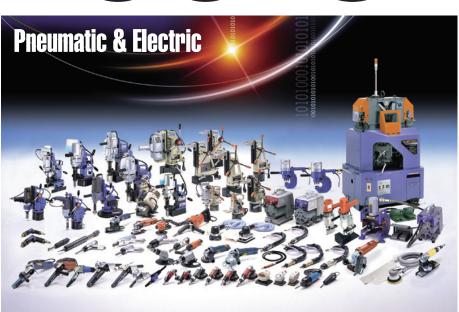


Nitto Kohki's POWER TOOLS





















Pneumatic & Electric Power Tools,

Labor-saving plus Improved
Work Efficiency!

NEEDLE SCALER

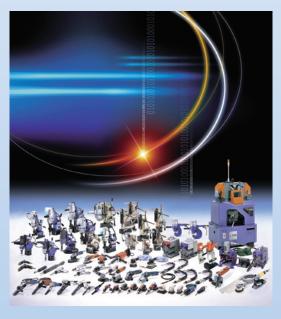
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Whether you just glance through this booklet or give it an intensive reading, we are sure you'll agree that NITTO KOHKI's portable hydraulic and electric machines and pneumatic hand tools are among the finest precision engineered equipment to be found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

	Manufacturing	Sheet-Metal Working	
NEEDLE SCALER JET CHISEL	Various peening works	Paint & rust scaling	
AIR HAMMER AUTO CHISEL	Rivet calking, bush inserting & removing	Sheet metal cutting, paint chiseling, rivet punching	
PNEUMATIC SCALER SUPER KELEN	-	-	
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 HAND DRILL AIR DRILL	Various drilling works	Various drilling 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	
PORTABLE FINE FINISHING FILE MICRO AIR HAND	Precision filing of flash, chamfering, groove finishing	-	
PNEUMATIC HACKSAW SUPER SAW	Cuts with small radii	To cut mild steel plates, aluminum, plastics and other materials	
PORTABLE CHAMFERING TOOLS BEVELER	Chamfering of large workplaces	-	
PNEUMATIC RADIAL CHAMFERING TOOL CIRCUIT BEVELER	Chamfering of dies and machine	Chamfering of steel plate	

HI CUPLA Series

Machine Tools

"delvo" Electric Screwdrivers, Spring Balancer, Linear Motor Driven Free Piston System

NOTES ON USING TOOLS – Important Safety Instructions

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JET CHISEL

Powerful scaling with multi-needles

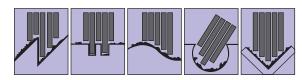


Never skips a blow, cleans and descales all jobs fast. Gets into extremely restricted areas...

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 efficient time-saver ship-board in applications, too.



Shot Peening Effect

Reinforcement of a welded part with the shot peening effect increases strength by imparting residual stress to the surface of the workpiece through the high speed impact of the needles. Highly suitable for effective reinforcement of deteriorated welded parts.

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.



AJC-16 Slim Type



Model JT-20 Popular Type



JEX-20 Low Vibration Type



Specifications

-				
Model	AJC-16	JT-20	JEX-20	
Rated Air Pressure MPa {kgf/cm²}	0.6 {6}	0.6 {6}	0.6 {6}	
Air Consumption (No load) m³/min	0.07	0.2	0.2	
Stroke Speed min ⁻¹	6,000	4,000	4,000	
Needle qty	OD 2 × 7 pcs. or OD 3 × 3 pcs.	OD 2 × 29 pcs. or OD 3 × 12 pcs.	OD 2 × 29 pcs. or OD 3 × 12 pcs.	
Hose Size inch	3/8	3/8	3/8	
Mass (Weight) kg	0.98	2.4	2.75	

Standard Accessories

- Needle OD 3 mm × 180 mm : 3 pcs. (Needle OD 3 mm × 180 mm : 3 pcs. on the body)
- Bushing R 3/8 × NPT 3/8 : 1 pc.
- Hose Nipple R 3/8 × 3/8 : 1 pc.
- Needle OD 3 mm × 180 mm : 12 pcs.
- (Needle OD 3 mm × 180 mm : 12 pcs. on the body)
- Bushing R 3/8 × NPT 3/8 : 1 pc. • Hose Nipple R 3/8 × 3/8 : 1 pc.
- Needle OD 3 mm × 180 mm : 12 pcs. (Needle OD 3 mm × 180 mm : 12 pcs. on the body)
 - Bushing R 3/8 × NPT 3/8 : 1 pc.
 - Hose Nipple R 3/8 × 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-2800A









Specifications

opounioutiono						
Model	del JC-16		JEX-28	JEX-2800A		
Rated Air Pressure MPa {kgf/cm²}		0.6	{6}			
Air Consumption (No load) m³/min	0.15	0.27	0.35	0.43		
Stroke Speed min ⁻¹	4,000	4,000	4,500	3,700		
Needle qty	OD 2 × 29 pcs.	OD 2 × 53 pcs. or OD 3 × 23 pcs.	OD 2 \times 66 pcs. or OD 3 \times	28 pcs. or OD 4 × 14 pcs.		
Hose Size inch		3/	/8			
Mass (Weight) kg 1.4		2.7	3.5	3.1		

Standerd Accessories

• Needle OD 2 mm × 150 mm : 58 pcs. (Needle OD 2 mm x 150 mm : 29 pcs. on the body) •Bushing R 3/8 × NPT 3/8: 1 pc. • Hose Nipple R 3/8 × 3/8 : 1 pc.

• Needle OD 3 mm × 180 mm : 23 pcs. on the body • Needle OD 4 mm × 180 mm : 14 pcs. •6 mm Hex. Socket Screw Key: 1 pc. • Bushing R 3/8 × NPT 3/8 : 1 pc. • Hose Nipple R 3/8 × 3/8 : 1 pc.

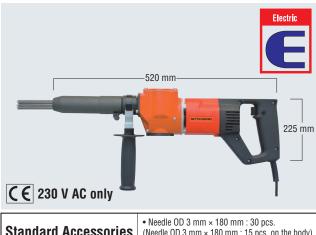
• Needle OD 3 mm × 180 mm : 28 pcs. on the body •Needle Supporter OD 4 mm : 1 pc. •6 mm Hex. Socket Screw Key : 1 pc. •Bushing R 3/8 × NPT 3/8 : 1 pc.

• Hose Nipple R 3/8 × 3/8 : 1 pc.

•Needle OD 4 mm × 180 mm : 14 pcs. • Needle OD 3 mm × 180 mm : 28 pcs. on the body • Needle Supporter OD 4 mm : 1 pc. Bushing R 3/8 × NPT 3/8 : 1 pc. • Hose Nipple R 3/8 × 3/8 : 1 pc.

Electric Needle Scaler

Model EJC-32A



Standard Accessories (Needle OD 3 mm × 180 mm : 15 pcs. on the body) • 6 mm Hex. Socket Screw Key : 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

Model		EJC-32A	
Power Supply		115 V AC, 50/60 Hz	230 V AC, 50/60 Hz
Rated Power Consumption	W	300	
Rated Current	А	2.8	1.4
Rated Duty	min	30	
Stroke Speed	min ⁻¹	3,000	
Needle	qty	OD 2 × 32 pcs. or OD 3 × 15 pcs.	
Power Cord Length	m	5	
Mass (Weight)	kg	4	.5

Optional Needles



PN	Description	Qty
TA98780	Needle OD 2 mm × 150 mm	100 pcs.
TA98781	Needle OD 2 mm × 180 mm	100 pcs.
TA9A213	Needle OD 2 mm × 300 mm	50 pcs.
TA9A214	Needle OD 2 mm × 500 mm	50 pcs.
TA98782	Needle OD 3 mm × 180 mm	100 pcs.
TA9A216	Needle OD 3 mm × 300 mm	50 pcs.
TA9A217	Needle OD 3 mm × 500 mm	50 pcs.
TA9A218	Needle OD 3 mm × 800 mm	50 pcs.
TA98783	Needle OD 4 mm × 180 mm	50 pcs.
TA9A220	Needle OD 4 mm × 300 mm	50 pcs.
TA9A221	Needle OD 4 mm × 500 mm	50 pcs.

1	PN	Description	Qty	Model
1	TP00338	Needle Supporter OD 2 mm	1 pc.	JT-20,
l	TP00337	Needle Supporter OD 3 mm	1 pc.	JEX-20
1	TQ05210	Needle Supporter OD 2 mm	1 pc.	AJC-16
	TQ04554	Needle Supporter OD 3 mm	1 pc.	AJU-10
1	TP00290	Needle Supporter OD 2 mm	1 pc.	JC-16
1	TP02244	Needle Supporter OD 2 mm	1 pc.	JEX-24
	TP02245	Needle Supporter OD 3 mm	1 pc.	JEA-24
1	TP01499	Needle Supporter OD 2 mm	1 pc.	IEV 00
1	TP01461	Needle Supporter OD 3 mm	1 pc.	JEX-28, JEX-2800A
1	TP01462	Needle Supporter OD 4 mm	1 pc.	OLX ZOOOA
1	TP16475	Needle Supporter OD 2 mm	1 pc.	EJC-32A
•	TP16301	Needle Supporter OD 3 mm	1 pc.	EJU-32A

AUTO CHISEL

A special spool valve inside grip assures excellent durability







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 quality material and are subjected to high precision process.

Specifications

Model	A-300
Rated Air Pressure MPa {kgf/cm²}	0.6 {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 R 1/4 × NPT 1/4 : 1 pc.
Stalluaru Accessories	• Hose Nipple R 1/4 × 1/4 : 1 pc.

Optional Attachments

PN	Description	Qtv	PN	Description	Qty
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 38 mm Scraper	1 pc.
TP00577	No.1006 Rubber Bushing Remover	1 pc.	TP00590	No.1019 60 mm Scraper	1 pc.
TP00578	No.1007 Spot Weld Booster	1 pc.	TP00591	No.1020 60 mm Concave Scraper	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 Rivet Caulking Chisel	1 pc.
TP00583	No.1012 20 mm Bending Chisel	1 pc.	-	_	-

Applications and wide variety of optional attachments



SUPER KELEN

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.

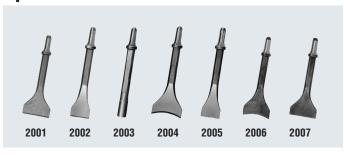


Specifications

opcomoations			
Model	S-250	S-500	S-1000
Rated Air Pressure MPa {kgf/cm²}	0.6 {6}	0.6 {6}	0.6 {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 Shank mm	12.7	12.7	12.7
Hose Size inch	3/8	3/8	3/8
Dimension mm	630 × 49	890 × 49	1,470 × 49
Mass (Weight) kg	4.1	4.7	6.1

	• 38 mm Bend Scraper (No.2005) : 1 pc. on the body	• 38 mm Bend Scraper (No.2005) : 1 pc. on the body	• 38 mm Bend Scraper (No.2005) : 1 pc. on the body
Otaliaala 71000001100	Hose Lock Nut M16 : 1 pc.	Hose Lock Nut M16 : 1 pc.	Hose Lock Nut M16 : 1 pc.
	Hose Nipple 3/8 : 1 pc.	Hose Nipple 3/8 : 1 pc.	Hose Nipple 3/8 : 1 pc.

Optional Chisels



PN	Description	Qty
TP03645	No.2001 60 mm Scraper	1 pc.
TP03646	No.2002 38 mm Scraper	1 pc.
TP03647	No.2003 Blank Chisel	1 pc.
TP04010	No.2004 60 mm Concave Scraper	1 pc.
TP04552	No.2005 38 mm Bend Scraper	1 pc.
TP04553	No.2006 60 mm Concave Bend Scraper	1 pc.
TP04554	No.2007 60 mm Bend Scraper	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 features 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 **CH-24 C€**



Specifications

- promissions		
Model	ACH-16	CH-24
Rated Air Pressure MPa {kgf/cm²}	0.6 {6}	0.6 {6}
Air Consumption (No load) m³/min	0.15	0.2
Stroke Speed min ⁻¹	6,000	4,000
Size of Chisel Shank mm	OD 10.5	12.7 sq.
Hose Size inch	3/8	3/8
Mass (Weight) kg	0.9	1.7

Standard Accessories • Bushing R 3/8 × NPT 3/8 : 1 pc.	Curved Flat Chisel 25 × 155 : 1 pc. on the body Bushing R 3/8 × NPT 3/8 : 1 pc. Hose Nipple R 3/8 × 3/8 : 1 pc.
--------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------



Chisel for Air Chipper ACH-16

PN	Description	Qty
TQ03431	Flat Chisel 20 × 120	1 pc.
TQ03453	Curved Flat Chisel 20 × 120	1 pc.
TQ03549	Flat Chisel 11 × 120	1 pc.
TQ03452	Flat Chisel 20 × 180	1 pc.

Chisel for Air Chipper CH-24

PN	Description	Qty
TP15234	Straight Flat Chisel 12.7 x 165	1 pc.
TP15233	Flat Chisel 25 × 155	1 pc.
TP15166	Curved Flat Chisel 25 × 155	1 pc.

MYTON

133 mm

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

MLG-25

Depressed center wheel 58 mm



MLG-40

Depressed center wheel 100 mm



MAGW-4 **Depressed center** wheel 100 mm



Specifications

66.5 mm

оросиновно				
Model		MLG-25	MLG-40	MAGW-40
Rated Air Pressure MPa {kgf/cm²}		0.6 {6}	0.6 {6}	0.6 {6}
Air Consumption m ³	/min	0.42	0.45 (No Load) 0.91 (Load)	0.68 (No load) 0.82 (Load)
Free Speed min ⁻¹ (rpm)		19,000	13,000	13,000
Depressed Center Grinding Wheel mm		58	100	100
Hose Size inch		1/4	3/8	3/8
Mass (Weight) kg		0.6	1.5	1.55

Standard Accessories

- Green Disc GS #80 : 1 pc.
- 5 mm Hex. Socket Screw Key: 1 pc.
- 19 mm Single Ended Spanner : 1 pc.
- Bushing R 1/4 × NPT 1/4 : 1 pc.
- 6 mm Hex. Socket Screw Key: 1 pc.
- Bushing R 3/8 × NPT 3/8 : 1 pc.
- 6 mm Hex. Socket Screw Key: 1 pc.
- 17 mm Single Ended Spanner: 1 pc.
- Bushing R 3/8 × NPT 3/8 : 1 pc.

MAG-50 **Depressed center** wheel 125 mm







MLG-70 Depressed center wheel 180 mm



Specifications

Model	MAG-50	MLG-70 Lever Type	MLG-70 Ring Type
Rated Air Pressure MPa {kgf/cm²}	0.6 {6}	0.6 {6}	
Air Consumption (No load) m ⁹ /min 0.87 0.75 (No load) 1.1 (Load)) 1.1 (Load)	
Free Speed min ⁻¹ (rpm)	12,000	7,600	
Depressed Center Grinding Wheel mm	125	180	
Hose Size inch	3/8	3/8	
Mass (Weight) kg	2.2	2.45	2.25

Standard Accessories

- Air Hose Sub Ass'y: 1 set
 Exhaust Hose Ass'y: 1 set
 Side Handle Ass'y: 1 set
 4 mm Hex. Socket Screw Key: 1 pc.
 Pin Face Wrench: 1 pc.
 Bushing R 3/8 × NPT 3/8: 1 pc.
- 6 mm Hex. Socket Screw Key: 1 pc.
- 10 mm Hex. Socket Screw Key: 1 pc.
- Bushing R 3/8 × NPT 3/8: 1 pc.
- Handle Ass'y: 1 set.
- · Wheel Guard Ass'y: 1 set

PNEUMATIC SANDER MYTON

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



MAS-40 Abrasive disc



Model MAS-70 Abrasive disc 180 mm



Specifications

Model	MAS-20B	MAS-40	MAS-70
Rated Air Pressure MPa {kgf/cm²}	0.6 {6}	0.6 {6}	0.6 {6}
Air Consumption (No load) m³/min	0.4	0.45	0.98
Free Speed min ⁻¹ (rpm)	22,000	13,700	7,500
Abrasive Disc	1" , 1 - 1/2" and 2"	100 mm	180 mm
Hose Size inch	1/4	3/8	3/8
Mass (Weight) kg	0.5	0.9	1.9

Standard Accessories

- 14 mm Single Ended Spanner : 1 pc. Cupla 20SH : 1 pc. Bushing R 1/4 × NPT 1/4 : 1 pc. Back-up Pad 1" : 1 pc. Back-up Pad 1 1/2" : 1 pc. Back-up Pad 2" : 1 pc. Back-up Pad 2" : 1 pc. Abrasive Paper 1" × #60, #80, #100, #120 : 2 pcs. each Abrasive Paper 2" × #60, #80, #100, #120 : 2 pcs. each
- 6 mm Hex. Socket Screw Key : 1 pc. • 17 mm Single Ended Spanner : 1 pc.
- Bushing R 1/4 × NPT 1/4 : 1 pc.
- Hose Nipple NPT 1/4 × 3/8 : 1 pc.
- 10 mm Hex. Socket Screw Key : 1 pc.
- 41 mm Single Ended Spanner : 1 pc.
- Hose Nipple NPT 3/8 × 3/8 : 1 pc.
- Bushing M16 × NPT 3/8 : 1 pc.

Optional Parts

Green Discs for MYTON MLG-25



PN	Description	Qty
TB08872	GS#46 × 58 mm	5 pcs.
TB08873	GS#60 × 58 mm	5 pcs.
TB08874	GS#80 × 58 mm	10 pcs.
TB08875	GS#100 × 58 mm	5 pcs.
TB08876	GS#120 × 58 mm	5 pcs.

^{*} Green Discs cannot be used on MAG-25.

Disc Pad for MYTON MAS-20B



PN	Description	Qty
TP18576	PAD (1") No.1	1 pc.
TP18575	PAD (1 - 1/2") No.2	1 pc.
TP18574	PAD (2") No.3	1 pc.

1" Paper for MYTON MAS-20B



- LAND	PN	Description	Qty
W MAYA THINKS	TA9B101	Paper 1" × #40	25 pcs.
マーンコンヨー20・・	TA9B102	Paper 1" × #60	25 pcs.
QUENTE	TA9B103	Paper 1" × #80	25 pcs.
	TA9B104	Paper 1" × #100	25 pcs.

PN	Description	Qty
TA9B105	Paper 1" × #120	25 pcs.
TA9B106	Paper 1" × #180	25 pcs.
TA9B107	Paper 1" × #240	25 pcs.
TA9B108	Paper 1" × #320	25 pcs.

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



PN	Description	Qty
TA9B109	Paper 1 - 1/2" × #40	25 pcs.
TA9B110	Paper 1 - 1/2" × #60	25 pcs.
TA9B111	Paper 1 - 1/2" × #80	25 pcs.
TA9B112	Paper 1 - 1/2" × #100	25 pcs.

PN	Description	Qty
TA9B113	Paper 1 - 1/2" × #120	25 pcs.
TA9B114	Paper 1 - 1/2" × #180	25 pcs.
TA9B115	Paper 1 - 1/2" × #240	25 pcs.
TA9B116	Paper 1 - 1/2" × #320	25 pcs.

2" Paper for MYTON MAS-20B



PN	Description	Qty
TA9B117	Paper 2" × #40	25 pcs.
TA9B118	Paper 2" × #60	25 pcs.
TA9B119	Paper 2" × #80	25 pcs.
TA9B120	Paper 2" × #100	25 pcs.

PN	Description	Qty
TA9B121	Paper 2" × #120	25 pcs.
TA9B122	Paper 2" × #180	25 pcs.
TA9B123	Paper 2" × #240	25 pcs.
TA9B124	Paper 2" × #320	25 pcs.

AIR SONIC



The perfect tool for all tasks!

The high-speed mighty mite with super-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

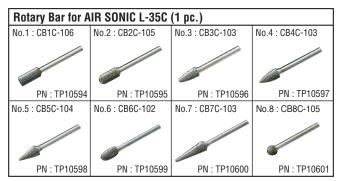
Model	L-25B	L-35C
Rated Air Pressure MPa {kgf/cm²}	0.6	{6}
Air Consumption (No load) m³/min	0.4	0.35
Free Speed min ⁻¹ (rpm)	27,000	37,500
Size of Collet Chuck mm	6	6
Hose Size inch	1,	/4
Mass (Weight) kg	0.6 (without hose)	0.45 (without hose)

Standard Accessories

• 14 mm Single Ended Spanner : 1 pc.
• Mounted Wheel No.2 : 1 pc. • Chuck Pin : 1 pc.
• Mounted Wheel No.3 : 1 pc.
• Bushing R 1/4 × NPT 1/4 : 1 pc.
• Bushing R 1/4 × NPT 1/4 : 1 pc.

Optional Accessories





AL-55 High Speed Rotation 56,500 rpm CE



- · 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}	0.6 {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

• Mounted Wheel $5 \times 13 \times 3 : 1$ pc. • Spanner $7 \times 9 : 1$ pc. **Standard Accessories** • Bushing R 1/4 × NPT 1/4: 1 pc.

AIR DRIL

The power and performance you need to drill deeper and faster





ADR-100 CE



Specifications

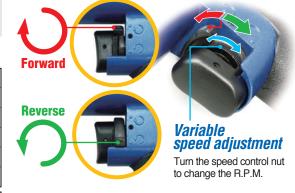
Model	ADR-65	ADR-100
Rated Air Pressure MPa {kgf/cm²}	0.6 {6}	0.6 {6}
Air Consumption (No load) m³/min	0.55	0.67
Free Speed min ⁻¹ (rpm)	2,900	2,000
Max. Drilling Capacity mm	6.5	10.0
Mass (Weight) kg	0.8	1.1

Standard Accessories	Drill Chuck: 1 pc. on the body Chuck Handle: 1 pc. Bushing R 1/4 × NPT 1/4: 1 pc. 30SH: 1 pc.
Optional Accessory	*Hanger : 1 pc. *A hanger to be mounted on the bottom of the grip is available as option.

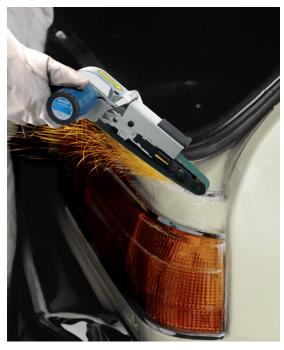
- · Built-in silencer
- Reversible
- · Variable speed adjustment
- · Rubber grip reduces chilled hand

Reversible

Change rotation direction by turning the valve as indicated.



BELTON Rear exhaust system

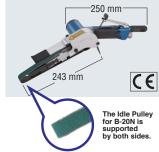


Suitable for sanding jobs in narrow spaces, recessed corners or on curved surfaces





Model B-20N Belt Size 20 mm (W)





Specifications

opecinications				
Model	B-10N	B-20N	B-20NB	B-30N
Rated Air Pressure MPa {kgf/cm²}	0.6 {6}	0.6 {6}	0.6 {6}	0.6 {6}
Air Consumption (No load) m ³ /min	0.4	0.52	0.52	0.68
Motor Free Speed min ⁻¹ (rpm)	17,000	17,000	17,000	14,000
Belt Speed m/min	1,120	2,620	2,620	2,160
Belt Size mm	10 × 330	20 × 520	20 × 520	30 × 540
Hose Size inch	1/4	1/4	1/4	1/4
Mass (Weight) kg	0.7	1.2	1.2	2.4

Standard Accessories

- Abrasive Belt Z#60 × 10 mm :2 pcs (1 pc. on the body)
- Abrasive Belt Z#80 × 10 mm :1 pc. Abrasive Belt Z#100 × 10 mm :1 pc.
- Abrasive Belt Z#120 × 10 mm :1 pc.
- •2 mm Hex. Wrench Key :1 pc. •4 mm Hex. Wrench Key :1 pc.
- •Bushing R 1/4 × NPT 1/4 :1 pc.
- Abrasive Belt Z#80 x 20 mm : 2 pcs. (1 pc. on the body)
 Abrasive Belt Z#80 x 20 mm : 1 pc. Abrasive Belt Z#100 x 20 mm : 1 pc. Abrasive Belt Z#100 x 20 mm : 1 pc. 2.5 mm Hex. Wrench Key : 1 pc. 4 mm Hex. Wrench Key : 1 pc. Bushing R 1/4 x NPT 1/4 : 1 pc. Convex Shoe : 1 pc. Finger Pad As's y : 1 pc. Pan Head Screw 5 x 10 : 1 pc. Pan Head Screw 6 x 10 : 1 pc. Pan Head Screw 6 x 10 : 1 pc.

•Abrasive Belt Z#60 × 20 mm :2 pcs

- *Abrasive Belt Z#60 × 20 mm :2 pcs. (1 pc. on the body)
 *Abrasive Belt Z#80 × 20 mm :1 pc.
 *Abrasive Belt Z#100 × 20 mm :1 pc.
 *Abrasive Belt Z#100 × 20 mm :1 pc.
 *2.5 mm Hex. Wrench Key:1 pc.
 *4 mm Hex. Wrench Key:1 pc.
 *Bushing R 1/4 × NPT 1/4:1 pc.
 *Convex Shoe:1 pc.
 *Finger Pad Ass'y:1 pc.
 *Pan Head Screw 5 × 10:1 pc.
 *Pan Head Screw 6 × 10:1 pc.

- Abrasive Belt Z#60 × 30 mm :2 pcs. (1 pc. on the body)
- Abrasive Belt Z#80 × 30 mm :1 pc. Abrasive Belt Z#100 × 30 mm :1 pc.
- 4 mm Hex. Wrench Key :1 pc.
 5 mm Hex. Wrench Key :1 pc.
 Bushing R 1/4 × NPT 1/4 :1 pc.
- . Sub Handle Ass'y:1 set
- •Grip Guard :1 pc. •Silencer :1 pc.

Optional Parts

Optional Parts for B-10N

PN	Description	Qty
TQ10942	Shoe 6 (for 6 mm belt)	1 pc.
TB07283	Bracket 6 Ass'y (for 6 mm belt)	1 set
TB05539	Offset Bracket 10 Ass'y	1 set

Ontional Parts for B-20N/B-20NB

PN	Description	Qty
TB07109	Offset Bracket 20 Ass'y	1 set

Optional Parts for B-30N

PN	Description	Qty
TB08150	Offset Bracket 30 Ass'y	1 set

Ahrasive Relt for R-10N

ADIOSIVE DEIL IOI D- IOIN			
PN	Description	Qty	
TB00241	Abrasive Belt Z#60 × 6 mm	50 pcs.	
TB00242	Abrasive Belt Z#80 × 6 mm	50 pcs.	
TB00243	Abrasive Belt Z#100 × 6 mm	50 pcs.	
TB00244	Abrasive Belt Z#120 × 6 mm	50 pcs.	
TB00245	Abrasive Belt Z#180 × 6 mm	50 pcs.	
TB00246	Abrasive Belt Z#240 × 6 mm	50 pcs.	
TA9A237	Abrasive Belt AA#400 × 6 mm	50 pcs.	
TA9A064	Abrasive Belt Z#60 × 10 mm	50 pcs.	
TB00076	Abrasive Belt Z#80 × 10 mm	50 pcs.	
TB00077	Abrasive Belt Z#100 × 10 mm	50 pcs.	
TB00247	Abrasive Belt Z#120 × 10 mm	50 pcs.	
TB00248	Abrasive Belt Z#180 × 10 mm	50 pcs.	
TB00249	Abrasive Belt Z#240 × 10 mm	50 pcs.	
TA9A244	Abrasive Belt AA#400 × 10 mm	50 pcs.	

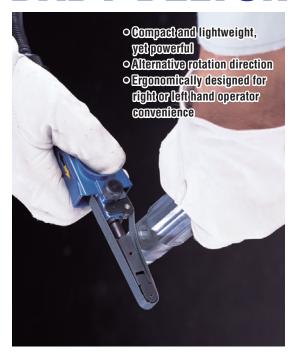
Abrasive Belt for B-20N/B-20NB

PN	Description	Qty
TA99605	Abrasive Belt Z#40 × 20 mm	20 pcs.
TA99606	Abrasive Belt Z#60 × 20 mm	20 pcs.
TA99607	Abrasive Belt Z#80 × 20 mm	20 pcs.
TA99608	Abrasive Belt Z#100 × 20 mm	20 pcs.
TA99609	Abrasive Belt Z#120 × 20 mm	20 pcs.
TB00250	Abrasive Belt Z#180 × 20 mm	20 pcs.
TB00251	Abrasive Belt Z#240 × 20 mm	20 pcs.
TA9A252	Abrasive Belt AA#280 × 20 mm	20 pcs.
TA9A253	Abrasive Belt AA#320 × 20 mm	20 pcs.
TA9A254	Abrasive Belt AA#400 × 20 mm	20 pcs.

Abrasive Belt for B-30N

PN	Description	Qty
TB00252	Abrasive Belt Z#40 × 30 mm	20 pcs.
TB00253	Abrasive Belt Z#60 × 30 mm	20 pcs.
TB00254	Abrasive Belt Z#80 × 30 mm	20 pcs.
TB00255	Abrasive Belt Z#100 × 30 mm	20 pcs.
TB00256	Abrasive Belt Z#120 × 30 mm	20 pcs.
TB00257	Abrasive Belt Z#180 × 30 mm	20 pcs.
TB00258	Abrasive Belt Z#240 × 30 mm	20 pcs.
TA9A262	Abrasive Belt AA#280 × 30 mm	20 pcs.
TA9A263	Abrasive Belt AA#320 × 30 mm	20 pcs.
TA9A264	Abrasive Belt AA#400 × 30 mm	20 pcs.

BABY BELTON



Model BB-10A Belt Size 10 mm (W)



Model **BB-20** Belt Size 20 mm (W)



Specifications

Model	BB-10A	BB-20
Rated Air Pressure MPa (kgf/cm²)	0.6 {6}	0.6 {6}
Air Consumption (No load) m ³ /min	0.25	0.43
Motor Free Speed min ⁻¹ (rpm)	16,000	16,000
Belt Speed m/min	1,000	1,100
Belt Size mm	10 × 330	20 × 330
Hose Size inch	1/4	1/4
Mass (Weight) kg	0.6	0.8

Standard Accessories	Abrasive Belt Z#100 × 10 mm:1 pc. (on the body) Abrasive Belt Z#120 × 10 mm:1 pc. Abrasive Belt Z#180 × 10 mm:1 pc. Abrasive Belt Z#240 × 10 mm:1 pc1.5 mm Hex. Wrench Key:1 pcCupla HA-65SN:1 pc.	Abrasive Belt Z#60 × 20 mm:1 pc. (on the body) Abrasive Belt Z#120 × 20 mm:1 pc. Abrasive Belt Z#240 × 20 mm:1 pc. 4.5 mm Hex. Wrench Key:1 pc. 3 mm Hex. Wrench Key:1 pc. Cupla HA-65SN:1 pc. Shoe:1 pc. • Dust Cover:1 pc.
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Belt rotation direction can be changed.





Roverce

Lever position can be changed for right or left hand operator convenience.



Ideal for deburring, chamfering, bead grinding, and polishing applications









Optional Parts For BABY BELTON

Abrasive Belt for BB-10A

ADIASIVE DEIL IOI DD-TOA		
PN	Description	Qty
TA9A064	Abrasive Belt Z#60 × 10 mm	50 pcs.
TB00076	Abrasive Belt Z#80 × 10 mm	50 pcs.
TB00077	Abrasive Belt Z#100 × 10 mm	50 pcs.
TB00247	Abrasive Belt Z#120 × 10 mm	50 pcs.
TB00248	Abrasive Belt Z#180 × 10 mm	50 pcs.
TB00249	Abrasive Belt Z#240 × 10 mm	50 pcs.
TA9A244	Abrasive Belt AA#400 × 10 mm	50 pcs.

Abrasive Belt for BB-20

PN	Description	Qty
TB07114	Abrasive Belt Z#60	20 pcs.
TB07115	Abrasive Belt Z#80	20 pcs.
TB07116	Abrasive Belt Z#100	20 pcs.
TB07117	Abrasive Belt Z#120	20 pcs.
TB07118	Abrasive Belt Z#180	20 pcs.
TB07119	Abrasive Belt Z#240	20 pcs.
TB07120	Abrasive Belt Z#400*1	20 pcs.
TB07125	Abrasive Belt CE#60	20 pcs.
TB07126	Abrasive Belt CE#80	20 pcs.
TB07127	Abrasive Belt CE#100	20 pcs.
TB07128	Abrasive Belt CE#120	20 pcs.
TB07121	Finish Belt A-VF (Equivalent to #180)	5 pcs.
TB07122	Finish Belt A-M (Equivalent to #320)	5 pcs.
TB07123	Finish Belt S-SF (Equivalent to #400)	5 pcs.

^{*1: #400} is Aluminium Belt

PNEUMATIC COMPACT SANDER PALM ORBITAL SANDER SANDING

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



OSV-60A CE



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 fatique.

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.



Specifications

OSV-60A
0.6 {6}
0.68
8,500
10
150
2.0
for self stick papers

Standard Accessories

- Bushing R 1/4 × NPT 1/4 : 1 pc. Spanner 17 : 1 pc. Brush : 1 pc. Dust Bag : 1 pc.

- Hose: 1 pc.Hose Band: 1 pc.

PALM ORBITAL SANDER

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



APS-125/150 CE



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

Self Vacuum



Central Vacuum



1 pc. /4 × NPT 1/4 : 1 pc

Random orbital action produces a high-quality swirl-free finish

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

Applications

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

Specifications

Model	APS-125	APS-150
Rated Air Pressure MPa {kgf/cm²}	0.6 {6}	0.6 {6}
Air Consumption (No load) m³/min	0.45	0.45
Motor Free Speed min ⁻¹ (rpm)	10,000	10,000
Orbit Diameter mm	5	5
Paper Size mm	125	150
Mass (Weight) kg	0.69	0.72
Pad Mass (Weight) kg	0.10	0.12

Standard Accessories	Spanner 17 :Bushing R 1.
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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.





FS-50A C€





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.

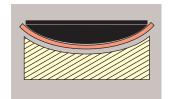
Specifications

Model	FS-100C	FS-50A
Rated Air Pressure MPa {kgf/cm²}	0.6 {6}	0.6 {6}
Air Consumption (No load) m³/min	0.2	0.14
Motor Free Speed min ⁻¹	20,000	15,000
Orbit Diameter mm	1.5	1.2
Pad Size mm	100 × 110	75 × 82
Paper Size mm	114 × 140	70 × 114
Mass (Weight) kg	0.5	0.5

Standard Accessories

- Air Hose H Ass'y: 1 set
- Bushing R 1/4 × NPT 1/4: 1 pc.
- Abrasive paper #180 : 5 pcs.
- Abrasive paper #240 : 5 pcs.
- · Air Hose H Ass'y: 1 set
- Bushing R 1/4 × NPT 1/4: 1 pc.
- · Abrasive paper #180 : 5 pcs.
- Abrasive paper #240 : 5 pcs.

Optional Accessories For Free Sander FS-100C



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.

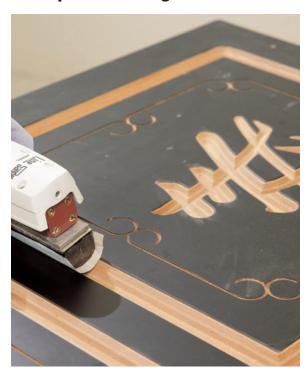
I UI I I CC Gallaci I G 1000		
PN	Description	Qty
TA9A367	Rubber Pad Ass'y	1 pc.
TA91474	Round Pad Ass'y	1 pc.
TA9A265	Abrasive paper #100	200 pcs.
TA9A266	Abrasive paper #120	200 pcs.
TA9A267	Abrasive paper #150	200 pcs.
TA9A268	Abrasive paper #180	200 pcs.
TA9A269	Abrasive paper #240	200 pcs.
TA9A270	Abrasive paper #280	200 pcs.
TA9A271	Abrasive paper #320	200 pcs.
TB02235	Dust Collector Ass'y	1 pc.

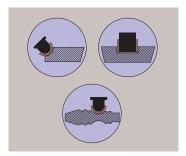
For Free Sander FS-50A

PN	Description	Qty
TA99828	Rubber Pad Ass'y	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 R 1/4 × NPT 1/4: 1 pc. Block Rubber Pad Ass'y: 1 set Abrasive Paper #240: 5 pcs. Abrasive Paper #320: 5 pcs. Base Plate A Ass'y: 1 set
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LS-10 C€



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}	0.6 {6}
Air Consumption (No load) m³/min	0.11
Free Speed min ⁻¹	4,000
Stroke mm	4
Pad Size mm	55 × 103
Abrasive Paper Size mm	57 × 140
Mass (Weight) kg	0.75

Optional Accessories

PN	Description	Qty
TB02244	Dust Collector Ass'y	1 pc.

SUPER HAND



Super efficient way of easy filing, polishing and finishing

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.





Weight reduced by half for comfortable operation over long period of time

Rat Tail File SF-10



Specifications

The second secon		
Model	SH-100A	ASH-900
Rated Air Pressure MPa {kgf/cm²}	0.6 {6}	0.6 {6}
Air Consumption (No load) m³/min	0.24	0.2
Stroke Speed min ⁻¹	3,700	6,300
Stroke mm	9	9
Max. Shank dia. of Points mm	6.3	5.0
Mass (Weight) kg	1.1	0.5

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.
- 3 mm Hex. Socket Screw Key: 1 pc.
- Bushing R 1/4 × NPT 1/4: 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.
- 2.5 mm Hex. Socket Screw Key: 1 pc.
- Bushing R 1/4 × NPT 1/4: 1 pc.

Optional Accessories

Rubber Pad Ass'y for SH-100A



Supporter Ass'y for SH-100A



Sanding Pad Ass'y for ASH-900

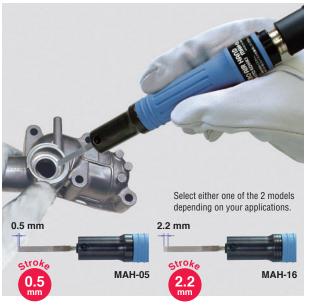


For Super Hand SH-100A & ASH-900

PN	Description	Qty
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
TA94625	Supporter Ass'y for SH-100A	1 set
TB04319	Sanding Pad Ass'y for ASH-900	1 set

MICRO AIR HAND

Fine reciprocating motion best for precision parts filing



MAH-05/MAH-16 CE



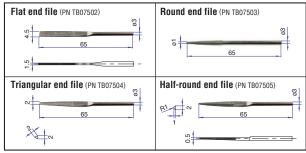
Specifications

Model	MAH-05	MAH-16
Rated Air Pressure MPa {kgf/cm²}	0.6 {6}	
Air Consumption (No load) m³/min	0.07	
Stroke Speed min ⁻¹	22,000	11,000
Stroke mm	0.5	2.2
Shank diameter of file mm		3
Mass (Weight) kg	0	.4

Ę	Standard Accessories	Flat end file : 1 pc.	• Bushing R1/4 × NPT 1/4 : 1 pc.
١٩	otaliualu Accessories	Round end file : 1 pc.	 Hex. Wrench key 2: 1 pc.



Diamond files (5 pcs/set)



SUPER SAW

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

SSW-110 CE



SSW-110 has many features on the followings..... • Low vibration is achieved by the special design of or

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

Optional Accessories



PN	Description	Qty
TA9A005	32 mm Saw Blade	10 pcs.
TA9A011	24 mm Saw Blade	10 pcs.
TB00193	18 mm Saw Blade	10 pcs.
TB00192	14 mm Saw Blade	10 pcs.

Specifications

Model	SSW-110
Rated Air Pressure MPa {kgf/cm²}	0.6 {6}
Air Consumption (No load) m³/min	0.29
Stroke Speed min ⁻¹	7,000
Stroke mm	11
Mass (Weight) kg	0.62

Standard Accessories	• 32 mm Saw Blade : 2 pcs. • 3 mm Hex. Socket Screw Key : 1 pc. • Bushing R 1/4 × NPT 1/4 : 1 pc.
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PORTABLE CHAMFERING TOOLS HAND BEVELER

HAND BEVELER HB-15B Chamfering up to 15C









- · Ideal for chamfering before welding
- · Uses easy-to-replace indexable inserts
- · Indexable inserts have four working edges for good economy
- · Finishes 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)	115 V AC, 50/60 Hz	230 V AC, 50/60 Hz		
Rated Power Consumption W	910	910		
Rated Current A	10.5	4		
No-load Speed min ⁻¹ (rpm)	3,340	2,750		
Chamfering Capacity	0C - 15C			
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.
- 3 mm T Wrench Key : 1 pc.
- TA9A093 Indexable Insert 12.7 sq. 1 set(12 pcs./ set)

Optional accessories

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

Chamfer angle and width

01	HB-	15B			
Chamfer Angle α	Mild Steel(mm)		Chamfer	Х	
Allyle a	Χ	Υ		α	
45°	15	15	'		Straight
30°	9	15.5			
15°	4	15.4			

Handy Electric Chamfering Tool MINI BEVELER MB-03A







Compact and light for speed chamfering

- 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

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

Standard accessories

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

Optional accessories

- TA9A386 Indexable Insert 9.525, 10 pcs./set
- . TA9A592 Indexable Insert 9.525 2R, 10 pcs./set TA9A638 Indexable Insert 9.525 3R, 10 pcs./set
- · TA9A594 Inner Head Ass'y

Chamfer andle width and radius

	Chamile	r ai	gre	, wiulli	anu rau	ius	
			MB-03A		Chamfer	X	+
,	Chamfer Angle α		ld Steel(mm)		Ţγ	α	
,	Ů)	(Υ	<u>†.</u>		Straight
	45°	3	}	3			
	Mode		N	IB-03A	Radi	115	
ı					Itaui	us	
	Materi	al	Mi	ld Steel			Round
	Radius(r	nm)		2, 3			

CHAMFERING TOOLS MINI BEVELER/CIRCUIT BEVELER CHAMFERING

Handy Electric Chamfering Tool

REVELER

CE Model **EMB-0307B**







Chamfer angle, width and radius

a	EMB-0307B Stainless Stank(mm) Mild Stank(mm) Chamfer						
Chamfer Angle α	Stainless S		Stainless Steel(mm)		Mild Steel(mm)		Х
Allyle a	Х		Υ	Χ	Υ	ltγ	α
45°	3		3	7	7	↓'	Straight
30°	2.2		3.8	3.8	6.6		
15°	1		3.8	1.5	5.6		
Mod	lel		EMB	-0307B		Radi	us
Mate	Stainless Mild Steel Mild Steel			Round			
Radius	(mm)	nm) 2, 3, 4 2, 3, 4					

- Applicable up to 3C stainless steel chamfering, and up to 7C mild steel chamfering
- · Indexable inserts have four working edges for good economy
- · Chamfering angle can be adjusted to any desired position at 15° - 45°
- · Pipe outer edge can be also chamfered with standard accessories that come with the tool
- · Dust box collects swarf and chips effectively

Specifications

Орсоннов			
Model		EMB-0307B	
Power Supp	oly	220 V - 240 V AC, 50/60 Hz	
Rated Powe	er Consumption W	1010	
Rated Current A		4.6	
Rated Duty		Continuous	
Chamfering	Mild Steel	0C - 7C, 2R, 3R, 4R	
Capacity	Stainless Steel	0C - 3C, 2R, 3R, 4R	
Chamfer An	gle	15° - 45°	
Power Cord	Length m	4.0	
Mass (Weig	jht) kg	3.9	

Standard accessories

- · Carbon Brush Ass'y: 1 set.
- Hex. Nut M8: 2 pcs.

- 4 mm Hex. Wrench Key: 1 pc.
 Indexable Insert with Hole 12.7: 1 pc.
 Indexable Insert Set Screw 4 x 7: 1 pc.
 Pan Head Screw 5 x 10: 3 pcs. • Dust Box Ass'y: 1 set

Electric Radial Chamfering Tool

Smoothly chamfering straight and curved edges



Chamfering straight edges



Chamfering curved edges

ECB-0203 Double insulation

- Applicable up to 3C (3R) mild steel chamfering, and up to 1.5C (2R) stainless steel chamfering
- Minimum chamfering plate thickness is 2 mm (Max.0.5C)
- · Indexable inserts have four working edges for good economy
- · An optional straight plate allows chamfering a straight edge shoulder

Specifications

Model		ECB-0203		
Power Supp	ly	220 V - 240 V AC, 50/60 Hz		
Rated Powe	r Consumption W	450		
Rated Duty	min	30		
Motor No-load Speed min ⁻¹ (rpm)		11,000		
Chamfering	Mild Steel	0C - 3C, 2R*1, 3R*1		
Capacity	Stainless Steel	0C - 1.5C, 2R*1		
Chamfer An	gle	45°		
Power Cord	Length m	2.5		
Mass (Weig	ht) kg	2.5		

*1: In case of chamfering 3R, an optional indexable insert for 3R is necessary, and chamfering 2R, an optional guide sleeve 24 mm dia, and indexable insert for 2R are necessary.

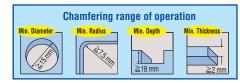
Standard accessories

- Indexable Insert with Hole 12.7 : 1 pc. Indexable Insert Set Screw : 1 pc.
- Sub Handle : 1 pc. Grip Guard : 1 pc. Ball Bearing 687zz : 1 pc. Gauge C3 : 1 pc.
- 5 mm Hex. Socket Screw Key : 1 pc. Spanner 8 × 10 : 1 pc. Spanner T-15D : 1 pc.

Chamfer angle, width and radius

1		_	3 - ,	_				
		ECB-0203			Chamfer	X		
	Chamfer Angle $lpha$		less eel	M Steel	ild (mm)	Y	α	04
		Χ	Υ	Х	Υ	<u> </u>	'	Straight
	45°	1.5	1.5	3	3			

Material Stainless Steel Mild Steel	Radi	ius —	
		_Round	
Radius(mm) 2 2, 3			



PORTABLE CHAMFERING TOOLS MINI BEVELER/CIRCUIT BEVELER

Pneumatic Chamfering Tool

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



Stainless Steel 3C

4R

Mild Steel

7C

4R

NOW A SMALL AIR BEVELER DOES THE BIG JOBS. TOO

Applicable to stainless steel and mild steel chamfering

AMBL-0307/AMB-0307

- Indexable inserts have four working edges for good economy
- Simple to adjust chamfering depth and replace Indexable Inserts
- Pipe outer edge can be also processed with standard accessories
- Chamfering angle can be adjusted to any desired position at 15° 45°

Chamfer angle, width and radius

01		AIVIBL-U3U	//AIVIB-030/		Ja	a · ·			
Chamfer Angle α	Stainle	ess Steel (mm)	Mild St	eel (mm)	Chamfer	Х			
Aligie &	Х	Y	Х	Υ] _Y	α			
45°	3	3	7	7] '		Straight		
30°	2.2	3.8	4	7					
15°	1	3.8	2.2	8					
Mode	el	AMBL-	0307/AMB-0)307	Radius				
Mater	ial	Stainless Steel	Mi	ld Steel] —		_Round		
Radius (mm)	2, 3, 4	2	2, 3, 4					

Specifications

Model		AMBL-0307, AMB-0307		
Air Pressure MPa {kgf/cm²}		0.6 {6}		
Air Consumption (I	No load) m³/min	0.9		
Free Speed min ⁻¹ (rpm)		14,000		
Chamfering	Mild Steel	0C - 7C or 2R, 3R, 4R		
Capacity	Stainless Steel	0C - 3C or 2R, 3R, 4R		
Chamfer Angle		15° - 45°		
Mass (Weight)	kg	2.9		

Standard accessories

- 3 & 4 mm Hex. Socket Screw key : 1 pc. each
- Spanner : 1 pc. Hex. nut M8 : 2 pcs
- Bushing R 3/8 × NPT 3/8
- 8 × 25 Hex. Socket Set Screw : 2 pcs.
- Indexable Insert Set Screw 4 x 7:1 pc.
- Indexable Insert: 1 pc.

Pneumatic Radial Chamfering Tool

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



Chamfer angle, width and radius

a	CB-02 Mild Steel (mm)		Chamfer	X	
Chamfer Angle α			T _v	α	
	Х	Υ	<u>†. </u>	'	Straight
45°	2	2			

Model	CB-02	Radi	118	
Material	Mild Steel	IIaui	us	Round
Radius (mm)	2			

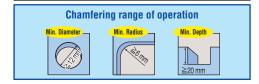
- Versatility chamfer either inner or outer edges
- · Precisely adjust chamfer dimensions with accessory gauge

Specifications

Model	CB-02
Air Pressure MPa {kgf/cm²}	0.6 {6}
Air Consumption (No load) m³/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

- Indexable Insert : 1 pc. Adjustment gauge : 1 pc. Spanner T-9F : 1 pc.
- Protective cap : 1 pc.Hook Spanner 58-62 : 1 pc.
- Bushing R 1/4 × NPT 1/4
- **Optional accessories**
- TA9A386 : Indexable Insert 9.525 sq. Ass'y (10 pcs.) TA9A592 : Indexable Insert 9.525 sq. R2 Ass'y (10 pcs.)



Optional Accessories for HAND BEVELER / MINI BEVELER / CIRCUIT BEVELER

	PN	Description	Sales Unit	Application model	Remarks
THE PERSON	TA9A093	Indexable Insert 12.7 Ass'y	12 pcs./set	HB-15B	
TO BE	TB01159	Indexable Insert 12.7 with hole Ass'y	10 pcs./set	EMB-0307B, AMB-0307, AMBL-0307, ECB-0203	
	TB01791	Indexable Insert 12.7 Ass'y R2	10 pcs./set	EMB-0307B, AMB-0307, AMBL-0307, ECB-0203	
30000	TB01651	Indexable Insert 12.7 Ass'y R3	10 pcs./set	EMB-0307B, AMB-0307, AMBL-0307, ECB-0203	
	TB01790	Indexable Insert 12.7 Ass'y R4	10 pcs./set	EMB-0307B, AMB-0307, AMBL-0307	
	TA9A386	Indexable Insert 9.525 with hole Ass'y	10 pcs./set	MB-03A, CB-02	
WH H H H	TA9A592	Indexable Insert 9.525 Ass'y R2	10 pcs./set	MB-03A, CB-02	
R R	TA9A638	Indexable Insert 9.525 Ass'y R3	10 pcs./set	MB-03A	
5-5	TA9A728	Plate Ass'y for pipe	1 set	HB-15B	For pipe 125 - 800 mm dia.
	TB02539	Attachment for small dia. pipe	1 set	EMB-0307B, AMB-0307, AMBL-0307	For pipe 80 - 200 mm dia.
	TA9A594	Inner head Ass'y	1 set	MB-03A	For min. 100 mm dia.
1	TB02857	Guide sleeve 24 mm dia. Ass'y	1 set	ECB-0203	For chamfering R2
	TB03097	Plate Ass'y for straight line use	1 set	ECB-0203	
	TB02862	Dust Box Ass'y	1 set	ECB-0203	Used with Plate Ass'y for straight line use
	TB03424	Spanner T-9D	1 pc.	MB-03A, CB-02	
	TQ01683	Spanner T-15D	1 pc.	EMB-0307B, AMB-0307, AMBL-0307, ECB-0203	

QUICK CONNECTIVE COUPLINGS FOR PNEUMATIC TOOLS HI CUPLA series

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

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

- Plug For hose connection 40PH For 1/2" hose For 1/2" hose For 1/4" hose 400PH 17PH 20PH For 1/4" hose 600PH For 3/4" hose For 3/8" hose 800PH For 1" hose For fema hread connection 40PM For Rc 1/2
- For Rc 1/8' For Rc 1/2 20PM For Rc 1/4" For Rc 3/8" 600PM For Rc 3/4" 800PM For Rc 1' 30PM thread connect For mal 400PF For R 1/4" For R 1/2 30PF For R 3/8 600PF For R 3/4"
- For male thread connection (parallel thread)
 20PFF For G 1/4"

Specifications					
Туре	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	1.5 MPa	1.0 MPa			
Pressure resistance	2.0 MPa	1.5 MPa			
Packing material	NBR	NBR			
Working temp.range	-20°C - 80°C	-5°C - 60°C			

Socket For hose connection 40SH For 1/2" hose For 1/2" hose 400SH For 1/4" hose 20SH For 1/4" hose 600SH For 3/4" hose For 3/8" hose 800SH For 1" hose thread connection 40SM For fem For Rc 1/2' For Rc 1/2 10SM For Rc 1/8" 20SM For Rc 1/4" 600SM For Rc 3/4" 800SM For Rc 1' For ma 400SF For R 1/4" For R 1/2" 600SF For R 3/4" 30SF For R 3/8' For R 1/2 800SF For R 1"

	For hose c	onnection			
- ENURS IN	200-17SH	For 1/4" hose	200-40SH	For 1/2" hose	
A STATE OF THE PARTY OF THE PAR	200-20SH	For 1/4" hose			
	200-30SH	For 3/8" hose			
	For female	thread connecti	tion		
-	200-20SM	For Rc 1/4"			
5	200-30SM	For Rc 3/8"			
	200-40SM	For Rc 1/2"			
	For male t	hread connection	n		
-	200-20SF	For R 1/4"			
S TO S TO S	200-30SF	For R 3/8"			
	200-40SE	For R 1/2"			

HI CUPLA ACE



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

- Plastic Cuplas with a bult-in locking mechanism
- Pressure ratings comparable to steel Cuplas

	are raunge compar	abio to otoor oupla
	Plastic Plu	g P
For hose con	nection (PH)	
20PH-PLA	For 1/4" hose	
30PH-PLA	For 3/8" hose	
For female ti	read 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 5 ID × 8 OD hose	
65PNG-PLA	For 6.5 ID × 10 OD hose	
85PNG-PLA	For 8.5 ID × 12.5 OD hose	
For male thre	ead connection (PF)	_
20PFF-PLA	For G 1/4"	and the same of th

S Hi Cı	ıpla Ace	Socket	
A	For hose connection (SH)		
3	HA-20SH	For 1/4" hose	
	HA-30SH	For 3/8" hose	
	For female th	read connection (SM)	
	HA-20SM	For Rc 1/4"	
	HA-30SM	For Rc 3/8"	
_	For urethane hos	se with spring nut connection (SNG)	
The second second			
The second contract of	HA-50SNG	For 5 ID × 8 OD hose	
	HA-50SNG HA-65SNG	For 5 ID × 8 OD hose For 6.5 ID × 10 OD hose	
	HA-65SNG HA-85SNG	For 6.5 ID × 10 OD hose	
	HA-65SNG HA-85SNG	For 6.5 ID × 10 OD hose For 8.5 ID × 12.5 OD hose	
	HA-65SNG HA-85SNG Hi Cupla Ace	For 6.5 ID × 10 OD hose For 8.5 ID × 12.5 OD hose T type (for 2 branches)	
	HA-65SNG HA-85SNG Hi Cupla Ace	For 6.5 ID × 10 OD hose For 8.5 ID × 12.5 OD hose T type (for 2 branches)	

MACHINE TOOLS

Electric & Hydarulic Machine Tools, Labor-saving plus improved work efficiency

A wide range of unique tools for boring and punching















"delvo" Electric Screwdrivers / Spring Balancer OTHER PRODUCT LINES Linear-motor-driven Free Piston System



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.



DLV7300 Series DLV7500/8500 Series DLV7000/8000 Series DLV7100/7200/8100/8200 Series DLV3100/3300 Series DLV5720/5720H/5740/5740H/5750 Series DLV5800 Series

DLV30SP/30HP-MKG (with built-in brushless motors)



Capacities ranging from 0.5 - 70 kg.

DLV30SP-MKG

Spring Balancer

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



Linear Motor Driven Free Piston System

MEDO pumps are unique products featuring a Linear-motor-driven Free Piston System. 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.



SAFETY GUIDE

Be sure to read and understand all safety precautions mentioned below and to follow the instructions given to operate each Nitto Kohki brand tool as stated in the operator's manual. Keep operators manual close by when operating machines or tools for reference of safe operation and precautions.

Safety Precautions

Failure to observe the following warnings may cause a potentially hazardous situation, which if not corrected could result in serious injury or death. To prevent the risk of fire, electric shock, and/or personal injury, proper safety guidelines should be followed at all times.

Warning for ALL Machines and Tools

- Always keep the work area free from clutter and potentially dangerous conditions such as hanging power cords, working debris, air hoses, and garbage to prevent accidents from occurring.
- Consider proper working environments for each tool carefully. Do not
 expose tools to extreme amounts of moisture or direct contact with water
 or rain. Keep area well lit at all times to prevent hidden dangers and never
 operate the equipment near flammable liquids or in gaseous or explosive
 atmospheres.
- Keep all tools and tool accessories away from children and all unauthorized personnel. Serious injury or possible death may result from machines being handled by children.
- Properly store machines and accessories while not in use. They should be kept in a dry, locked-up location out of reach of children or unauthorized personnel.
- Improper or negligent use of tools will cause increased maintenance costs, and the amount of time in which to complete the job. Always let the tool do the work at the rate of which it was designed. Best performance is always achieved by reading and understanding the proper operation of each machine or tool.
- Always wear safety glasses and protective hand and foot wear during or around operating tools. Wear a protective hair covering to contain long hair. Do not wear loose clothing and/or accessories as they may be caught in moving parts and inflict serious injury or possible death.
- Wear respiratory protection when working in an environment where dust particles are generated during operation.
- Do not over-reach or allow yourself to become unstable during tool operation and always maintain a correct posture.
- Use clamps or a vise to secure the work piece tightly and eliminate vibration. Never hold the work piece with your hands, keep both hands on the tool for increased productivity.
- Use the right tool or machine that can complete the job within its specifications. Do not attempt to adapt smaller machines or tools to complete a job designed for heavy-duty equipment. Do not use the tools for other than what they were designed for. There is a right tool for each job, be aware of tool limitations and never overload.
- Make sure to inspect all external screws, nuts, bolts and attached accessories
 are fastened tightly and secure prior to each use. All moving parts should be
 free from obstruction and allowed to operate smoothly. Any damaged or
 missing parts should be repaired or replaced by the sales agent or distributor
 from which the tool was originally purchased. Do not use machines or tools
 which cannot be activated or stopped with a power switch or lever.

Notice for Electric Tools

- The power source must be limited to the individual tools specifications as stated on the nameplate or instruction manual.
- Make sure that all machine and power tools are properly grounded at all times (excludes double-insulated tools). Always use a GFCI (Ground-Fault-Circuit-Interrupt) to protect the user and surrounding persons from electric shock.
- Be aware of low voltage situations. Improperly gauged extension cords or power cords used or shared with other electrical devices will cause all tools on the line to not run at optimal performance. This condition may result in damage to the machine and/or operator.

- Do not use any machine with a damaged, frayed, cut, or deteriorated power cords or air hoses. Always replace at the first sign of damage.
- Always remove all tools required to adjust, add, or remove parts from tools prior to use to prevent tool damage or user injury.
- Always avoid an unexpected start by having all power buttons or levers in the off position prior to attaching to a power or air supply. Never carry tools with your finger on the on/off switch or lever when the power or air supply is attached.
- Do not use the power or air supply lines to move, carry or support the tool during usage or transportation. Do not place the power or air line near a heat source, oil, water, or items with sharp edges.
- Never leave a machine or tool running unattended. Keep a firm grip on the
 designated areas of the machine or tool until it comes to a complete stop.
 Always turn the power switch or lever to the off position and disconnect
 from the power source when not in use.
- Do not disassemble or modify a tool to complete a job other than what it
 was designed for. This will void any warranty on the equipment and may
 cause serious personal injury or possible death.
- Maintenance is necessary for all machines and tools. Always maintain blades and cutters properly and replace when edges become damaged or are not sharp enough for safe operation. Follow the instruction manual for lubrication needs and adjustment points if applicable. Check the power and air supply lines periodically and change accordingly to safety regulations. If an extension line is adopted, always make sure that it meets or exceeds tool requirements for amperage or air supply before using and is rated for outdoor usage. Change supply lines whenever they are found to be defective or damaged. Keep the grip and handles dry and clean of grease or oil so that it will not disturb proper operation.
- Switch off and disconnect from power source before servicing equipment or changing accessories.
- Be alert and pay close attention to the work being performed at all times.
 Do not operate machines or tools when heavily fatigued. Users should be aware of all circumstances surrounding their application.
- Use only recommended parts and accessories as per individual machine or tool operator manuals. Use of improper accessories or attachments may result in serious injury or possible death.
- All repairs and services must be performed by authorized Nitto Kohki dealers or technicians.
- Do not deface or remove any label, warning indicator, or nameplate associated with each machine or tool.

Notice for Air Tools

• Air pressure at the inlet of the tool must not exceed 0.6 MPa (6 kgf/cm2).

Technologies that Respond to the Needs of the Times



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



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