

## AVIATION TOOLS

Industrial Grade



# Industrial Cordless Screwdriver

Free Speed: 150~800 rpm



**ES-BS0712LS1-A** 150 rpm (Forward)  
*Low Speed*



**ES-BS0712LS1-B** 275 rpm (Forward)  
*Low Speed*



**Optional:**  
**HL70H-EA** for ES-B1004 Series  
*Indexable 17 Degree Offset Hi-Lok Head*



**ES-BS1004LS1-A** 150 rpm (Forward)  
*Low Speed*



**ES-BS1004LS1-B** 275 rpm (Forward)  
*Low Speed*



**Optional:**  
**HL70HA-E** for ES-B11005(6) Series  
*80 mm Offset Hi-Lok Head*



**ES-B11005A/E-30** High:800 / Low: 500 rpm (Forward)



**ES-B11006A/E-30** High:650 / Low: 450 rpm (Forward)

## Specification:

Model No.	Voltage (V)	Free Speed (rpm)	Torque Range (Torque Repeatability: ±3%)		Weight (w/o Battery)		Dimension L x H (mm) (w/o Battery)	Battery Pack	Battery Charger
			Nm Hard Joint (Soft Joint)	ft-lbs Hard Joint (Soft Joint)	kg	lbs			
ES-BS0712LS1-A	7.2	Forward: 150 Reverse: 1000	0.2 ~ 1.2 0.2 ~ 0.96	0.15 ~ 0.89 0.15 ~ 0.71	0.53	1.17	225 x 62	BP0730L x 2 pcs	BC08L01
ES-BS0712LS1-B	7.2	Forward: 275 Reverse: 1000	0.2 ~ 1.2 0.2 ~ 0.96	0.15 ~ 0.89 0.15 ~ 0.71	0.53	1.17	225 x 62	BP0730L x 2 pcs	
ES-BS1004LS1-A	10.8	Forward: 150 Reverse: 700	1.5 ~ 4.5 1.5 ~ 3.6	1.11 ~ 3.32 1.11 ~ 2.66	0.69	1.52	270 x 62	BP1030L x 2 pcs	BC10L01
ES-BS1004LS1-B	10.8	Forward: 275 Reverse: 700	1.5 ~ 4.5 1.5 ~ 3.6	1.11 ~ 3.32 1.11 ~ 2.66	0.69	1.52	270 x 62	BP1030L x 2 pcs	
ES-B11005A/E-30	10.8	Forward: High:800 / Low: 500 Reverse: 800	1.5 ~ 4.5 1.5 ~ 3.6	1.11 ~ 3.32 1.11 ~ 2.66	0.7	1.54	189 x 157	BP1030L x 2 pcs	
ES-B11006A/E-30	10.8	Forward: High:650 / Low: 450 Reverse: 650	2.0 ~ 6.0 2.0 ~ 4.8	1.48 ~ 4.42 1.48 ~ 3.54	0.7	1.54	189 x 157	BP1030L x 2 pcs	

# 0.3 HP Air Angle Drill

Free Speed: 580~4,800 rpm



## Feature

- For the maintenance service of aerospace grade hole-drilling.

**Patented Design**  
**Quick-interchangeable Drill Head Design**

**Stepless / Slow Start Speed Control Valve**

**360° Air Exhaust**

**Comfortable Rubber Grip**

**High Precision 0.3HP Motor**

**Durable 45°/90°/360° Angle Drill Head**

**AD303H-A**  
*(Threaded Type 1/4"-28)*

**AD303H-A2**  
*(Threaded Type 9/32"-40)*

45° Angle Head  
0.25kgs(0.55lbs)

**AD303H-B**  
*(Threaded Type 1/4"-28)*

**AD303H-B2**  
*(Threaded Type 9/32"-40)*

90° Angle Head  
0.25kgs(0.55lbs)

**AD303H-D**  
*(Threaded Type 1/4"-28)*

**AD303H-D2**  
*(Threaded Type 9/32"-40)*

360° Angle Head  
0.36kgs(0.79lbs)

Unit:(mm)

## Specification:

★ Recommend Air Pressure 6.2 bar (90psi)

Model No.	Motor (HP)	Free Speed (rpm)	Overall Length		Air Inlet (PT)	Air Hose (I.D.)	Air Consumption		Net Weight	
			mm	in			l/min	cfm	kgs	lbs
ST-AD303N06	0.3	580	150	6	1/4"	3/8"	283	10	0.47	1.04
ST-AD303N10	0.3	980	150	6	1/4"	3/8"	283	10	0.47	1.04
ST-AD303N38	0.3	3,800	150	6	1/4"	3/8"	283	10	0.47	1.04
ST-AD303N48	0.3	4,800	150	6	1/4"	3/8"	283	10	0.47	1.04

# Offset Hi-Lok Installation Tool



Our tool is optimized for frangible collar fasteners (commonly known as Hi-Lok®). "Hi-Lok®" is a registered trademark of Hi-Shear Corporation. Use of this trademark does not imply any affiliation with or endorsement by the trademark owner."

Free Speed: 500 rpm

## Feature

- For aerospace grade Hi-lok fastener installation.



Durable Hi-lok nut tightening-purpose mechanism of offset shaft, socket & positioning tip

**Dual-bearing & Full-Covered Cage Gear Mechanism**

**High Precision 0.5HP Motor With Industrial Durable Blades**

**Comfortable Rubber Grip**

**360° Swivel Exhausting Silencer**



**Spline Drive Design**  
offers better spindle concentricity and greater stability of torque transmission

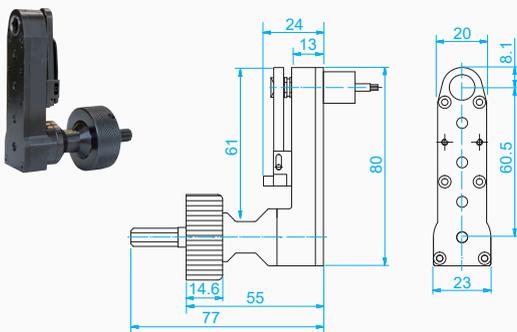


**ST-HL705N05** *Inline Air Motor*  
0.5HP, 500rpm

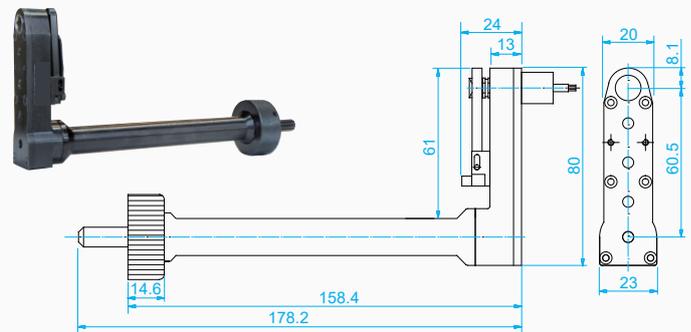


**ST-HL715N05** *Pistol Air Motor*  
0.5HP, 500rpm

**HL70H-E** *80mm Offset Hi-Lok Head*



**HL70H-EL** *80mm Offset Hi-Lok Head Extended*



## Specification:

★ Recommend Air Pressure 6.2 bar (90psi)

Model No.	Motor (HP)	Free Speed (rpm)	Overall Length		Air Inlet (PT)	Air Hose (I.D.)	Air Consumption		Net Weight	
			mm	in			l/min	cfm	kgs	lbs
ST-HL705N05	0.5	500	180	7	1/4"	3/8"	283	10	0.65	1.43
ST-HL715N05	0.5	500	175	6-8/9	1/4"	3/8"	283	10	0.75	1.70

# Offset Hi-Lok Installation Tool

Free Speed: 500 rpm

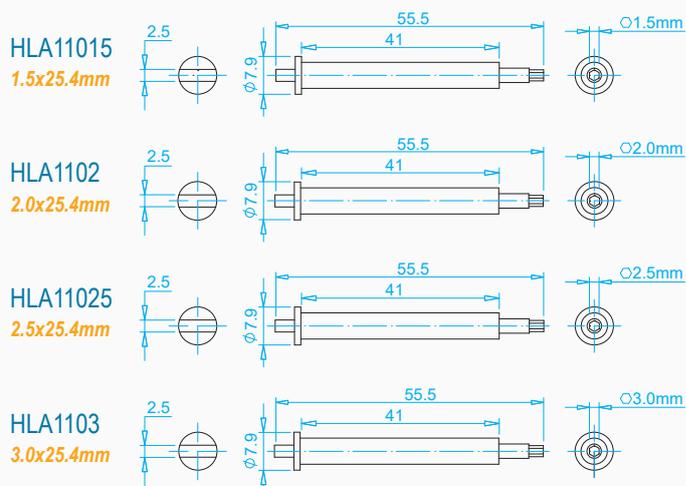
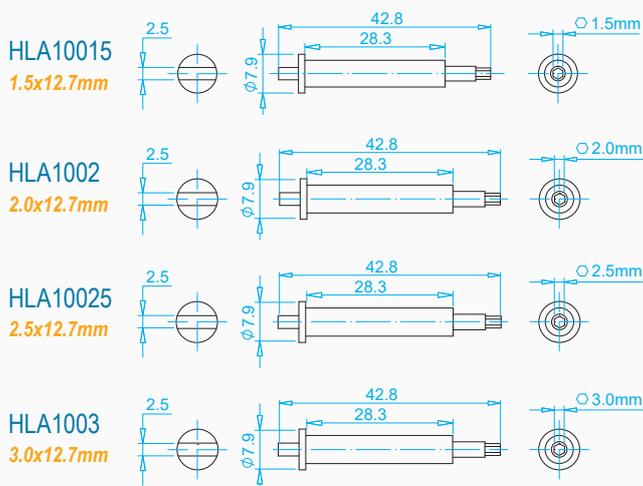


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## Selection table for Hi-Lok Hex. Tip (Metric size system)

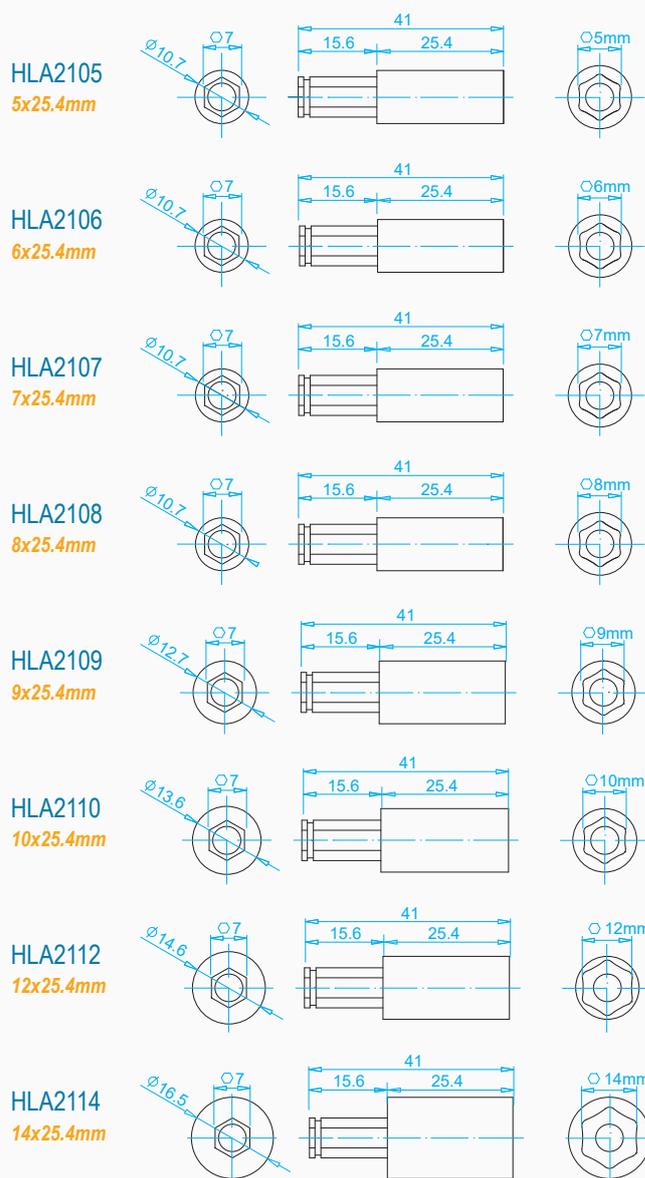
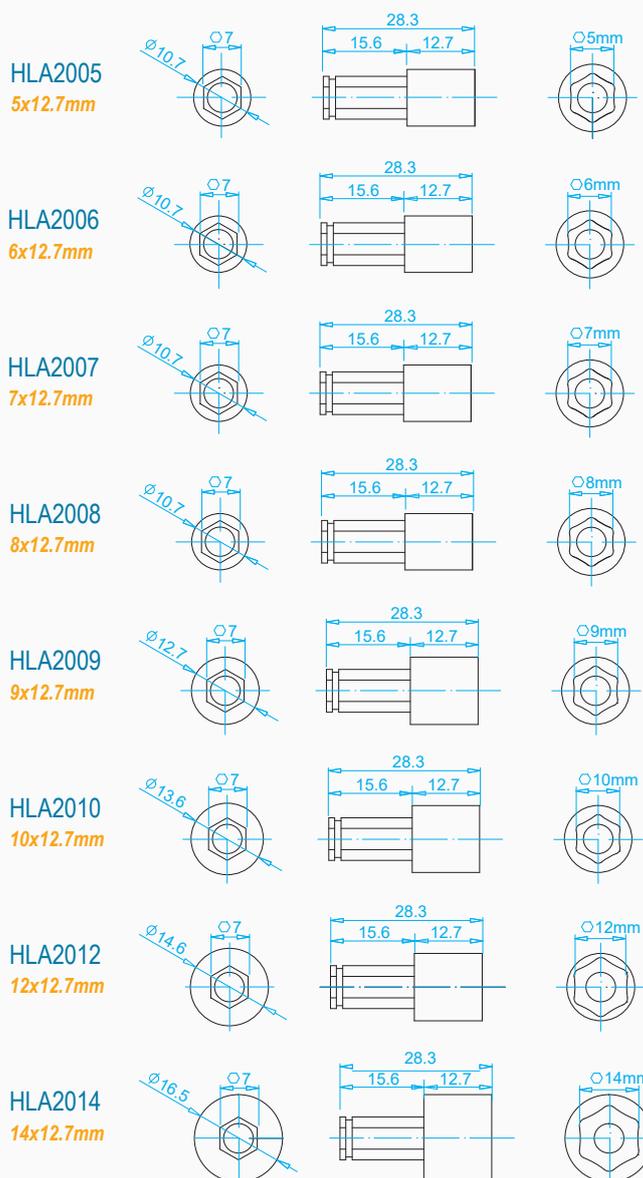
\* The imperial size is also available

Unit:(mm)



## Selection table for Hi-Lok Sockets (Metric size system)

\* The imperial size is also available



# Offset Hi-Lok Installation Tool



Free Speed: 500 rpm

Unit:(inch)

## Selection table for Hi-Lok Hex. Tip (Imperial size system)\* The Metric size is also available

HLA10-1/16 1/16"x1/2"		HLA11-1/16 1/16"x1"	
HLA10-5/64 5/64"x1/2"		HLA11-5/64 5/64"x1"	
HLA10-3/32 3/32"x1/2"		HLA11-3/32 3/32"x1"	
HLA10-1/8 1/8"x1/2"		HLA11-1/8 1/8"x1"	

## Selection table for Hi-Lok Sockets (Imperial size system)\* The Metric size is also available

HLA20-3/16 3/16"x1/2"		HLA21-3/16 3/16"x1"	
HLA20-7/32 7/32"x1/2"		HLA21-7/32 7/32"x1"	
HLA20-1/4 1/4"x1/2"		HLA21-1/4 1/4"x1"	
HLA20-9/32 9/32"x1/2"		HLA21-9/32 9/32"x1"	
HLA20-5/16 5/16"x1/2"		HLA21-5/16 5/16"x1"	
HLA20-11/32 11/32"x1/2"		HLA21-11/32 11/32"x1"	
HLA20-3/8 3/8"x1/2"		HLA21-3/8 3/8"x1"	
HLA20-7/16 7/16"x1/2"		HLA21-7/16 7/16"x1"	

# Industrial Air Angle Drill

Free Speed: 3,200~3,800 rpm



**ST-AD705A32**

45° Angle Head  
Air Drill  
(Threaded Type 1/4"-28)



**ST-AD705B32**

90° Angle Head  
Air Drill  
(Threaded Type 1/4"-28)



**ST-AD705C32**

90° Heavy Duty Angle Head  
Air Drill  
(Threaded Type 1/4"-28)



**ST-AD705D32**

360° Angle Head  
Air Drill  
(Threaded Type 1/4"-28)



**ST-AD705E32**

80mm Offset Angle Head  
Air Drill  
(Threaded Type 1/4"-28)



**ST-AD705E38**

80mm Offset Angle Head  
Air Drill  
(Threaded Type 1/4"-28)

## Specification:

Model No.	Free Speed (rpm)	Overall Length		Air Inlet (PT)	Air Hose (I.D.)	Air Consumption		Net Weight	
		mm	in			l/min	cfm	kgs	lbs
ST-AD705A32	3,200	264	10-2/5	1/4"	3/8"	283	10	0.75	1.65
ST-AD705B32	3,200	256	10	1/4"	3/8"	283	10	0.75	1.65
ST-AD705C32	3,200	256	10	1/4"	3/8"	283	10	0.75	1.65
ST-AD705D32	3,200	265	10-3/7	1/4"	3/8"	283	10	0.85	1.87
ST-AD705E32	3,200	265	10-3/7	1/4"	3/8"	283	10	0.85	1.87
ST-AD705E38	3,800	265	10-3/7	1/4"	3/8"	283	10	0.85	1.87

# Air Angle Drill

Angle Drilling Head Adaptor Options & Air Motor



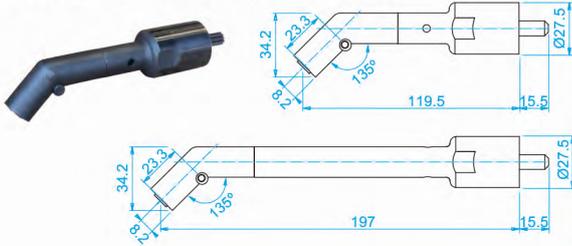
Unit:(mm)

AD70H-J 30° Angle Head



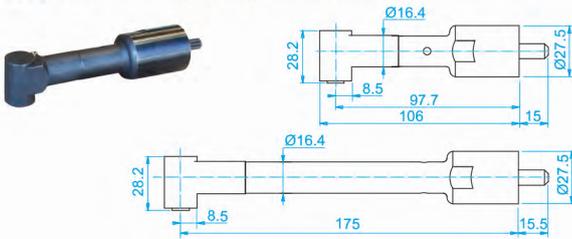
AD70H-A 45° Compact Angle Head

AD70H-AL 45° Compact Angle Head Extended

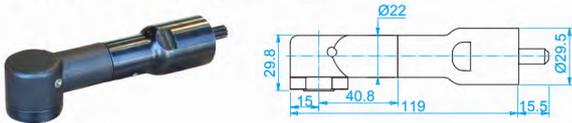


AD70H-B 90° Compact Angle Head

AD70H-BL 90° Compact Angle Head Extended

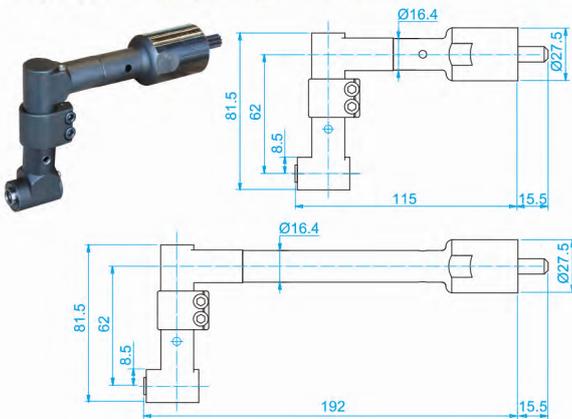


AD70H-C 90° Heavy Duty Angle Head



AD70H-D 360° Compact Angle Head

AD70H-DL 360° Compact Angle Head Extended



## Drill Chucks



SA-AD0155  
Capacity 1 - 5.5mm



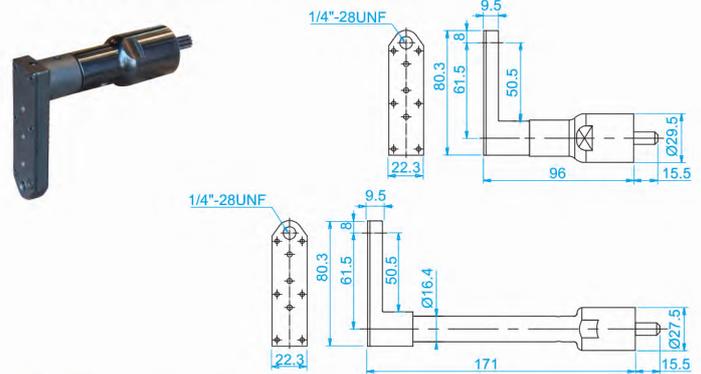
- 4405-M3 Capacity 3mm
- 4405-M4 Capacity 4mm
- 4405-M5 Capacity 5mm
- 4405-M6 Capacity 6mm

ST-AD705N32 Air Motor  
(0.5HP) 3,200 rpm



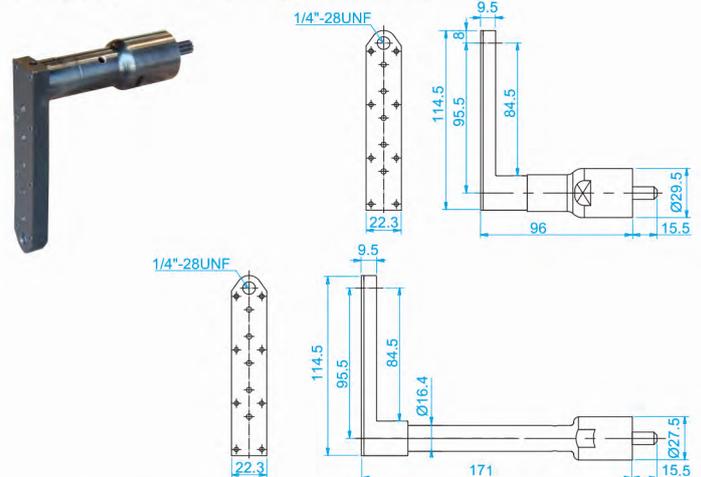
AD70H-E 80mm Offset Angle Head

AD70H-EL 80mm Offset Angle Head Extended



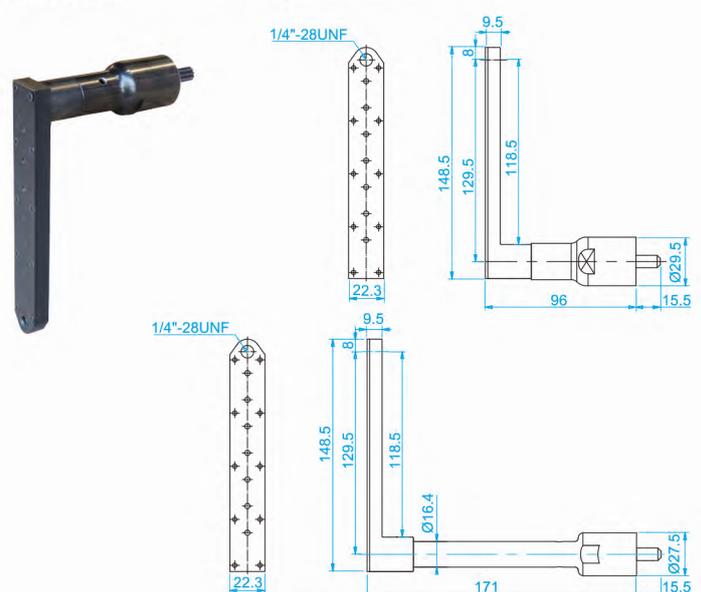
AD70H-F 114mm Offset Angle Head

AD70H-FL 114mm Offset Angle Head Extended



AD70H-G 148mm Offset Angle Head

AD70H-GL 148mm Offset Angle Head Extended



# Industrial Air Angle Drill

Free Speed: 3,000~4,200 rpm



## Feature

- Can be used as daily tool in ranging from aerospace to oil fields and refineries.
- This Right angle drills are designed for high level operation condition, ie. Aerospace, engineering and material removal applications.
- Compact Air Right angle drill able to work in tight spots. It's perfect choice when using for professional aircraft mechanics/maintenance.
- Reinforcement angle head for stronger durability.
- Optional M3~M6 Collet Chuck (1/4"-28 male thread), except ST-4416.

### Built-in Silencer

Made for the tool allows to reduce noise and avoid work hazard during operating.

### Safety Lever

Allow to provide better safety measurement while operating.

### Comfortable & Ergonomic Fit Handle Grip

Reduce major fatigue may caused.

### Wide Range Of Angle Head

designs: 45°, mini 90°, 360°, and compact or heavy duty 90°.

### Powerful Motor

Deliver both high speeds and torque.

### Built-in regulator

Can be easily adjusted speed within tool capability.

### Grease Fitting Design

Does not required additional disassembly when lubricating gear. This would protect the service life of the gear.

### High Precision Drill Capability

Accepts standard threaded bits to eliminate chuck slippage. (Threaded drill bit is not included)



# Industrial Air Angle Drill

Free Speed: 3,000~4,200 rpm



**ST-4405** 0.4 HP  
45° Air Angle Drill  
(Compact Angle Head)

**ST-4406** 0.4 HP  
Mini 90° Air Angle Drill  
(Compact Angle Head)

**ST-4407** 0.4 HP  
360° Offset Angle drill  
(Compact Angle Head)

\* Also available to take collet M3~M6 (1/4"-28 Thread) for ST-4405~4415, ex. Model No. ST-4405-M3 (with M3 collet).



**ST-4415** 0.6 HP  
Offset Angle Drill

**ST-4416** 0.6 HP  
90° Air Angle Drill  
(Standard Angle Head)

## Optional Collet Chuck:

we currently offering collet chuck in sizes shown in chart. However, sizes are also available with MOQ of 500pcs per order.



Part No.	Size (mm)	Male Threaded	Applicable Models
4405-M3	M3	1/4"-28	ST-4405
4405-M4	M4	1/4"-28	ST-4406
4405-M5	M5	1/4"-28	ST-4407
4405-M6	M6	1/4"-28	ST-4415

Model No.	Motor (HP)	Free Speed (rpm)	Threaded Drill Bits	Overall Length		Air Inlet (PT)	Air Hose (I.D.)	Air Consumption		Net Weight	
				mm	in			l/min	cfm	kg	lbs
ST-C5444S	0.4	3,000	1/4"-28	270	10.63	1/4"	3/8"	368	13	0.65	1.43
ST-C5733S	0.4	3,200	1/4"-28	256	10.07	1/4"	3/8"	368	13	0.65	1.43
ST-C554S	0.4	3,000	1/4"-28	261	10.28	1/4"	3/8"	540	19	0.78	1.72
ST-C573S	0.6	4,200	1/4"-28	261	10.28	1/4"	3/8"	540	19	1.14	2.51
ST-C554S	0.6	3,000	3/8"-24	287	11.30	1/4"	3/8"	540	19	1.2	2.51

★ Recommend Air Pressure: 6.2bar (90psi)

# 0.3/0.5 HP Right Angle Air Drill



Free Speed: 3,600~4,000 rpm

## Adjust Side Exhaust



Right Angle Air Drill (Threaded Type 1/4"-28)

ST-AD210BN

0.3 HP



ST-AD220BN

0.5 HP



Right Angle Air Drill (Collet Type)

ST-AD210DN

0.3 HP



ST-AD220DN

0.5 HP



Right Angle Air Drill (Chuck Type) w/1/8"(3mm) chuck

ST-AD2101K

0.3 HP

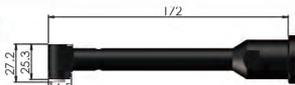


ST-AD2201K

0.5 HP

ST-AD211BN

0.3 HP



ST-AD211DN

0.3 HP



ST-AD2111K

0.3 HP



ST-AD221BN

0.5 HP

ST-AD221DN

0.5 HP

ST-AD2211K

0.5 HP

\*Standard Tool W/O collet

-Optional collet: 2.0/ 2.4/ 2.5/ 3.0/ 3.1/ 3.2/ 4.0/ 4.5/ 4.6/ 4.8/ 5.8/ 5.9mm/ 1/8"/ 3/32"/ 5/32"/ 3/16" (collet no. AD210DN-M2...etc)

45° Angle Air Drill (Threaded Type 1/4"-28)

ST-AD212BN

0.3 HP



ST-AD212DN

0.3 HP



45° Angle Air Drill (Chuck Type) w/1/8"(3mm) chuck

ST-AD212DN

0.3 HP



ST-AD222BN

0.5 HP

ST-AD222DN

0.5 HP

ST-AD222DN

0.5 HP

ST-AD213BN

0.3 HP



ST-AD213DN

0.3 HP



ST-AD213DN

0.3 HP



ST-AD223BN

0.5 HP

ST-AD223DN

0.5 HP

ST-AD223DN

0.5 HP

\*Standard Tool W/O collet

-Optional collet: 2.0/ 2.4/ 2.5/ 3.0/ 3.1/ 3.2/ 4.0/ 4.5/ 4.6/ 4.8/ 5.8/ 5.9mm/ 1/8"/ 3/32"/ 5/32"/ 3/16" (collet no. AD210DN-M2...etc)

Model No.	Motor (HP)	Free Speed (rpm)	Spindle Thread	Air Inlet (PT)	Air Hose (I.D.)	Air Consumption		Overall Length		Net Weight	
						l/min	cfm	mm	in	kg	lbs
ST-AD210BN	0.3	4,000	1/4"-28 internal	1/4"	3/8"	283	10	240	9.45	0.64	1.4
ST-AD211BN		4,000	1/4"-28 internal	1/4"	3/8"	283	10	308	12.13	0.75	1.65
ST-AD212BN		4,000	1/4"-28 internal	1/4"	3/8"	283	10	256	10.04	0.64	1.4
ST-AD213BN		4,000	1/4"-28 internal	1/4"	3/8"	283	10	333	13.07	0.75	1.65
ST-AD210DN		4,000	9/32"-40 internal	1/4"	3/8"	283	10	240	9.45	0.64	1.4
ST-AD211DN		4,000	9/32"-40 internal	1/4"	3/8"	283	10	308	12.13	0.75	1.65
ST-AD212DN		4,000	9/32"-40 internal	1/4"	3/8"	283	10	256	10.04	0.64	1.4
ST-AD213DN		4,000	9/32"-40 internal	1/4"	3/8"	283	10	333	13.07	0.75	1.65
ST-AD2101K		4,000	1/8"(3mm) chuck	1/4"	3/8"	283	10	240	9.45	0.64	1.4
ST-AD2111K		4,000	1/8"(3mm) chuck	1/4"	3/8"	283	10	308	12.13	0.75	1.65
ST-AD2112K	4,000	1/8"(3mm) chuck	1/4"	3/8"	283	10	256	10.04	0.64	1.4	
ST-AD2113K	4,000	1/8"(3mm) chuck	1/4"	3/8"	283	10	333	13.07	0.75	1.65	
ST-AD220BN	0.5	3,600	1/4"-28 internal	1/4"	3/8"	368	13	259	10.24	0.86	1.9
ST-AD221BN		3,600	1/4"-28 internal	1/4"	3/8"	368	13	327	12.88	1.0	2.2
ST-AD222BN		3,600	1/4"-28 internal	1/4"	3/8"	368	13	274	10.83	0.86	1.9
ST-AD223BN		3,600	1/4"-28 internal	1/4"	3/8"	368	13	351	13.82	1.0	2.2
ST-AD220DN		3,600	9/32"-40 internal	1/4"	3/8"	368	13	259	10.24	0.86	1.9
ST-AD221DN		3,600	9/32"-40 internal	1/4"	3/8"	368	13	327	12.88	1.0	2.2
ST-AD222DN		3,600	9/32"-40 internal	1/4"	3/8"	368	13	274	10.83	0.86	1.9
ST-AD223DN		3,600	9/32"-40 internal	1/4"	3/8"	368	13	351	13.82	1.0	2.2
ST-AD2201K		3,600	1/8"(3mm) chuck	1/4"	3/8"	368	13	259	10.24	0.86	1.9
ST-AD2211K		3,600	1/8"(3mm) chuck	1/4"	3/8"	368	13	327	12.88	1.0	2.2
ST-AD2212K		3,600	1/8"(3mm) chuck	1/4"	3/8"	368	13	274	10.79	0.86	1.9
ST-AD2213K		3,600	1/8"(3mm) chuck	1/4"	3/8"	368	13	351	13.82	1.0	2.2

# Industrial Rivet Shaver

Free Speed: 21,000 rpm



**Adjustable**  
Shaving depth is adjustable in increment of .001" for precision results.



**Ergo Wings**  
Provide stronger grip while drilling through hard materials.



**Ergonomic**  
Soft textured insulating grip allows to reduce vibration and provide maximum comfort during continuous hand drilling operation.



**Quiet**  
Built-in silencer reduces noise level to minimum.

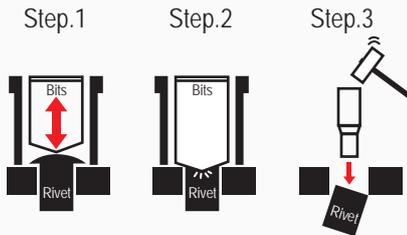
**ST-M5290A**

**Progressive Trigger**  
Allows various speed control and accurate drilling capability.

**Support**  
Hold the tool to avoid excursion.



**ST-M5290**  
(w/o support)



## Rivet Shaver Skirts- 7/8-20 Thread

Parts No.	Skirt Diameter	
	in	mm
M5290-01A	5/16	8
M5290-01B	3/8	10
M5290-01C	7/16	11
M5290-01D	1/2	13
M5290-01E	9/16	14
M5290-01F	5/8	16

## Rivet Shaver Bits- 1/4-28 Thread

Parts No.	Bits Diameter	
	in	mm
M5290-47A	5/16	8
M5290-47B	3/8	10
M5290-47C	7/16	11
M5290-47D	1/2	13
M5290-47E	9/16	14
M5290-47F	5/8	16

## Specification

★ Recommend Air Pressure 6.2 bar (90psi)

Model No.	Motor (HP)	Shaver Skirt & Bits Dia.	Free Speed (rpm)	Overall Length		Air Inlet (PT)	Hose Size (I.D.)	Air Consumption		Net Weight		Noise Level (dB)
				mm	inch			l/min	cfm	kg	lbs	
ST-M5290(A)-5/16	0.9	5/16"	21,000	260	10.2	1/4"	3/8"	480	17	1.2	2.64	85
ST-M5290(A)-3/8	0.9	3/8"	21,000	260	10.2	1/4"	3/8"	480	17	1.2	2.64	85
ST-M5290(A)-7/16	0.9	7/16"	21,000	260	10.2	1/4"	3/8"	480	17	1.2	2.64	85
ST-M5290(A)-1/2	0.9	1/2"	21,000	260	10.2	1/4"	3/8"	480	17	1.2	2.64	85
ST-M5290(A)-9/16	0.9	9/16"	21,000	260	10.2	1/4"	3/8"	480	17	1.2	2.64	85
ST-M5290(A)-5/8	0.9	5/8"	21,000	260	10.2	1/4"	3/8"	480	17	1.2	2.64	85

## Unique ergo wings design provides stronger grip

### Features:

- Light Weight: Aluminum housing.
- Compact Design: Minimize operator's work during continuous hard drilling operation.
- Air valves can be started slowly during high-speed operation, to protect workpiece.
- Minimal vibration during operation.

### 3 Planet Gear System

- User-friendly gear case design allow easy access for both assemble & disassemble.
- With needle bearing installed, allows drill extend its service life as well as increase load capacity.
- Gear case install on the housing to prevent slipped.



Available in 1 / 0.6 / 0.4 HP motor.



### Direction Lever

Easily switching between clockwise or counterclockwise directions.



\*\* Side handle for 1/2" Drill

### Ergo Wings

Provide stronger grip while drilling through hard materials.

### Ergonomic

Soft textured insulating grip allows to reduce vibration and provide maximum comfort during continuous hand drilling operation.

### Progressive Trigger

Allows various speed control and accurate drilling capability.

### Grease fitting Design

Easy refueling (without dismantling the gear case)

### Quiet

Built-in silencer reduces noise level to minimum.

### Industrial Chuck

- 1/4" to 1/2" Jacobs industrial chucks offer accurate & hard drilling.
- ST-M5242 models with a "Made in Japan" 1/4" Yukiwa industrial chuck for ultra-precise drilling applications, providing a run-out of 0.08mm.



▶ For Stainless steel



▶ For Aluminum



▶ For Wood

# Industrial Air Drill

Free Speed: 250~25,000 rpm



## 1 HP Reversible



## 0.6 HP Reversible



## 0.6HP Non-Reversible



## 1 HP Non-Reversible



## 0.6 HP Non-Reversible



## 0.4HP Non-Reversible



Model No.	Chuck Capacity	Free Speed (rpm)	Spindle	Overall Length		Air Inlet (PT)	Air Hose (I.D.)	Air Consumption		Net Weight	
				mm	inch			l/min	cfm	kg	lbs
<b>0.4 HP Non-Reversible</b>											
<b>NEW</b> ST-M5242F230	1/4"	23,000	3/8"-24	157	6-1/6	1/4"	3/8"	340	12	0.635	1.40
<b>NEW</b> ST-M5242F60	1/4"	6,000	3/8"-24	172	6-7/9	1/4"	3/8"	340	12	0.705	1.55
<b>NEW</b> ST-M5242F42	1/4"	4,200	3/8"-24	172	6-7/9	1/4"	3/8"	340	12	0.709	1.56
<b>NEW</b> ST-M5242F30	1/4"	3,000	3/8"-24	172	6-7/9	1/4"	3/8"	340	12	0.705	1.55
<b>NEW</b> ST-M5242F10	1/4"	1,000	3/8"-24	184	7-1/4	1/4"	3/8"	340	12	0.766	1.69
ST-M5243F42	3/8"	4,200	3/8"-24	172	6-7/9	1/4"	3/8"	340	12	0.709	1.56
ST-M5243F30	3/8"	3,000	3/8"-24	172	6-7/9	1/4"	3/8"	340	12	0.705	1.55
ST-M5243F10	3/8"	1,000	3/8"-24	184	7-1/4	1/4"	3/8"	340	12	0.766	1.69
<b>0.6 HP Reversible</b>											
	3/8"	2,000	3/8"-24	215	8-1/2	1/4"	3/8"	400	14	1.04	2.29
ST-M5204R7	1/2"	700	1/2"-20	252	10	1/4"	3/8"	400	14	1.4	3.09
ST-M5204R3	1/2"	350	1/2"-20	252	10	1/4"	3/8"	400	14	1.4	3.09
<b>0.6 HP Non-Reversible</b>											
ST-M5202F250	1/4"	25,000	3/8"-24	152	6	1/4"	3/8"	400	14	0.75	1.66
ST-M5202F56	1/4"	5,600	3/8"-24	185	7-2/7	1/4"	3/8"	400	14	0.95	2.09
ST-M5202F40	1/4"	4,000	3/8"-24	185	7-2/7	1/4"	3/8"	400	14	1	2.20
ST-M5203F56	3/8"	5,600	3/8"-24	200	7-7/8	1/4"	3/8"	400	14	1	2.20
ST-M5203F40	3/8"	4,000	3/8"-24	200	7-7/8	1/4"	3/8"	400	14	1	2.20
ST-M5203F28	3/8"	2,800	3/8"-24	200	7-7/8	1/4"	3/8"	400	14	1	2.20
ST-M5204F7	1/2"	700	1/2"-20	240	9-4/9	1/4"	3/8"	400	14	1.4	3.09
ST-M5204F5	1/2"	500	1/2"-20	240	9-4/9	1/4"	3/8"	400	14	1.4	3.09
<b>1 HP Reversible</b>											
ST-M5213R28	3/8"	2,800	3/8"-24	234	9-1/5	1/4"	3/8"	480	17	1.1	2.43
ST-M5213R15	3/8"	1,500	3/8"-24	234	9-1/5	1/4"	3/8"	480	17	1.1	2.43
ST-M5214R5	1/2"	500	1/2"-20	272	10-5/7	1/4"	3/8"	480	17	1.5	3.31
ST-M5214R3	1/2"	250	1/2"-20	272	10-5/7	1/4"	3/8"	480	17	1.5	3.31
<b>1 HP Non-Reversible</b>											
ST-M5212F210	1/4"	21,000	3/8"-24	170	6-2/3	1/4"	3/8"	480	17	0.75	1.66
ST-M5212F35	1/4"	3,500	3/8"-24	204	8	1/4"	3/8"	480	17	1.05	2.31
ST-M5213F35	3/8"	3,500	3/8"-24	218	8-4/7	1/4"	3/8"	480	17	1.1	2.43
ST-M5213F26	3/8"	2,600	3/8"-24	218	8-4/7	1/4"	3/8"	480	17	1.1	2.43
ST-M5214F35	1/2"	3,500	1/2"-20	232	9-1/7	1/4"	3/8"	480	17	1.1	2.43
ST-M5214F26	1/2"	2,600	1/2"-20	232	9-1/7	1/4"	3/8"	480	17	1.1	2.43
ST-M5214F8	1/2"	800	1/2"-20	258	10-1/6	1/4"	3/8"	480	17	1.5	3.31
ST-M5214F6	1/2"	600	1/2"-20	258	10-1/6	1/4"	3/8"	480	17	1.5	3.31

★ Recommend Air Pressure 6.2 bar (90psi)

# Industrial Air Ratchet Wrench



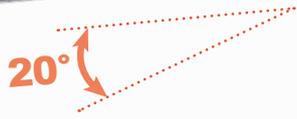
Free Speed: 100~250 rpm

Especially ideal for use in limited spaces

**ST-RW701** 25 Nm  
Capacity: 10~14 mm  
7/16", 1/2", 9/16"

**ST-RW702** 25 Nm  
Capacity: 10~19 mm  
5/8", 11/16", 3/4"

**ST-RW720** 10 Nm  
Capacity: 6~12 mm  
1/4", 5/16", 3/8", 7/16"  
Rear exhaust



**ST-RW700** 25 Nm  
Capacity: 10~19 mm, 11/16" Hex Bolt



**ST-55591A** 10 Nm  
Rear exhaust  
Capacity: 6~12 mm, 1/4", 3/8" Hex Bolt

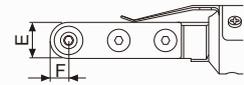
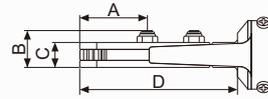


**ST-55592A** 25 Nm  
Capacity: 10~14 mm, 1/2", 9/16" Hex Bolt  
Rear exhaust



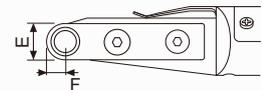
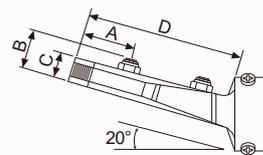
**ST-55591B** 10 Nm  
Rear exhaust  
Capacity: 6 mm, 1/4", Hex Bolt

\*Industry's most compact ratchet head assembly.

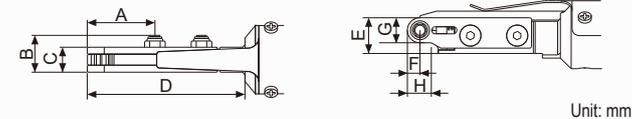


Unit: mm

Model No.	A	B	C	D	E	F
ST-RW700	51	26	18	123	41	20.5
ST-55591A	38.2	20	13.2	88.2	20	10.2
ST-55592A	44.4	26	18	109	25.2	12.2



Unit: mm



Model No.	A	B	C	D	E	F	G	H
ST-55591B	35	20	12.2	85	20	7	14	13.3

Model No.	A	B	C	D	E	F
ST-RW701	44.4	26	18	105	25.2	12.2
ST-RW702	51	26	18	111.5	33.2	16.6
ST-RW720	38.2	20	13.2	83.9	20	10.2

Model No.	Capacity Bolt Size mm (inch)	Free Speed (rpm)	Max. Torque		Overall Length		Air Inlet (PT)	Air Hose (I.D.)	Air Consumption		Net Weight		Packing
			Nm	ft-lb	mm	in			l/min	cfm	kg	lbs	
ST-RW701	10,11,12,13,14, (7/16",1/2", 9/16")	220	25	18	327	12-7/8	1/4"	3/8"	212	7.5	1.92	4.23	10Pcs/Ctn
ST-RW702	10,11,12,13,14,15,16,17,18,19 (5/8",11/16",3/4")	190	25	18	333	13-1/9	1/4"	3/8"	212	7.5	2	4.40	10Pcs/Ctn
ST-RW720	6, 7, 8, 9, 10, 11, 12, (1/4", 5/16", 3/8", 7/16")	180	10	7.4	281	11	1/4"	3/8"	480	17	2	4.41	10Pcs/Ctn
ST-RW700	10, 11, 12, 13, 14, 15,16, 17, 18, 19, (11/16")	190	25	18	338	13-1/3	1/4"	3/8"	480	17	2	4.41	5Pcs/Ctn
ST-55591A	6,7,8,9,10,11,12,(1/4", 3/8")	180	10	7.4	285	11-2/9	1/4"	3/8"	396	14	1.28	2.82	20Pcs/Ctn
ST-55591B	6, (1/4")	250	10	7.4	282	11-1/9	1/4"	3/8"	396	14	1.26	2.78	10Pcs/Ctn
ST-55592A	10,11,12,13,14, (1/2",9/16")	220	25	18	332	13	1/4"	3/8"	480	17	1.92	4.23	20Pcs/Ctn

★ Recommend Air Pressure: 6.2bar (90psi)

# Industrial Air Ratchet Wrench

Free Speed: 100~250 rpm



**ST-55599** 90 Nm  
Rear exhaust



**ST-RW710** 90 Nm  
Rear exhaust

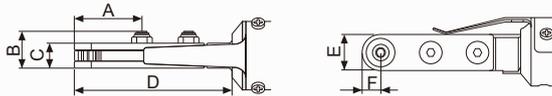


**ST-RW711** 90 Nm  
Rear exhaust



**ST-RW712** 90 Nm  
Rear exhaust

Unit: mm



Model No.	A	B	C	D	E	F
ST-55599	51	26	18	115	33.2	16.6
ST-RW710	59	26	18	123	41	20.5
ST-RW711	66	26	18	130	48	24
ST-RW712	70	26	18	134	52	26

Model No.	Capacity Bolt Size mm (inch)	Free Speed (rpm)	Max. Torque		Overall Length		Air Inlet (PT)	Air Hose (I.D.)	Air Consumption		Net Weight		Packing Pcs/Ctn/G.W./Cuft (kg)
			Nm	ft-lb	mm	in			l/min	cfm	kg	lbs	
ST-55599	10,11,12,13,14,15,16,17,18,19, (11/16")	150	90	66.6	390	15-1/3	1/4"	3/8"	480	17	2.42	5.33	4Pcs/Ctn/11.5/0.8'
ST-RW710	21, 22, 23, 24, 26, 27, (3/8", 7/8", 15/16", 1-1/16")	130	90	66	398	15-2/3	1/4"	3/8"	480	17	2.48	5.46	4Pcs/Ctn/11.12/0.8'
ST-RW711	29, 30, 32, (1-1/8")	110	90	66	405	16	1/4"	3/8"	480	17	2.50	5.51	4Pcs/Ctn/11.12/0.8'
ST-RW712	35, 36, (1-3/8")	100	90	66	408	16-1/8	1/4"	3/8"	480	17	2.52	5.55	4Pcs/Ctn/11.2/0.8'

★Recommend Air Pressure: 6.2bar (90psi)

## Order Code Reference:

\*Please indicate the bolt size when ordering

Model No.	Hex Size	mm																																				inch															
		6	7	8	9	10	11	12	13	14	15	16	17	18	19	21	22	23	24	26	27	29	30	32	35	36	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	7/8	15/16	1-1/16	1-1/8	1-3/8													
ST-55591A		ST-55591A-6 ~ ST-55591A-12												ST-55591A-1/4 ~ ST-55591A-7/16																																							
ST-55591B		ST-55591B-6												ST-55591B-1/4																																							
ST-55592A		ST-55592A-10 ~ ST-55592A-14												ST-55592A-7/16 ~ ST-55592A-9/16																																							
ST-55599		ST-55599-10 ~ ST-55599-19												ST-55599-7/16 ~ ST-55599-3/4																																							
ST-RW700		ST-RW700-10 ~ ST-RW700-19												ST-RW700-7/16 ST-RW700-5/8 ~ ST-RW700-3/4																																							
ST-RW701		ST-RW701-10 ~ ST-RW701-14												ST-RW701-7/16 ~ ST-RW701-9/16																																							
ST-RW702		ST-RW702-10 ~ ST-RW702-19												ST-RW702-7/16 ST-RW702-5/8 ~ ST-RW702-3/4																																							
ST-RW710		ST-RW710-21 ~ ST-RW710-27												ST-RW710-7/8 ~ ST-RW710-1-1/16																																							
ST-RW711		ST-RW711-29 ~ ST-RW711-32												ST-RW711-1-1/8																																							
ST-RW712		ST-RW712-35 ~ ST-RW712-36												ST-RW712-1-3/8																																							
ST-RW720		ST-RW720-6 ~ ST-RW720-12												ST-RW720-1/4 ~ ST-RW720-7/16																																							

# Industrial Air Ratchet Hi-Lok Wrench

Free Speed: 180 rpm



Our tool is optimized for frangible collar fasteners (commonly known as Hi-Lok®). "Hi-Lok®" is a registered trademark of Hi-Shear Corporation. Use of this trademark does not imply any affiliation with or endorsement by the trademark owner."

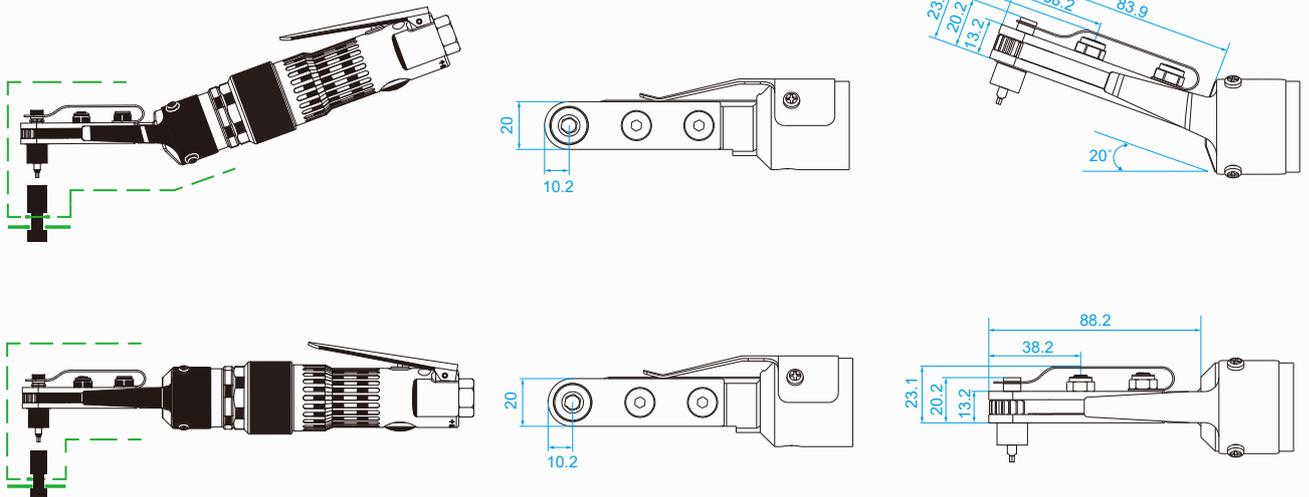
## Feature

- Ideal for easily and quickly installation of large numbers of Hi-Lok® fasteners.



Compatible with various Hi-Lok® tip and socket sizes (sold separately)

## Application diagram UNIT: (mm)



## Specification:

★ Recommend Air Pressure 6.2 bar (90psi)

Model No.	Motor (HP)	Hex Size		Free Speed (rpm)	Max. Torque		Overall Length		Air Inlet (PT)	Air Hose (I.D.)	Air Consumption		Net Weight	
		mm	in		Nm	ft-lb	mm	in			l/min	cfm	kg	lbs
ST-HL603R018	0.35	7	9/32	180	10	7	285	11-2/9	1/4"	3/8"	396	14	1.28	2.82
ST-HL613R018	0.35	7	9/32	180	10	7	281	11	1/4"	3/8"	396	14	1.28	2.82

# Air Hydraulic Riveter (Vacuum Type)



Traction Power: 908~1723 kg

## Feature

- User-friendly maintenance and operating.
- Light weight by structured with composite body.
- Capable of 2mm blind rivet size by switching nosepiece -Best fit for micro- electronic application.



**ST-6620V Vacuum Type**  
5/32" (4.0mm) Air Hydraulic Riveter

## Specification:

★ Recommend Air Pressure 6.2 bar (90psi)

Model No.	Riveting Capacity inch (mm)	Tracking Power		Stroke Length		Overall Length		Air Consumption		Jaw	Net Weight		Packing
		kg	lbs	mm	in	mm	in	l/min	cfm		kg	lbs	
ST-6220V	5/64"(2.0), 3/32"(2.4), 1/8"(3.2), 5/32"(4.0)	522	1,150	17.78	0.7	235	9-1/4	255	9	2	1.15	2.9	10Pcs/Ctn

\* Material : Aluminium+Steel+Stainless Steel+Structural blind rivets

# Air Hydraulic Riveter (Vacuum Type)

• Traction Power: 908~1723 kg

## Feature

- With suction control switch.
- "T"rivets and standard rivet-in all materials.
- Soft-set shockless tools.
- Mandrel collection bottle design allows for easy disposal of spent mandrels.
- Heavy duty construction for rugged applications .
- Durable, lightweight.



ST-66164V Vacuum  
ST-66164N Non-Vacuum  
3/16" Air Hydraulic Riveter



ST-66165V Vacuum  
ST-66165N Non-Vacuum  
3/16" Air Hydraulic Riveter



ST-66166V Vacuum  
ST-66166N Non-Vacuum  
1/4" Air Hydraulic Riveter



ST-66167V Vacuum  
ST-66167N Non-Vacuum  
5/16" Air Hydraulic Riveter

## Specification:

Model No.	Riveting Capacity inch(mm)	Stroke Length		Traction Power		Working Air Pressure		Air Consumption		Weight	
		mm	in	lbs.	kg	psi	kg/cm2	cfm	l/min	kg	lbs
ST-66164V	3/16"(4.8) 5/32"(4.0) 1/8"(3.2) 3/32"(2.4)	15	0.59	2,000	908	85-95	6-6.7	4	113	1.45	3.2
ST-66164N		15	0.59	2,000	908	85-95	6-6.7	4	113	1.39	3.1
ST-66165V	3/16"(4.8) 5/32"(4.0) 1/8"(3.2) 3/32"(2.4)	23.5	0.93	2,000	908	85-95	6-6.7	4	113	1.49	3.3
ST-66165N		23.5	0.93	2,000	908	85-95	6-6.7	4	113	1.46	3.2
ST-66166V	1/4"(6.4) 7/32"(5.6) 3/16"(4.8)	26	1	3,100	1,407	95-100	6.7~7	4	113	1.86	4.1
ST-66166N		26	1	3,100	1,407	95-100	6.7~7	4	113	1.77	3.9
ST-66167V	5/16"(7.8) 1/4"(6.4) 7/32"(5.6) 3/16"(4.8)	22.5	0.88	3,800	1,723	85-95	6-6.7	4	113	1.84	4.1
ST-66167N		22.5	0.88	3,800	1,723	85-95	6-6.7	4	113	1.74	3.8

# Industrial Air Riveter & Riveting Nut Tool



Traction Power: 1,452~2,724 Kg

## Feature

- The greatly improving on inner coating of hydraulic cylinders make new series extremely long lasting.
- Patented structure design of valve brings a rapid movement of in-line piston.
- 360° air Inlet which is good for working under all conditions of operation.
- The newer design of the bottom caps which is easy removal result in less maintenance and repair costs.



**ST-6240V Vacuum**  
1/4"(6.4mm) Air Hydraulic Riveter



**ST-6250V Vacuum**  
1/4"(6.4mm) Air Hydraulic Riveter



**ST-6360M M3~M8**  
**ST-6360S #6~5/16"**  
Air Riveting Nut Tool



**ST-6361M M4~M12**  
**ST-6361S #8~1/2"**  
Air Riveting Nut Tool

## Specification:

Model No.	Riveting Capacity inch(mm)	Stroke Length		Traction Power		Working Air Pressure		Air Consumption		Weight		Packing
		mm	in	kg	lbs	psi	kg/cm2	l/min	cfm	kg	lbs	
ST-6240V	3/16"(4.8), 7/32"(5.6), 1/4"(6.4)	26	1.02	1,816	4,000	70~95	4.9~6.7	255	9	1.94	4.28	6pcs/Ctn
ST-6250V	3/16"(4.8), 7/32"(5.6), 1/4"(6.4), 5/16"(7.8)	26	1.02	2,270	5,000	70~95	4.9~6.7	255	9	2.18	4.81	6pcs/Ctn
ST-6360M	M3, M4, M5, M6, M8	7	0.28	1,452	3,200	85~95	6~6.7	450	16	2.1	4.6	5pcs/Ctn
ST-6360S	#6, #8, #10, 1/4", 5/16"	7	0.28	1,452	3,200	85~95	6~6.7	450	16	2.1	4.6	5pcs/Ctn
ST-6361M	M4, M5, M6, M8, M10, M12	7	0.28	2,724	6,000	85~95	6~6.7	450	16	2.1	4.6	5pcs/Ctn
ST-6361S	#8, #10, 1/4", 5/16", 3/8", 1/2"	7	0.28	2,724	6,000	85~95	6~6.7	450	16	2.1	4.6	5pcs/Ctn

# Vibration Damped Riveting Hammer Systems



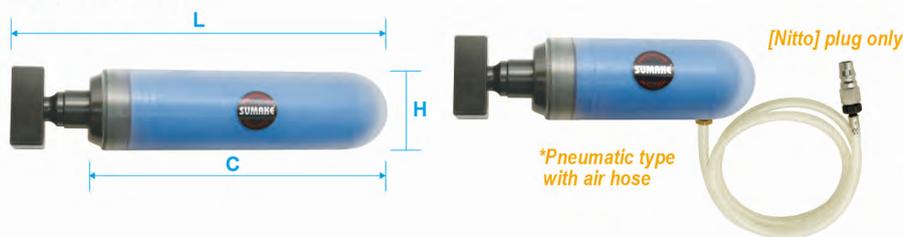
Blow Per Min: 1,140~ 3,690 bpm

## Feature

- Two tools work as one super-low recoil.
- Less counterforce. The sensation is smooth and comfortable, while working.
- An effective design, the cushion of air forms behind hammer piston to lower vibration and extend usage time.



## Bucking Bar



Model No.	Type	L (mm)	H (mm)	C (mm)	Weight (kg)
ST-2510	Manual	188	53	139	1.5
ST-2516	Manual	245	53	200	2.1
ST-2510A	Pneumatic	188	53	139	1.35
ST-2516A	Pneumatic	245	53	200	2.1



**ST-24001 3,960 bpm**  
Air Riveting Hammer



**ST-24002 2,160 bpm**  
**ST-24003 1,440 bpm**  
Air Riveting Hammer

## Specification

★Recommend Air Pressure 6.2 bar (90psi)

Model No.	Chisel Shank (Dia.)	Bore Diameter (I.D.)		Piston Stroke Length		Blow Per Min (bpm)	Selection guide (mm)			Overall Length		Air Inlet (PT)	Hose Size (I.D.)	Air Consumption		Net Weight		Bucking Bar
		mm	inch	mm	inch		Dural	Steel	Titanium	inch	mm			cfm	l/min	lbs	kgs	
ST-24001	0.401"	15.24	19/32	40	1-37/64	3,690	2-5	1-4	-	7.09	180	1/4"	3/8"	14	396	2.43	1.1	ST-2510(A)
ST-24002	0.401"	15.24	19/32	102	4-1/64	2,160	4-7	3-6	2-4	8.86	225	1/4"	3/8"	14	396	2.98	1.35	ST-2510(A) ST-2516(A)
ST-24003	0.401"	15.24	19/32	137	5-25/64	1,440	5-8	4-7	3-6	11	280	1/4"	3/8"	14	396	3.31	1.50	ST-2510(A) ST-2516(A)

# Compression Riveter

Max. Force: 1,800~6,000 lb



## Single Cylinder



ST-6320-15  
With Alligator Yoke Y15



ST-6320-30  
With Alligator Yoke Y30



ST-6320C-15  
With C-Yoke Y15

## Tandem Cylinder



ST-6320T-15  
With Alligator Yoke Y15



ST-6320T-30  
With Alligator Yoke Y30



ST-6320TC-15  
With C-Yoke Y15

## Optional York



6320-Y15



6320-Y30



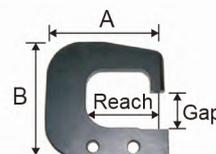
6320C-Y15



6320C-Y30



6320C-Y40



6320C-Y25L

Model	Reach	Gap	Closed Height
6320-Y15	1.5"	0.89"	7/8"
6320-Y30	3"	0.89"	7/8"

Model	Reach	Gap	A	B
6320C-Y15	1.5"	1-1/4"	3-1/4"	3-3/4"
6320C-Y30	3"	1-1/4"	4-3/4"	3-3/4"
6320C-Y40	4"	1-1/4"	6-1/4"	3-3/4"
6320C-Y25L	2.5"	1-1/4"	4"	4"

## Specification:

★ Recommend Air Pressure 6.2 bar (90psi)

Model No.	Riveting Capacity Diameter		Standard Yoke Dimensions		Max. Force with 90psi(6.21bar) air Pressure lb(KN)	Set Holder		Overall Length		Net Weight	
	Alum.	Steel	Reach	Gap		Max Travel	Stroke at max power	mm	in	kg	lbs
ST-6320-15	1/8" (3.2mm)	3/32" (2.4mm)	1-1/2" (38.1mm)	0.89"	3,000(13.35)	5/8 (15.9)	0.05(1.3)	230	9-3/16	1.7	3.75
ST-6320-30	3/32" (2.4mm)	1/16" (1.6mm)	3" (76.2mm)	0.89"	1,800(8)	3/4 (19.05)	0.05(1.3)	270	10-3/4	2.1	4.6
ST-6320T-15	3/16" (4.8mm)	5/32" (4.0mm)	1-1/2" (38.1mm)	0.89"	6,000(2.67)	5/8 (15.9)	0.05(1.3)	280	11-3/16	2.2	4.75
ST-6320T-30	1/8" (3.2mm)	3/32" (2.4mm)	3" (76.2mm)	0.89"	4,100(18.24)	3/4 (19.05)	0.05(1.3)	340	13-1/2	2.5	5.5
ST-6320C-15	1/8" (3.2mm)	3/32" (2.4mm)	1-1/2" (38.1mm)	1-1/4" (32mm)	3,000(13.35)	9/16 (14.27)	0.05(1.3)	260	10-1/4	2.04	4.5
ST-6320TC-15	3/16" (4.8mm)	5/32" (4.0mm)	1-1/2" (38.1mm)	1-1/4" (32mm)	6,000(26.7)	9/16 (14.27)	0.05(1.3)	356	14	2.49	5.5

## Dimple Punch & Die Set



6320-PD01



6320-PD02



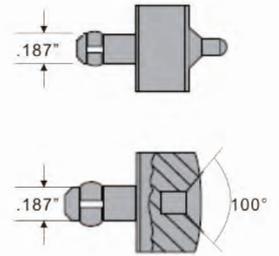
6320-PD03



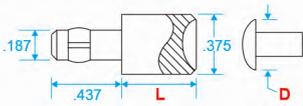
6320-PD04



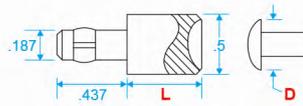
6320-PD05



## Brazier Head

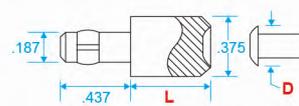


6320-RH01

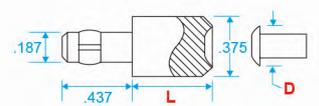


6320-RH02

## Universal Head



6320-RH03

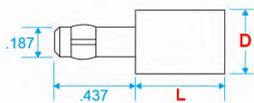


6320-RH04

Rivet Head Diameter					
6320-RH01		6320-RH02			
"D" .312"		"D" .312"		"D" .391"	
No.	L	No.	L	No.	L
1	1/8	1	1/8	1	1/8
2	1/4	2	1/4	2	1/4
3	3/8	3	3/8	3	3/8
4	1/2	4	1/2	4	1/2
5	5/8	5	5/8		
6	3/4	6	3/4		
7	7/8	7	7/8		
8	1	8	1		

Rivet Head Diameter										
6320-RH03					6320-RH04					
"D" .187"		"D" .250"			"D" .187"		"D" .250"		"D" .312"	
No.	L	No.	L	No.	L	No.	L	No.	L	
1	1/8	1	1/8	1	1/8	1	1/8	1	1/8	
2	1/4	2	1/4	2	1/4	2	1/4	2	1/4	
3	3/8	3	3/8	3	3/8	3	3/8	3	3/8	
4	1/2	4	1/2	4	1/2	4	1/2	4	1/2	
5	5/8	5	5/8	5	5/8	5	5/8	5	5/8	
6	3/4	6	3/4	6	3/4	6	3/4	6	3/4	
7	7/8	7	7/8	7	7/8	7	7/8	7	7/8	
8	1	8	1	8	1	8	1	8	1	

## Flush Style



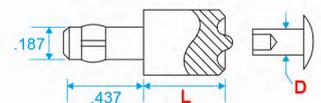
6320-RH05

## Oval / Truss Head



6320-RH06

## Tubular Rivets



6320-RH07

Rivet Head Diameter	
6320-RH05	
"D" .5"	
No.	L
1	1/8
2	1/4
3	3/8
4	1/2
5	5/8
6	3/4
7	7/8

Rivet Head Diameter	
6320-RH06	
"D" .375"	
No.	L
3	3/8

Rivet Head Diameter	
6320-RH06	
"D" .187"	
No.	L
4	1/2



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