2(K)
1/4" Swivel Joint-Alum.
w/Full Close type Regulator



KIT
ZA-9XX(K)
Affix (K) denotes
the Swivel Joint
Packed with
Pressure Gauge



CA-1025B
1/4" Mini Oiler



82R2
1/4" Air Regulator

- Male thread: 1/4" NPT/PT
- Female thread: 1/4" PF
- Hex O.D.: 22mm



CA-1037B
3/8" Mini Oiler



AG18
Pressure gauge



ZA-5SG2
Pressure regulator w/gauge
3 units selectable:
psi, bar, Kpa



HN-G1
Digital Pressure gauge

Features

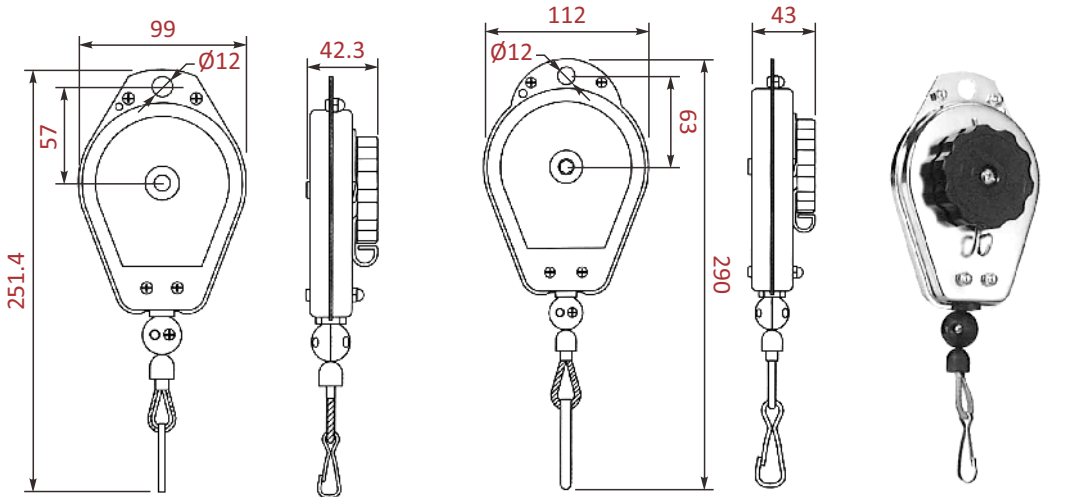
- Proof pressure: 200 psi
- Burst pressure: 250 psi (5 SEC)
- Accuracy: ± 1.2 psi ± 1 digit @ 25°C
- Media: clean air or non-corrosive gases
- Display: LCD size: 11 x 21 mm
- Battery: 1.5V DC x 2, non changeable
- Battery life: 3 yrs (working 1 hour/day) ; 2500 hrs (continue working)
- User interface: On/Off and change unit
- Operating temperature: 0~45 °C (32~115 °F)
- Storage temperature: -10~60 °C (14~140 °F)
- Face label: Toluene be able to wipe
- HN-G1 digital pressure gauge: IP63
- Auto-offtime set: 90 (SEC)
- Pressure port: brass 1/8" NPT male

Model	Pipe Thread Size -Male NPT/PT	Pipe Thread Size -Female PF	Side Width J*: Hex mm	Side Width J*: SQ. mm	Air Flow Rate m ³ /min	Material
ZA-922P	1/4	1/4	17	19	0-0.75	Nylon+GF+Teflon
ZA-922	1/4	1/4	17	19	0-0.75	Alum. Alloy & Steel
ZA-933	3/8	3/8	17	19	0-1.35	Alum. Alloy & Steel
ZA-944	1/2	1/2	22	25.4	0-1.95	Alum. Alloy & Steel
ZA-92R2	1/4	1/4	17	19	0-0.75	Alum. Alloy Brass & Steel
ZA-92S2	1/4	1/4	17	19	0-0.75	Alum. Alloy & Steel
82R2	1/4	1/4	22	-	0-0.75	Brass & Steel

Spring Balancer

Features

- Cost-efficient, practical and compact. It uses rotatory Adjusting Cover for easier tension adjustment without burden.
- Fast and convenient installation. In addition, anti-falling steel wire mounting holes are provided, which must be installed to avoid the failure of the original mounting location.
- The housing is made of rustproof iron shell. The steel wires and nylon ropes are available for option. Further, a ball-shape damper also can stop tool at a fixed height in its recover stroke.



ZSB600 / ZSB1200 / ZSB2000
Spring Balancer

ZSB3000 / ZSB5000
Spring Balancer

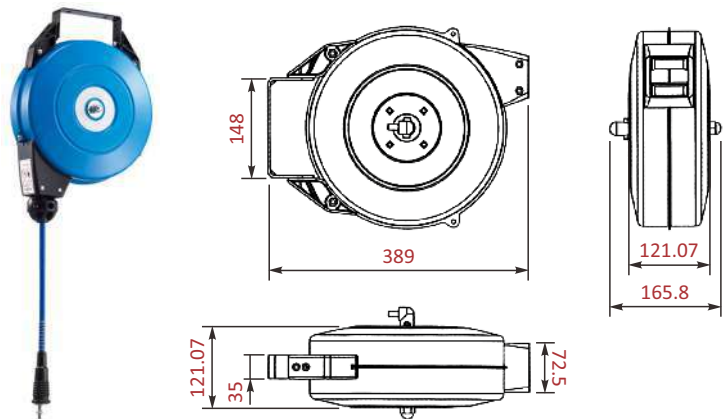
Tension Adjust Cap

Model	Capacity kg	Travel m	Rope option	Rope Dia mm	Net Weight lbs(kgs)
ZSB600	0.3~0.8	1.4	Nylon/Cable	2.5	1.08(0.49)
ZSB1200	0.6~1.5	1.4	Nylon/Cable	2.5	1.15(0.52)
ZSB2000	1.0~2.0	1.4	Nylon/Cable	2.5	1.17(0.53)
ZSB3000	1.5~3.0	1.4	Cable	2.5	1.68(0.76)
ZSB5000	3.0~5.0	1.4	Cable	2.5	1.79(0.81)

ZHR-10 Spring Balancer

Features

- Adopt 8mm inner dia, PU Braided hose.

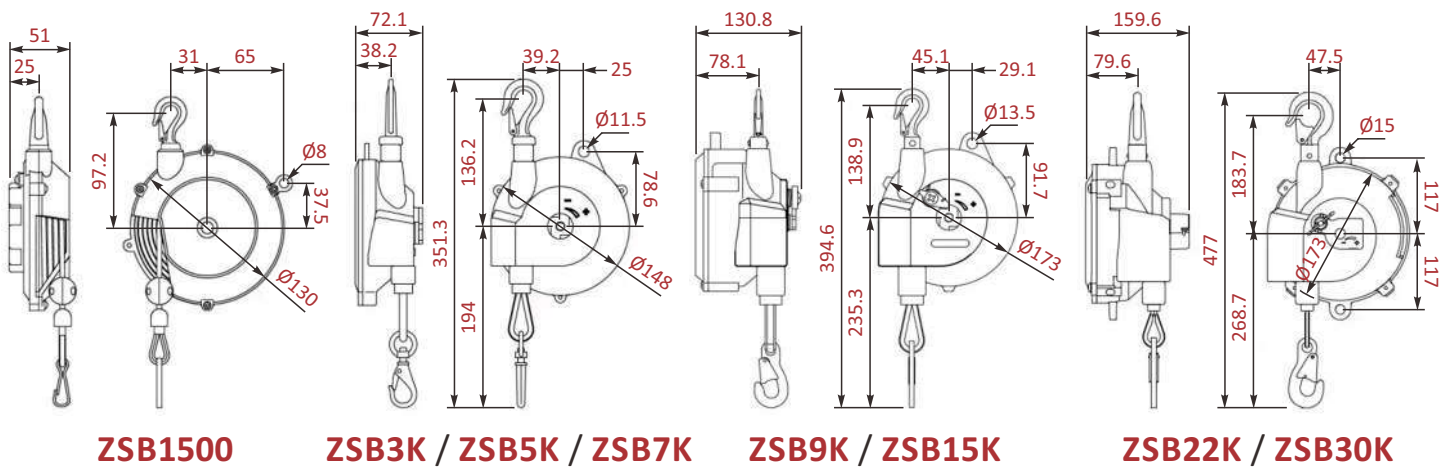


Model	Mox.pressure psi	Hose Length m	Hose Material	Hose Dia mm	Net Weight lbs(kgs)
ZHR-10	200	10	PU Braided	8*12	10.8(4.9)

Spring Balancer

Features

- Labor Saving: The spiral type outputs consistent suspension force.
- Productive: The user can easily drag the tool to where he wants and stop at easier access position to achieve smoother and more efficient operation.
- Efficient: The operator can handle the tool easily; thus, avoiding wasting time and consuming labor by lowering the tool and picking it again when taking the object at the same time.
- Cost-efficient: Rigid mechanism design makes the product more durable while bringing down the maintenance cost.
- Anti-Falling Device will lock the cable in case of spring breakage.

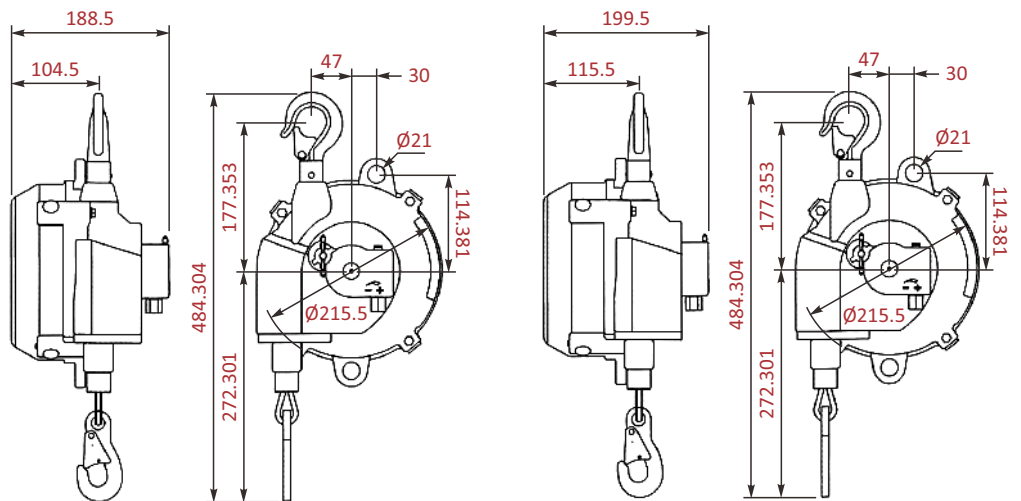


ZSB1500

ZSB3K / ZSB5K / ZSB7K

ZSB9K / ZSB15K

ZSB22K / ZSB30K



ZSB40K / ZSB50K

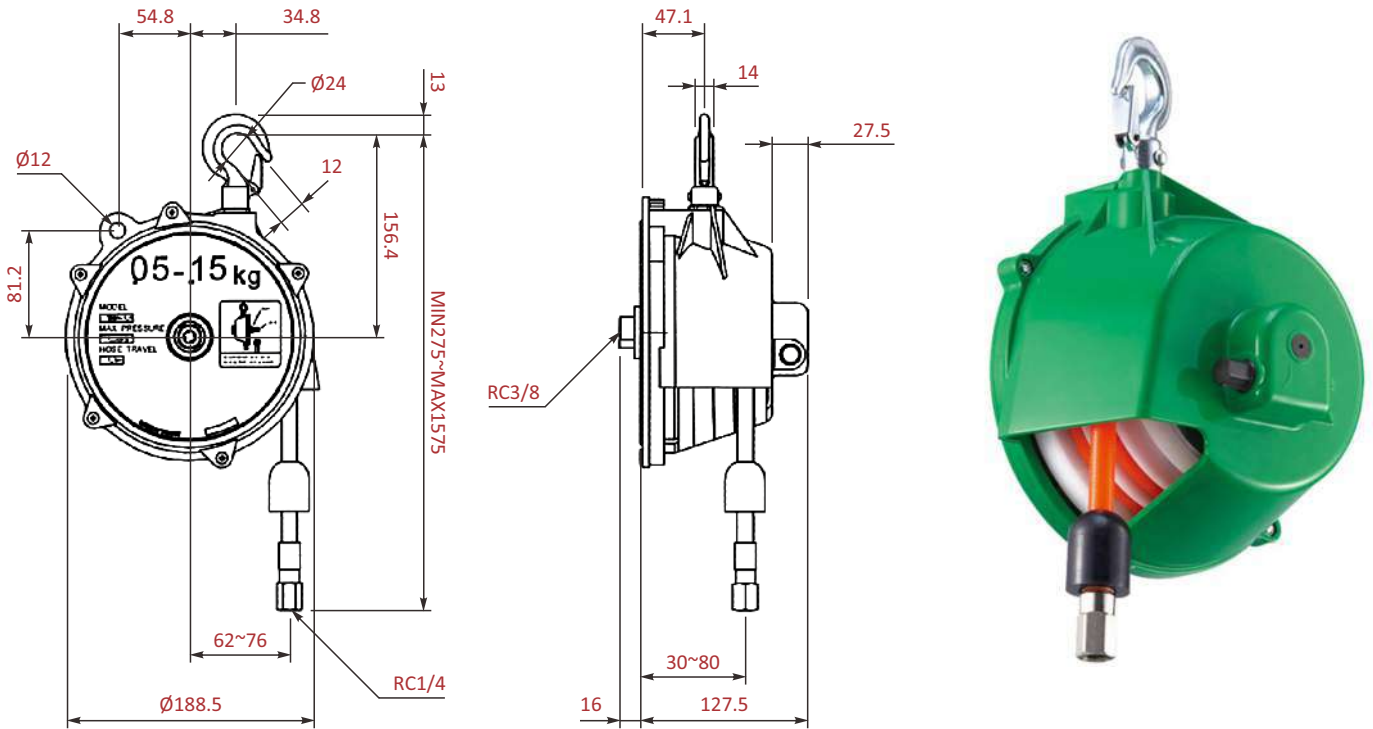
ZSB60K / ZSB70K

Model	Capacity kg	Travel m	Rope option	Rope Dia mm	Net Weight lbs(kgs)	Model	Capacity kg	Travel m	Rope option	Rope Dia mm	Net Weight lbs(kgs)
ZSB1500	0.1~1.5	1.3	Cable	2.0	1.61(0.73)	ZSB22K	15~22	1.5	Cable	4.8	16.98(7.7)
ZSB3K	1.5~3	1.3	Cable	3.2	3.81(1.73)	ZSB30K	22~30	1.5	Cable	4.8	18.3(8.3)
ZSB5K	3~5	1.3	Cable	3.2	4.01(1.82)	ZSB40K	30~40	1.5	Cable	4.8	21.4(9.7)
ZSB7K	5~7	1.3	Cable	3.2	4.08(1.85)	ZSB50K	40~50	1.5	Cable	4.8	22.3(10.1)
ZSB9K	5~9	1.3	Cable	4.0	7.91(3.59)	ZSB60K	50~60	1.5	Cable	4.8	24.5(11.1)
ZSB15K	9~15	1.3	Cable	4.0	7.96(3.61)	ZSB70K	60~70	1.5	Cable	4.8	25.1(11.4)

Spring Balancer

Features

- Adopting 8.0 mm inner diameter hose to provide enough air flow to air tool and equipment.
- It achieves neat and orderly production line for enhancing the working efficiency.
- Tool anti-falling device is provided in case of the spring breaking.
- The installation is fast and convenient with 360 degrees install hook.
- Worm gear provides more precise force adjustment.



ZTHB15 / ZTHB25 / ZTHB35 / ZTHB50 / ZTHB65
Spring Balancer



Model	Capacity kg	Travel m	Hose Material	Hose Dia mm	Net Weight lbs(kgs)
ZTHB15	0.5~1.5	1.3	PU Braided	8*12	4.9(2.2)
ZTHB25	1.5~2.5	1.3	PU Braided	8*12	5.1(2.3)
ZTHB35	2.5~3.5	1.3	PU Braided	8*12	5.3(2.4)
ZTHB50	3.5~5.0	1.3	PU Braided	8*12	5.3(2.4)
ZTHB65	5.0~6.5	1.3	PU Braided	8*12	5.5(2.5)

F.R.L. Units / Auto Drain



ZC-130-3A
3/8" F.R.L. Unit



ZC-130-4A
1/2" F.R.L. Unit



ZD-130
Auto Drain

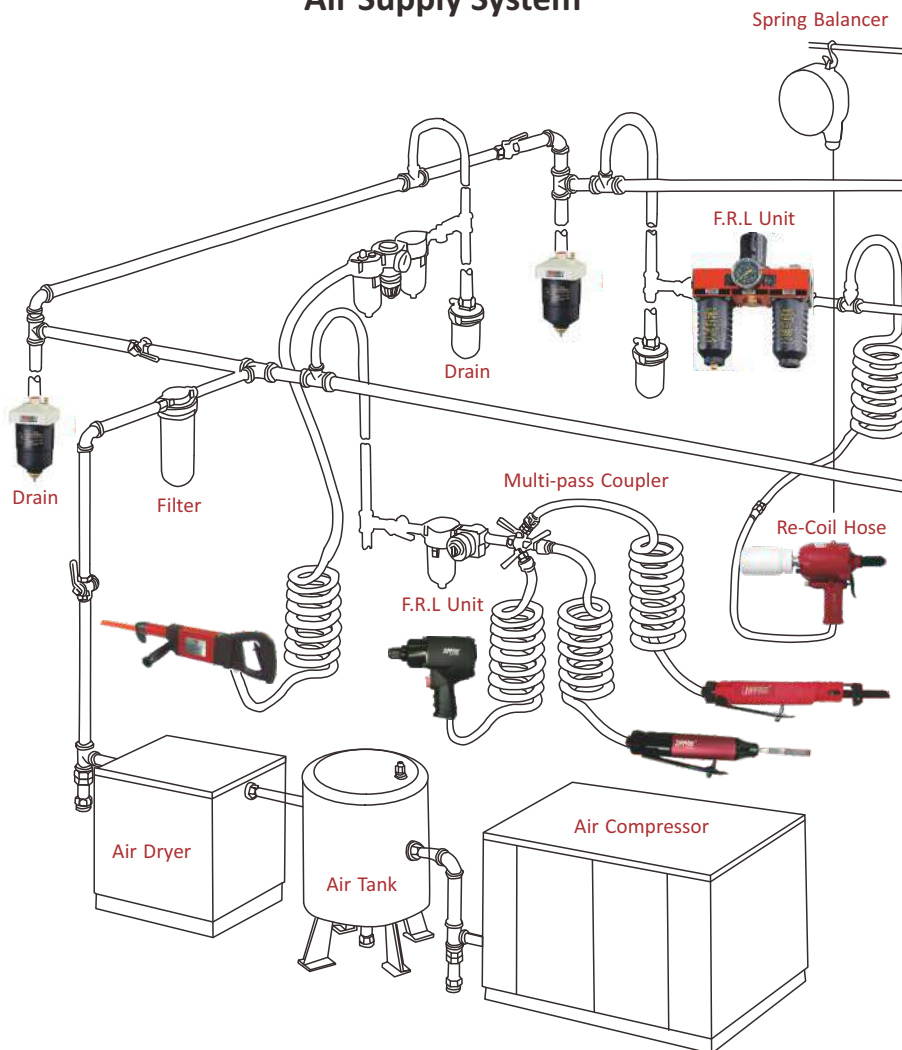
Model	Port size PT	Applied fluid	Max. pressure kgf/cm ² (psi)	Range of pressure kgf/cm ²	Filterable micron	Dropped flow l/minute	Ambient temperature °C	Lubrication method l/minute	Storage cc	Net Weight lbs(kgs)
ZC-130-3A	3/8	Air	10(140)	1.0~9.8	5~50	1250	5~50	30	120	6.39(2.9)
ZC-130-4A	1/2	Air	10(140)	1.0~9.8	5~50	1250	5~50	30	120	6.39(2.9)

● Discharge method: Auto discharge or Manual discharge.

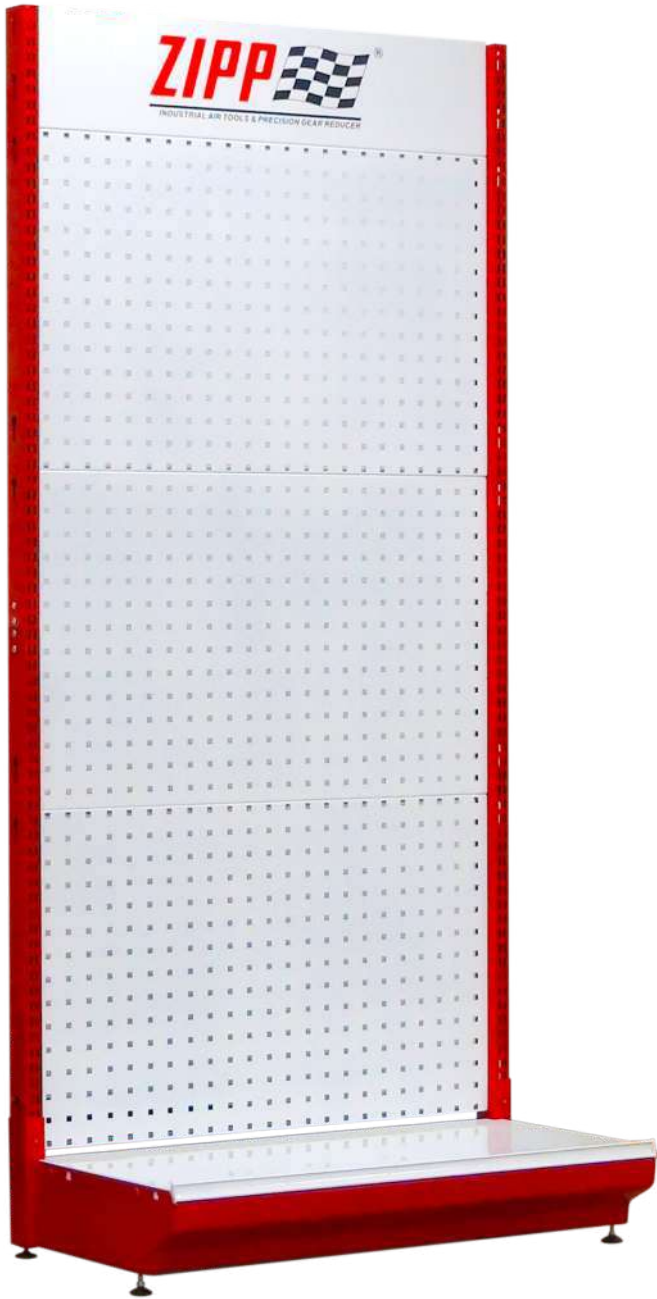
● Recommended Lubricator Oil: VG-32 or OM-300A

Model	Air pressure kgf/cm ²	Drainage cc	Temperature °C	Inlet	Usage	Cleaner	Outlook mm	Net Weight lbs(kgs)
ZD-130	2~9	100	10~63	1/2	Air Filter, Air Dryer	Soft Solvent	110 x 240	2.9(1.3)

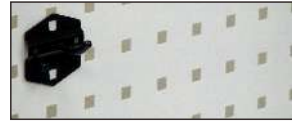
Air Supply System



⬡ Display Stand ⬡



ZDS-2
Display Stand



ZSH-1
1" Single Hook



ZDH-1
1" Double Hook



ZSH-2
2" Single Hook



ZDH-2
2" Double Hook



ZSH-4
4" Single Hook



ZDH-4
4" Double Hook



ZSH-8
8" Single Hook



ZDH-8
8" Double Hook




ZUH-1
U Shape Hook



ZDS-1S
Up Shelf w/ Bracket


Model	Over all size			Packing		
	W inch(mm)	D inch(mm)	H inch(mm)	N.W. kgs	G.W. kgs	Cuft
ZDS-2	37.2(945)	19.3(490)	82.7(2100)	31.5	33	2.73'
ZDS-1S	35.8(910)	15(382)	7.9(20)	3.5	3.9	0.3'

General Safety Guide

 Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the public to cause cancer, birth defects or other reproductive harm.


WARNING Some products with high pressure system and the following safety precautions must be followed at all time along with any other existing safety rules.

1. Read all manuals included with each product carefully. Be thoroughly familiar with the controls and the proper use of the equipment.
2. Only persons well acquainted with these rules of safe operation should be allowed to use the air tool.
3. Do not exceed any pressure rating of any component in the system.

 Do NOT exceed the maximum operating pressure of the air tool (normally 90PSI). The air tool could explode and result in death or serious injury.

WARNING

4. Disconnect the air tool from air supply before changing tools or attachments and during non-operation.

 Always wear approved safety glasses with shields & hearing protection.


WARNING

5. Do not wear loose fitting clothing or apparel which contains loose straps or ties, etc. which could become entangled in moving parts of the tool and results in serious personal injury.
6. Do not wear jewelry, watches, identifications, necklace. etc. when operating any tool, they may be caught in moving parts and result in serious injury.
7. Do not depress trigger when connecting the air supply hose.
8. Always use attachments designed for use with air powered tools. Do not use damaged or worn attachments.

 DO NOT use hand tool sockets. Use impact quality sockets only.

WARNING

9. Never trigger the tool when not applied to a work object. Attachments must be securely attached. Loose attachments can cause serious injury.
10. Protect air lines from damage or puncture.
11. Never point an air tool at oneself or any other person. Serious injury could occur.
12. Check air hoses for weak or worn condition before each use. Make sure all connections are secure.
13. Keep all nuts, bolts and screws tight and ensure equipment is in safe working condition.
14. Do not put hands near or under moving parts.

 Do NOT misuse the product, excessive exposure to vibration, work in awkward position and repetitive work motion.

WARNING

Maintenance

Air tools require lubrication throughout the lifetime of the tools. The air motor and bearing use compressed air to power the tool, due to the moisture of the compressed air will rust the air motor and other parts inside of the tools, therefore lubrication is required air daily. Failure to lubricate the air tool properly will dramatically shorten the life of the tool and will void the warranty.

 This air tool requires lubrication BEFORE initial use. also before and after each additional use.

WARNING

To lubricate the air tool manually:


1. Remove any attachment on the drive of air tools such as sockets, chisels and etc.
2. Disconnect the tool from the air supply source, place the air inlet faces up.
3. Depress the trigger or throttle and place about 5 c.c. of air tool oil into the air inlet. (Depressing the trigger or throttle will help circulating oil in the motor.)

NOTE:

Use SAE #10 grade oil if air tool oil is not available.

Keep out of the reach of children. If taken internally, do not induce vomiting, call a doctor immediately.

4. Connect the tool to air source, cover the exhaust end with a towel and run for about 20 to 30 seconds.

 Any excess oil in the motor is immediately expelled from the exhaust port. Always direct exhaust port away from people or objects.

WARNING



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