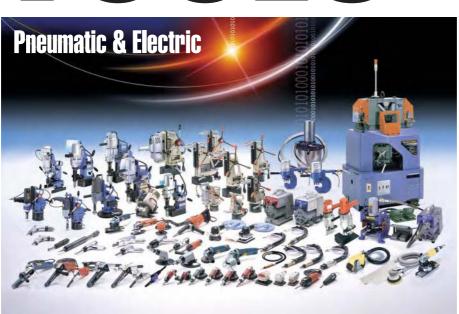


Nitto Kohki's POWER TOOLS



















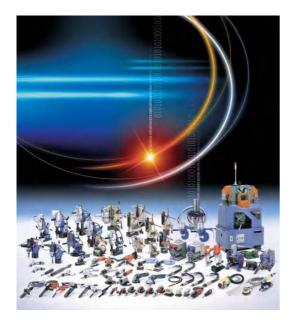


CONTENTS

Pneumatic & Electric Power Tools, Labor-saving plus Improved

Work Efficiency!





Whether you just glance through this booklet or give it an intensive reading, we are sure you'll agree that NITTO KOHKI's portable hydraulic and electric machines, couplers and pneumatic hand tools are among the finest precision engineered equipment to be found today.

)vea		01		
	Manufacturing	Sheet-Metal Working		
NEEDLE SCALER JET CHISEL	Various peening works	Paint & rust scaling		
AUTO CHISEL	Rivet calking, bush inserting & removing	Sheet metal cutting, paint chiseling, rivet punching		
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PNEUMATIC CHIPPING HAMMER AIR CHIPPER	-	-		
PNEUMATIC GRINDER MYTON	Sanding, grinding, chamfering, finishing	Chamfering, rough grinding, mold grinding		
PNEUMATIC DIE GRINDER AIR SONIC	Metal working, surface smoothing	Various grinding works		
PNEUMATIC BELT SANDER BELTON	Trimming, chamfering corner rounding	Spot smoothing, surface regulation, finish sanding		
PNEUMATIC DUST-FREE SANDER ORBITAL SANDER	Smoothing, intermediate finish sanding	Surface smoothing of steel products, finishing of pressed products		
PNEUMATIC COMPACT SANDER PALM ORBITAL SANDER	Smoothing, intermediate finish sanding	Surface smoothing of steel products, finishing of pressed products		
HANDY PNEUMATIC SANDER FREE SANDER	Surface sanding, rust & stain removal	Spot smoothing, corner rounding, surface smoothing		
PNEUMATIC RECIPROCATING SANDER LINE SANDER	Plane sanding, groove sanding	Spot smoothing, surface regulation		
PORTABLE PRECISION FINISHING FILE SUPER HAND	Precision filing of flash, chamfering, sanding, groove finishing	Trimming, filing in narrow space, surface regulation		
SUPER SAW	Cuts with small radii	To cut mild steel plates, aluminum, plastics and other materials		
PNEUMATIC HAND DRILL AIR DRILL	Various drilling works	Various drilling works		
PORTABLE BEVELING TOOLS BEVELER	Chamfering of dies and machine	-		
PNEUMATIC RADIAL CHAMFERING TOOL CIRCUIT BEVELER	Beveling of large workplaces of dies and machines	Beveling of steel plate		

HI CUPLA Series

Machine Tools, Linear Moter Driven Free Piston System, delvo, Spring Balancer

NITTO KOHKI Group

NOTES ON USING TOOLS — Important Safety Instructions

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JET CHISEL



Powerful scaling with multi-needles

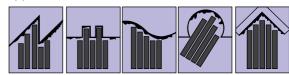


Never skip a blow, cleans and descales all jobs fast. Gets into extremely restricted areas...

An asset in any industry...de-slagging, de-sputtering welds, cleaning, castings, brick, stonework, and other materials. Jet Chisel is a prime pneumatic perfomer in each of these and other tough job areas.

Maximum performance in a light-weight, minimumsize air tool, Jet Chisel delivers years of trouble-free, efficient operation. And it's a tool that gets all the way down to the surface of matters.

Quick, Jet Chisel needles adjust to any surface contour automatically. They get deep into corners, all the way into uneven surfaces, all types of curvatures making it a tool no shop should be without. It's an equally efficient time-saver in ship-board applications, too.

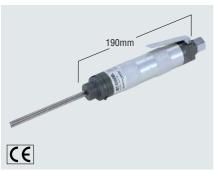


Full Automatic System The only unit of it's kind on the market

without springs. This means no springs to break...no irregular power... and the advantage of low air consumption.



Model AJC-16 Slim Type



Model JT-20 Popular Type



Model JEX-20 Low Vibration Type



Specifications

Model	AJC-16	JT-20	JEX-20
Rated Air Pressure MPa (kgf/cn	0.59 {6}	0.59 {6}	0.59 {6}
Air Consumption(No load) m³/m	<mark>n</mark> 0.07	0.2	0.2
Stroke Speed mi	6,000	4,000	4,000
Needles to be used m	DD 3 x 180 (3pcs.)	OD 2 x 180 (29pcs.) or OD 3 x 180 (12pcs.)	OD 2 x 180 (29pcs.) or OD 3 x180 (12pcs.)
Hose Size in	<mark>h</mark> 3/8	3/8	3/8
Mass (Weight)	g 0.98	2.4	2.4

Standard Accessories

- Needle OD 3mm x 180 mm: 3 pcs. (Needle OD 3mm x 180 mm : 3 pcs. on the body)
- Bushing PT3/8 x NPT3/8 : 1 pc.
- Hose Nipple PT3/8 x 3/8: 1 pc.
- Needle OD 3mm x 180 mm : 12 pcs. (Needle OD 3mm x 180 mm: 12 pcs. on the body)
- Bushing PT3/8 x NPT3/8 : 1 pc.
- Hose Nipple PT3/8 x 3/8: 1 pc.
- Needle OD 3mm x 180 mm : 24 pcs. (12 pcs.) (Needle OD 3mm x 180 mm: 12 pcs. on the body)
- Bushing PT3/8 x NPT3/8 : 1 pc.
- Hose Nipple PT3/8 x 3/8 : 1 pc.

NEEDLE SCALER JET CHISEL

Model JC-16 Lightweight Type



Model JEX-24 Universal Type



Model JEX-28 Heavy-duty Type



Model JEX-2800



Specifications

opcomoditons						
Model	JC-16	JEX-24	JEX-28	JEX-2800		
Rated Air Pressure MPa {kgf/cm²}	0.59 {6}	0.59 {6}	0.59 {6}	0.63 {6.4}		
Air Consumption (No load) m ³ /min	0.15	0.27	0.35	0.43		
Stroke Speed min ⁻¹	4,000	4,000	4,500	3,700		
Needles to be used mm	OD 2 x 150 (29pcs.)	OD 2 x 180 (53pcs.) or OD 3 x180 (23pcs.)	OD 2 x180 (66pcs.) or OD 3 x18	0 (28pcs.) or OD 4 x180 (14pcs.)		
Hose Size inch	3/8	3/8	3/8	3/8		
Mass (Weight) kg	1.4	2.7	3.5	3.1		

Otandard Assessmins	Needle OD 2mm x 150 mm : 29 pcs. (Needle OD 2mm x 150 mm : 29 pcs. on the body)	Needle OD 3mm x 180 mm : 23 pcs. on the body Hex. Socket Screw Kev 6 mm: 1 pc.	Needle OD 4mm x 180 mm : 14 pcs. (Needle OD 3mm x 180 mm : 28 pcs. on the body)	• Needle OD 4mm x 180 mm : 14 pcs. (Needle OD 3mm x 180 mm : 28 pcs. on the body)
Standerd Accessories	Bushing PT3/8 x NPT3/8 : 1 pc.	■ Bushing PT3/8 x NPT3/8 : 1 pc. ■ Hose Nipple PT3/8 x 3/8 : 1 pc.	Needle Supporter OD 4mm : 1pc.	Needle Supporter OD 4mm : 1pc. Bushing : 1 pc. Hose Nipple : 1 pc.

Electric Needle Scaler

Model **EJC-32A**



Standard Accessories	 Needle OD 3mm x 180 mm : 30 pcs. (15 pcs.) 		
	Hex. Socket Screw Key 6 mm: 1 pc.		

The same excellent performance as our air tool!

Operated with standard electric supply to households. Special long and slim barrel design suitable for narrow corners.

Double-insulated motor does not need grounding. Free subhandle position best fit to your working situation.

Specifications

ομεσιπσαιίστιο			
Model	EJC-32A		
Power Supply	115 VAC 60Hz 230 VAC 5		
Rated Power Consumption W	300	300	
Rated Current A	2.8	1.4	
Rated Duty minutes	2.5		
Stroke Speed min ⁻¹	3,0	3,000	
Needoles to be used mm	OD 2 x 180 (32 pcs.) or OD 3 x180 (15 pc		
Power Cord Length m	5		
Mass (Weight) kg	4.5		

Optional Needles



Part No.	Part Name	Q'ty	Part No.	Part Name	Q'ty
TA98780	Needles OD 2 x 150 mm	100 pcs.	TA98783	Needles OD 4 x 180 mm	50 pcs.
TA98781	Needles OD 2 x 180 mm	100 pcs.	TA9A220	Needles OD 4 x 300 mm	50 pcs.
TA9A213	Needles OD 2 x 300 mm	50 pcs.	TA9A221	Needles OD 4 x 500 mm	50 pcs.
TA9A214	Needles OD 2 x 500 mm	50 pcs.	TP00338	Needles Supporter for JT-20, JEX20	1 pc.
TA98782	Needles OD 3 x 180 mm	100 pcs.	TP02244	Needles Supporter OD 2 for JEX-24	1 pc.
TA9A216	Needles OD 3 x 300 mm	50pcs.	TP01499	Needles Supporter OD 2 for JEX-28	1 pc.
TA9A217	Needles OD 3 x 500 mm	50pcs.	TQ05210	Needles Supporter OD 2 for AJC-16	1 pc.
TA9A218	Needles OD 3 x 800 mm	50pcs.	_	_	-

AUTO CHISEL

A special spool valve inside grip assures excellent durability



A-300



The A-300 Auto Chisel is designed for speeding up the repair and sheet metal works of automobiles, etc. Being light and powerful, labor can be reduced remarkably.

This tool enables the work to be done in narrow space where ordinary hammering work is impossible. Thus the skill usually needed in hammering work is eliminated. The respective parts employ high material and are subjected to high precision process.

Specifications

Model	A-300
Rated Air Pressure MPa {kgf/cm²}	0.59 {6}
Air Consumption (No load) m³/min	0.3
Stroke Speed min ⁻¹	2,600
Hose Size inch	1/4
Mass (Weight) kg	1.7

Standard Accessories • Bushing PT1/4 x NPT1/4: • Hose Nipple PT1/4 x 1/4: • Eye Protection: 1 pc.
--

Optional Attachments

Part No.	Part Name	Q'ty	Part No.	Part Name	Q'ty
TP00572	No.1001 Blank Chisel	1 pc.	TP00584	No.1013 Fork Chisel 24	1 pc.
TP00573	No.1002 Flat Chisel	1 pc.	TA90051	No.1014 Panel Crimper	1 pc.
TP04606	No.1003 Sheet Metal Chisel A	1 pc.	TP00586	No.1016 Fork Chisel 35	1 pc.
TP00575	No.1004 Sheet Metal Chisel B	1 pc.	TP00585	No.1017 Fork Chisel 15	1 pc.
TP00576	No.1005 Silencer Cutting Chisel	1 pc.	TP00589	No.1018 Scraper 38mm	1 pc.
TP00577	No.1006 Rubber Bushing Remover	1 pc.	TP00590	No.1019 Scraper 60mm	1 pc.
TP00578	No.1007 Spot Weld Booster	1 pc.	TP00591	No.1020 Concave Scraper 60mm	1 pc.
TP00579	No.1008 Bushing Tool	1 pc.	TP04995	No.1023 Sheet Metal Chisel C	1 pc.
TP00580	No.1009 Punch	1 pc.	TP05244	No.1024 Moilpoint Chisel	1 pc.
TP00581	No.1010 Bushing Removing Tool	1 pc.	TP05775	No.1025 Rivet Removing Punch	1 pc.
TP00582	No.1011 Sheet Metal Punch	1 pc.	TP05801	No.1026 Caulking Chisel	1 pc.
TP00583	No.1012 Bending Chisel 20mm	1 pc.	-	-	-

Applications and wide variety of optional attachments



SUPER HELEN

Industrial and shipboard descaling and cleaning



The unique scaler preforms scores of industrial and shipboard descaling and cleaning jobs quickly, efficiently and economically.

Removes old paint and rust, dislodges solid matter or scale tar. Removes concrete adhering to panels, conveyors, mixers. Strips off bark from lumber, and scores of other applications.



Specifications

- promounomo			
Model	S-250	S-500	S-1000
Rated Air Pressure MPa {kgf/cm²}	0.59 {6}	0.59 {6}	0.59 {6}
Air Consumption (No load) m³/min	0.27	0.27	0.27
Stroke Speed min ⁻¹	2,500	2,500	2,500
Size of Chisel Chuck mm	OD 12.7	OD 12.7	OD 12.7
Hose Size inch	3/8	3/8	3/8
Dimension mm	630 x OD 49	890 x OD 49	1,470 x OD 49
Mass (Weight) kg	4.1	4.7	6.1

Standard Accessories

- Bend Scraper 38 (2005): 1 pc. on the body
- Nipple M16 xM16 : 1 pc.
- Hose Lock Nut M16 : 1 pc.
- Hose Nipple 3/8 : 1 pc.
- Bend Scraper 38 (2005): 1 pc. on the body
- Nipple M16 xM16 : 1 pc.
- Hose Lock Nut M16 : 1 pc.
- Hose Nipple 3/8 : 1 pc.
- Bend Scraper 38 (2005): 1 pc. on the body
- Nipple M16 xM16 : 1 pc.
- Hose Lock Nut M16: 1 pc.
- Hose Nipple 3/8 : 1 pc.

Optional Chisels



Part No.	Part Name	Q'ty
TP03645	Scraper 60 mm (2001)	1 pc.
TP03646	Scraper 38 mm (2002)	1 pc.
TP03647	Blank Chisel (2003)	1 pc.
TP04010	Concave Scraper 60 mm (2004)	1 pc.
TP04552	Bend Scraper 38 mm (2005)	1 pc.
TP04553	Concave Bend Scraper 60 mm (2006)	1 pc.
TP04554	Bend Scraper 60 mm (2007)	1 pc.

AIR CHIPPER

Now chipping after welding is easy!



The AIR CHIPPER are compact, lightweight and economical tools to have on hand for all kinds of chipping work. Easy chisel replacement is made to excellent operation. The straight design is suitable for operation at narrow and deep places.

In addition, the ACH-16 has many feature on the followings.....

- Idle running proof structure adopted. No blowing without touching the work piece by the chisel.
- Vibration on operation is reduced by low vibration structure. Especially effective on continuous operation.
- Easy to handle, compact lightweight type and weight only one kilogram.

Model ACH-16



Model CH-24



Specifications

Model	ACH-16	CH-24
Rated Air Pressure MPa {kgf/cm²}	0.59 {6}	0.59 {6}
Air Consumption (No load) m³/min	0.15	0.2
Stroke Speed min ⁻¹	6,000	4,000
Size of Chisel Chuck mm	OD 10.5	12.7 sq.
Hose Size inch	3/8	3/8
Mass (Weight) kg	0.9	1.7

Standard Accessories • Flat Chisel 20 x 120 : 1 pc. on the body • Bushing PT3/8 x NPT3/8 : 1 pc. • Hose Nipple PT3/8 x 3/8 : 1 pc. • Hose Nipple PT3/8 x 3/8 : 1 pc.

TQ 03431 TQ 03453 TQ 03549 TQ 03452 TP 15234 TP 15233 TP 15166

Chisel for Air Chipper ACH-16

Part No.	Part Name	Q'ty
TQ03431	Flat Chisel 20 x 120	1 pc.
TQ03453	Curved Flat Chisel 20 x 120	1 pc.
TQ03549	Flat Chisel 11 x 120	1 pc.
TQ03452	Flat Chisel 20 x 180	1 pc.

Chisel for Air Chipper CH-24

• •		
Part No.	Part Name	Q'ty
TP15234	Straight Flat Chisel 12.7 x165	1 pc.
TP15233	Flat Chisel 25 x 155	1 pc.
TP15166	Curved Flat Chisel 25 x 155	1 pc.

SCALING & GRINDING

MYTON

A wide variety of models are available to a particular job!



MAG-50 Depressed center wheel OD 125mm



- Rear exhaust system.
- Vibration-damping side handle.
- Spindle lock for the replacement of wheel.
- Plastic housing prevents cold hand.
- Side handle can be mounted to right or left.
- Built in governor.

Powerful Motor for fast and efficient grinding.

Specifications

Model	MAG-50
Rated Air Pressure MPa {kgf/cm²}	0.59 {6}
Air Consumption (No load) m³/min	0.87
Free Speed min ⁻¹ (rpm)	12,000
Depressed center wheel mm	OD 125
Hose Size inch	1/4
Mass (Weight) kg	2.2

Standard Accessories

- Air Hose Sub Ass'y: 1 set
- Exhaust Hose Ass'y: 1 set • Side Handle Ass'y: 1 set
- Pin Face Wrench : 1 pc.
- Bushing PT3/8 x NPT 3/8: 1 pc.

• Hex. Socket Screw Key 4mm : 1 pc.

MAG-25B Depressed center wheel OD 58mm



AGW-40 Depressed center wheel OD 100mm



MAG-70 Depressed center wheel OD 180mm



Specifications

Model	MAG-25B	MAGW-40	MAG-70
Rated Air Pressure MPa {kgf/cm²}	0.59 {6}	0.59 {6}	0.59 {6}
Air Consumption m³/min	0.4 (No load)	0.68 (No load) 0.82 (No load)	0.69 (No load) 1.15 (Load)
Free Speed min ⁻¹ (rpm)	22,000	13,000	7,100
Depressed center wheel mm	OD 58	OD 100	OD 180
Hose Size inch	1/4	3/8	1/2
Mass (Weight) kg	0.55	1.55	3.4

Standard Accessories

- Abrasive Wheel AC #80: 1 pc.
- Hex. Socket Screw Key 5 mm : 1 pc.
- Single Ended Spanner 14 mm : 1 pc.
- Bushing PT1/4 x NPT1/4 : 1 pc.
- Hex. Socket Screw Key 6 mm : 1 pc.
- Single Ended Spanner 17 mm : 1 pc.
- Bushing PT3/8 x NPT3/8 : 1 pc.
- Hex. Socket Screw Key 6 mm : 1 pc.
- Hex. Socket Screw Key 10 mm : 1 pc.
- Single Ended Spanner 41 mm : 1 pc.
- Bushing PT1/2 x NPT1/2 : 1 pc.

MAS-20B Abrasive disc 1", OD 1-1/2" & 2"



MAS-40 Abrasive disc OD 100mm



MAS-70 Abrasive disc OD 180mm



Specifications

Model	MAS-20B	MAS-40	MAS-70	
Rated Air Pressure MPa {kgf/cm²}	0.59 {6}	0.59 {6}	0.59 {6}	
Air Consumption (No load) m³/min	0.4	0.45	0.98	
Free Speed min ⁻¹ (rpm)	22,000	13,000	8,000	
Abrasive Disc	OD 1", OD 1-1/2" and OD 2"	OD 100 mm	OD 180 mm	
Hose Size inch	1/4	3/8	3/8	
Mass (Weight) kg	0.5	0.9	1.9	

Standard Accessories	Single Ended Spanner 14 mm : 1 pc. Cipla 200-20SH : 1pc.	Hex. Socket Screw Key 6 mm: 1 pc. Single Ended Spanner 17 mm: 1 pc. Bushing PT1/4 x NPT1/4: 1 pc. Hose Nipple NPT 1/4 x 3/8: 1 pc.	Hex. Socket Screw Key 10 mm: 1 pc. Single Ended Spanner 41 mm: 1 pc. Cipla 200-30SH: 1pc.
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Optional Parts

Grinding Disc for MYTON MAG-25B



Part No.	Part Name	Q'ty
TB00119	AC 46 x OD 58	5 pcs.
TB00120	AC 60 x OD 58	5 pcs.
TB00121	AC 100 x OD 58	5 pcs.
TB00155	AC 80 x OD 58	10 pcs.

Disc Pad for MYTON MAS-20B



Part No.	Part Name	Q'ty
TP18576	PAD (OD 1") No.1	1 pc.
TP18575	PAD (OD 1-1/2") No.2	1 pc.
TP18574	PAD (OD 2") No.3	1 pc.

OD 1" Paper for MYTON MAS-20B



Part No.	Part Name	Q'ty
TA9B101	Paper OD 1" x #40	25 pcs.
TA9B102	Paper OD 1" x #60	25 pcs.
TA9B103	Paper OD 1" x #80	25 pcs.
TA9B104	Paper OD 1" x #100	25 pcs.

	Part No.	Part Name	Q'ty
		Paper OD 1" x #120	25 pcs.
	TA9B106	Paper OD 1" x #180	25 pcs.
	TA9B107	Paper OD 1" x #240	25 pcs.
1	TA9B108	Paper OD 1" x #320	25 pcs.

OD 1-1/2" Paper for MYTON MAS-20B



Part No.		Q'ty
TA9B109	Paper OD 1-1/2" x #40	25 pcs.
TA9B110	Paper OD 1-1/2" x #60	25 pcs.
TA9B111	Paper OD 1-1/2" x #80	25 pcs.
TA9B112	Paper OD 1-1/2" x #100	25 pcs.

	Part No.	Part Name	Q'ty
l	TA9B113	Paper OD 1-1/2" x #120	25 pcs.
]	TA9B114	Paper OD 1-1/2" x #180	25 pcs.
1	TA9B115	Paper OD 1-1/2" x #240	25 pcs.
	TA9B116	Paper OD 1-1/2" x #320	25 pcs.

OD 2" Paper for MYTON MAS-20B



Part No.	Part Name	Q'ty
TA9B117	Paper OD 2" x #40	25 pcs.
TA9B118	Paper OD 2" x #60	25 pcs.
TA9B119	Paper OD 2" x #80	25 pcs.
TA9B120	Paper OD 2" x #100	25 pcs.

Part No.	Part Name	Q'ty
TA9B121	Paper OD 2" x #120	25 pcs.
TA9B122	Paper OD 2" x #180	25 pcs.
TA9B123	Paper OD 2" x #240	25 pcs.
TA9B124	Paper OD 2" x #320	25 pcs.

AIR SONIC



The perfect tool for all tasks!

The high-speed mighty mite with supper-efficient silencer and rear exhaust system.

Wonder works on all metals, wood, and plastics, even extremely hard and exotic materials. And now that efficiency is upgraded with the addition of an air silencer and new rear exhaust system for grinding dust-it's all the more the perfect tool for toolrooms and model shops. The super efficiency of the silencer makes it possible for all craftsmen to work longer with less irritation due to noise. For precision grinding, deburring machines parts, grinding small castings, removing welding slags, shaping and finishing wood, glass and plastics. This is the compact, easy handing air tool for all tasks.

L-25B For all grinding, deburring and finishing jobs



L-35C Special design for rotary bars

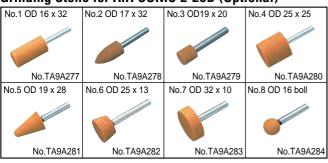


Specifications

<u> </u>		
Model	L-25B	L-35C
Rated Air Pressure MPa {kgf/cm²}	0.59 {6}	0.59 {6}
Air Consumption (No load) m³/min	0.4	0.35
Free Speed min ⁻¹ (rpm)	27,000	37,500
Size of Collet Chuck mm	6	6
Hose Size inch	1/4	1/4
Mass (Weight) kg	0.6 (without hose)	0.45 (without hose)

	Single Ended Spanner 14mm : 1 pc.	Single Ended Spanner 14mm : 1 pc.
Standard Accessories	Mounted Wheel No.2 : 1 pc.	• Mounted Wheel 13 x 13 x 6 x 38 : 1 pc.
	● Mounted Wheel No.3: 1 pc. • Bushing PT1/4 x NPT 1/4: 1 pc.	 Bushing PT1/4 x NPT 1/4 : 1 pc.

Grinding Stone for AIR SONIC L-25B (Optional)



Rotary bar for AIR SONIC L-35C (Optional)



PNEUMATIC DIE GRINDER AIR SONIC

AL-55 High Speed Rotation 56,500 rpm



- Smooth high speed rotation and low vibration enables precision grinding.
- Stepless speed change from 0 to 56,500 rpm meets a wide range of grinding applications.
- Compact & light weight for comfortable operation over long periods of time.
- Triangular grip fits operator's hand.
- Special plastic grip prevents cold hands and absorbs vibration.
- Rear exhaust system.



Specifications

Model	AL-55
Rated Air Pressure MPa {kgf/cm²}	0.59 {6}
Air Consumption (No load) m³/min	0.17
Free Speed min ⁻¹ (rpm)	56,500
Size of Collet Chuck mm	3
Hose Size inch	1/4
Mass (Weight) kg	0.25

Standard Accessories

• HI-CUPLA HA-65SN: 1 pc. • Spanner 7: 1 pc.
• Mounted Wheel 5 x 13 x 3: 1 pc. • Spanner 7 x 9: 1 pc.

Smooth rotation and stepless speed change for precision grinding

Grinding Stone (Optional)



• 5 dia. x 13 x 3 mm : 10pcs./set

BELTON Rear exhaust system Suitable for sanding jobs in narrow spaces, recessed corners or on curved surfaces











Specifications

Model	BB-10	B-10B	B-20C	B-30B
Rated Air Pressure MPa {kgf/cm²}	0.63 {6.4}	0.59 {6}	0.59 {6}	0.59 {6}
Air Consumption (No load) m ³ /min	0.25	0.4	0.52	0.68
Motor Free Speed min ⁻¹ (rpm)	16,000	17,000	17,000	14,000
Belt Speed m/min	1,000	1,060	2,500	1,800
Hose Size inch	1/4	1/4	1/4	1/4
Mass (Weight) kg	0.6	0.9	1.4	2.9

Standard Accessories

- Hex. Socket Screw Key 1.5 mm : 1 pc.
- Cupla HA-65SN: 1 pc.
 Abrasive Belt Z#120 x 10 mm: 1 pc.
- Abrasive Belt Z#180 x 10 mm : 1 pc.
 Abrasive Belt Z#240 x 10 mm : 1 pc.
- Bushing PT1/4 x NPT1/4 : 1 pc.
- Hex. Socket Screw Key 4 mm : 1 pc.
 Convex Shoe : 1 pc.
- Abrasive Belt Z#60 x 20 mm : 1 pc.
- Abrasive Belt Z#80 x 20 mm : 1 pc.
- Abrasive Belt Z#100 x 20 mm : 1 pc. Abrasive Belt Z#120 x 20 mm : 1 pc
- Bushing PT1/4 x NPT1/4 : 1 pc.
- Hex. Socket Screw Key 5 mm: 1 pc.
 Abrasive Belt Z#60 x 30 mm: 1 pc.
- Abrasive Belt Z#80 x 30 mm : 1 pc.
 Abrasive Belt Z#100 x 30 mm : 1 pc.
- Bushing PT1/4 x NPT1/4 : 1 pc.
- Hex. Socket Screw Key 4 mm : 1 pc.
 Hex. Socket Screw Key 1.5 mm : 1 pc.
- Abrasive Belt Z#60 x 10 mm : 1 pc.
 Abrasive Belt Z#80 x 10 mm : 1 pc.
- Abrasive Belt Z#100 x 10 mm : 1 pc. Abrasive Belt Z#120 x 10 mm : 1 pc.

Optional Parts

Optional Parts for B-10B

Part No.		Q'ty				
TP14770	Shoe 6 (for 6 mm belt)	1 pc.				
TA99052	Bracket 6 Ass'y (for 6 mm belt)	1 set				
TA99041	Guard Pulley Bracket Ass'y	1 set				
TB01844	Belt Cover Ass'y (*1)	1 set				
44 = 11						

*1: For collecting the dust

Abrasive Belt for B-10B

TB00242 Abrasive Belt Z#80 x 6 mm 50 pcs TB00243 Abrasive Belt Z#100 x 6 mm 50 pcs TB00244 Abrasive Belt Z#120 x 6 mm 50 pcs TB00245 Abrasive Belt Z#180 x 6 mm 50 pcs TB00246 Abrasive Belt Z#240 x 6 mm 50 pcs TA9A237 Abrasive Belt A#400 x 6 mm 50 pcs TA9A064 Abrasive Belt Z#60 x 10 mm 50 pcs TB00076 Abrasive Belt Z#80 x 10 mm 50 pcs TB00277 Abrasive Belt Z#100 x 10 mm 50 pcs TB00247 Abrasive Belt Z#120 x 10 mm 50 pcs TB00248 Abrasive Belt Z#180 x 10 mm 50 pcs TB00249 Abrasive Belt Z#240 x 10 mm 50 pcs	ADIASIVE DEIL IOI D- IOD			
TB00242 Abrasive Belt Z#80 x 6 mm 50 pcs TB00243 Abrasive Belt Z#100 x 6 mm 50 pcs TB00244 Abrasive Belt Z#120 x 6 mm 50 pcs TB00245 Abrasive Belt Z#180 x 6 mm 50 pcs TB00246 Abrasive Belt Z#240 x 6 mm 50 pcs TA9A237 Abrasive Belt Z#260 x 10 mm 50 pcs TA9A064 Abrasive Belt Z#60 x 10 mm 50 pcs TB00076 Abrasive Belt Z#80 x 10 mm 50 pcs TB00247 Abrasive Belt Z#120 x 10 mm 50 pcs TB00248 Abrasive Belt Z#180 x 10 mm 50 pcs TB00249 Abrasive Belt Z#240 x 10 mm 50 pcs	Part No.	Part Name	Q'ty	
TB00243 Abrasive Belt Z#100 x 6 mm 50 pcs TB00244 Abrasive Belt Z#120 x 6 mm 50 pcs TB00245 Abrasive Belt Z#180 x 6 mm 50 pcs TB00246 Abrasive Belt Z#240 x 6 mm 50 pcs TA9A237 Abrasive Belt A#400 x 6 mm 50 pcs TA9A064 Abrasive Belt Z#60 x 10 mm 50 pcs TB00076 Abrasive Belt Z#80 x 10 mm 50 pcs TB00077 Abrasive Belt Z#100 x 10 mm 50 pcs TB00247 Abrasive Belt Z#120 x 10 mm 50 pcs TB00248 Abrasive Belt Z#180 x 10 mm 50 pcs TB00249 Abrasive Belt Z#240 x 10 mm 50 pcs	TB00241	Abrasive Belt Z#60 x 6 mm	50 pcs.	
TB00244 Abrasive Belt Z#120 x 6 mm 50 pcs TB00245 Abrasive Belt Z#180 x 6 mm 50 pcs TB00246 Abrasive Belt Z#240 x 6 mm 50 pcs TA9A237 Abrasive Belt A#400 x 6 mm 50 pcs TA9A064 Abrasive Belt Z#60 x 10 mm 50 pcs TB00076 Abrasive Belt Z#80 x 10 mm 50 pcs TB00077 Abrasive Belt Z#100 x 10 mm 50 pcs TB00247 Abrasive Belt Z#120 x 10 mm 50 pcs TB00248 Abrasive Belt Z#180 x 10 mm 50 pcs TB00249 Abrasive Belt Z#240 x 10 mm 50 pcs	TB00242	Abrasive Belt Z#80 x 6 mm	50 pcs.	
TB00245 Abrasive Belt Z#180 x 6 mm 50 pcs TB00246 Abrasive Belt Z#240 x 6 mm 50 pcs TA9A237 Abrasive Belt A#400 x 6 mm 50 pcs TA9A064 Abrasive Belt Z#60 x 10 mm 50 pcs TB00076 Abrasive Belt Z#80 x 10 mm 50 pcs TB00077 Abrasive Belt Z#100 x 10 mm 50 pcs TB00247 Abrasive Belt Z#120 x 10 mm 50 pcs TB00248 Abrasive Belt Z#180 x 10 mm 50 pcs TB00249 Abrasive Belt Z#240 x 10 mm 50 pcs	TB00243	Abrasive Belt Z#100 x 6 mm	50 pcs.	
TB00246 Abrasive Belt Z#240 x 6 mm 50 pcs TA9A237 Abrasive Belt AA#400 x 6 mm 50 pcs TA9A064 Abrasive Belt Z#60 x 10 mm 50 pcs TB00076 Abrasive Belt Z#80 x 10 mm 50 pcs TB00077 Abrasive Belt Z#100 x 10 mm 50 pcs TB00247 Abrasive Belt Z#120 x 10 mm 50 pcs TB00248 Abrasive Belt Z#180 x 10 mm 50 pcs TB00249 Abrasive Belt Z#240 x 10 mm 50 pcs	TB00244	Abrasive Belt Z#120 x 6 mm	50 pcs.	
TA9A237 Abrasive Belt AA#400 x 6 mm 50 pcs TA9A064 Abrasive Belt Z#60 x 10 mm 50 pcs TB00076 Abrasive Belt Z#80 x 10 mm 50 pcs TB00077 Abrasive Belt Z#100 x 10 mm 50 pcs TB00247 Abrasive Belt Z#120 x 10 mm 50 pcs TB00248 Abrasive Belt Z#180 x 10 mm 50 pcs TB00249 Abrasive Belt Z#240 x 10 mm 50 pcs	TB00245	Abrasive Belt Z#180 x 6 mm	50 pcs.	
TA9A064 Abrasive Belt Z#60 x 10 mm 50 pcs TB00076 Abrasive Belt Z#80 x 10 mm 50 pcs TB00077 Abrasive Belt Z#100 x 10 mm 50 pcs TB00247 Abrasive Belt Z#120 x 10 mm 50 pcs TB00248 Abrasive Belt Z#180 x 10 mm 50 pcs TB00249 Abrasive Belt Z#240 x 10 mm 50 pcs	TB00246	Abrasive Belt Z#240 x 6 mm	50 pcs.	
TB00076 Abrasive Belt Z#80 x 10 mm 50 pcs TB00077 Abrasive Belt Z#100 x 10 mm 50 pcs TB00247 Abrasive Belt Z#120 x 10 mm 50 pcs TB00248 Abrasive Belt Z#180 x 10 mm 50 pcs TB00249 Abrasive Belt Z#240 x 10 mm 50 pcs	TA9A237	Abrasive Belt AA#400 x 6 mm	50 pcs.	
TB00077 Abrasive Belt Z#100 x 10 mm 50 pcs TB00247 Abrasive Belt Z#120 x 10 mm 50 pcs TB00248 Abrasive Belt Z#180 x 10 mm 50 pcs TB00249 Abrasive Belt Z#240 x 10 mm 50 pcs	TA9A064	Abrasive Belt Z#60 x 10 mm	50 pcs.	
TB00247 Abrasive Belt Z#120 x 10 mm 50 pcs TB00248 Abrasive Belt Z#180 x 10 mm 50 pcs TB00249 Abrasive Belt Z#240 x 10 mm 50 pcs	TB00076	Abrasive Belt Z#80 x 10 mm	50 pcs.	
TB00248 Abrasive Belt Z#180 x 10 mm 50 pcs TB00249 Abrasive Belt Z#240 x 10 mm 50 pcs	TB00077	Abrasive Belt Z#100 x 10 mm	50 pcs.	
TB00249 Abrasive Belt Z#240 x 10 mm 50 pcs	TB00247	Abrasive Belt Z#120 x 10 mm	50 pcs.	
	TB00248	Abrasive Belt Z#180 x 10 mm	50 pcs.	
TA9A244 Abrasive Belt AA#400 x 10 mm 50 pcs	TB00249	Abrasive Belt Z#240 x 10 mm	50 pcs.	
	TA9A244	Abrasive Belt AA#400 x 10 mm	50 pcs.	

Optional Parts for B-20C

Part No.	Part Name	Q'ty		
TA99882	Idle Pulley Bracket A Ass'y	1 set		
TP02004	Triangular Shoe	1 pc.		
TB01868	Belt Cover Ass'y for B-20 (*1)	1 set		
TB03329	Belt Cover Ass'y for EB-20 (*1)	1 set		
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*1: For collecting the dust

Abrasive Belt for B-20C

Part No.	Part Name	Q'ty
TA99605	Abrasive Belt Z#40 x 20 mm	20 pcs.
TA99606	Abrasive Belt Z#60 x 20 mm	20 pcs.
TA99607	Abrasive Belt Z#80 x 20 mm	20 pcs.
TA99608	Abrasive Belt Z#100 x 20 mm	20 pcs.
TA99609	Abrasive Belt Z#120 x 20 mm	20 pcs.
TB00250	Abrasive Belt Z#180 x 20 mm	20 pcs.
TB00251	Abrasive Belt Z#240 x 20 mm	20 pcs.
TA9A252	Abrasive Belt AA#280 x 20 mm	20 pcs.
TA9A253	Abrasive Belt AA#320 x 20 mm	20 pcs.
TA9A254	Abrasive Belt AA#400 x 20 mm	20 pcs.

Optional Parts for B-30B

Part No.	Part Name	Q'ty
TP04083	Convex Shoe for B-30B	1 pc.
TP01869	Belt Cover Ass'y for B-30B (*1)	1 set
TB03102	Offset Bracket Ass'y for EB-30	1 set
TB03330	Belt Cover Ass'y for EB-30 (*1)	1 set

*1: For collecting the dust

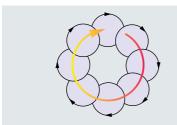
Abrasive Belt for B-30B

Part No.	Part Name	Q'ty
TB00252	Abrasive Belt Z#40 x 30 mm	20 pcs.
TB00253	Abrasive Belt Z#60 x 30 mm	20 pcs.
TB00254	Abrasive Belt Z#80 x 30 mm	20 pcs.
TB00255	Abrasive Belt Z#100 x 30 mm	20 pcs.
TB00256	Abrasive Belt Z#120 x 30 mm	20 pcs.
TB00257	Abrasive Belt Z#180 x 30 mm	20 pcs.
TB00258	Abrasive Belt Z#240 x 30 mm	20 pcs.
TA9A262	Abrasive Belt AA#280 x 30 mm	20 pcs.
TA9A263	Abrasive Belt AA#320 x 30 mm	20 pcs.
TA9A264	Abrasive Belt AA#400 x 30 mm	20 pcs.

ORBITAL SANDER

Compact yet extremely powerful. Built-in adjustable speed regulator.





Random orbital action creates a professional finish

The special construction includes the mounting of counter shaft below the rotor. This works in combination with the spindle and circular motions for an extra-fine finish. Speed adjustments allow selection for the best speed for the best job. Random orbital action eliminates swirl patterns and is suitable for polishing, too.

OSV-60A



Sand and polish metal, wood, plastic to a super fine swirl-free finish.

Light weight, compact, powerful, whisper quiet, and adjustable speed regulator.

Productivity and efficiency increase with the orbital sander. The lightweight unit delivers the performance of heavy duty unit with less vibration and reduced operator fatigue.

Specifications

Model	OSV-60A
Rated Air Pressure MPa {kgf/cm²}	0.59 {6}
Air Consumption (No load) m³/min	0.68
Motor Free Speed min ⁻¹ (rpm)	8,500
Orbit Diameter mm	OD 10
Paper Size mm	OD 150
Mass (Weight) kg	2.0
Pad	for self stick papers

Standard **Accessories**

- Bushing PT1/4 x NPT1/4: 1 pc. Dust Hose: 1 pc. • Spanner 17 : 1 pc. • Dust Bag : 1 pc.

Brush : 1 pc.

• Hose Nipple : 1 pc.

- Brush : 1 pc.
- Abrasive Paper #40 : 1 pc.
- Abrasive Paper #60 : 1 pc.
- Abrasive Paper #80 : 1 pc.
- Abrasive Paper #120 : 1 pc.

Optional Accessories

Part No.	Part Name	Q'ty
TA99582	Abrasive Paper #40	100 pcs.
TA99583	Abrasive Paper #60	100 pcs.
TA99584	Abrasive Paper #80	100 pcs.
TA99585	Abrasive Paper #100	100 pcs.
TA99586	Abrasive Paper #120	100 pcs.
TA99587	Abrasive Paper #180	100 pcs.
TA99588	Abrasive Paper #240	100 pcs.
TA99589	Abrasive Paper #280	100 pcs.
TA99590	Abrasive Paper #320	100 pcs.
TA99591	Abrasive Paper #400	100 pcs.

PALM ORBITAL SANDER

Ergonomically designed plastic housing conforms to the operator's hand for greater control and comfort.



APS-125/150



Random orbital action produces a higt-quality swirl-free finish.

- Extremely light. APS-125 weights just 690g.
- Simple structure for easy maintenance.
- Extermely low vibration.
- Adjustable speed.

Applications

- Feather edging, metal preparation, and finishing work on body filler.
- Curved surface sanding and corner rounding in wood work

For Self Vacuum & Central Vacuum

Available from stock are Non Vacuum Models. You can modify Non Vacuum to Self Vacuum or Central Vacuum by adding a few extra parts.



Self Vacuum



Central Vacuum

Specifications

Model	APS-125	APS-150
Rated Air Pressure MPa {kgf/cm²}	0.59 {6}	0.59 {6}
Air Consumption (No load) m³/min	0.45	0.45
Motor Free Speed min ⁻¹ (rpm)	10,000	10,000
Orbit Diameter mm	OD 5	OD 5
Paper Size mm	OD 125	OD 150
Mass (Weight) kg	0.69	0.72
Pad Mass (Weight) kg	0.10	0.12

Standerd Accessories	Spanner 17 : 1 pc.Bushing PT1/4 x NPT1/4 : 1 pc.
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FREE SANDER

Superlight, Quiet New low-vibration sander



Small and Lightweight for Comfort and Convenience

Free Sander fits the hand like a glove. It's human-engineered to less tiring over longer periods of operation for big jobs, and compact enough to permit working easily in corners and other spots.

Minimized Hand Vibration

The turbine motor of FS-100C and the single-ball air motor of FS-50A are mounted directly onto the sanding pad to minimize the discomfort of hand vibration and lessen operator fatigue caused by vibration. This along with excellent control results in a finer finish on all surface materials.









Powerful turbine motor

This newly developed motor features a turbine disc and is capable of high speed orbits for super-fine finishing of all materials.

Specifications

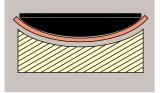
Model	FS-100C	FS-50A
Rated Air Pressure MPa {kgf/cm²}	0.59 {6}	0.59 {6}
Air Consumption (No load) m³/min	0.2	0.14
Motor Free Speed min ⁻¹	20,000	15,000
Orbit Diameter mm	OD 1.5	OD 1.2
Pad Size mm	100 x 110	75 x 82
Paper Size mm	114 x 140	70 x 114
Mass (Weight) kg	0.5	0.5

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Standard Accessories

- Hose E Ass'y : 1 set
- Bushing PT1/4 x NPT1/4 : 1 pc.
- Sandpaper #180 : 5 sheets.
- Sandpaper #240 : 5 sheets.
- Hose E Ass'y: 1 set
- Bushing PT1/4 x NPT1/4 : 1 pc.
- Sandpaper #180 : 5 sheets.
- Sandpaper #240 : 5 sheets.

Optional Accessories



Round-Pad for FS-100C

The pad is made of sponge rubber and conform easily to the shape being worked. Double-side tape is used with round pad.

For Free Sander FC-100

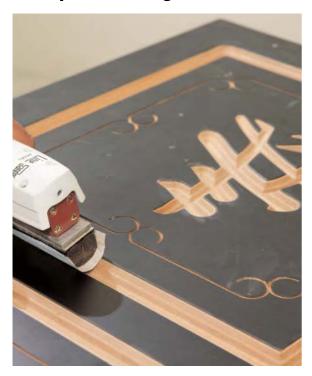
Part No.	Part Name	Q'ty
TA91472	T-Type Off-center Pad Ass'y	1 pc.
TA91473	T-Type Center Pad Ass'y	1 pc.
TA91474	Round Pad Ass'y	1 pc.
TA91678	Flexible Pad Ass'y	1 pc.
TP03803	Adhesive Spray	1 pc.
TP04270	Double Side Adhensive Tape	1 pc.
TA9A265	Sandpaper #100	200 pcs.
TA9A266	Sandpaper #120	200 pcs.
TA9A267	Sandpaper #150	200 pcs.
TA9A268	Sandpaper #180	200 pcs.
TA9A269	Sandpaper #240	200 pcs.
TA9A270	Sandpaper #280	200 pcs.
TA9A271	Sandpaper #320	200 pcs.
TB02235	Dust Collector Ass'y	1 pc.

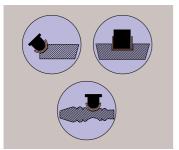
For Free Sander FC-50

Part No.	Part Name	Q'ty
TA92733	T-Type Pad	1 pc.
TB02240	Dust Collector Ass'y	1 pc.

LINE SANDER

Sands to a clean finish and more in less time. Compact and light.





Special Sanding Pad

An accessory Block Rubber Pad Ass'y can be easily trimmed to conform the shape being worked.

Standard Accessories	Hose E Ass'y: 1 set Bushing PT1/4 x NPT1/4: 1 pc. Block Rubber Pad Ass'y: 1 set Abrasive Paper #240: 5 sheets Abrasive Paper #320: 5 sheets
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Optional Accessories

Part No.	Part Name	Q'ty
TB02244	Dust Collector Ass'y	1 pc.



Light sanding with piston movement

A compact, lightweight and economical unit having amazingly low air consumption. Built rugged for long continuous hours of operation.

Incorporates no gears and other complicated mechanisms.



Double Piston Alignment

Special double-action minimizes both noise and vibration so the operator works in more comfort.

Specifications

Model	LS-10
Rated Air Pressure MPa {kgf/cm²}	0.59 {6}
Air Consumption (No load) m³/min	0.11
Free Speed min ⁻¹	4,000
Stroke mm	4
Pad Size mm	55 x 103
Abrasive Paper Size mm	57 x 140
Mass (Weight) kg	0.75

SUPER HAND

Super efficient way of easy filing, polishing and finishing



Flat Bastard File SF-13



Rat Tail File SF-10



Triangular Taper File SF-11



Half Round File (Rat Tail/Double Cut) SF-12



SUPER HAND replaces work.

SUPER HAND is ultra-small, ultra-lightweight; yet performs with the power and efficiency of a much larger tool to meet user requirements of filling, chamfering and other jobs.

It comes with the quick-change tool points for different jobs. You can work on steel, glass, brass, aluminium, wood and other materials silently.

It also handles scores of big jobs with speed and ease.

SH-100A



ASH-800



WEIGHT REDUCED BY HALF FOR COMFORTABLE OPERATION OVER LONG PERIOD OF TIME.

Specifications

Model	SH-100A	ASH-800
Rated Air Pressure MPa {kgf/cm²}	0.59 {6}	0.59 {6}
Air Consumption (No load) m³/min.	0.24	0.23
Stroke Speed min ⁻¹	3,700	6,500
Stroke mm	9	8
Max. Shank dia of Points mm	OD 6.3	OD 5.5
Mass (Weight) kg	1.1	0.52

Standard Accessories

- Flat Bastard File SF-13:1 pc.
 Rat Tail File SF-10:1 pc.
- Triangular Taper File SF-11 : 1 pc.Half Rounded File (Rat Tail/Double Cut)
- SF-12:1 pc.

 Hex. Socket Screw Key 3:1 pc.

 Bushing PT1/4 x NPT1/4:1 pc.
- Flat Bastard File SF-13:1 pc.
- Rat Tail File SF-10 : 1 pc.
- Triangular Taper File SF-11: 1 pc.
 Half Rounded File (Rat Tail/Double Cut) SF-12: 1 pc.
- Hex. Socket Screw Key 2.5 : 1 pc.
- Hi Cupla (HA-65SNG) : 1 pc.

Optional Accessories

Rubber Pad Ass'y for SH-100A



Sanding Pad Ass'y for ASH-800



For Super Hand SH-100A & ASH-800

Part No.	Part Name	Q'ty	
TA9A222	Rat Tail SF-10	5 pcs.	
TA9A223	Triangular Taper File SF-11	5 pcs.	
TA9A224	Half Rounded File (Rat Tail/Double Cut) SF-12	5 pcs.	
TA9A225	Flat Bastard File SF-13	5 pcs.	
TA91752	Rubber Pad Ass'y for SH-100A	1 set	
TB03887	Sanding Ass'y for ASH-800	1 set	

SUPER SAW

Special double-piston system achieved low vibration while cutting speed improved!!

SSW-110



Optional Accessories



Part No.	Part Name	Q'ty
TA9A005	Saw Blade 32	10 pcs.
TA9A011	Saw Blade 24	10 pcs.
TB00193	Saw Blade 18	10 pcs.
TB00192	Saw Blade 14	10 pcs.

SSW-110 has many feature on the followings.....

- Low vibration is achieved by the special design of double piston mechanism.
- New adoption of piston rings minimized power loss and improved cutting efficiency.
- Longer piston stroke improved cutting speed so much.
- Rear exhaust system for chip-scattering-free operation.
- New double-lock throttle lever prevents unintended.
- Cutting Capacity : Max. plate thickness 3mm (for Mild Steel)

Specifications

Model	SSW-110
Rated Air Pressure MPa {kgf/cm²}	0.59 {6}
Air Consumption (No load) m³/min	0.29
Stroke Speed min ⁻¹	7,000
Stroke mm	11
Mass (Weight) kg	0.62

	Saw Blade 32 : 2 pcs.
Standard Accessories	Hex. Socket Screw Key 3 : 1 pc. Bushing PT1/4 x NPT1/4 : 1 pc.

AIR DRILL

The power and performance you need to drill deeper and faster

AD-65B







This patented silencer dramatically eliminates operation noise. Perfect for light and medium duty drilling. Extra light yet extra durable. Maximum efficiency...Minimum air consumption. You can select the right material. Exhaust position does not stand in the way of efficiency.

Specifications

Model	AD-65B	AD-100B
Rated Air Pressure MPa {kgf/cm²}	0.59 {6}	0.59 {6}
Air Consumption (No load) m³/min.	0.42	0.56
Free Speed min ⁻¹ (rpm)	2,900	1,400
Max. Drilling Capacity mm	OD 6.5	OD 10.0
Mass (Weight) kg	0.75	1.4

Standard Accessories	Drill Chuck: 1 pc. Chuck Handle: 1 pc. Bushing PT3/8 x NPT3/8: 1 pc.	Drill Chuck: 1 pc. Chuck Handle: 1 pc. Bushing PT3/8 x NPT3/8: 1 pc.
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HAND BEVELER HB-15B Beveling up to 15C







Beveling steel plates

Beveling I-beams

- Ideal for beveling before welding 15C
 - Use easy-to-replace super-solid cutting tips
 - Each cutting tip has four working edges for good economy
 - Finish a surface so fine that post-sanding is unnecessary
 - Column R-section can be chamfered with optional attachment
 - No damage of workpieces is expected as heat-hardening or oxidization will seldom happen

Specifications

Model	HB-15B		
Power Source (Single phase)	115V AC	230V AC	
Rated Power Consumption W	910	910	
Rated Current A	10.5	4	
No-load Speed min-1(rpm)	3,340	2,750	
Chamfering Capacity	0 C - 15 C		
Chamfer Angle	15° ∼ 45°		
Mass (Weight) kg	14		

Standard accessories

- Hex.Socket Screw Key 4,5,6 mm: each 1 pc.
 Spanner 24×27: 1 pc.
 Hook spanner 25 ~ 28: 1 pc.
 T Wrench Key 3 mm: 1 pc.
 TA9A093 Tip 12.7 sq., 12 pcs./ set. 1 set

Double insulation

Optional accessories

• TA9A728 Pipe Plate Ass'y for O.D. 5" to 32" (125mm to 800mm)

Handy Electric Beveling Tool

BEVELER **MB-03A**





Compact and light for speed beveling

- An outer R-part attachment allows chamfering of outer diameters with a radius greater than 170 mm
- An optional inner head ass'y allows chamfering a pipe of inner diameter larger than 100 mm (50R)

Specifications

2R, 3R

Model	MB-03A
Power Supply (Single phase)	230V or 115V AC, 50/60 Hz
Rated Power Consumption W	430
Rated Current A	2 / 4.5
Chamfering Capacity	0 - 3 C
Chamfering Radius Capacity	2R, 3R
Chamfer Angle	45°
Rated Revolutions min ⁻¹ (rpm)	7,100
Weight kg	2.5

Standard accessories

Hex.Socket Screw Key 3 & 4 mm: each 1 pc.
Spanner T-9F: 1 pc.

Optional accessories

- TA9A386 Tip 9.525, 10 pcs./set
 TA9A592 Tip 9.525 2R, 10 pcs./set
 TA9A638 Tip 9.525 3R, 10 pcs./set
 TA9A594 Inner Head Assembly

Handy Electric Chamfering Tool

LER EMB-0307A

Double insulation



Beveling angle and width

4R

The tool has the limit of beveling width which depends on a beveling angle.

Beveling angle	Stainless Steel (mm)			ld Ste (mm)		
α	Α	В	С	Α	В	С
45°	3	3	4.2	7	7	9.9
30°	2.2	3.8	4.4	3.8	6.6	7.6
15°	1	3.8	3.9	1.5	5.6	5.8



- Applicable to stainless steel and mild steel beveling
- Super-solid insert with 4-side blades per piece practices good
- Simple to adjust beveling depth and replace insert
- Pipe outer edge can be also processed with standard accessories
- Dust box enables collection of swarf and chips
- Beveling angle can be adjusted to any desired position at 15°~45°

Standard accessories

- Carbon Brush Assy: 1 pc.
 Hex.Socket Screw Key 4 mm: 1 pc.
 Super-solid Insert with Hole 12.7: 1 pc.
 Insert Set Screw 4 x 7: 1 pc.
- Hex. Nut M8: 2 pcs.
 Hex. Socket Set Screw 8 x25: 2 pcs.
- Spanner T-15D: 1 pc.

Specifications

Model		EMB-0307A	
Power Supply		220 ~ 240V AC, 50/60 Hz	
Rated Power (Consumption W	1,020	
Rated Current	А	4.6	
Rated Duty		Continuous	
Chamfering Stainless Steel		0 ~ 3C, 2R, 3R, 4R	
Capacity	Mild Steel	0 ~ 7C, 2R, 3R, 4R	
Chamfering A	ngle	15° ~ 45°	
Power cord le	ngth m	4	
Mass (Weight) kg	4	

Pneumatic Chamfering Tool

Ring Type **Lever Type** ELER AMB-0307 AMBL-0307



Stainless Steel

Mild Steel

NOW A SMALL AIR BEVELER DOES THE BIG JOBS, TOO.

Specifications

Model		AMB-0307, AMBL-0307	
Air Pressure MPa {kgf/cm²}		0.59 {6}	
Air Consumption (No load) cm³/min		0.9	
Free Speed min-1 (rpm)		14,000	
Chamfering Stainless Steel		0 C ~ 3 C or 2 R, 3 R, 4 R	
Capacity	Mild Steel	0 C ~ 7 C or 2 R, 3 R, 4 R	
Chamfer Angle		$15^{\circ} \sim 45^{\circ}$	
Mass (Weight) kg		2.9	

Applicable to stainless steel and mild steel beveling

Super-solid insert with 4-side blades per piece practices good economy

180mm

202mm

- Simple to adjust beveling depth and replace insert
- Pipe outer edge can be also processed with standard accessories
- Beveling angle can be adjusted to any desired position at 15°~45°

Standard accessories

Hex.Socket Screw key 3 & 4 mm: each 1 pc.
Spanner: 1 pc.

Optional accessories

126mm

Code	Description	Models
TB01159	Insert with Hole 12.7 , 10pcs. /set	AMB-0307 , AMBL-0307 , EMB-0307A
TB01791	Insert 12.7 sq. R2 , 10pcs. /set	AMB-0307 , AMBL-0307 , EMB-0307A
TB01651	Insert 12.7 sq. R3 , 10pcs. /set	AMB-0307 , AMBL-0307 , EMB-0307A
TB01790	Insert 12.7 sq. R4 , 10pcs. /set	AMB-0307 , AMBL-0307 , EMB-0307A
TQ01683	Spanner T-15D	AMB-0307, AMBL-0307
TB02539	Attachment for small dia. steel pipe (outside diameter of 80Ø~200Ø)	AMB-0307 , AMBL-0307 , EMB-0307A

Pneumatic Radial Chamfering Tool

BEVELER CB-02

Lets you chamfer easily and smoothly no matter what the curve line is



- Precisely adjust chamfer dimensions with accessory gauge

Versatility chamfer either inner or outer edges

Specifications

Model	CB-02
Air Pressure MPa {kgf/cm²}	0.59 {6}
Air Consumption (No load) cm³/min	0.4
Free Speed min ⁻¹ (rpm)	13,000
Chamfering Capacity	0C ∼ 2C, 2R
Chamfer Angle	45°
Mass (Weight) kg	1.8

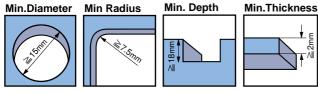
Standard accessories

C tips: 1 pc.Adjustment gauge: 1 pc.Spanner T-9F: 1 pc. Protective cap: 1 pc. Protective glasses: 2 pcs.
Hook Spanner 58-62: 1 pc.

Optional accessories

TA9A386 : Tip 9.525 sq. Ass'y (10 pcs.)
 TA9A592 : Tip 9.525 sq. R2 Ass'y (10 pcs.)
 TA9A638 : Tip 9.525 sq. R3 Ass'y (10 pcs.)

Beveling range of operation (CB-02, ECB-0203)

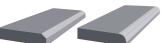


Electric Radial Chamfering Tool

EVELER ECB-0203

Smoothly beveling straight and curved edges









Beveling straight edges

Beveling curved edges

- Applicable up to 3C (3R) mild steel beveling, and up to 1.5C (2R) stainless steel beveling
- Minimum beveling plate thickness is 2mm (Max.0.5C)
- Insert with 4-side blades per piece practices good economy
- An optional straight plate allows beveling a straight edge shoulder

Specifications

Model		ECB-0203	
Power Supply		220V ~ 240V AC, 50/60Hz	
Rated Power Consumption W		450	
Rated Duty	min	30	
Motor No-load Speed min ⁻¹ (rpm)		11,000	
Chamfering	Mild Steel	0C ∼ 3C, *2R, 3R	
Capacity	Stainless Steel	0C ∼ 1.5C, *2R	
Beveling Ar	igle	45°	
Power Code Length m		2.5	
Mass (Weight) kg		2.5	
144	11 11 65 11		

※ In case of beveling 3R, an optional insert for 3R is necessary, and beveling 2R, an optional guide sleeve 24mm dia, and super solid insert for 2R are necessary.

Standard accessories

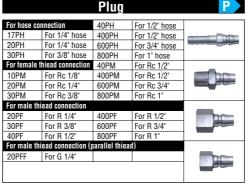
- Insert with hole 12.7: 1 pc.
 Insert set screw: 1 pc.
 Hex.Socket Screw Key 5: 1 pc.
 Spanner 8 x 10: 1 pc.

QUICK CONNECTIVE COUPLINGS FOR PNEUMATIC TOOLS HI CUPLA Series

HI CUPLA®/ HI CUPLA® 200 (One-tuch connection & Big flow rate type)



- One-way shut-off cupla with an automatic shut-off valve in the socket.
- Important pars are hardened for excellent wear resistance and durability.



ı			SUCKEL		
l		For hose co	nnection	40SH	For 1/2" hose
l		17SH	For 1/4" hose	400SH	For 1/2" hose
l		20SH	For 1/4" hose	600SH	For 3/4" hose
l		30SH	For 3/8" hose	800SH	For 1" hose
1		For female	thiead connection	40SM	For Rc 1/2"
l	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10SM	For Rc 1/8"	400SM	For Rc 1/2"
l		20SM	For Rc 1/4"	600SM	For Rc 3/4"
l	_	30SM	For Rc 3/8"	800SM	For Rc 1"
1		For male th	iead connection		
l	-	20SF	For R 1/4"	400SF	For R 1/2"
l		30SF	For R 3/8"	600SF	For R 3/4"
l		40SF	For R 1/2"	800SF	For R 1"
1					
ı		For hose co	nnection		

	N Ł	
		3
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**		
13		

Specifications		
Type	Hi Cupla	Hi Cupla 200
Body material	Steel (chrome-plated)	Steel (chrome-plated)
Size	1/8", 1/4", 3/8", 1/2", 3/4", 1"	1/8", 1/4", 3/8", 1/2"
Working pressure	1.5MPa	1.0MPa
Pressure resistance	2.0MPa	1.5MPa
Packing material	NBR	NBR
Working temp.range	-20°C~80°C	-5°C60°C

	For hose co	nnection		
E COURSE	200-17SH	For 1/4" hose	200-40SH	For 1/2" hose
	200-20SH	For 1/4" hose		
	200-30SH	For 3/8" hose		
_	For female	thiead connection		
-	200-20SM	For Rc 1/4"		
	200-30SM	For Rc 3/8"		
	200-40SM	For Rc 1/2"		
	For male th	iead connection		
	200-20SF	For R 1/4"		
	200-30SF	For R 3/8"		
	200-40SF	For R 1/2"		

NUT CUPLA / NUT CUPLA 200 • No hose clamping band required!

- Simple, secure, urethane hose connection!



		Pluç]	P	
For uret	hane hose connection	(PN)			
50PN	ID 5 x OD 8 hose	80PN	ID 8 x OD 12 hose	- The second	
60PN	ID 6 x OD 9 hose	85PN	ID 8.5 x OD 12.5 hose		
65PN	ID 6.5 x OD 10 hose	110PN	ID 11 x OD 16 hose		
For uret	hane hose with spring	nut conn	ection (PNG)		
50PNG	For ID 5 x OD 8 hose				
65PNG	PNG For ID 6.5 x OD 10 hose			21111111111I	
85PNG					

- Fitted with spring nut to eliminate kinking worries.
- NUT CUPLA 200 is one-tuch connection and big flow rate type.

	For urethar	ne hose connection	(SN)	
	50SN	ID 5 x OD 8 hose	80SN	ID 8 x OD 12 hose
	60SN	ID 6 x OD 9 hose	85SN	ID 8.5 x OD 12.5
	65SN	ID 6.5 x OD 10 hose	110SN	ID 11 x OD 16 hose
	For urethar	ne hose connection	(SN)	
EMERCO IN	200-50SN	ID 5 x OD 8 hose	200-80SN	ID 8 x OD 12 hose
	200-60SN	ID 6 x OD 9 hose	200-85SN	ID 8.5 x OD 12.5
	200-65SN	ID 6.5 x OD 10 hose	200-110SN	ID 11 x OD 16 hose
	For urethan	e hose with spring	nut connecti	on (SNG)
-	200-50SNG	For ID 5 x OD 8	hose	
	200-65SNG For ID 6.5 x OD 10 hose			
	200-85SNG	For ID 8.5 x OD	12.5 hose	

HI CUPLA ACE



Specifications

Body material	Engineering plastics
Size	1/4", 3/8", others
Working pressure	1.5MPa
Pressure resistance	2.0MPa
Packing material	NBR
Working temp range	-5°C~60°C

- Plastic Cuplas with a bult-in locking mechanism!
- Pressure ratings comprable to steel Cuplas.

	P	
For hose conn	• ,	
20PH-PLA	For 1/4" hose	
30PH-PLA	For 3/8" hose	
For female thr	ead connection (PM)	
20PM-PLA	For Rc 1/4"	
30PM-PLA	For Rc 3/8"	
For urethane ho	se with spring nut connection (PNG)	
50PNG-PLA	For ID 5 x OD 8 hose	
65PNG-PLA	For ID 6.5 x OD 10 hose	
85PNG-PLA	For ID 8.5 x OD 12.5 hose	
For male threa	ad connection (PF)	
20PFF-PLA	For G 1/4"	0.0
		(33) 441

S Hi Cupla Ace Socket		
	For hose conn HA-20SH	For 1/4" hose
	HA-30SH For female thr	For 3/8" hose ead connection (SM)
	HA-20SM HA-30SM	For Rc 1/4" For Rc 3/8"
	For urethane hose with spring nut connection (SNG)	
	HA-50SNG	For ID 5 x OD 8 hose
	HA-65SNG	For ID 6.5 x OD 10 hose
	HA-85SNG	For ID 8.5 x OD 12.5 hose
	Hi Cupla Ace 1	type (for 2 branches)
	HA-T	20P-PLA / HA-65S x 2

ROTARY PLUG



- Newly developed rotary function allow 360° rotation!
- Great improvement for working pneumatic tools!

RL-20PM: For Rc 1/4" female thread conection RL-30PM: For Rc 3/8" female thread conection RL-20PFF: For G 1/4" male thread conection

LINE CUPLA 200



- Enables several air lines to be taken simultaneously from one supply line!
- Gives speedy branching of Hi Cupla.

200T Type: For two branch line 200L Type: For five branch line, straight type 200S Type : For five branch line, star type

CUPLA SERIES

Quick Connecting Fluid Couplings are The World's Best for both Quality and Quantity!



Full line-up consisting of 3,000 series, 20,000 type variations. The couplings eliminate inconvenience of thread-in or bolted flange connections, fluid leakage, or hose kinking but provide speedy control and maintenance of fluid piping.

Machine Tools

Electric & Hydraulic Machine Tools, Labor-saving plus Improved Work Efficiency!

A wide range of unique tools for boring, punching, beveling or machining.

MACHINE TOOLS LINE-UP

PORTABLE CUTTING UNIT WITH MAGNET BASE
ATRA ACE QUICK AUTO
ATRA ACE MANUAL FEED

TUNGSTEN CARBIDE TIPPED & H.S.S ANNULAR CUTTERS
JET BROACH
HI-BROACH

PORTABLE MAGNETIC DRILL STAND
ATRA MASTER

PORTABLE HYDRAULIC PUNCHER
SELFER ACE
SELFER & HYDRALIC PUMP
HANDY SELFER

PORTABLE BEVELING TOOL
HAND BEVELER
MINI BEVELER
CIRCUIT BEVELER

PORTABLE HYDRAULIC ANGLE MACHINING TOOL
PORTABLE MULTI WORKER



Linear Motor Driven Free Piston System

MEDO pumps are unique products featuring a patented Linear-motor-driven Free Piston System, that cannot be duplicated by anyone else. NITTO KOHKI has made available a complete series of air compressors and suction pumps that incorporate this revolutionary mechanism. These are quite appropriate as air sources or suction power units for various pneumatically operated equipment and apparatus in advanced industries.



DLV 7500/7600 8500/8600 Serie

Gelvo® Professional Tools for High Technology

NITTO KOHKI "delvo" Electric Screwdrivers are high-quality tools for professional use, with special emphasis on precise control of torque and long life. They apply just the correct amount of torque –with sure, positive control always at your fingertips. They're smooth and shockless in operation, too. NITTO KOHKI's customer-oriented service system is directly connected to sales agents to ensure that you can use "delvo" Electric Screwdrivers with confidence.

Jelvo® Models

DLV7300 Series DLV7500/7600/8500/8600 Series DLV7000/ DLV7100/7200/8100/8200 Series DLV1001 Series DLV9000

DLV7000/8000 Series

DLV9000 Series DLV5720/5720H/5740/5740H/5750 Series



TIGON Spring Balancer Improves Work Safety & Efficiency.

TIGON Spring Balancer Models

TW-00/TW-0/TW-3/TW-5/TW-9/TW-15/TW-22/ TW-30/TW-40/TW-50/TW-60/TW-70



Responding to the Diversified Needs of Users, we put to Active Use of our Technology and Experience developed over Many Years.

Head Office and Laboratory, Tokyo Japan



NITTO KOHKI CO., LTD.

Stable supply of products is maintained while we are responding to sound ideas for high grade development. A lively program for interchanging personnels between the development and production departments demonstrates great strength in better working coordination by "crossing the bridge" between new ideas and industrial products.

Lines of Business

The development, manufacture and sales of

- labor-saving tools through the application of pneumatic, hydraulic and electric technology
- (2) easily operated couplings for various fluids
- (3) high performance free-piston pumps and the development, manufacture and sales of devices based on their applications
- (4) various robots and material handling systems.

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Ujiie Plant



Yamagata Plant



Shirakawa Plant



Thailand Plant





IMPORTANT SAFETY INSTRUCTIONS FOR ALL AIR TOOLS

When using air tools, basic safety precautions should always be followed to reduce the risk of personal injury, including the following.

Operator

Operators assigned to use the tools should be instructed in the safe use of the tool.

No person should use this tool without first having read and understood this instruction manual.

(1) Dress properly.

Do not wear loose clothing or ornaments. They can be caught in moving parts.

Non-skid footwear is recommended. Wear protective hair covering to contain long hair.

(2) Always wear eye protection.

Everyday eyeglasses only have impact resistant lenses. They do NOT protect eyes. Also use face or dust mask, if operations create dust.

(3) Always wear protective ear equipment.

(4) Do not overreach.

Keep proper footing and balance at all times

(5) Stay alert.

Watch what you are doing. Use common sense. Do not operate tool when you are tired.

(6) Some tools generate substantial vibrations.

If discomfort or pain is encountered during use, you should cease operations and check with your physician prior to further use.

(7) Be sure to keep hands clear of moving parts.

Work-place

(1) Keep work area clean.

Cluttered work areas and benches invite accidents and injuries.

(2) Consider work area environment.

Do not expose tools to rain. Do not use tools in damp or wet locations. Keep work area well lit.

(3) Do not operate near flammable liquids or in gaseous or explosive atmospheres.

(4) Keep children away.

Also all visitors should be kept away from work area

Do not let visitors contact the tool, compressor or connecting hoses.

(5) Some tools generate high noise levels.

Check to be sure that the use of this tool conforms to all local noise regulations.

Before Work

(1) Be sure all external screws, nuts and bolts are tightly secured prior to each use.

(2) Do not use damaged frayed or deteriorated hoses and fittings.

(3) Remove adjusting keys and wrenches.

Form habit of checking to see that adjusting keys and wrenches are removed from tool before turning it on.

(4) Use right tool.

Do not force a small tool or attachment to do the job of a heavy-duty tool. Do not use tool for a purpose not intended.

(5) Do not force tool.

It will do the job better and safer at the rate for which it was designed.

(6) Secure work

Use clamps or a vise to hold work when practical.

It is safer than using your hand and it frees both hands to operate tool.

(7) Air pressure at the inlet must not exceed 0.59 MPa (6kgf/cm², 85psig, 5.9bar).

Handling

(1) Store idle tools.

When not in use, tools should be stored in dry, and locked-up places out of reach of children.

(2) Avoid unintentional starting.

Do not carry air-powered tool with finger on throttle.

When carrying tool, be sure the connecting hose to the compressor is disconnected.

(3) Reduce the risk of unintentional starting.

Make sure throttle is in "OFF" position before connecting air hose to tool.

(4) Do not abuse hose.

Never carry tool with air supply hose connected or yank on hose to disconnect.

(5) Never leave tool running unattended

Always turn off the air supply and disconnect the air supply hose. Do not leave tool unattended until it comes to a complete stop.

Maintenance

(1) Do not reconstruct or modify.

(2) Check damaged parts

Before further use of the tool, an accessory or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended functions. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. An accessory or other part that is damaged or inoperable should be properly repaired or replaced.

(3) Repairs by authorized personnel.

Any repairs on the tool or installation of replacement parts should be performed only by the sales agent from whom you purchased the tool or the manufacturer.

Use only genuine replacement parts. Failure to utilize the expertise of an authorized sales agent from whom you purchased the tool or the manufacturer or, failure to use genuine replacement parts, may result in an increased risk of injury to the user and may invalidate your warranty.

(4) Use recommended accessories.

Consult this manual or the sales agent from whom you purchased the tool or the manufacturer for recommended accessories. The use of improper accessories may cause risk of injury to persons.

(5) Always turn off the air supply and disconnect the air supply hose before installing, removing or adjusting any accessory on the tool or before performing any maintenance on the tool.

(6) Do not remove any label placed on the tool.

If the labels become damaged, or begin to peel away, contact the sales agent from whom you purchased the tool or the manufacturer for their immediate replacement.

Technologies that Respond to the Needs of the Times







★ Specifications and designs are subject to change at any time without notice.



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