NITTO KOHKI

T01en-f

Pneumatic, Electric & Hydraulic

Power Tools & Machine Tools

General Catalog

NITTO KOHKI'S Tools











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Green Procurement

Nitto Kohki has made every effort in developing "Environmental Improvement Plans" through the implementation of ISO14001, to execute environmentally conscious business activities on a company-wide basis. As a part of our ongoing commitment to the environment, we are also committed to reduce and/or eliminate restricted chemical substances from our products as designated by RoHS directives, laws and regulations concerning chemical substances.

Nitto Kohki's Official YouTube Global Channel

https://www.youtube.com/c/NittoKohkiGLOBAL

YouTube





High-End Features of ATRA ACE Drilling Machines
Enhance Your Productivity and Safety

Ref. No.	Features	QA-4000	QA-6500	WA-4000	WA-5500	WOJ-3200	AO-5575A	LO-3550	ARA-100A
1	Auto-feed	●	●	●	●	—	—	—	—
2	Slow Start Mechanism	●	●	●	●	—	—	—	●
3	Step Feed	●	●	—	—	—	—	—	—
4	Variable Automatic Feed	●	●	●	●	—	—	—	—
5	Load Sensor	●	●	●	●	—	—	—	—
6	Magnet Open-circuit Sensor	●	●	●	●	●	●	●	●
7	Fail-safe Restart	●	●	●	●	●	●	●	●
8	Built-in Motion Sensor	●	●	●	●	—	●	—	●
9	Overload Stop	●	●	●	●	●	●	●	●
10	Cycle Stop	●	●	●	●	—	—	—	—
11	Unique Battery Conservation	—	—	—	—	—	—	—	—
12	One-touch Cutter Replacement	●	●	●	●	●	●	●	●

1. Automatic Feed Control Function is activated by pushing the Rod Handles towards the body and manual feed is not required.
2. The feed in the first stage of cutting operation is automatically slow to ensure a smooth drilling.
3. When the cutter has become dull or it cuts through difficult materials, the load sensor will automatically activate the Step Feed Program to help penetrate material. When working on deep holes or large diameter holes, the Step Program will also help to reduce swarf build up around the cutter as the waste material will break off with each Step cycle.
4. The feed speed is continuously monitored and updated proportionally to the load on the cutter.
5. **QA-4000/QA-6500:** The sensing system responds to drilling forces on the cutter for the optimum cutting condition.

   WA-4000/WA-5500: The dual sensing system responds to both drilling and feeding forces on the cutter for the optimum cutting condition.
6. The drill will not start until the magnetic field is active.
7. The drill will not restart even if power is re-supplied after accidental shutdown. Drilling can only be continued after turning on the drill switch.
8. **QA-4000/QA-6500/WA-4000/WA-5500:** If any lateral movement or excess vibration is detected, both the drill and the feed motor stop.

   AO-5575A/ARA-100A: If any lateral movement or excess vibration is detected, the drill motor stops.
9. **QA-4000/QA-6500/WA-4000/WA-5500:** When an excessive load is applied to the cutter, both the drill and the feed motor will stop automatically.

   WOJ-3200/AO-5575A/LO-3550/ARA-100A: When an excessive load is applied to the cutter, the drill motor will stop automatically.
10. **QA-4000/QA-6500:** After the cut has finished, a detector responds to the reduction in load, the drill retracts quickly and then both the drill and feed motor automatically stop.

    WA-4000/WA-5500: After the cut has finished, a detector responds to the reduction in load and both the drill and the feed motor automatically stop.
11. While the drill motor is running, if no load is applied within 10 seconds, the drill will stop automatically to save the battery.
12. Replacement is quick and easy with our unique push fit self-centering cutter system.

    ARA-100A: Optional one-touch type Holder required.

Scan here to see comparison video.
ATRA ACE Auto vs Manual

YouTube

ATRA ACE Specifications



LO-3550



WA-4000



WA-5500



WOJ-3200

Specifications

Model			LO-3550	WA-4000	WA-5500			WOJ-3200	
Electric Drill	Power Source (Single Phase)		220 - 240 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz			110 - 120 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz
	Rated Power Consumption	W	800	1010	1040			950	
	Rated Current	A	3.3	4.3	4.3			8.6	4.3
	No-load Speed	min^{-1}(rpm)	950	740	520			870	
Magnet Power Consumption		W	35	40	70			38	30
Hole Capacity	Max. Hole Diameter	mm	35	40	50			32	
	Max. Plate Thickness	mm	50	50	75			50	
	One-touch Type JETBROACH	Hole Diameter mm	12 to 35	12 to 40	17.5 to 19	20 to 50	51 to 55	12 to 32	
		Plate Thickness mm	6 to 50	9 to 50*2	9 to 35*2	9 to 75*2	9 to 50*2	9 to 50	
	Side-lock Type JETBROACH	Hole Diameter mm	–	–	–			–	
		Plate Thickness mm	–	–	–			–	
	One-touch Type HI-BROACH	Hole Diameter mm	–	14 to 35	16 to 19	20 to 40	41 to 50	–	
		Plate Thickness mm	–	9 to 50*2	9 to 35*2	9 to 50*2	9 to 35*2	–	
	Twist Drill	Hole Diameter mm	–	–	–			Max. 13	
Max. Stroke		mm	80	84	107			130	
Magnet Holding Power		N(kgf)	5500 (561)	7056 (720)	9800 (1000)			9000 (918)	
Magnet Dimensions		mm	65 x 145	92 x 213	101 x 203			99 x 177	
Overall dimensions *1 (length) x (width) x (height)		mm	339 x 112 x 316	437 x 237 x 457	467 x 237 x 493			318 x 196 x 420	
Power Cord Length		m	3	3	3			3	
Mass (Weight)		kg	8.7	19	22			13	
Feeding Method			Manual	Automatic	Automatic			Manual	
Page			7	9	9			11	

*1: The height is the dimension from the surface of the workpiece to the highest part of the machine when the tip of the Pilot Pin is touching the workpiece with the cutter of the machine's maximum capacity attached.
*2: Be sure to use the Chip Breaker when drilling holes with a plate thickness of 35 mm or more.

ATRA ACE Specifications

Scan here to see comparison video.
ATRA ACE Auto vs Manual

YouTube



AO-5575A



QA-4000



QA-6500



ARA-100A

	AO-5575A	QA-4000	QA-6500	ARA-100A
	220 - 240 V AC, 50/60 Hz	110 - 120 V AC, 50/60 Hz / 220 - 240 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz
	950	680	1010	1800
	4.3	6.1 / 3.0	4.5	8.2
	520	750	400/750	110 to 210 /330 to 660
	50	50	75	80
	55	40	65	100
	75	35	50	75
	12 to 17 / 17.5 to 55	17.5 to 40	17.5 to 65	17.5 to 50
	9 to 50 / 9 to 75	9 to 35	9 to 50	13 to 75
	–	–	–	50 to 100
	–	–	–	13 to 75
	12 to 50	14 to 15 / 16 to 18	18 to 35	17.5 to 35
	9 to 50	9 to 12 / 9 to 25	9 to 25	13 to 50
	–	–	–	Max. 32
	105	75	88	296
	10000 (1020)	6664 (680)	9800 (1000)	17000 (1733)
	86 x 170	82 x 172	100 x 200	110 x 220
	432 x 197 x 493	407 x 215 x 424	455 x 215 x 534	570 x 283 x 623
	3	4 / 5	5	5
	17.5	18.5	26	30
	Manual	Automatic	Automatic	Manual
	11	13	13	5

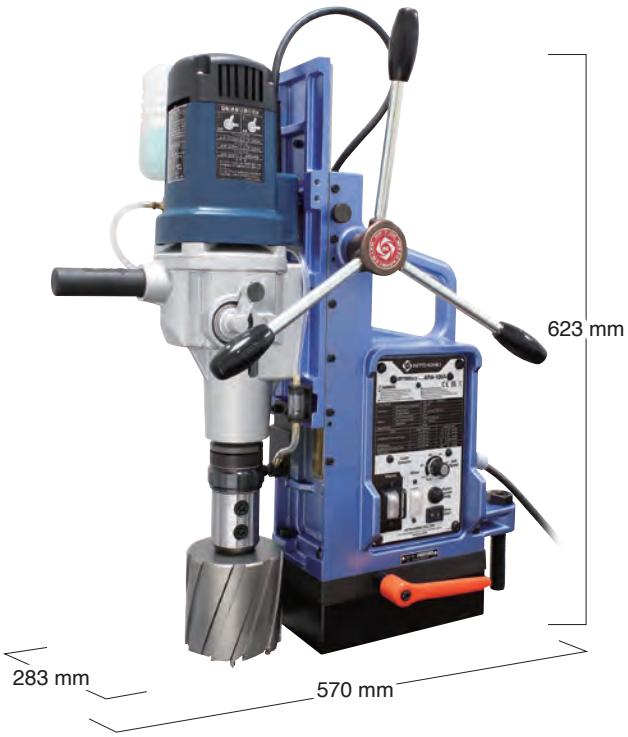
Portable Magnetic Base Drilling Machine

ATRA ACE manual feed

Model ARA-100A CE

• Max. 100 mm dia. x 75 mm deep

YouTube



The versatile drilling machine with top-class power in ATRA ACE series

• Accepts various cutters for diverse drilling
• Advanced electronic control for efficient drilling and operator safety

Specifications

Model			ARA-100A	
Power Source (Single Phase)			220 - 240 V AC, 50/60 Hz	
Electric Drill	Rated Power Consumption	W	1800	
	Rated Current	A	8.2	
	No-load Speed	min^{-1}(rpm)	110 to 210 / 330 to 660	
	Morse Taper No.		MT3	
	Rated Duty	min	30	
Magnet Power Consumption		W	80	
Hole Capacity mm	Cutter		Hole Diameter	Plate Thickness
	One-touch Type JETBROACH 35L		17.5 to 40	13 to 35
	One-touch Type JETBROACH 50L		17.5 to 50	13 to 50
	One-touch Type JETBROACH 75L		17.5 to 50	13 to 75
	JETBROACH 75L		50 to 100	13 to 75
	One-touch Type HI-BROACH 25L		17.5 to 35	13 to 25
	One-touch Type HI-BROACH 50L		18 to 35	13 to 50
	Twist Drill		Max. 32 mm dia.	
Min. Plate Thickness for Magnet Adhesion		mm	13	
Max. Stroke		mm	296	
Magnet Holding Power		N(kgf)	17000 (1733)	
Magnet Dimensions		mm	110 (W) x 220 (L)	
Cutter Position Adjustment	Straight Front to Back	mm	20	
	Swivel angle		30°	
Power Cord Length		m	5	
Mass (Weight)		kg	30	

Accessories Included

- Pilot Pin 12075 Ass'y
- Side Handle
- 2.5 mm Hex Socket Screw Key
- 5 mm Hex Socket Screw Key
- 6 mm Hex Socket Screw Key
- 8 mm Hex Socket Screw Key
- Drill Drift
- 7 x 8 mm Spanner
- Safety Chain
- Guard
- Oil Tank
- Oil Tank Bracket
- 3 pieces of Rod Handle
- Holder MT03075 Side Lock

Optional Accessories

Ref. No.	PN	Description	Sales Unit
1	TB01507	Cutting Oil 2L	1 piece
2	TB04374	Supporting Magnet Ass'y	1 set
3	TB09727	Holder MT03075 One-touch	1 piece

Slow Starting Function

Slow speed at the beginning of boring will securely set a hole cutting position.

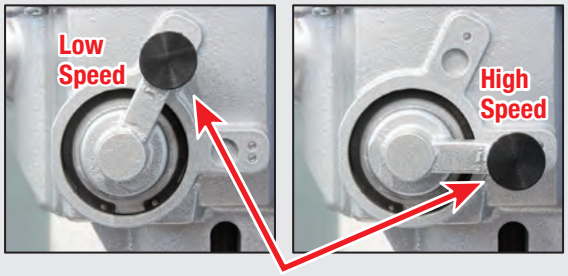


1 2 3

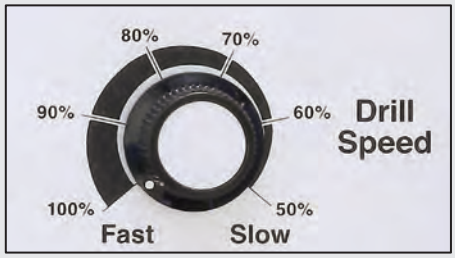


Two speed electric drill with speed adjustment

Optimum drill speed adjustment can be made to bore a hole on difficult-to-cut materials or to securely set a hole cutting position at initial cutting stage.



Shift Lever



Load Indication and LED Condition

Load Indication

The load indicator (LED) indicates the condition of the load with different color of LED light.

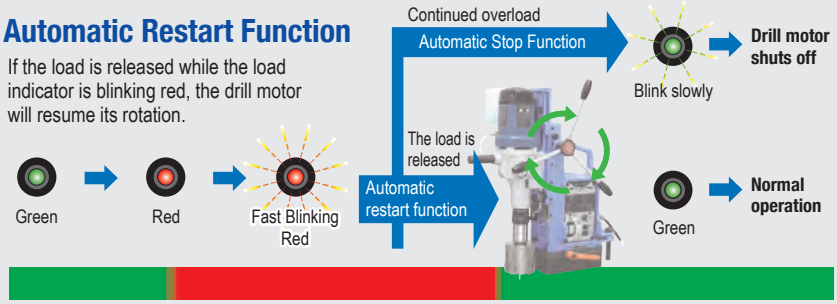
The LED lights up in green. ➡ The load on the drill motor is normal.
The LED lights up in red. ➡ The load on the drill motor is close to overload.
The LED blinks in red. ➡ The drill motor is overloaded.

Automatic Stop Function

As the drilling load increases, the load indicator will change in color from green to red. In addition, if excessive feeding force is applied, the load indicator will rapidly blink red and the rotation of the drill motor will slow down and stop. After the drill motor has come to a complete stop, the load indicator will slowly blink in green. To resume the rotation of the drill motor, release the load, turn off the switch of the drill motor, and then turn it back on.

Automatic Restart Function

If the load is released while the load indicator is blinking red, the drill motor will resume its rotation.



Built-in Motion Sensor

If any lateral movement or excess vibration is detected during drilling a hole, the drill motor stop instantly and the LED blink red. To resume operation, turn the magnet switch off and on.



Fail-safe Restart

The magnetic field will become active, but the drill will not re-start even if power is re-supplied after accidental shutdown. The LED will blink green at this stage. Drilling can only be continued after turning on the drill switch.

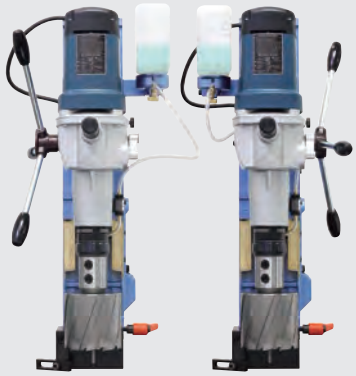
Magnet Open-circuit Sensor

The drill will not start until the magnetic field is active. If malfunction occurs on the magnet, the LED will blink red slowly and the drill motor will not revolve.



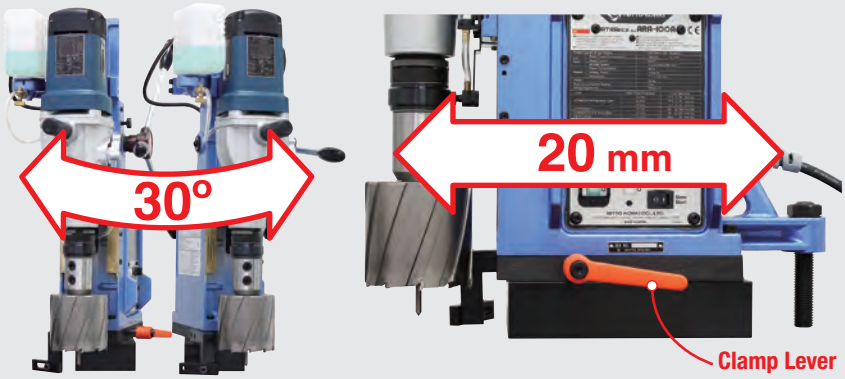
Features

Reversible Feed Handles



Feed handles can be positioned on the right or left hand side for ease of drilling.
When changing the feed handle position, oil tank is required to be positioned opposite to the feed handles.

Drilling Position Adjustment



When the clamp lever is loosened, the drill position can be adjusted back and forth by 20 mm and pivoted 15 degrees to the left or right. The clamp lever can be positioned for left hand or right hand operation.

One-Touch Cutter Replacement **(Holder MT03075 One-Touch)**



Mounting the cutter

Align the depression in the cutter shank with the white line on the sleeve, and then insert the cutter.



Removing the cutter

Turn the sleeve counterclockwise. The cutter will come off.



Available on the market

Twist Drill Bit

MT3



MT3 Morse taper shank drill bit can be directly installed.

Morse taper sleeve MT3*



Use Morse taper sleeve MT3 for other sizes than MT3

Drill chuck Arbor MT3*



A drill chuck is required to install a straight drill bit.

*Available on the market

Portable Magnetic Base Drilling Machine

ATRA ACE manual feed

Model LO-3550 CE

• Max. 35 mm dia. x 50 mm deep

YouTube

Compact, lightweight, low profile design gives you greater hole making mobility

- Drilling on 100 mm or more width web and flange of wide flange beam
- Designed to improve drilling on walls, confined and elevated locations
- Drill position can be adjusted up to 10 mm travel on each axis straight front to back and pivot side to side



Specifications

Model			LO-3550	
Power Source (Single Phase)			220 - 240 V AC, 50/60 Hz	
Electric Drill	Rated Power Consumption	W	800	
	Rated Current	A	3.3	
	No-load Speed	min⁻¹(rpm)	950	
Hole Capacity mm	Cutter		Hole Diameter	Plate Thickness
	One-touch Type JETBROACH 25L		12 to 17	6 to 25
	One-touch Type JETBROACH 35L		17.5 to 35	6 to 35
	One-touch Type JETBROACH 50L		12 to 35	6 to 50
Min. Plate Thickness for Magnet Adhesion		mm	6	
Magnet Holding Power		N(kgf)	5500 (561)	
Max. stroke		mm	80	
Magnet Dimensions		mm	65 (W) x 145 (L)	
Cutter Position Adjustment	Pivot Side to Side	mm	10	
	Straight Front to Back	mm	10	
Power Cord Length		m	3	
Mass (Weight)		kg	8.7*	

*Excluding Power Cord and Sub Handle

Accessories Included

- Carry Case
- Cutting Oil 0.5L
- Feed Handle
- Sub Handle
- Pilot Pin 08035
- Spanner 17
- Blade
- Hex Socket Bolt 5 x 12
- Hex Socket Head Set Screw 8 x 28
- 4 mm Hex Socket Screw Key
- 5 mm Hex Socket Screw Key
- Spanner 7 x 8
- Guard
- Safety Strap

Chip Breaker



This chip breaker prevents the cutter from becoming jammed with metal shavings.

Optional Accessories

Ref. No.	PN	Description	Sales Unit
1	TB01507	Cutting Oil 2L	1 piece
2	TQ10581	Oiler No. 3013	
3	TB01098	Tube 4 x 7 x 3000 Ass'y	1 set
4	TB07306	Lubrication Adapter Ass'y	
5	TB04374	Supporting Magnet Ass'y	
6	TB07696	Pipe Attachment Ass'y	
7	TB11527	Guard	1 piece
*50L for stacked plates		One-touch Type JETBROACH 25L, 35L, 50L	

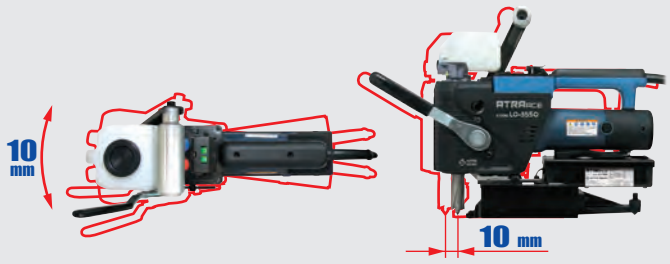


Applicable Pipe Size: OD 48.6 to 318.5 mm



Easy Drilling Position Adjustment

After engaging the magnet, the drill position can be adjusted up to 10 mm travel on each axis straight front to back and pivot side to side.



Adjustable Feed Handle

The feed handle can be locked at varying angles to enhance productivity.

Pull the feed handle to adjust the angle.



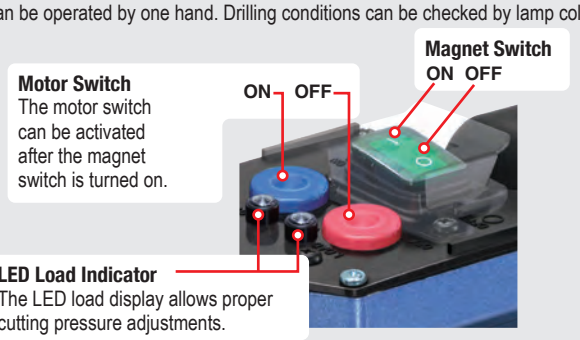
Light Handle Operation

Fast revolution of JETBROACH CUTTER makes less cutting resistance and smooth handling.



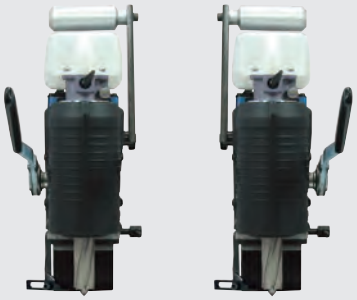
Easy-to-use Switch Panel

On / off buttons of the magnet and the drill motor are on the front panel and can be operated by one hand. Drilling conditions can be checked by lamp colors.



Reversible Feed Handle

The feed handle can be positioned on the right or left hand side for ease of drilling and mounting in confined spaces.



A Carrying Case Is Provided

The carrying case is a rugged accessory that provides a convenient way to transport and store the LO-3550.



Optional Accessories for ATRA ACE

Pipe Attachment Ass'y

The Pipe Attachment Ass'y is an optional base to securely fasten ATRA ACE on pipes for drilling. The chain can easily and securely fit around pipes having an outside diameter of 48.6 to 318.5 mm.

Example of installation on a pipe



Applicable Pipe Size:
48.6 to 318.5 mm

PN : TB07696

Applicable Models when a 35 mm or 50 mm length one touch type JETBROACH CUTTER is used:
WOJ-3200, LO-3550, WA-4000, WA-5500, and QA-4000

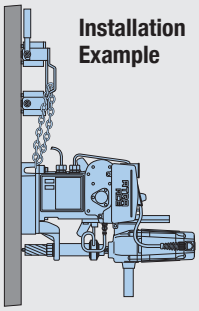
Supporting Magnet Ass'y

If the accessory safety strap or chain is unable to be properly secured to prevent ATRA ACE from falling off the workpiece, the Supporting Magnet Ass'y is recommended. It employs a permanent magnet and can secure ATRA ACE even if power is interrupted.



PN : TB04374

Installation Example



Applicable Models:
LO-3550, WA-4000, WA-5500, WOJ-3200, AO-5575A, QA-4000, and QA-6500

Portable Magnetic Base Drilling Machine

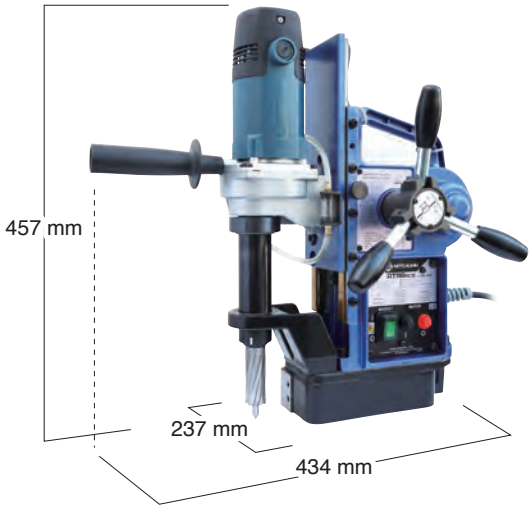
ATRA ACE auto

High-performance feed system & high-tech components

• Drilling time and cutting performance are enhanced by the automatic feed function.

Model WA-4000 CE

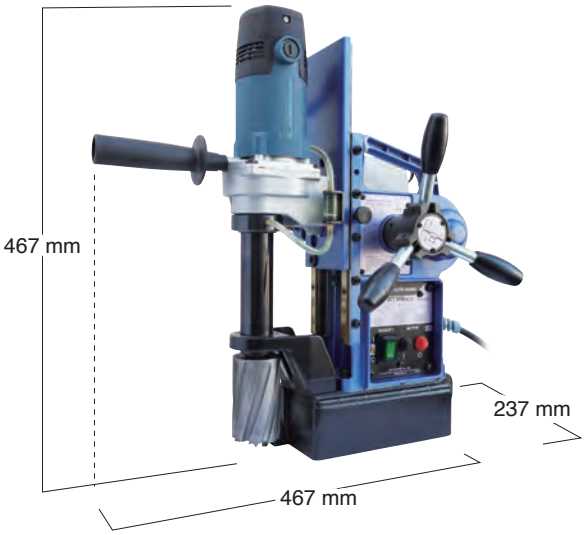
• Max. 40 mm dia. x 50 mm deep



Model WA-5500 CE

• Max. 55 mm dia. x 75 mm deep

YouTube



Specifications

Model			WA-4000		WA-5500	
Power Source (Single Phase)			220 - 240 V AC, 50/60 Hz		220 - 240 V AC, 50/60 Hz	
Electric Drill	Rated Power Consumption	W	1010		1040	
	Rated Current	A	4.3		4.3	
	No-load Speed	min^{-1}(rpm)	740		520	
Magnet Power Consumption		W	40		70	
Hole Capacity mm	Cutter		Hole Diameter	Plate Thickness	Hole Diameter	Plate Thickness
	One-touch Type JETBROACH 25L		12 to 35	9 to 25	17.5 to 35	9 to 25
	One-touch Type JETBROACH 35L		17.5 to 40	9 to 35*	17.5 to 40	9 to 35*
	One-touch Type JETBROACH 50L		12 to 40	9 to 50*	17.5 to 19.5	9 to 35*
			-	-	20 to 50	9 to 50*
			-	-	51 to 55	9 to 35*
	One-touch Type JETBROACH 75L		-	-	17.5 to 19	9 to 35*
			-	-	20 to 50	9 to 75*
			-	-	51 to 55	9 to 50*
	One-touch Type HI-BROACH 25L		14 to 35	9 to 25	14 to 50	9 to 25
	One-touch Type HI-BROACH 50L		14 to 35	9 to 50*	16 to 19	9 to 35*
			-	-	20 to 40	9 to 50*
			-	-	41 to 50	9 to 35*
Min. Plate Thickness for Magnet Adhesion		mm	9		9	
Max. Stroke		mm	84		107	
Magnet Holding Power		N(kgf)	7056 (720)		9800 (1000)	
Magnet Dimensions		mm	92 (W) x 213 (L)		101 (W) x 203 (L)	
Power Cord Length		m	3		3	
Mass (Weight)		kg	19		22	
Accessories Included			• Carry Case • Cutting Oil 0.5L • Pilot Pin 08035 • Sub Handle • 3 mm Hex Socket Screw Key • 8 x 10 mm Spanner • Guard • Chain		• Carry Case • Cutting Oil 0.5L • Pilot Pin 08050 • Sub Handle • 3 mm Hex Socket Screw Key • 4 mm Hex Socket Screw Key • 8 x 10 mm Spanner • Guard • Chain • Chip Breaker (Installed)	

*Be sure to use the Chip Breaker when drilling holes with a plate thickness of 35 mm or more.

Optional Accessories

Ref. No.	PN	Description	Sales Unit	Applicable Model	
				WA-4000	WA-5500
1	TB05186	Chip Breaker Ass'y	1 set	●	
2	TB01507	Cutting Oil 2L	1 piece	●	●
3	TB04374	Supporting Magnet Ass'y	1 set	●	●
4	TB02536	Sleeve 6.5 for Triangle Shank Drill Bit	1 piece	●	●
5	TB07696	Pipe Attachment Ass'y	1 set	●	
		One-touch Type JETBROACH 25L	1 piece	●	●
		One-touch Type JETBROACH 35L	1 piece	●	●
		One-touch Type JETBROACH 50L	1 piece	●	●
		One-touch Type JETBROACH 75L	1 piece		●
		One-touch Type HI-BROACH 25L	1 piece	●	●
		One-touch Type HI-BROACH 50L	1 piece	●	●



Applicable Pipe Size: OD 48.6 to 318.5 mm

One-touch Cutter Replacement

Replacement is quick and easy with our unique push fit self-centering cutter system.



Mounting the cutter



Removing the cutter

Coolant into the Heart of the Cut

Coolant is fed directly to the inside of the cut.
The coolant system also features an auto shut-off.



Improved Bearing Bracket

Our precision bearing bracket aligns cutters precisely, which increases cutter life.



Fail-Safe Protection

Built-in Motion Sensor

If any lateral movement or excess vibration is detected, both the drill and the feed motor stop. Nitto Kohki is the first company to incorporate this feature into magnetic base drills.

Fail-safe Restart

The drill will not re-start even if power is re-supplied after accidental shutdown. Drilling can only be continued after turning on the drill switch.

Magnet Open-circuit Sensor

The drill will not start until the magnetic field is active.

Chip Breaker

This chip breaker prevents the cutter from becoming jammed with metal shavings.

- Standard accessory for the WA-5500
- Optional accessory for the WA-4000



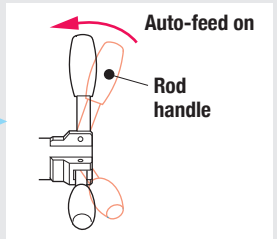
New drill control prevents cutters from breaking

Slow Start Mechanism

The feed speed is reduced for the first few seconds after boring begins to ensure a smooth cut through the mill scale.

Auto-feed

Automatic control & feed are activated by simply pushing the Rod handle to engage the clutch.



Load Sensor

The dual sensing system responds to both drilling and feeding forces on the cutter for the optimum cutting condition.

Variable Automatic Feed

The feed speed is continuously monitored and updated proportionally to the load on the cutter.

Cycle Stop

After the cut has finished, a detector responds to the reduction in load and both the drill and the feed motor automatically stop.

Overload Stop

When an excessive load is applied to the cutter, both the drill and the feed motor will stop automatically.









Portable Magnetic Base Drilling Machine

ATRA ACE manual feed

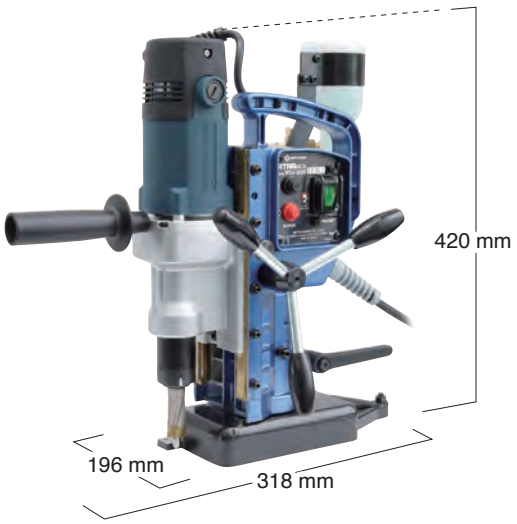
New generation magnetic base drilling machines help meet productivity and safety goals.

• Advanced safety system

Model WOJ-3200 CE

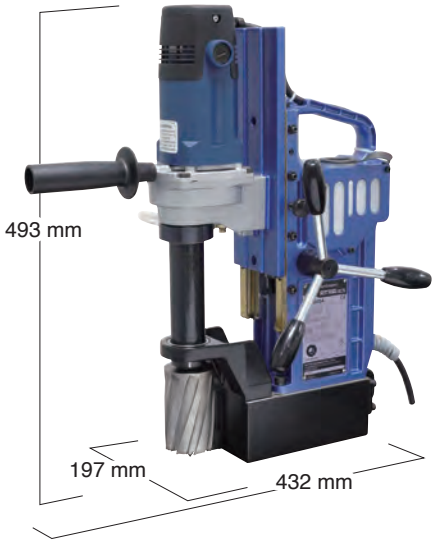
• Max. 32 mm dia. x 50 mm deep

YouTube



Model AO-5575A CE

• Max. 55 mm dia. x 75 mm deep



Specifications

Model			WOJ-3200		AO-5575A	
Power Source (Single Phase)			110 - 120 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz	
Electric Drill	Rated Power Consumption	W	950		950	
	Rated Current	A	8.6	4.3	4.3	
	No-load Speed	min^{-1}(rpm)	870		520	
Magnet Power Consumption		W	38	30	50	
Hole Capacity mm	Cutter		Hole Diameter	Plate Thickness	Hole Diameter	Plate Thickness
	One-touch Type JETBROACH 25L		12 to 17	9 to 25	12 to 17	9 to 25
	One-touch Type JETBROACH 35L		17.5 to 32	9 to 35	17.5 to 40	9 to 35
	One-touch Type JETBROACH 50L		12 to 32	9 to 50	12 to 55	9 to 50
	One-touch Type JETBROACH 75L		-	-	17.5 to 55	9 to 75
	One-touch Type HI-BROACH 25L		-	-	12 to 50	9 to 25
	One-touch Type HI-BROACH 50L		-	-	12 to 50	9 to 50
	Twist Drill		Max. 13 mm dia.		-	
Min. Plate Thickness for Magnet Adhesion		mm	9		9	
Max. Stroke		mm	130		105	
Magnet Holding Power		N(kgf)	9000 (918)		10000 (1020)	
Magnet Dimensions		mm	99 (W) x 177 (L)		86 (W) x 170 (L)	
Power Cord Length		m	3		3	
Mass (Weight)		kg	13		17.5	
Accessories Included			• Carry Case • Oil Tank • Pilot Pin 08035 • Sub Handle • 2 pieces of Hex Socket Head Bolt 5 x 10 mm • 3 pieces of Rod Handle	• 3 mm Hex Socket Screw Key • 4 mm Hex Socket Screw Key • 6 mm Hex Socket Screw Key • 8 x 10 mm Spanner • Guard • Safety Strap	• Carry Case • Cutting Oil 0.5L • Pilot Pin 08050 • Side Handle • 3 mm Hex Socket Screw Key	• 5 mm Hex Socket Screw Key • 8 x 10 mm Spanner • Guard • Chain

Optional Accessories

Ref. No.	PN	Description	Sales Unit	Applicable Model	
				WOJ-3200	AO-5575A
1	TB07691	Chip Breaker Ass'y	1 set	●	
2	TB07474	Chip Breaker Ass'y	1 set		●
3	TQ10581	Oiler No. 3013	1 piece	●	
4	TB01098	Tube 4 x 7 x 3000 Ass'y	1 set	●	●
5	TB01507	Cutting Oil 2L	1 piece	●	●
6	TB07696	Pipe Attachment Ass'y	1 set	●	
7	TB04374	Supporting Magnet Ass'y	1 set	●	●
8	TB07690	One-touch Drill Adapter	1 piece	●	
9	TB02536	Sleeve 6.5 for Triangle Shank Drill Bit	1 piece		●
		One-touch Type JETBROACH 25L	1 piece	●	●
		One-touch Type JETBROACH 35L	1 piece	●	●
		One-touch Type JETBROACH 50L	1 piece	●	●
		One-touch Type JETBROACH 75L	1 piece		●
		One-touch Type HI-BROACH 25L	1 piece		●
*50L for stacked plates		One-touch Type HI-BROACH 50L	1 piece		●



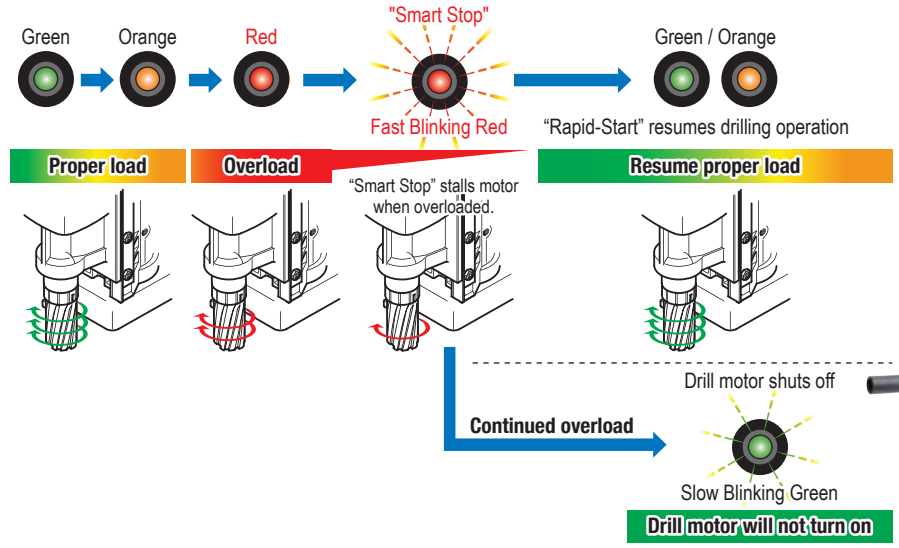
Load Detector with “Smart-Stop/Rapid-Restart” Technology

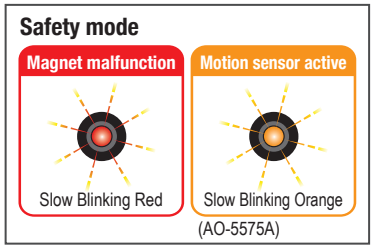
"Smart-Stop / Rapid-Restart" technology for WOJ-3200 / AO-5575A, an innovative feature of ATRA ACE manual feed

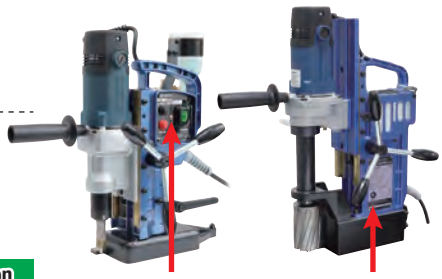
This new feature is a breakthrough in the Manual drill industry. Formerly only found on high end Nitto Kohki Automatic drills, this technology displays the current drill status via the LED Load Indicator. Customers will experience a cutting edge drill management system designed solely around saving time and money in replacement parts and cutters in addition to reducing user fatigue and down time.

As the drilling load increases, the load indicator will change in color from green to orange to red. In addition, if excessive feeding force is applied, the load indicator will rapidly blink red and the rotation of the drill motor will slow down and temporarily stop. If the load is released while the load indicator is blinking red, the drill motor will resume its rotation.

LED load indicator







LED load indicator

One-Touch Cutter Replacement

Replacement is quick and easy with our unique push fit self-centering cutter system.



Mounting the cutter



Removing the cutter

Reversible Feed Handle

Feed handles can be positioned on the right or left side for ease of drilling and mounting in confined spaces.



Chip Breaker **(Optional)**

This chip breaker prevents the cutter from becoming jammed with metal shavings.



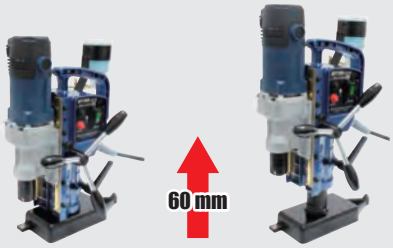
WOJ-3200



AO-5575A

Body Height Adjustment **(WOJ-3200)**

The use of JETBROACH CUTTERS require the frame to be at the lowest position, while twist bit drilling requires the appropriate amount of elevation to be adjusted for safe operation.



One-Touch Drill Adapter **(WOJ-3200)**

Optional One-Touch Drill Adapter allows the use of up to 13 mm twist drills to be used in the original arbor.



*Twist drills are not provided with the One-Touch Drill Adapter.

Built-in coolant tank to protect against damage **(AO-5575A)**



Portable Magnetic Base Drilling Machine

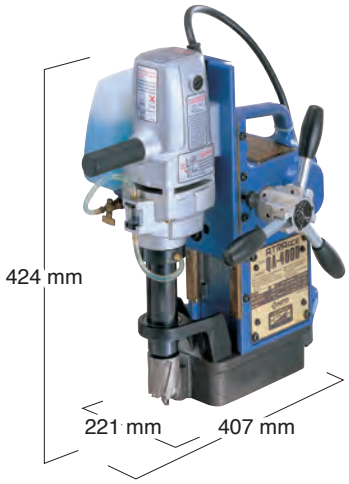
ATRA ACE quick auto

Fully automatic drilling for increased productivity and reduced cost

- Proven Automatic Technology
  (self feeding, automatic return, load detection for speed and feed regulation)

Model QA-4000 Non-CE

- Max. 40 mm dia. x 35 mm deep



Model QA-6500 Non-CE

- Max. 65 mm dia. x 50 mm deep



Specifications

Model			QA-4000		QA-6500	
Power Source (Single Phase)			110 - 120 V AC, 50/60 HZ	220 - 240 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz	
Electric Drill	Rated Power Consumption	W	680		1010	
	Rated Current	A	6.1	3.0	4.5	
	No-load Speed	min^{-1}(rpm)	750		400 / 750	
Magnet Power Consumption		W	50		75	
Hole Capacity mm	Cutter		Hole Diameter	Plate Thickness	Hole Diameter	Plate Thickness
	One-touch Type JETBROACH 35L		17.5 to 40	9 to 35	17.5 to 40	9 to 35
	One-touch Type JETBROACH 50L		-	-	17.5 to 65	9 to 50
	One-touch Type HI-BROACH 25L		14 to 15	9 to 12	18 to 35	9 to 25
			16 to 18	9 to 25		
Min. Plate Thickness for Magnet Adhesion		mm	9		9	
Max. Stroke		mm	75		88	
Magnet Holding Power		N(kgf)	6664 (680)		9800 (1000)	
Magnet Dimensions		mm	82 (W) x 172 (L)		100 (W) x 200 (L)	
Power Cord Length		m	4	5	5	
Mass (Weight)		kg	18.5		26	
Accessories Included			• Oil Tank • Cutting Oil 0.5L • Pilot Pin 08035 • Side Handle • 3 mm Hex Socket Screw Key	• 4 mm Hex Socket Screw Key • 8 x 10 mm Spanner • Chain • Tool Box	• Oil Tank • Cutting Oil 0.5L • Pilot Pin 08050 • Side Handle • 3 mm Hex Socket Screw Key	• 4 mm Hex Socket Screw Key • 8 x 10 mm Spanner • Chip Stopper • Chain • Tool Box

Optional Accessories

Ref. No.	PN	Description	Sales Unit	Applicable Model	
				QA-4000	QA-6500
1	TB01507	Cutting Oil 2L	1 piece	●	●
2	TB04374	Supporting Magnet Ass'y	1 set	●	●
3	TB07696	Pipe Attachment Ass'y	1 set	●	
		One-touch Type JETBROACH 35L	1 piece	●	●
		One-touch Type JETBROACH 50L	1 piece		●
		One-touch Type HI-BROACH 12L	1 piece	●	
		One-touch Type HI-BROACH 25L	1 piece	●	●

1 2 3







Applicable Pipe Size: OD 48.6 to 318.5 mm

Automatic Return

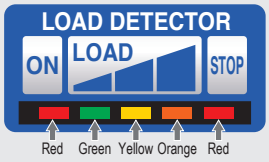
Once drilling is completed and the slug is ejected from the hole, the cutting bit is quickly retracted. This quick drill motor retraction allows the user to move onto the next hole more quickly.

Built-in Motion Sensor

If any lateral movement or excess vibration is detected, both the drill and the feed motor stop. Nitto Kohki is the first company to incorporate this feature into magnetic base drills.

Self Feeding & Load Detection

The feeding is controlled by an onboard microcomputer. The feed rate begins slowly and then increases to the appropriate speed for the cutter size and load condition. The load detector clearly shows the amount of resistance on the cutter at anytime.



Step Feed

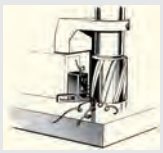
When cutting through difficult materials, the load sensor will automatically activate the Step Feed Program to help penetrate material.

Limit Switch

The automatic drills of ATRA ACE utilize a limit switch that resets the machine when it retracts to the starting position after hole completion, and shuts down the motors in the event of an over-travel at the bottom of the stroke.

Chip Breaker

This chip breaker prevents the cutter from becoming jammed with metal shavings.



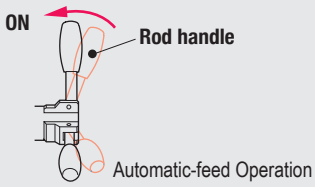
Automatic-feed Hole-cutting Procedure



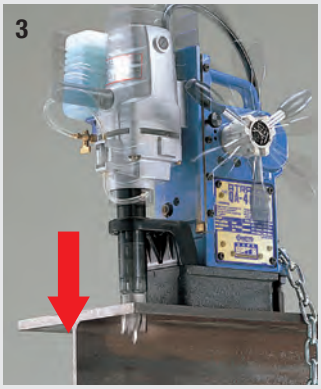
Align the pilot pin with the center punch mark of the hole to be drilled. Attach the machine to the beam with the proper safety chain and engage the magnet. Lower the drill down from the top limit switch location to the point of the pilot pin making contact with the material and engage the motor.



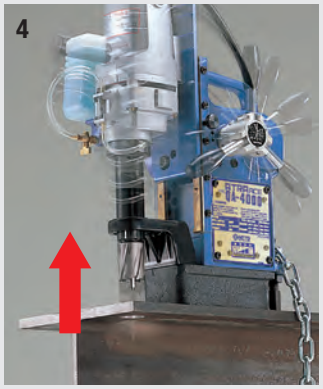
Engage the clutch by pushing the handles in towards the drill and the motor will begin feeding automatically.



Automatic-feed Operation



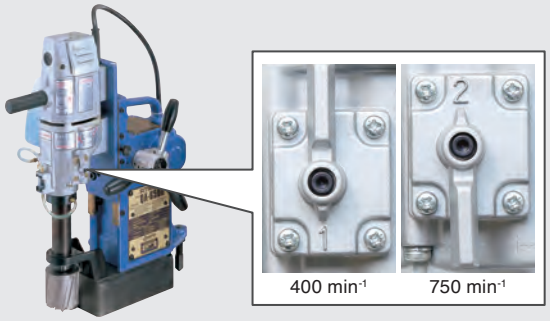
Slow start mechanism cuts smoothly through the mill scale. Then, speed and feed rate is controlled by the sensors to achieve efficient drilling.



After the hole is completed, the QA Series machines will quickly return and stop at the top of the stroke, ready for the next hole.

Two Speed Selection (QA-6500)

Speed can be changed to suit the type and size of the cutter.



One-touch Cutter Replacement

Replacement is quick and easy with our unique push fit self-centering cutter system.



Mounting the cutter



Removing the cutter

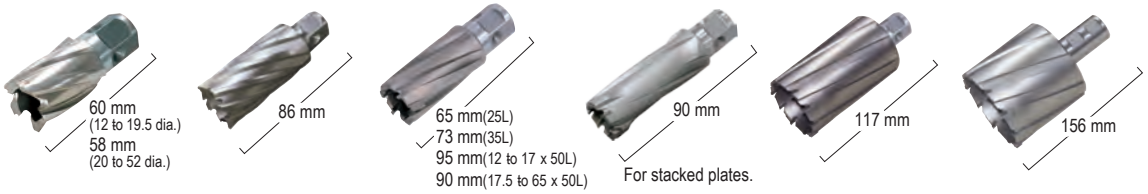
Annular Cutters

JETBROACH CUTTERS & HI-BROACH CUTTERS

BROACH CUTTERS are far better than twist drills

- No dead point
- Peripheral cutting
- Dramatically reduce cutting resistance
- Available diameter size: 12 to 100 mm

Test Drilling is very often the only way to determine the machinability of difficult materials.
Use a small size cutter wherever possible in order to minimize trial costs.



Specifications

		HI-BROACH One-touch Type/25L	HI-BROACH One-touch Type/50L	JETBROACH One-touch Type/25,35,50L	JETBROACH One-touch Type/50L(W)	JETBROACH One-touch Type/75L	JETBROACH Side lock Type/75L
Hole Capacity mm	Hole Diameter	25L: 12 to 52 dia.	-	25L: 12 to 35 dia.	-	-	-
		-	-	35L: 17.5 to 40 dia.	-	-	-
		-	50L: 12 to 52 dia.	50L: 12 to 65 dia.	50L(W): 18, 22, 24 to 26.5,	-	-
		-	-	-	28, 32, and 35 dia.	75L: 17.5 to 55 dia.	75L: 50 to 100 dia.
	Plate Thickness	25L: 25	-	25L: 25	-	-	-
		-	-	35L: 35	-	-	-
		-	50L: 50	50L: 50	50L(W): 50	-	-
		-	-	-	-	75L: 75	75L: 75
Feed Speed mm/rev		0.02 to 0.1					
Circumferential Speed m/min		15 to 35 (mild steel)		35 to 50 (mild steel)			

HI-BROACH One-touch Type

Depth	mm dia.	PN	ARA-100A	WA-4000	WA-5500	AO-5575A	QA-4000	QA-6500	Pilot Pin
25 mm	12	TK00698				●			06025
	13	TK00699				●			
	14	TK00700		●	●	●	●		
	15	TK00701		●	●	●	●		
	16	TK00702		●	●	●	●		
	17	TK00703		●	●	●	●		
	17.5	TK01391	●	●	●	●	●		08025
	18	TK01392	●	●	●	●	●	●	
	19	TK01393	●	●	●	●		●	
	19.5	TK01394	●	●	●	●		●	
	20	TK01395	●	●	●	●		●	
	21	TK01396	●	●	●	●		●	
	21.5	TK01397	●	●	●	●		●	
	22	TK01398	●	●	●	●		●	
	22.5	TK01399	●	●	●	●		●	
	23	TK01400	●	●	●	●		●	
	23.5	TK01401	●	●	●	●		●	
	24	TK01402	●	●	●	●		●	
	24.5	TK01403	●	●	●	●		●	
	25	TK01404	●	●	●	●		●	
	26	TK01405	●	●	●	●		●	
	27	TK01407	●	●	●	●		●	
	28	TK01408	●	●	●	●		●	
	29	TK01409	●	●	●	●		●	
	30	TK01410	●	●	●	●		●	
	31	TK01411	●	●	●	●		●	
	32	TK01412	●	●	●	●		●	
	33	TK01413	●	●	●	●		●	
	34	TK01414	●	●	●	●		●	
	35	TK01415	●	●	●	●		●	
	36	TK01416			●	●			
	37	TK01417			●	●			
	38	TK01418			●	●			
	39	TK01419			●	●			
	40	TK01420			●	●			
	41	TK01421			●	●			
	42	TK01422			●	●			
	43	TK01423			●	●			
	44	TK01424			●	●			
	45	TK01425			●	●			
	46	TK01426			●	●			
	47	TK01427			●	●			
	48	TK01428			●	●			
	49	TK01429			●	●			
	50	TK01430			●	●			
	51	TK01431							
	52	TK01432							

HI-BROACH One-touch Type

Depth	mm dia.	PN	ARA-100A	WA-4000	WA-5500	AO-5575A	Pilot Pin
50 mm	12	TK00721				●	06050
	13	TK00722				●	
	14	TK00723		●		●	
	15	TK00724		●		●	
	16	TK00725		●	●	●	
	17	TK00726		●	●	●	
	18	TK00727	●	●	●	●	08050
	19	TK00728	●	●	●	●	
	20	TK00729	●	●	●	●	
	21	TK00730	●	●	●	●	
	22	TK00731	●	●	●	●	
	23	TK00732	●	●	●	●	
	24	TK00733	●	●	●	●	
	25	TK00734	●	●	●	●	
	26	TK00735	●	●	●	●	
	27	TK00736	●	●	●	●	
	28	TK00737	●	●	●	●	
	29	TK00738	●	●	●	●	
	30	TK00739	●	●	●	●	
	31	TK00740	●	●	●	●	
	32	TK00741	●	●	●	●	
	33	TK00742	●	●	●	●	
	34	TK00743	●	●	●	●	
	35	TK00744	●	●	●	●	
	36	TK00745			●	●	
	37	TK00746			●	●	
	38	TK00747			●	●	
	39	TK00748			●	●	
	40	TK00749			●	●	
	41	TK00750			●	●	
	42	TK00751			●	●	
	43	TK00752			●	●	
	44	TK00753			●	●	
	45	TK00754			●	●	
	46	TK00755			●	●	
	47	TK00756			●	●	
	48	TK00757			●	●	
	49	TK00758			●	●	
	50	TK00759			●	●	
	51	TK00760					
	52	TK00761					

JETBROACH One-touch Type

Depth	mm dia.	PN	LO-3550	WA-4000	WA-5500	WOJ-3200	AO-5575A	Pilot Pin
25 mm	12	TK01148	●	●		●	●	06025
	13	TK01149	●	●		●	●	
	14	TK01150	●	●		●	●	
	15	TK01151	●	●		●	●	
	16	TK01152	●	●		●	●	
	17	TK01153	●	●		●	●	
	17.5	TK01711		●	●			
	18	TK01712		●	●			
	18.5	TK01713		●	●			
	19	TK01714		●	●			
	19.5	TK01715		●	●			
	20	TK01716		●	●			
	20.5	TK01717		●	●			
	21	TK01718		●	●			
	21.5	TK01719		●	●			
	22	TK01720		●	●			
	22.5	TK01721		●	●			
	23	TK01722		●	●			
	23.5	TK01723		●	●			
	24	TK01724		●	●			
	24.5	TK01725		●	●			
	25	TK01726		●	●			
	25.5	TK01727		●	●			
	26	TK01728		●	●			
	26.5	TK01729		●	●			
	27	TK01730		●	●			
	28	TK01239		●	●			
	29	TK01240		●	●			
	30	TK01241		●	●			
	31	TK01242		●	●			
	32	TK01243		●	●			
	33	TK01244		●	●			
	34	TK01245		●	●			
	35	TK01246		●	●			

JETBROACH One-touch Type

Depth	mm dia.	PN	ARA-100A	LO-3550	WA-4000	WA-5500	WOJ-3200	AO-5575A	QA-4000	QA-6500	Pilot Pin
35 mm	17.5	TK01249	●	●	●	●	●	●	●	●	08035
	18	TK01250	●	●	●	●	●	●	●	●	
	18.5	TK01251	●	●	●	●	●	●	●	●	
	19	TK01252	●	●	●	●	●	●	●	●	
	19.5	TK01253	●	●	●	●	●	●	●	●	
	20	TK01254	●	●	●	●	●	●	●	●	
	20.5	TK01255	●	●	●	●	●	●	●	●	
	21	TK01256	●	●	●	●	●	●	●	●	
	21.5	TK01257	●	●	●	●	●	●	●	●	
	22	TK01258	●	●	●	●	●	●	●	●	
	22.5	TK01259	●	●	●	●	●	●	●	●	
	23	TK01260	●	●	●	●	●	●	●	●	
	23.5	TK01261	●	●	●	●	●	●	●	●	
	24	TK01262	●	●	●	●	●	●	●	●	
	24.5	TK01263	●	●	●	●	●	●	●	●	
	25	TK01264	●	●	●	●	●	●	●	●	
	25.5	TK01265	●	●	●	●	●	●	●	●	
	26	TK01266	●	●	●	●	●	●	●	●	
	26.5	TK01267	●	●	●	●	●	●	●	●	
	27	TK01268	●	●	●	●	●	●	●	●	
	28	TK01269	●	●	●	●	●	●	●	●	
	29	TK01270	●	●	●	●	●	●	●	●	
	30	TK01271	●	●	●	●	●	●	●	●	
	31	TK01272	●	●	●	●	●	●	●	●	
	32	TK01273	●	●	●	●	●	●	●	●	
	33	TK01274	●	●	●	●		●	●	●	
	34	TK01275	●	●	●	●		●	●	●	
	35	TK01276	●	●	●	●		●	●	●	
	36	TK01277	●		●	●		●	●	●	
	37	TK01278	●		●	●		●	●	●	
	38	TK01279	●		●	●		●	●	●	
	39	TK01280	●		●	●		●	●	●	
	40	TK01281	●		●	●		●	●	●	

Sales Unit: 1 Piece

JETBROACH One-touch Type

Depth	mm dia.	PN	ARA-100A	LO-3550	WA-4000	WA-5500	WOJ-3200	AO-5575A	QA-6500	Pilot Pin
50 mm	12	TK01154		●	●		●	●		06050
	13	TK01155		●	●		●	●		
	14	TK01156		●	●		●	●		
	15	TK01157		●	●		●	●		
	16	TK01158		●	●		●	●		
	17	TK01159		●	●		●	●		
	17.5	TK01282	●	●	●	●	●	●	●	08050
	18	TK01283	●	●	●	●	●	●	●	
	19	TK01284	●	●	●	●	●	●	●	
	19.5	TK01285	●	●	●	●	●	●	●	
	20	TK01286	●	●	●	●	●	●	●	
	20.5	TK01287	●	●	●	●	●	●	●	
	21	TK01288	●	●	●	●	●	●	●	
	21.5	TK01289	●	●	●	●	●	●	●	
	22	TK01290	●	●	●	●	●	●	●	
	22.5	TK01291	●	●	●	●	●	●	●	
	23	TK01292	●	●	●	●	●	●	●	
	23.5	TK01293	●	●	●	●	●	●	●	
	24	TK01294	●	●	●	●	●	●	●	
	24.5	TK01295	●	●	●	●	●	●	●	
	25	TK01296	●	●	●	●	●	●	●	
	25.5	TK01297	●	●	●	●	●	●	●	
	26	TK01298	●	●	●	●	●	●	●	
	26.5	TK01299	●	●	●	●	●	●	●	
	27	TK01300	●	●	●	●	●	●	●	
	28	TK01301	●	●	●	●	●	●	●	
	29	TK01302	●	●	●	●	●	●	●	
	30	TK01303	●	●	●	●	●	●	●	
	31	TK01304	●	●	●	●	●	●	●	
	32	TK01305	●	●	●	●	●	●	●	
	33	TK01306	●	●	●	●		●	●	
	34	TK01307	●	●	●	●		●	●	
	35	TK01308	●	●	●	●		●	●	
	36	TK01309	●		●	●		●	●	
	37	TK01310	●		●	●		●	●	
	38	TK01311	●		●	●		●	●	
	39	TK01312	●		●	●		●	●	
	40	TK01313	●		●	●		●	●	
	41	TK01314	●			●		●	●	
	42	TK01315	●			●		●	●	
	43	TK01316	●			●		●	●	
	44	TK01317	●			●		●	●	
	45	TK01318	●			●		●	●	
	46	TK01319	●			●		●	●	
	47	TK01320	●			●		●	●	
	48	TK01321	●			●		●	●	
	49	TK01322	●			●		●	●	
	50	TK01323	●			●		●	●	
	51	TK01324				●		●	●	
	52	TK01325				●		●	●	
	53	TK01326				●		●	●	
	54	TK01327				●		●	●	
	55	TK01328				●		●	●	
	56	TK01329							●	
	57	TK01330							●	
	58	TK01331							●	
	59	TK01332							●	
	60	TK01333							●	
	61	TK01334							●	
	62	TK01335							●	
	63	TK01336							●	
	64	TK01337							●	
	65	TK01338							●	

JETBROACH One-touch Type
50L(W) for stacked plates

Depth	mm dia.	PN	ARA-100A	LO-3550	WOJ-3200	AO-5575A	Pilot Pin
50 mm	18	TK01068	●	●	●	●	08050
	22	TK00622	●	●	●	●	
	24	TK00623	●	●	●	●	
	24.5	TK00631	●	●	●	●	
	25	TK00624	●	●	●	●	
	26	TK00625	●	●	●	●	
	26.5	TK00632	●	●	●	●	
	28	TK00626	●	●	●	●	
	32	TK00627	●	●	●	●	
	35	TK00628	●	●		●	

JETBROACH One-touch Type

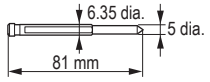
Depth	mm dia.	PN	ARA-100A	WA-5500	AO-5575A	Pilot Pin
75 mm	17.5	TK01350	●	●	●	08075
	18	TK01351	●	●	●	
	19	TK01352	●	●	●	
	20	TK01353	●	●	●	
	21	TK01354	●	●	●	
	22	TK01355	●	●	●	
	23	TK01356	●	●	●	
	24	TK01357	●	●	●	
	24.5	TK01358	●	●	●	
	25	TK01359	●	●	●	
	26	TK01360	●	●	●	
	26.5	TK01361	●	●	●	
	27	TK01362	●	●	●	
	28	TK01363	●	●	●	
	29	TK01364	●	●	●	
	30	TK01365	●	●	●	
	31	TK01366	●	●	●	
	32	TK01367	●	●	●	
	33	TK01368	●	●	●	
	34	TK01369	●	●	●	
	35	TK01370	●	●	●	
	36	TK01371	●	●	●	
	37	TK01372	●	●	●	
	38	TK01373	●	●	●	
	39	TK01374	●	●	●	
	40	TK01375	●	●	●	
	41	TK01376	●	●	●	
	42	TK01377	●	●	●	
	43	TK01378	●	●	●	
	44	TK01379	●	●	●	
	45	TK01380	●	●	●	
	46	TK01381	●	●	●	
	47	TK01382	●	●	●	
	48	TK01383	●	●	●	
	49	TK01384	●	●	●	
	50	TK01385	●	●	●	
	51	TK01386		●	●	
	52	TK01387		●	●	
	53	TK01388		●	●	
	54	TK01389		●	●	
	55	TK01390		●	●	

JETBROACH Side-lock Type

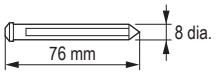
Depth	mm dia.	PN	ARA-100A	Pilot Pin
75 mm	50	TK01433	●	12075
	51	TK01434	●	
	52	TK01435	●	
	53	TK01436	●	
	54	TK01437	●	
	55	TK01438	●	
	56	TK01439	●	
	57	TK01440	●	
	58	TK01441	●	
	59	TK01442	●	
	60	TK01443	●	
	61	TK01444	●	
	62	TK01445	●	
	63	TK01446	●	
	64	TK01447	●	
	65	TK01448	●	
	66	TK01449	●	
	67	TK01450	●	
	68	TK01451	●	
	69	TK01452	●	
	70	TK01453	●	
	71	TK01454	●	
	72	TK01455	●	
	73	TK01456	●	
	74	TK01457	●	
	75	TK01458	●	
	76	TK01459	●	
	77	TK01460	●	
	78	TK01461	●	
	79	TK01462	●	
	80	TK01463	●	
	81	TK01464	●	
	82	TK01465	●	
	83	TK01466	●	
	84	TK01467	●	
	85	TK01468	●	
	86	TK01469	●	
	87	TK01470	●	
	88	TK01471	●	
	89	TK01472	●	
	90	TK01473	●	
	91	TK01474	●	
	92	TK01475	●	
	93	TK01476	●	
	94	TK01477	●	
	95	TK01478	●	
	96	TK01479	●	
	97	TK01480	●	
	98	TK01481	●	
	99	TK01482	●	
	100	TK01483	●	

Pilot Pin

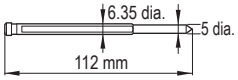
06025 PN : TK01167



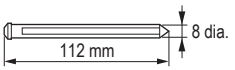
08025 PN : TK01486



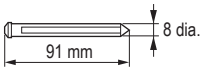
06050 PN : TK01166



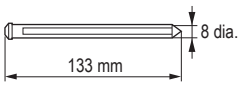
08050 PN : TK01488



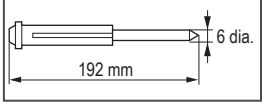
08035 PN : TK01487



08075 PN : TJ17436



12075 PN : TA9A207



Sales Unit: 1 Piece

Oil Cup Complete Ass'y
PN : TB00350



BROACH HOLDERS

Industrial cutters for faster and better finished holes

- The Spring-loaded pilot pin picks up the hole location quickly, and ejects the slug automatically at the end of cut
- Available with No. 2 to 4 Morse taper shanks
- Oil Cup Complete Ass'y (PN TB00350) is available as an optional attachment which provides continuous and adjustable cutting oil flow to the cutting area



BHM-02035



BHM-03050



BHM-13075



BHM-14075

Specifications

Morse Taper No.	M.T.No.2			M.T.No.3							M.T.No.4
Model	BHM-02035			BHM-03050						BHM-13075	BHM-14075
PN	TB00390			TB00392						TB00352	TB00354
Cutter	HBO-25L		JBO-35L	HBO-25L		HBO-50L		JBO-35L	JBO-50L	JBO-50L(W)	JBS-75L
Cutter Diameter	12 to 17 dia.	17.5 to 35 dia.	17.5 to 40 dia.	12 to 17 dia.	17.5 to 52 dia.	12 to 18 dia.	19 to 52 dia.	17.5 to 40 dia.	17.5 to 65 dia.	18 to 35 dia.	50 to 100 dia.
Pilot Pin	06025	08025	08035	06025	08025	06050	08050	08035	08050		12075
	Optional		Included	Optional				Included	Optional		Included

HBO: HI-BROACH One-touch Type JBO: JETBROACH One-touch Type JBS: JETBROACH Side-lock Type

Portable Double-Acting Hydraulic Puncher

SELFER ACE

Double acting hydraulic system allows automatic and inching (manual mode) operation.

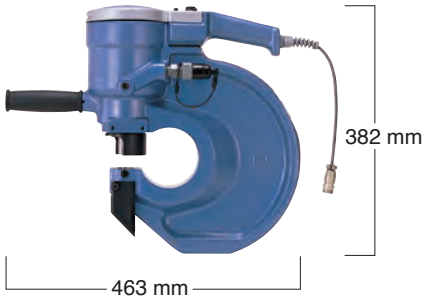
*CE model is available without auto-return function.

• Applicable for both mild steel and stainless steel punching

YouTube

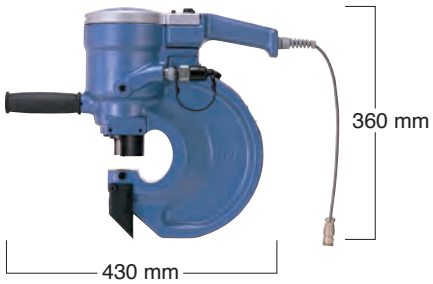
Model HS11-1624 Non-CE/ CE*

- Max. punching thickness: 16 mm
- Max. punching diameter: 24 mm
- Max. throat depth: 110 mm



Model HS07-1624 Non-CE/ CE*

- Max. punching thickness: 16 mm
- Max. punching diameter: 24 mm
- Max. throat depth: 70 mm



Model HS06-1322 Non-CE/ CE*

- Max. punching thickness: 13 mm
- Max. punching diameter: 22 mm
- Max. throat depth: 60 mm



Specifications

Model			HS11-1624		HS07-1624		HS06-1322	
Max. Throat Depth		mm	110		70		60	
Punching Capacity	Material		Mild Steel	Stainless Steel	Mild Steel	Stainless Steel	Mild Steel	Stainless Steel
	Max. Punching Thickness*	mm	16	6	16	6	13	6
	Max. Punching Diameter	mm	24				22	
Hole Making time	Punching Time	sec.	11.8				7.9	
	Returning Time	sec.	5.7				3.4	
Allowable Max. Pressure		MPa (kgf/cm²)	68.65 (700)					
Max. Output		kN (tf)	464 (47)				367 (37)	
Ram Stroke		mm	25				21	
Mass (Weight)		kg	30		25.5		20.5	
Accessories Included			• D Punch 22 (Installed) • D Die 22 (Installed) • Sub Handle • Ultra-high Pressure Hose	• Hose Cord Ass'y • Chip Guard Ass'y • Spanner • 12 mm Spanner	• 4 mm Hex Socket Screw Key • 5 mm Hex Socket Screw Key • Tool Box			

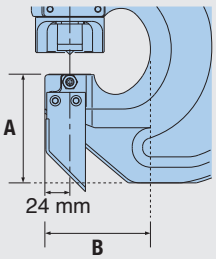
*Mild steel: Maximum punching thickness must be calculated by the equation 0.8 x punching diameter.
*Stainless steel: Maximum punching thickness must be calculated by the equation 0.5 x punching diameter. For the details see the instruction manual.

Optional Accessories

PN	Description	Sales Unit
TB02506	Hose Kit Ass'y *1	1 set
TP05184	Ultra-high Pressure Hose 5 m *2	1 piece
TB02390	Switch Cord Ass'y 5 m	1 set
TP05777	Ultra-high Pressure Hose 10 m *2	1 piece
TB02545	Switch Cord Ass'y 10 m	1 set
TB02141	Foot Switch Ass'y	1 set
TA92729	4L Oil Can	1 piece
TB02142	Hook Clamp Ass'y	1 set
TA99037	Lock Nut Ass'y for 25 mm Punch	1 set
TQ01279	Hex Set Screw 8 x 14 for Securing Oblong Hole D Dies	1 piece

*1: The Hose Kit Ass'y consists of two Ultra-high Pressure Hoses with CUPLA and a Switch Cord Ass'y.
*2: CUPLA is not provided with the Ultra-high Pressure Hose.

Dimension from Edge to Punch Center



(Max. throat depth from punch center) = (B) - 24

	A	B
HS11-1624	127	134
HS07-1624	105	94
HS06-1322	84	85



HYDRAULIC PUMP for SELFER ACE

Model HPD-05 Non-CE/ CE*

- Double-acting



Specifications

Model		HPD-05	
Power Source (Single Phase)		115 V / 230 V AC	
Max. Output Pressure	MPa (kgf/cm²)	68.65 (700)	
Output		50 Hz	60 Hz
At No-load	L/min	1.20	1.44
At 68.65 MPa	L/min	0.55	0.66
Motor		0.4 kW 4P	
Reservoir Capacity	L	4.0	
Discharge Port		Rc 3/8	
Electro-Magnetic Valve		4 way 3 position valve	
Mass (Weight)	kg	32.5	

*CE model is available without auto-return function.

Portable Single-Acting Hydraulic Puncher

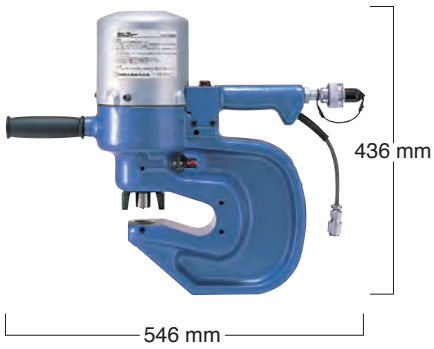
SELFER HA Type

Punch, return, and reset operations are fully automatic. An emergency switch returns the punch at any time.

• Will punch both round and oblong holes

Model HA11-1624 Non-CE

- Max. punching thickness: 16 mm
- Max. punching diameter: 24 mm
- Max. throat depth: 110 mm



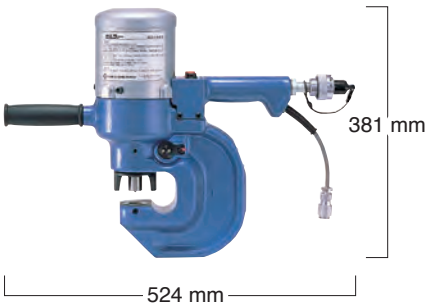
Model HA07-1624 Non-CE

- Max. punching thickness: 16 mm
- Max. punching diameter: 24 mm
- Max. throat depth: 70 mm



Model HA06-1322 Non-CE

- Max. punching thickness: 13 mm
- Max. punching diameter: 22 mm
- Max. throat depth: 60 mm



Specifications

Model			HA11-1624	HA07-1624	HA06-1322
Max. Throat Depth		mm	110	70	60
Punching Capacity	Material		Mild Steel		
	Max. Punching Thickness*1	mm	16		13
	Max. Punching Diameter	mm	24		22
Hole Making Time*2		sec.	16.5		10.5
Allowable Max. Pressure		MPa (kgf/cm²)	68.65 (700)		
Max. Output		kN (tf)	431 (44)		304 (31)
Ram Stroke		mm	25		21
Mass (Weight)		kg	35.5	28.5	21.5
Accessories Included			• D Punch 22 (Installed) • D Die 22 (Installed) • Sub Handle • Hose Cord Ass'y • Spanner • 4 mm Hex Socket Screw Key • Tool Box		

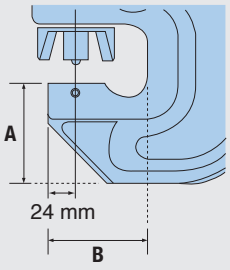
*1: Mild steel: Maximum punching thickness must be calculated by the equation 0.8 x punching diameter. Stainless steel and hard materials cannot be punched. For the details see the instruction manual.
*2: The hole making time may vary depending on the temperature of the hydraulic oil during operation.

Optional Accessories

PN	Description	Sales Unit
TA96534	Hose Kit Ass'y 5 m *1	1 set
TP05184	Ultra-high Pressure Hose 5 m *2	1 piece
TA93778	Switch Cord Ass'y 5 m	1 set
TA9B044	Hose Kit Ass'y 10 m *1	1 set
TP05777	Ultra-high Pressure Hose 10 m *2	1 piece
TA95307	Switch Cord Ass'y 10 m	1 set
TA94386	Foot Switch Ass'y	1 set
TA92729	4L Oil Can	1 piece
TA96342	Hook Clamp Ass'y for HA07-1624 and HA11-1624	1 set
TA99037	Lock Nut Ass'y for 25 mm Punch	1 set
TQ01279	Hex Set Screw 8 x 14 for Securing Oblong Hole D Dies	1 piece

*1: The Hose Kit Ass'y consists of an Ultra-high Pressure Hose with CUPLA and a Switch Cord Ass'y.
*2: CUPLA is not provided with the Ultra-high Pressure Hose.

Dimension from Edge to Punch Center



(Max. throat depth from punch center) = (B) - 24

	A	B
HA11-1624	111	134
HA07-1624	93	94
HA06-1322	83	84



HYDRAULIC PUMP for SELFER HA Type

Model SC-05 Non-CE

- Single-acting



Specifications

Model		SC-05	
Power Source (Single Phase)		115 V / 230 V AC	
Max. Output Pressure	MPa (kgf/cm²)	68.65 (700)	
Output		50 Hz	60 Hz
At No-load	L/min	1.20	1.44
At 68.65 MPa	L/min	0.55	0.66
Motor		0.4 kW 4P	
Reservoir Capacity	L	4.0	
Discharge Port		Rc 3/8	
Mass (Weight)	kg	27.5	

Electrically Operated Hydraulic Puncher

HANDY SELFER

Self-contained hydraulic punch shows its power in making round or elongated holes in flat bar, angle bar or channel iron.

Model E25-0615 Non-CE

Double insulation

- Double insulation
- E punch and E die
- Max. punching thickness: 6 mm
- Max. punching diameter: 15 mm
- Max. throat depth: 25 mm



Model E55-0619 Non-CE

- EL punch and EL die
- Max. punching thickness: 6 mm
- Max. punching diameter: 19 mm
- Max. throat depth: 55 mm



Specifications

Model			E25-0615	E55-0619	
Power Source (Single Phase)			220 - 240 V AC, 50/60 Hz	110 - 120 V AC, 50/60 Hz	220 - 240 V AC, 50/60Hz
Max. Throat Depth		mm	25	55	
Motor	Rated Power Consumption	W	305	670	
	Rated Current	A	1.4	6.0	3.0
Punching Capacity	Material		Mild Steel		
	Max. Punching Diameter	mm	15	19	
	Max. Punching Thickness	mm	6	6	
Punching time		sec (single pass)	4	2	
Power Cord Length		m	2.4		
Mass (Weight)		kg	7.0	14	
Accessories Included			• E Punch 15 (Installed) • E Die 15A • E Die 15B (Installed) • Sub Handle • 2.5 mm Hex Socket Screw Key • 4 mm Hex Socket Screw Key • 10 x 12 mm Spanner • Auxiliary Oil 40 cc • Tool Box • Spanner 8	• EL Punch 18 (Installed) • EL Die 18A • EL Die 18B (Installed) • Sub Handle • 3 mm Hex Socket Screw Key • 4 mm Hex Socket Screw Key • 5 mm Hex Socket Screw Key • 10 x 12 mm Spanner • Stand Ass'y • Auxiliary Oil 40 cc • Tool Box	

Optional Accessory (E25-0615)

PN	Description	Sales Unit
TB00800	Stand Ass'y	1 set

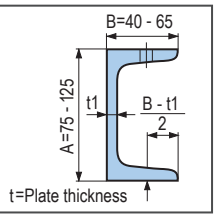


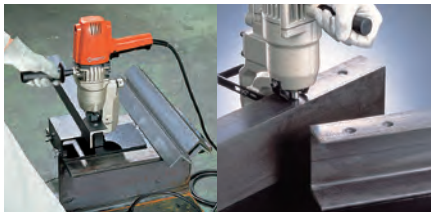
Die Selection

E Die and EL Die	Punching Thickness (mm)		Model
	Mild Steel	Stainless Steel	
Round Hole E Die A (for Thin Sheets)	2 to 3.2	Max. 3	E25-0615
Round Hole E Die B (for Thick Sheets)	4 to 6	Max. 4	
Round Hole EL Die A (for Thin Sheets)	2 to 3.2	Max. 3	E55-0619
Round Hole EL Die B (for Thick Sheets)	4 to 6	Max. 4	
Round Hole EL Die C (for Channel Iron)	7 to 8	-	

Punching Capacity in Channel Iron (E55-0619)

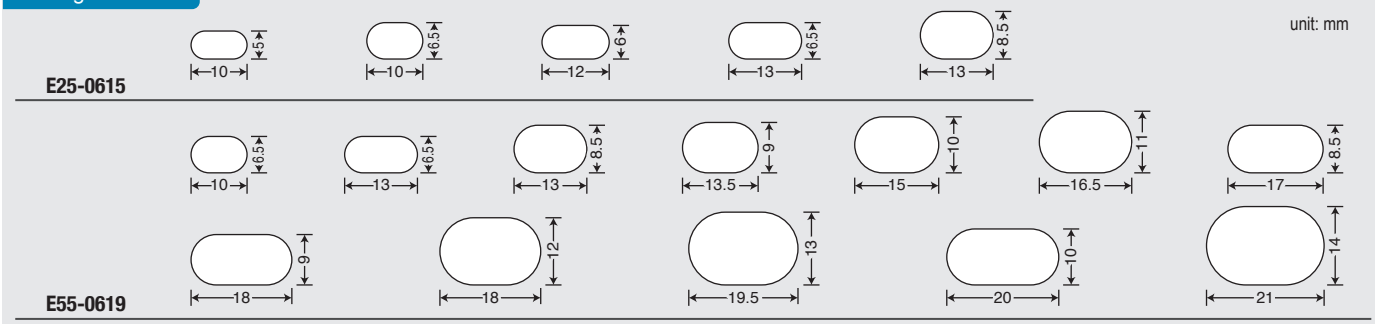
Punching Dia. / Size	10 OD	11 OD	12 OD	13 OD	14 OD	15 OD	16 OD
75 x 40 t7	○	○	○	○	○	○	○
100 x 50 t7.5	○	○	○	○	○	○	-
125 x 65 t8	○	○	○	○	○	-	-





Oblong Hole Size

unit: mm

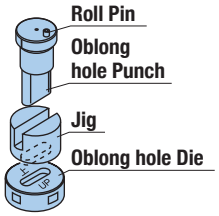


Punches & Dies for SELFER Puncher

FOR HS06-1322/HS07-1624/HS11-1624/HA06-1322/HA07-1624/HA11-1624

Oblong hole D Punch		Oblong hole D Die		Oblong hole Jig	
PN	Size	PN	Size	PN	Size
TK01512	D Punch 16 x 8	TK01544	D Die 16 x 8	TK01694	Jig 16 x 8
TK01513	D Punch 18 x 9	TK01545	D Die 18 x 9	TK01695	Jig 18 x 9
TK01514	D Punch 20 x 10	TK01546	D Die 20 x 10	TK01696	Jig 20 x 10
TK01515	D Punch 22 x 11	TK01547	D Die 22 x 11	TK01697	Jig 22 x 11
TK01516	D Punch 24 x 12	TK01548	D Die 24 x 12	TK01698	Jig 24 x 12
TK01517	D Punch 25 x 9*	TK01549	D Die 25 x 9	TK01699	Jig 25 x 9
TK01518	D Punch 25 x 12*	TK01550	D Die 25 x 12	TK01700	Jig 25 x 12
TK01519	D Punch 25 x 14*	TK01551	D Die 25 x 14	TK01701	Jig 25 x 14
TK01520	D Punch 25 x 18*	TK01552	D Die 25 x 18	TK01702	Jig 25 x 18

*TA99037 Lock Nut Ass'y is required for Oblong hole D Punch 25 x 9 / 12 / 14 / 18



Optional Accessories

PN	Description	Sales Unit
TQ01279	Hex Set Screw 8 x 14 for Securing Oblong Hole Dies	1 piece
TA99037	Lock Nut Ass'y for 25 mm Punch	1 set
TA99036	Lock Nut Ass'y*	
TP06012	Spanner for removing Lock Nut*	1 piece

*Installed in SELFER ACE and HA Type as standard.

Lock Nut Ass'y for 25 mm Punch



Lock Nut Ass'y

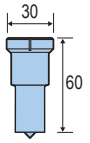


Spanner for removing Lock Nut

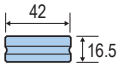


FOR HS06-1322/HS07-1624/HS11-1624/HA06-1322/HA07-1624/HA11-1624

Round hole D Punch		Round hole D Die	
PN	Size	PN	Size
TK01489	D Punch 8	TK01521	D Die 8
TK01490	D Punch 9	TK01522	D Die 9
TK01491	D Punch 10	TK01523	D Die 10
TK01492	D Punch 11	TK01524	D Die 11
TK01493	D Punch 12	TK01525	D Die 12
TK01494	D Punch 13	TK01526	D Die 13
TK01495	D Punch 14	TK01527	D Die 14
TK01496	D Punch 14.5	TK01528	D Die 14.5
TK01497	D Punch 15	TK01529	D Die 15
TK01498	D Punch 16	TK01530	D Die 16
TK01499	D Punch 17	TK01531	D Die 17
TK01500	D Punch 17.5	TK01532	D Die 17.5
TK01501	D Punch 18	TK01533	D Die 18
TK01502	D Punch 19	TK01534	D Die 19
TK01503	D Punch 20	TK01535	D Die 20
TK01504	D Punch 20.5	TK01536	D Die 20.5
TK01505	D Punch 21	TK01537	D Die 21
TK01506	D Punch 21.5	TK01538	D Die 21.5
TK01507	D Punch 22	TK01539	D Die 22
TK01508	D Punch 23	TK01540	D Die 23
TK01509	D Punch 23.5	TK01541	D Die 23.5
TK01510	D Punch 24	TK01542	D Die 24
TK01511	D Punch 25	TK01543	D Die 25



D Punches

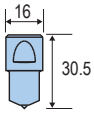


D Dies

• TA99037 Lock Nut Ass'y is required for D Punch 25

FOR E25-0615

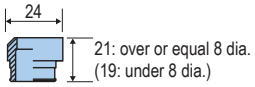
Round hole E Punch		Round hole E Die (Type A for thin sheets)		Round hole E Die (Type B for thick sheets)	
PN	Size	PN	Size	PN	Size
TK01553	E Punch 4	TK01571	E Die 4A	-	-
TK01554	E Punch 5	TK01572	E Die 5A	TK01584	E Die 5B
TK01555	E Punch 5.5	TK01573	E Die 5.5A	TK01585	E Die 5.5B
TK01556	E Punch 6	TK01574	E Die 6A	TK01586	E Die 6B
TK01557	E Punch 6.5	TK01575	E Die 6.5A	TK01587	E Die 6.5B
TK01558	E Punch 8	TK01576	E Die 8A	TK01588	E Die 8B
TK01559	E Punch 8.5	TK01577	E Die 8.5A	TK01589	E Die 8.5B
TK01560	E Punch 10	TK01578	E Die 10A	TK01590	E Die 10B
TK01561	E Punch 11	TK01579	E Die 11A	TK01591	E Die 11B
TK01562	E Punch 12	TK01580	E Die 12A	TK01592	E Die 12B
TK01563	E Punch 13	TK01581	E Die 13A	TK01593	E Die 13B
TK01564	E Punch 14	TK01582	E Die 14A	TK01594	E Die 14B
TK01565	E Punch 15	TK01583	E Die 15A	TK01595	E Die 15B
Oblong hole E Punch		**Oblong hole E Die (Type A for thin sheets)**		**Oblong hole E Die (Type B for thick sheets)**	
PN	Size	PN	Size	PN	Size
TK01566	E Punch 10 x 5	TK01596	E Die 10 x 5A	TK01601	E Die 10 x 5B
TK01567	E Punch 10 x 6.5	TK01597	E Die 10 x 6.5A	TK01602	E Die 10 x 6.5B
TK01568	E Punch 12 x 6	TK01598	E Die 12 x 6A	TK01603	E Die 12 x 6B
TK01569	E Punch 13 x 6.5	TK01599	E Die 13 x 6.5A	TK01604	E Die 13 x 6.5B
TK01570	E Punch 13 x 8.5	TK01600	E Die 13 x 8.5A	TK01605	E Die 13 x 8.5B



E Punches



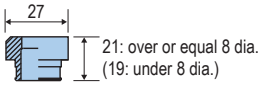
Front view of E Dies Type A



Side face of E Dies Type A



Front view of E Dies Type B

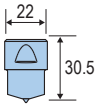


Side face of E Dies Type B

FOR E55-0619

Oblong hole EL Punch		Oblong hole EL Die (Type A for thin sheets)		Oblong hole EL Die (Type B for thick sheets)	
PN	Size	PN	Size	PN	Size
TK01621	EL Punch 10 x 6.5	TK01670	EL Die 10 x 6.5A	TK01682	EL Die 10 x 6.5B
TK01622	EL Punch 13 x 6.5	TK01671	EL Die 13 x 6.5A	TK01683	EL Die 13 x 6.5B
TK01623	EL Punch 13 x 8.5	TK01672	EL Die 13 x 8.5A	TK01684	EL Die 13 x 8.5B
TK01624	EL Punch 13.5 x 9	TK01673	EL Die 13.5 x 9A	TK01685	EL Die 13.5 x 9B
TK01625	EL Punch 15 x 10	TK01674	EL Die 15 x 10A	TK01686	EL Die 15 x 10B
TK01626	EL Punch 16.5 x 11	TK01675	EL Die 16.5 x 11A	TK01687	EL Die 16.5 x 11B
TK01627	EL Punch 17 x 8.5	TK01676	EL Die 17 x 8.5A	TK01688	EL Die 17 x 8.5B
TK01628	EL Punch 18 x 9	TK01677	EL Die 18 x 9A	TK01689	EL Die 18 x 9B
TK01629	EL Punch 18 x 12	TK01678	EL Die 18 x 12A	TK01690	EL Die 18 x 12B
TK01630	EL Punch 19.5 x 13	TK01679	EL Die 19.5 x 13A	TK01691	EL Die 19.5 x 13B
TK01631	EL Punch 20 x 10	TK01680	EL Die 20 x 10A	TK01692	EL Die 20 x 10B
TK01632	EL Punch 21 x 14	TK01681	EL Die 21 x 14A	TK01693	EL Die 21 x 14B

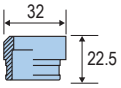
Round hole EL Punch		Round hole EL Die (Type A for thin sheets)		Round hole EL Die (Type B for thick sheets)		Round hole EL Die (Type C for channel iron)	
PN	Size	PN	Size	PN	Size	PN	Size
TK01606	EL Punch 6	TK01633	EL Die 6A	TK01648	EL Die 6B	-	-
TK01607	EL Punch 6.5	TK01634	EL Die 6.5A	TK01649	EL Die 6.5B	-	-
TK01608	EL Punch 8	TK01635	EL Die 8A	TK01650	EL Die 8B	-	-
TK01609	EL Punch 8.5	TK01636	EL Die 8.5A	TK01651	EL Die 8.5B	-	-
TK01610	EL Punch 10	TK01637	EL Die 10A	TK01652	EL Die 10B	TK01663	EL Die 10C
TK01611	EL Punch 11	TK01638	EL Die 11A	TK01653	EL Die 11B	TK01664	EL Die 11C
TK01612	EL Punch 12	TK01639	EL Die 12A	TK01654	EL Die 12B	TK01665	EL Die 12C
TK01613	EL Punch 13	TK01640	EL Die 13A	TK01655	EL Die 13B	TK01666	EL Die 13C
TK01614	EL Punch 14	TK01641	EL Die 14A	TK01656	EL Die 14B	TK01667	EL Die 14C
TK01615	EL Punch 15	TK01642	EL Die 15A	TK01657	EL Die 15B	TK01668	EL Die 15C
TK01616	EL Punch 16	TK01643	EL Die 16A	TK01658	EL Die 16B	TK01669	EL Die 16C
TK01617	EL Punch 17	TK01644	EL Die 17A	TK01659	EL Die 17B	-	-
TK01618	EL Punch 18	TK01645	EL Die 18A	TK01660	EL Die 18B	-	-
TK01619	EL Punch 18.5	TK01646	EL Die 18.5A	TK01661	EL Die 18.5B	-	-
TK01620	EL Punch 19	TK01647	EL Die 19A	TK01662	EL Die 19B	-	-



EL Punches



Front view of EL Dies Type A, B & C



Side face of EL Dies Type A, B & C

Sales Unit: 1 Piece

Nitto Kohki Tools for Professional Use

	Chamfering	Scaling & Chipping	Grinding & Sanding	Flat Sanding
Machining & Molding	◎	●	●	●
Sheet-metal Working	●	●	●	●
Welding	●	◎	●	
Painting	●		●	
Steel Fabricating & Can Manufacturing	●	●	●	●
Molding & Die-casting	●	●	●	●
Bridges & Ship Building	●	●	●	●
Plant Construction & Piping		●	●	●
Wood Working & Art			●	●
Automotive & Painting	●	●	●	◎
Construction		◎	●	

◎ : Best Suited
● : Suited

HAND BEVELER



P25

MINI BEVELER



P25 - 27

CIRCUIT BEVELER



P27 - 28

AIR CHIPPER



P30

AUTO CHISEL



P31

SUPER KELEN



P32

JET CHISEL



P33 - 34

MYTON



P35 - 36

BELTON



P37 - 40

COMPACT MULTI SANDER



P41

FREE SANDER



P42

LINE SANDER



P42

ORBITAL SANDER



P43

PALM ORBITAL SANDER



P43

Precision Grinding	Filing	Deburring	Cutting	Drilling
◎	◎	◎	●	◎
●	●	●	●	
		●		
●	●	●	●	●
●	●	●		
●	●	●	●	●
●	●		●	●
●	●	●	●	●
●	●	●	●	●















Description: Machine Oil ISO VG10 (2 pcs/set)
PN: TB11550-0
Contents: 40 ml



Before and after using air tools, please apply 5 to 6 drops of oil to the air inlet and operate it for a few seconds.

Guide for Selecting Portable Chamfering Tools

Select the model according to the conditions of chamfering capacity, electrical or pneumatic tool required, and materials to be chamfered.

Electric / Pneumatic — Max. Chamfering Capacity for Mild Steel



For straight edges
Model **HB-15B**
Up to 15 mm Chamfer
(Max. chamfering capacity for one-cut is 7C)

15C



For straight edges
Model **EMB-0307C**
Up to 7 mm Chamfer or 2, 3, 4 mm Radius
(Max. chamfering capacity for one-cut is 4C)





For straight edges
Model **AMBL-0307/ AMB-0307**
Up to 7 mm Chamfer or 2, 3, 4 mm Radius
(Max. chamfering capacity for one-cut is 4C)

7C



For straight edges
Model **MB-03A**
Up to 3 mm Chamfer or 2 and 3 mm Radius

3C



For curved edges
Model **ECB-0203**
Up to 3 mm Chamfer or 2 and 3 mm Radius



For curved edges
Model **CB-02**
Up to 2 mm Chamfer or 2 mm Radius

2C





For curved edges
Model **CB-01**
Up to 1 mm Chamfer or 1 mm Radius

1C

Applicable to stainless steel chamfering

Electric / Pneumatic — Max. Chamfering Capacity for Stainless Steel



For straight edges
Model **EMB-0307C**
Up to 3 mm Chamfer or
2, 3, 4 mm Radius



For straight edges
Model **AMBL-0307/ AMB-0307**
Up to 3 mm Chamfer or
2, 3, 4 mm Radius

3C



For curved edges
Model **ECB-0203**
Up to 1.5 mm Chamfer
or 2 mm Radius

1.5C



For curved edges
Model **CB-01**
Up to 0.5 mm Chamfer
(with optional indexable insert)

0.5C

Applicable to aluminum chamfering

Pneumatic — Max. Chamfering Capacity for Aluminum

C1



For curved edges
Model **CB-01**
Up to 1 mm Chamfer
(with optional indexable insert)

C0



For curved edges

Pneumatic



For bridge and shipbuilding applications

With locking throttle lever
Model **CBR-03**

Exclusive for 3 mm Radius Chamfering

HAND BEVELER
Model **HB-15B**
- Mild steel: 15C

MINI BEVELER
Model **EMB-0307C**
- Mild steel: 7C, 4R
- Stainless steel: 3C, 4R

MINI BEVELER
Model **MB-03A**
- Mild steel: 3C, 3R

CIRCUIT BEVELER
Model **ECB-0203**
- Mild steel: 3C, 3R
- Stainless steel: 1.5C, 2R

For further information, see the following pages.

P25 for Model HB-15B
P25 for Model EMB-0307C
P26 for Model MB-03A
P26 for Model ECB-0203

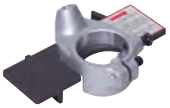





Specifications

Model		ELECTRIC			
		HB-15B	EMB-0307C	MB-03A	ECB-0203
Power Source (Single Phase)		220 - 240 V AC 50/60 Hz 110 - 120 V AC 50/60 Hz	230 V AC 50/60 Hz 115 V AC 50/60 Hz	220 - 240 V AC 50/60 Hz	220 - 240 V AC 50/60 Hz
Rated Power Consumption	W	910	900	430	450
Duty Cycle	min	Continuous	30	30	
No-load Speed	min^{-1}(rpm)	2750 (220 - 240 V) 3340 (110 - 120 V)	12700 (220 - 240 V) 13300 (110 - 120 V)	11000	11000
Chamfering Capacity	Mild Steel	Up to 15 mm Chamfer *1	Up to 7 mm Chamfer *2 2, 3, 4 mm Radius	Up to 3 mm Chamfer 2 and 3 mm Radius	
	Stainless Steel	–	Up to 3 mm Chamfer 2, 3, 4 mm Radius	–	Up to 1.5 mm Chamfer 2 mm Radius
Chamfer Angle		15° - 45°		45°	
Mass (Weight)	kg	15.0	3.9	2.5	
Optional Accessories		• TA9A728 Pipe Plate Ass'y for Pipe Outer Edge Beveling (Pipe O.D. 125 to 800 mm)	• TB02539 Attachment for Pipe Outer Edge Beveling (Pipe O.D. 80 to 200 mm) *Pipe O.D. more than 200 mm can be chamfered with the standard accessory.	• TA9A594 Inner Head Ass'y for Pipe Inner Edge Beveling (Minimum Inner Pipe Diameter : 100 mm)	• TB03097 Plate Ass'y for Straight Edge Beveling • TB02862 Dust Box Ass'y Used with TB03097 Plate Ass'y • TB02857 Guide Sleeve 24 mm Dia. Ass'y








*1: Max. chamfering capacity for one-cut is 7C. *2: Max. chamfering capacity for one-cut is 4C.

MINI BEVELER
Model **AMBL-0307** (Lever)
Model **AMB-0307** (Ring)
- Mild steel: 7C, 4R
- Stainless steel: 3C, 4R

CIRCUIT BEVELER
Model **CB-01**
- Mild steel: 1C, 1R
- Stainless steel: 0.5C*
- Aluminum: 1C*

CIRCUIT BEVELER
Model **CB-02**
- Mild steel: 2C, 2R

CIRCUIT BEVELER
Model **CBR-03**
- Mild steel: 3R

For further information, see the following pages.

P27 for Model AMBL-0307/AMB-0307
P27 for Model CB-01
P28 for Model CB-02
P28 for Model CBR-03






Specifications

Model		PNEUMATIC			
		AMBL-0307/AMB-0307	CB-01	CB-02	CBR-03
Air Pressure	MPa (kgf/cm^2)	0.6 (6)			
Air Consumption (No Load)	m^3/min	0.9	0.15	0.40	0.65
Free Speed	min^{-1}(rpm)	14000	28000	15000	12000
Chamfering Capacity	Mild Steel	Up to 7 mm Chamfer *1 2, 3, 4 mm Radius	Up to 1 mm Chamfer 1 mm Radius	Up to 2 mm Chamfer 2 mm Radius	3 mm Radius
	Stainless Steel	Up to 3 mm Chamfer 2, 3, 4 mm Radius	Up to 0.5 mm Chamfer *2	–	
	Aluminum	–	Up to 1 mm Chamfer *2	–	
Chamfer Angle		15° to 45°	45°		–
Mass (Weight)	kg	2.9	0.5	1.8	2
Optional Accessories		• TB02539 Attachment for Pipe Outer Edge Beveling (Pipe O.D. 80 to 200 mm)	• TB09143 Plate Kit with linear guide • TB09140 Guide Plate 78 Ass'y for More Stable Operation	• TB02437 Thin Plate Attachment Ass'y (Minimum thickness 1.2 mm)	–






*1: Max. chamfering capacity for one-cut is 4C. *2: With optional indexable insert

For further information of optional Beveler accessories, see P29.

Portable Chamfering Tool

HAND BEVELER

Model HB-15B

110-120 V : CE
220-240 V : Non-CE

YouTube

Chamfering up to 15C

- Ideal for plate, pipe, and tube chamfering for welding preparation
- Chamfer width up to 15 mm at 45° angle using multiple passes
- 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
- High speed cutting action minimizes material hardening



15C
Mild Steel


Chamfering steel plates


Chamfering I-beams

Specifications

Model		HB-15B	
Power Source (Single Phase)		110 - 120 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz
Rated Power Consumption	W	910	
Rated Current	A	10.5	4
Duty Cycle	min	Continuous	
No-load Speed	min^{-1}(rpm)	3350	2750
Chamfering Capacity (Mild Steel)		Up to 15 mm Chamfer *	
Chamfer Angle		15° - 45°	
Power Cord Length	m	5	
Mass (Weight)	kg	15.0	
Installed Indexable Insert		12 pieces of Indexable Insert 12.7	

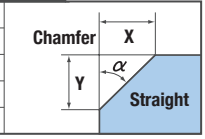
*Max. chamfering capacity for one-cut is 7C.

Accessories Included

- 12 pieces of Indexable Insert 12.7 (Installed)
- 12 pieces of Indexable Insert 12.7
- 4 mm Hex Socket Screw Key
- 5 mm Hex Socket Screw Key
- 6 mm Hex Socket Screw key
- 24 x 27 mm Spanner
- Hook Spanner 25 - 28
- 3 mm T Wrench
- Roller Bracket Ass'y
- Spacer A
- Spacer B
- Plate B

Chamfer Angle and Width

Chamfer Angle α	Mild Steel(mm) X	Mild Steel(mm) Y
45°	15	15
30°	9	15.5
15°	4	15.4



Handy Electric Chamfering Tool

MINI BEVELER

Model EMB-0307C CE

Double insulation

YouTube

Designed to chamfer stainless and mild steel

- Ideal for edge chamfering pipe, tube, and plate
- Adjustable to chamfer angles from 15° to 45°
- Chamfer width up to 7 mm on mild steel.
- Uses indexable carbide inserts
- Swarf and chip collection box included



7C
4R
Mild Steel

3C
4R
Stainless Steel

Specifications

Model		EMB-0307C	
Power Source (Single Phase) *1		115 V AC, 50/60 Hz	230 V AC, 50/60 Hz
Rated Power Consumption	W	900	
Rated Current	A	7.8	3.9
Duty Cycle	min	30	
No-load Speed	min^{-1}(rpm)	13300	12700
Chamfering Capacity	Mild Steel	Up to 7 mm Chamfer *2 or 2, 3, 4 mm Radius	
	Stainless Steel	Up to 3 mm Chamfer or 2, 3, 4 mm Radius	
Chamfer Angle		15° - 45°	
Power Cord Length	m	4.0	
Mass (Weight)	kg	3.9	
Installed Indexable Insert		Indexable Insert with Hole 12.7	

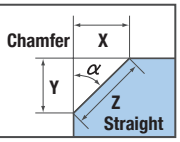
*1: 115 V available on request. *2: Max. chamfering capacity for one-cut is 4C.

Accessories Included

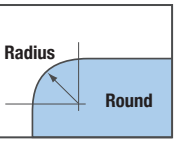
- Indexable Insert with Hole 12.7 (Installed)
- Indexable Insert Set Screw 4 x 7 (Installed)
- Indexable Insert with Hole 12.7
- Indexable Insert Set Screw 4 x 7
- Dust Box Ass'y
- Carbon Brush Ass'y
- 2 pieces of Hex Nut M8
- 2 pieces of Hex Socket Set Screw 8 x 25
- 3 pieces of Pan Head Screw 5 x 10
- 4 mm Hex Socket Screw Key
- Spanner T-15D

Chamfer Angle, Width and Radius

Chamfer Angle α	Mild Steel(mm) X	Y	Z	Stainless Steel(mm) X	Y	Z
45°	7	7	9.9	3	3	4.2
30°	3.8	6.6	7.6	2.2	3.8	4.4
15°	1.5	5.6	5.8	1	3.8	3.9



	Mild Steel(mm)	Stainless Steel(mm)
Radius	2, 3, 4	2, 3, 4



Handy Electric Chamfering Tool

MINI BEVELER

Model MB-03A Non-CE

Double insulation

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)



3C
3R
Mild Steel

Specifications

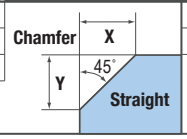
Model		MB-03A
Power Source (Single Phase)		230 V AC, 50/60 Hz
Rated Power Consumption	W	430
Rated Current	A	2
Duty Cycle	min	30
No-load Speed	min^{-1}(rpm)	11000
Chamfering Capacity (Mild Steel)		Up to 3 mm Chamfer or 2 mm and 3 mm Radius
Chamfer Angle		45°
Power Cord Length	m	2.5
Mass (Weight)	kg	2.5
Installed Indexable Insert		Indexable Insert 9.525 R2

Accessories Included

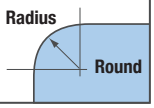
- Indexable Insert 9.525 R2 (Installed)
- Indexable Insert 9.525
- 3 mm Hex Socket Screw Key
- 4 mm Hex Socket Screw Key
- Spanner T-9D
- Hex Nut
- 2 pieces of Hex Socket Set Screw 8 x 25

Chamfer Angle, Width and Radius

Mild Steel(mm)	
X	Y
3	3



	Mild Steel(mm)
Radius	2, 3



Electric Radial Chamfering Tool

CIRCUIT BEVELER

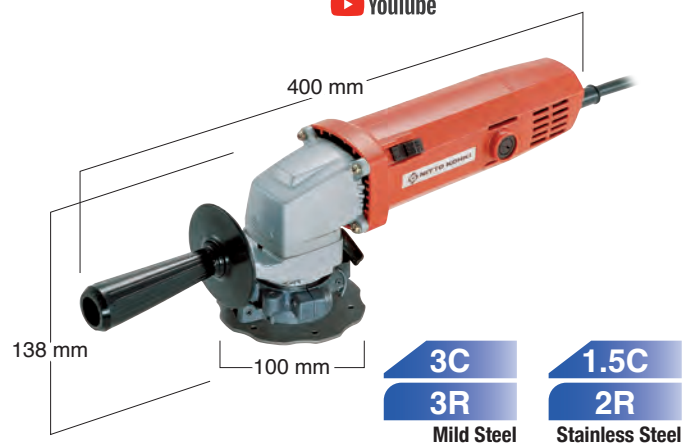
Model ECB-0203 CE

Double insulation

YouTube

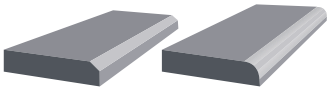
Smoothly chamfering straight and curved edges

- Designed to chamfer stainless and mild steel
- Minimum chamfering plate thickness is 2 mm (Max. 0.5 mm Chamfer)
- Indexable inserts have four working edges for good economy
- An optional Straight Plate allows chamfering a straight edge shoulder

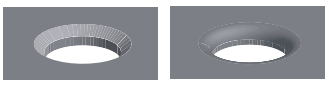


3C
3R
Mild Steel

1.5C
2R
Stainless Steel



Chamfering straight edges



Chamfering curved edges

Specifications

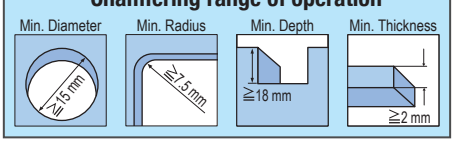
Model		ECB-0203
Power Source (Single Phase)		220 - 240 V AC, 50/60 Hz
Rated Power Consumption	W	450
Rated Current	A	2.1
Duty Cycle	min	30
No-load Speed	min^{-1}(rpm)	11000
Chamfering Capacity	Mild Steel	Up to 3 mm Chamfer or 2* and 3 mm Radius
	Stainless Steel	Up to 1.5 mm Chamfer or 2* mm Radius
Chamfer Angle		45°
Power Cord Length	m	2.5
Mass (Weight)	kg	2.5
Installed Indexable Insert		Indexable Insert with Hole 12.7

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

Accessories Included

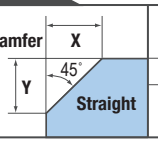
- Indexable Insert with Hole 12.7 (Installed)
- Indexable Insert Set Screw 4 x 7 (Installed)
- Indexable Insert with Hole 12.7
- Indexable Insert Set Screw 4 x 7
- Sub Handle
- Grip Guard
- Ball Bearing 687zz
- 5 mm Hex Socket Screw Key
- 8 x 10 mm Spanner
- Spanner T-15D
- Gauge C3

Chamfering range of operation

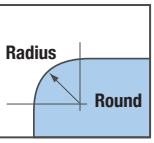


Chamfer Angle, Width and Radius

Mild Steel(mm)		Stainless Steel(mm)	
X	Y	X	Y
3	3	1.5	1.5



	Mild Steel (mm)	Stainless Steel (mm)
Radius	2, 3	2



Pneumatic Chamfering Tool

MINI BEVELER

YouTube

Model AMBL-0307 CE
• Lever switch type

Model AMB-0307 Non-CE
• Ring switch type

Ideal for chamfering plate, pipe, tube and other profiles

- Lightweight design for portable edge chamfering applications
- Designed to chamfer stainless and carbon steels
- Adjustable to chamfer angles from 15° to 45°
- 300 mm minimum radius bend
- Chamfer width up to 7 mm at 45°
- Uses indexable carbide inserts





Specifications

Model		AMBL-0307 / AMB-0307
Air Pressure	MPa (kgf/cm²)	0.6 (6)
Air Consumption (No-load)	m³/min	0.9
Free Speed	min⁻¹(rpm)	14000
Chamfering Capacity	Mild Steel	Up to 7 mm Chamfer * or 2, 3, 4 mm Radius
	Stainless Steel	Up to 3 mm Chamfer or 2, 3, 4 mm Radius
Chamfer Angle		15° - 45°
Air Inlet Size		Rc 3/8
Mass (Weight)	kg	2.9
Installed Indexable Insert		Indexable Insert with Hole 12.7

*Max. chamfering capacity for one-cut is 4C.

7C
4R
Mild Steel

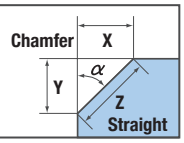
3C
4R
Stainless Steel

Accessories Included

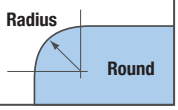
- Indexable Insert with Hole 12.7 (Installed)
- Indexable Insert Set Screw 4 x 7 (Installed)
- Indexable Insert with Hole 12.7
- Indexable Insert Set Screw 4 x 7
- Knob
- 2 pieces of Hex Socket Set Screw 8 x 25
- 2 pieces of Hex Nut M8
- 3 mm Hex Socket Screw Key
- 4 mm Hex Socket Screw Key
- Spanner T-15F
- Bushing R 3/8 x NPT 3/8 (AMBL-0307)
- Bushing R 1/4 x NPT 1/4 (AMB-0307)

Chamfer Angle, Width and Radius

Chamfer Angle α	Mild Steel(mm)			Stainless Steel(mm)		
	X	Y	Z	X	Y	Z
45°	7	7	9.9	3	3	4.2
30°	4	7	8.1	2.2	3.8	4.4
15°	2.2	8	8.3	1	3.8	3.9



	Mild Steel(mm)	Stainless Steel(mm)
Radius	2, 3, 4	2, 3, 4



Pneumatic Radial Chamfering Tool

CIRCUIT BEVELER

Model CB-01 CE

YouTube

Ideally suited for chamfering machine and mold component parts

- Only requires a 6.8 mm diameter hole for chamfering
- Two 3-sided indexable inserts provide a cost effective way to get a smooth, chatter free finish
- Aluminum and stainless steel can also be processed with optional indexable insert



Specifications

Model		CB-01
Air Pressure	MPa (kgf/cm²)	0.6 (6)
Air Consumption (No-load)	m³/min	0.15
Free Speed	min⁻¹(rpm)	28000
Chamfering Capacity	Mild Steel	Up to 1 mm Chamfer or 1 mm Radius
	Stainless Steel*	Up to 0.5 mm Chamfer
	Aluminum*	Up to 1 mm Chamfer
Chamfer Angle		45°
Minimum Workpiece Thickness	mm	1.5 (0.5 mm Chamfer)
Air Inlet Size		Rc 1/4
Mass (Weight)	kg	0.5
Installed Indexable Insert		2 pieces of Indexable Insert 8.4

*Optional indexable insert is required.

1C
Aluminum*

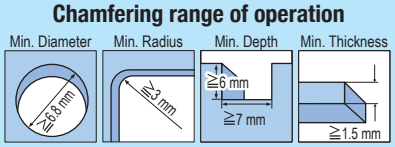
1C
1R
Mild Steel

0.5C
Stainless Steel*

Accessories Included

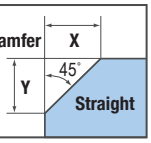
- 2 pieces of Indexable Insert 8.4 (Installed)
- 2 pieces of Indexable Insert Set Screw (Installed)
- 2 pieces of Indexable Insert Set Screw
- 2 mm Hex Socket Screw Key for Chamfering Adjustments
- Spanner T-6F for Replacement of Indexable Insert
- Bushing R 1/4 x NPT 1/4

Chamfering range of operation

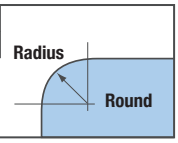


Chamfer Angle and Width

Mild Steel(mm)		Stainless Steel(mm)		Aluminum(mm)	
X	Y	X	Y	X	Y
1	1	0.5	0.5	1	1



	Mild Steel(mm)
Radius	1



Pneumatic Radial Chamfering Tool

CIRCUIT BEVELER

Model CB-02 CE

YouTube

Uniquely designed to chamfer circular, elliptical and straight line profiles

- Chamfers exterior and/or interior edges
- Depth gauge provided to accurately set chamfer widths
- Optional attachment PN TB02437 available for chamfering thin materials



2C
2R
Mild Steel

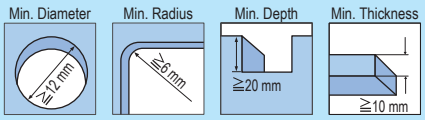
Specifications

Model		CB-02
Air Pressure	MPa (kgf/cm²)	0.6 (6)
Air Consumption (No-load)	m³/min	0.40
Free Speed	min⁻¹(rpm)	15000
Chamfering Capacity		Up to 2 mm Chamfer or 2 mm Radius
Chamfer Angle		45°
Air Inlet Size		Rc 1/4
Mass (Weight)	kg	1.8
Installed Indexable Insert		Indexable Insert 9.525

Accessories Included

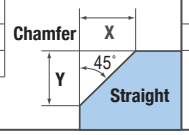
- Indexable Insert 9.525 (Installed)
- Indexable Insert 9.525
- Adjustment Gauge
- Spanner T-9D
- Protective Cap
- Hook Spanner 58-65
- Bushing R 1/4 x NPT 1/4

Chamfering range of operation

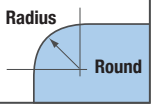


Chamfer Angle, Width and Radius

Mild Steel(mm)	
X	Y
2	2



	Mild Steel(mm)
Radius	2



Pneumatic Radial Chamfering Tool

CIRCUIT BEVELER

Model CBR-03 CE

YouTube

For bridge and shipbuilding applications

Bridge

- Radius chamfering on the scallop parts or holes of bridge members

Shipbuilding

- Meets or exceeds PSPC* requirements on surface preparation of steel materials prior to coating
- Radius chamfering on steel materials used in seawater ballast tanks and double-side skin bulk carrier production
- Dual cutting head with 4 radius surfaces per tip and a quick-change base

*PSPC stands for Performance Standard for Protective Coatings regulated by International Marine Organization.



3R
Steel

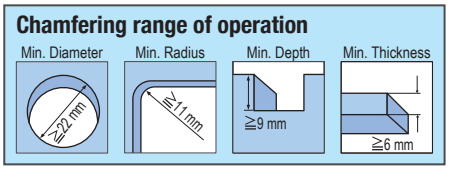
Specifications

Model		CBR-03
Air Pressure	MPa (kgf/cm²)	0.6 (6)
Air Consumption (No-load)	m³/min	0.65
Free Speed	min⁻¹(rpm)	12000
Chamfering Capacity		3 mm Radius
Minimum Workpiece Thickness	mm	6
Air Inlet Size		Rc 1/4
Mass (Weight)	kg	2
Installed Indexable Insert		2 pieces of Indexable Insert 12.7 R3

Accessories Included

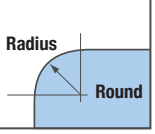
- 2 pieces of Indexable Insert 12.7 R3 (Installed)
- 2 pieces of Indexable Insert Set Screw (Installed)
- Indexable Insert Set Screw
- Spanner T-15D
- Handle

Chamfering range of operation



Chamfer Angle and Width

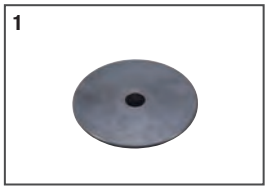
	Mild Steel(mm)
Radius	3

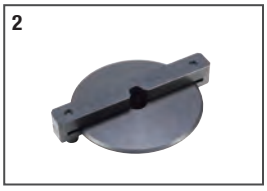


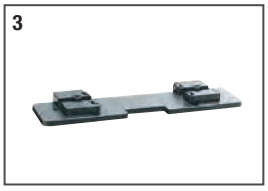
Optional Beveler Accessories

Ref. No.	PN	Description	Sales Unit	HB-15B	EMB-0307C AMBL-0307 AMB-0307	MB-03A	ECB-0203	CB-01	CB-02	CBR-03
–	TB11074	Indexable Insert 8.4 for Mild Steel	10 pcs./set					●		
–	TB11076	Indexable Insert 8.4 for Stainless Steel	10 pcs./set					●		
–	TB11075	Indexable Insert 8.4 for Aluminum	4 pcs./set					●		
–	TB10656	Indexable Insert 8.4 R1	4 pcs./set					●		
–	TB11068	Indexable Insert 12.7	12 pcs./set	●						
–	TB11069	Indexable Insert 12.7 with Hole	10 pcs./set		●		●			
–	TB11070	Indexable Insert 12.7 R2	10 pcs./set		●		●			
–	TB11071	Indexable Insert 12.7 R3	10 pcs./set		●		●			
–	TB11072	Indexable Insert 12.7 R4	10 pcs./set		●					
–	TB11073	Indexable Insert 12.7 R3	10 pcs./set							●
–	TB11064	Indexable Insert 9.525	10 pcs./set			●			●	
–	TB11065	Indexable Insert 9.525 R2	10 pcs./set			●			●	
–	TB11066	Indexable Insert 9.525 R3	10 pcs./set			●				
1	TB09140	Guide Plate 78 Ass'y for More Stable Operation	1 set					●		
2	TB09143	Plate Kit with linear guide	1 set					●		
3	TA9A728	Pipe and tube Beveling Attachment	1 set	●						
4	TB02539	Attachment for Small Dia. Pipe	1 set		●					
5	TA9A594	Inner Head Ass'y	1 set			●				
6	TB02857	Guide sleeve 24 mm dia. Ass'y	1 set				●			
7	TB03097	Plate Ass'y with linear guide	1 set				●			
8	TB02862	Dust Box Ass'y	1 set				●			
9	TB02437	Thin Plate Attachment Ass'y (Minimum thickness 1.2 mm)	1 set						●	
–	TB03424	Spanner T-9D	1 piece			●			●	
–	TQ01683	Spanner T-15D	1 piece		●		●			

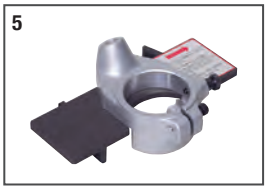
Ref. No.2: Requires use of TB09140 Guide Plate 78 Ass'y Ref. No.3: Capacity 125 to 800 mm O.D. Ref. No.4: Capacity 80 to 200 mm O.D. Ref. No.5: Capacity Minimum 100 mm I.D.
Ref. No.6: For chamfering R2 Ref. No.7: Used with Plate Ass'y for Straight Line Use Ref. No.8: Used with Plate Ass'y for Straight Line Use
Ref. No.9: Chamfers up to C1. R chamfering is not possible with this accessory.

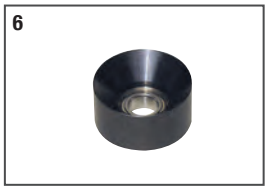


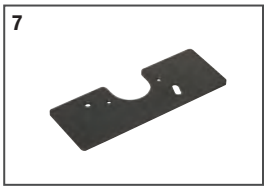






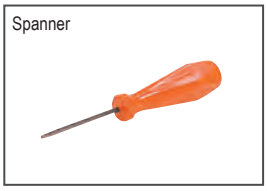
















TB09140 Guide Plate 78 Ass'y for More Stable Operation



TB09143 Plate Kit with linear guide

Pneumatic Chipping Hammer

AIR CHIPPER

Removes weld spatter quickly and easily

- Ideal tool for quickly and efficiently removing weld spatter, rust and other debris from most surfaces
- Compact, heavy-duty construction for tough industrial applications
- Easy one-touch chisel installation and removal – NO tools required
- Idle protection system, helps prevent accidental start-up "ACH-16" only

Model ACH-16 CE

YouTube



Model CH-24 CE

YouTube



Specifications

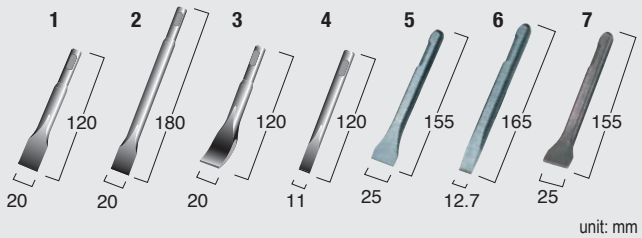
Model		ACH-16	CH-24
Air Pressure	MPa (kgf/cm²)	0.6 (6)	
Air Consumption (No-load)	m³/min	0.15	0.20
Strokes per Minute	min⁻¹	6000	4000
Shank Size	mm	10.5 Round	12.7 Square
Air Inlet Size		Rc 3/8	
Mass (Weight)	kg	0.9	1.7
Accessories Included		• TQ03431 Flat Chisel (Installed) • Bushing R 3/8 x NPT 3/8 • Hose Nipple R 3/8 x 3/8	• TP15166 Curved Flat Chisel (Installed) • Bushing R 3/8 x NPT 3/8 • Hose Nipple R 3/8 x 3/8

Optional Chisels for Air Chipper ACH-16

Ref. No.	PN	Description	Sales Unit
1	TQ03431	Flat Chisel 20 x 120	1 piece
2	TQ03452	Flat Chisel 20 x 180	
3	TQ03453	Curved Flat Chisel 20 x 120	
4	TQ03549	Flat Chisel 11 x 120	

Optional Chisels for Air Chipper CH-24

Ref. No.	PN	Description	Sales Unit
5	TP15233	Flat Chisel 25 x 155	1 piece
6	TP15234	Straight Flat Chisel 12.7 x 165	
7	TP15166	Curved Flat Chisel 25 x 155	





Air Hammer

AUTO CHISEL

Model A-300 CE

A special spool valve inside grip assures excellent durability

- Designed for speeding up the repair and sheet metal work of automobiles, etc.
- Enables hammering work in narrow spaces
- Durable and powerful action
- Fast and easy chisel change to reduce downtime
- A wide variety of chisels available



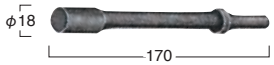
Specifications

Model		A-300
Air Pressure	MPa (kgf/cm²)	0.6 (6)
Air Consumption (No-load)	m³/min	0.3
Strokes per Minute	min⁻¹	2600
Shank Size	mm	10
Air Inlet Size		Rc 1/4
Mass (Weight)	kg	1.7
Accessories Included		• Bushing R 1/4 x NPT 1/4 • Hose Nipple R 1/4 x 1/4

*Chisels are not included as standard.

Optional Chisels *An order is available from one piece.

PN: TP00572
Blank Chisel
No.1001



For a variety of sheet metal work, bending, and rivet closing jobs

PN: TP00573
Flat Chisel
No.1002



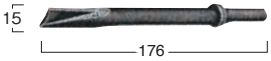
Puts increased efficiency into scraping, peeling spot welds, and cutting off bolts and pins

PN: TP04606
Sheet Metal Chisel A
No.1003



Cuts shapes in sheet metal fast

PN: TP00575
Sheet Metal Chisel B
No.1004



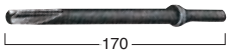
Just the chisel for cutting off sheet metal body panel

PN: TP00576
Silencer Cutting Chisel
No.1005



A quick cut-off chisel for muffler piping

PN: TP00577
Rubber Bushing Remover
No.1006



Helps you remove idle arm sleeves and bushings in record time

PN: TP00578
Spot Weld Booster
No.1007



Ideal for peeling off spot welded points and cutting off pins

PN: TP00579
Bushing Tool
No.1008



Puts speed and ease into the job of bushing insertion

PN: TP00580
Punch
No.1009



For driving out pins and rivets, and fitting and removing bearings and races

PN: TP00581
Bushing Removing Tool
No.1010



A faster servicing aid in removing bushings

PN: TP00582
Sheet Metal Punch
No.1011



Opens holes for bolts and rivets

PN: TP00583
20 mm Bending Chisel
No.1012



Helps you in peening and removing slag around welds

PN: TP00584 *
Fork Chisel 24
No.1013



Disconnecting tie rod ends and ball joints

PN: TP00586 *
Fork Chisel 35
No.1016



Disconnecting tie rod ends and ball joints

PN: TP00585 *
Fork Chisel 15
No.1017



Disconnecting tie rod ends and ball joints

PN: TP00589
38 mm Scraper
No.1018



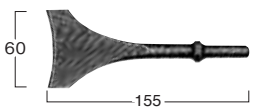
Peeling paint & removing rust from iron plate

PN: TP00590
60 mm Scraper
No.1019



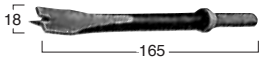
Peeling paint & removing rust from iron plate

PN: TP00591
60 mm Concave Scraper
No.1020



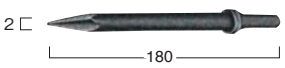
Removing incrustation from pipe

PN: TP04995
Sheet Metal Chisel C
No.1023



Cuts shapes in sheet metal fast

PN: TP05244
Moilpoint Chisel
No.1024



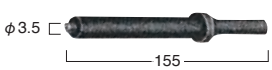
Breaking-up concrete, removing sand from castings

PN: TP05775
Rivet Removing Punch
No.1025



Removing rivets from brake lining of heavy duty cars

PN: TP05801
Rivet Caulking Chisel
No.1026



Caulking brake lining of heavy duty cars

PN: TQ02662
Fork Chisel Spring



Mount this part when using Fork Chisel 24, Fork Chisel 35 or Fork Chisel 15.

*Fork Chisel Spring must be mounted in order to use Fork Chisel 24, Fork Chisel 35 or Fork Chisel 15.

Pneumatic Scaler

SUPER KELEN

Industrial and shipboard pneumatic scalers

- Quickly and efficiently removes rust, scale, paint, tar and concrete from most surfaces
- Ideal for industrial, maritime and shipboard cleaning and descaling operations
- Idle protection system, tool will not activate unless contacting work surface
- S-1000 – over 1.3 m in length for extended reach applications and operator convenience
- Tool-less chisel installation and removal

Model S-250 Non-CE

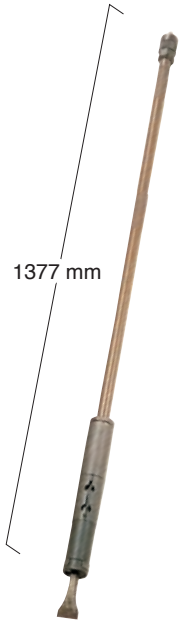
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Model S-500 Non-CE



Model S-1000 Non-CE



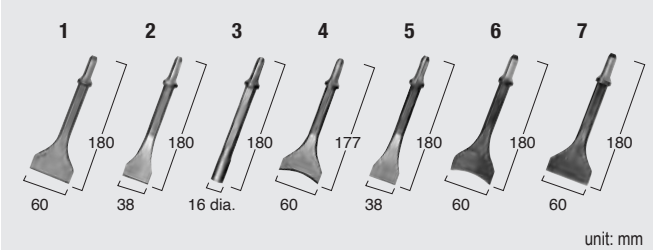
Specifications

Model		S-250	S-500	S-1000
Air Pressure	MPa (kgf/cm²)	0.6 (6)		
Air Consumption (No-load)	m³/min	0.27		
Strokes per Minute	min⁻¹	2500		
Shank Size	mm	12.7		
Air Inlet Size		Rc 1/4		
Mass (Weight)	kg	4.1	4.7	6.1
Accessories Included		• No.2005 38 mm Bend Scraper (Installed) • Hose Lock Nut M16 • Hose Nipple 3/8		



Optional Chisels

Ref. No.	PN	Description	Sales Unit
1	TP03645	No.2001 60 mm Scraper	1 piece
2	TP03646	No.2002 38 mm Scraper	
3	TP03647	No.2003 Blank Chisel	
4	TP04010	No.2004 60 mm Concave Scraper	
5	TP04552	No.2005 38 mm Bend Scraper	
6	TP04553	No.2006 60 mm Concave Bend Scraper	
7	TP04554	No.2007 60 mm Bend Scraper	



unit: mm

Needle Scaler

JET CHISEL

Powerful scaling with multi-needles

- Quickly and efficiently removes weld slag, rust, paint and scale from most surfaces
- Ideal for cleaning and descaling steel, bridgework, castings, brick, stone and many other materials
- Heavy-duty construction for industrial and maritime applications
- Proven superior design features with no internal spring components ensure trouble-free performance (JEX-2800A and JEX-20 have balancing springs)

Model JC-16 CE
• Lightweight model



Model JEX-24 CE
• Universal model



Model JEX-28 CE
• Heavy-duty model



Model JEX-2800A CE
• Reduced vibration model



Specifications

Model	JC-16	JEX-24	JEX-28	JEX-2800A
Air Pressure MPa (kgf/cm²)	0.6 (6)			
Air Consumption (No-load) m³/min	0.15	0.27	0.35	0.43
Strokes per Minute min⁻¹	4000	4000	4500	3700
Air Inlet Size	Rc 3/8			
Mass (Weight) kg	1.4	2.7	3.5	3.3
Accessories Included	• 29 pieces of 2 mm x 150 mm Needles (Installed) • 29 pieces of 2 mm x 150 mm Needles • Bushing R 3/8 x NPT 3/8 • Hose Nipple R 3/8 x 3/8	• 23 pieces of 3 mm x 180 mm Needles (Installed) • 6 mm Hex Socket ScrewKey • Bushing R 3/8 x NPT 3/8 • Hose Nipple R 3/8 x 3/8	• 28 pieces of 3 mm x 180 mm Needles (Installed) • 14 pieces of 4 mm x 180 mm Needles • Needle supporter 4 mm • 6 mm Hex Socket Screw Key • Bushing R 3/8 x NPT 3/8 • Hose Nipple R 3/8 x 3/8	• 28 pieces of 3 mm x 180 mm Needles (Installed) • 14 pieces of 4 mm x 180 mm Needles • Needle supporter 4 mm • Bushing R 3/8 x NPT 3/8 • Hose Nipple R 3/8 x 3/8

Model AJC-16 CE
• Slim model



Model JT-10 CE
• Small and lightweight model

YouTube



Model JT-16 CE
• Small and lightweight model

YouTube



Model JT-20 CE
• Medium duty model

YouTube



Model JEX-20 CE
• Reduced vibration model



Specifications

Model	AJC-16	JT-10	JT-16	JT-20	JEX-20
Air Pressure MPa (kgf/cm²)	0.6 (6)				
Air Consumption (No-load) m³/min	0.07	0.10	0.16	0.20	0.20
Strokes per Minute min⁻¹	6000	5500	6000	4000	4000
Air Inlet Size	Rc 3/8				
Mass (Weight) kg	0.98	0.50	0.80	2.40	2.75
Accessories Included	• 3 pieces of 3 mm x 180 mm Needles (Installed) • 3 pieces of 3 mm x 180 mm Needles • Bushing R 3/8 x NPT 3/8 • Hose Nipple R 3/8 x 3/8	• 7 pieces of 1.6 mm x 120 mm Steel Needles (Installed) • 7 pieces of 1.6 mm x 120 mm Steel Needles • Air Hose E Ass'y • Bushing R 1/4 x NPT 1/4	• 6 pieces of 3 mm x 180 mm Needles (Installed) • 6 pieces of 3 mm x 180 mm Needles • Bushing R 3/8 x NPT 3/8 • Hose Nipple R 3/8 x 3/8	• 12 pieces of 3 mm x 180 mm Needles (Installed) • 12 pieces of 3 mm x 180 mm Needles • Bushing R 3/8 x NPT 3/8 • Hose Nipple R 3/8 x 3/8	• 12 pieces of 3 mm x 180 mm Needles (Installed) • 12 pieces of 3 mm x 180 mm Needles • Bushing R 3/8 x NPT 3/8 • Hose Nipple R 3/8 x 3/8

Electric Needle Scaler

JET CHISEL

Model EJC-32A CE



Powerful 300 watt double insulated motor

- Extended length, slim barrel design
- Adjustable front handle for operator comfort and convenience

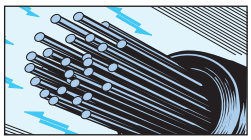
Specifications

Model		EJC-32A	
Power Source (Single Phase)		110 - 120 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz
Rated Power Consumption	W	300	
Rated Current	A	2.8	1.4
Duty Cycle	min	30	
Strokes per Minute	min^{-1}	3000	
Power Cord Length	m	2.5	
Mass (Weight)	kg	4.5	



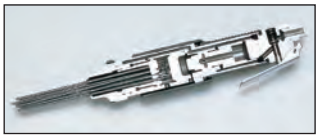
Shot Peening Effect

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.



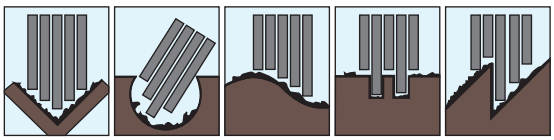
Full Automatic System - Excludes EJC-32A

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.



Self-Adjusting Needles

The needles automatically adjust to any surface contour. They get deep into corners, reach into uneven surfaces, and conform to all types of shapes, making it a tool no shop should be without.



Combination of Needle and Needle Supporter		Model									
		JC-16	JEX-24	JEX-28	JEX-2800A	JT-10	AJC-16	JT-16	JT-20	JEX-20	EJC-32A
1.6 mm	Number of Needles Required	-	-	-	-	7 pcs.	-	-	-	-	-
	Needle Supporter PN	-	-	-	-	TQ15496	-	-	-	-	-
2 mm	Number of Needles Required	29 pcs.	53 pcs.	66 pcs.	66 pcs.	-	7 pcs.	15 pcs.	29 pcs.	29 pcs.	32 pcs.
	Needle Supporter PN	TP00290	TP02244	TP01499	TP01499	-	TQ05210	TQ15316	TP00338	TP00338	TP16475
3 mm	Number of Needles Required	-	23 pcs.	28 pcs.	28 pcs.	-	3 pcs.	6 pcs.	12 pcs.	12 pcs.	15 pcs.
	Needle Supporter PN	-	TP02245	TP01461	TP01461	-	TQ04554	TQ15315	TP00337	TP00337	TP16301
4 mm	Number of Needles Required	-	-	14 pcs.	14 pcs.	-	-	-	-	-	-
	Needle Supporter PN	-	-	TP01462	TP01462	-	-	-	-	-	-

Material	Needle		PN	Sales Unit	Model									
	Diameter	Length			JC-16	JEX-24	JEX-28	JEX-2800A	JT-10	AJC-16	JT-16	JT-20	JEX-20	EJC-32A
Steel	1.6 mm	120 mm	TB10658	50 pcs./set					●					
	2 mm	150 mm	TB11053	100 pcs./set	●	●	●	●		●	●	●	●	●
		180 mm	TB11054	100 pcs./set	●	●	●	●		●	●	●	●	●
		300 mm	TB11057	50 pcs./set	●	●	●	●		●	●	●	●	●
		500 mm	TB11060	50 pcs./set	●	●	●	●		●	●	●	●	●
	3 mm	180 mm	TB11055	100 pcs./set		●	●	●		●	●	●	●	●
		300 mm	TB11058	50 pcs./set		●	●	●		●	●	●	●	●
		500 mm	TB11061	50 pcs./set		●	●	●		●	●	●	●	●
		800 mm	TB11063	50 pcs./set		●	●	●		●	●	●	●	●
	4 mm	180 mm	TB11056	50 pcs./set			●	●						
		300 mm	TB11059	50 pcs./set			●	●						
		500 mm	TB11062	50 pcs./set			●	●						
Stainless Steel	1.6 mm	120 mm	TB11516	25 pcs./set					●					
		120 mm	TB10659	50 pcs./set					●					
	2 mm	180 mm	TB10878	30 pcs./set	●	●	●	●		●	●	●	●	●
	3 mm	180 mm	TB10877	30 pcs./set		●	●	●		●	●	●	●	●



Optional Needles

Premium Nitto Kohki needles out-perform competitors' needles ensuring optimal performance and trouble-free operation.

Pneumatic Grinder

MYTON

Heavy-duty grinders for tough applications

- Side exhaust with noise reduction system
- Great power/weight ratio

Model MYG-25L CE

- For Grinding Wheel 58 mm
- Compact and lightweight type

YouTube



Model MYG-40L CE

- For Grinding Wheel 100 mm
- Powerful type

YouTube



Model MG-40 CE

- Lever switch type
- Depressed center wheel 100 mm

YouTube



Model MG-40 Non-CE

- Ring switch type
- Depressed center wheel 100 mm



Specifications

Model		MYG-25L	MYG-40L	MG-40 Lever Switch Type	MG-40 Ring Switch Type
Air Pressure	MPa (kgf/cm²)	0.6 (6)			
Air Consumption	m³/min	0.39 (No-load)	0.54 (No-load) 0.69 (Load)	0.50 (No-load)	
Free Speed	min⁻¹(rpm)	19000	13000		
Depressed Center Grinding Wheel Outer Diameter	mm	58	100		
Air Inlet Size		Rc 1/4	Rc 3/8		Rc 1/4
Mass (Weight)	kg	0.6	1.55	1.6	1.4
Accessories Included		• 5 mm Hex Socket Screw Key • Spanner 19 • Grinding Wheel GS #80 x 58 • Bushing R 1/4 x NPT 1/4	• 5 mm Hex Socket Screw Key • 6 mm Hex Socket Screw Key • Bushing R 3/8 x NPT 3/8	• 5 mm Hex Socket Screw Key • 6 mm Hex Socket Screw Key • Spanner 19 • Bushing R 3/8 x NPT 3/8	• 5 mm Hex Socket Screw Key • 6 mm Hex Socket Screw Key • Spanner 19 • Bushing R 1/4 x NPT 3/8

*Grinding wheels or flap discs are not included as standard. Please use commercially available consumables for MYG-40L/MG-40.

Model MYG-50 CE

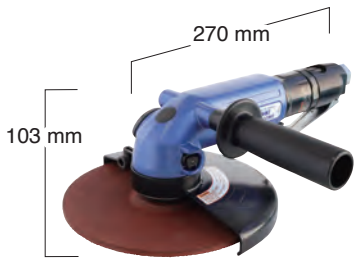
- Lever switch type
- For Grinding wheel 125 mm
- Heavy grinding type
- Anti-vibration handle

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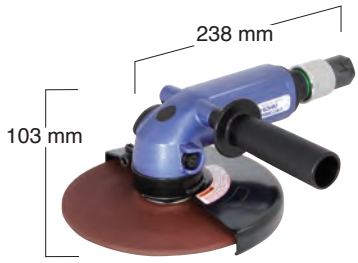
Model MYG-70 CE

- Lever switch type
- For Grinding wheel 180 mm
- Heavy grinding type



Model MYG-70 Non-CE

- Ring switch type
- For Grinding wheel 180 mm
- Heavy grinding type



Specifications

Model		MYG-50	MYG-70 Lever Switch Type	MYG-70 Ring Switch Type
Air Pressure	MPa (kgf/cm²)	0.6 (6)		
Air Consumption	m³/min	0.75 (No-load) 1.1 (Load)	0.70 (No-load) 0.95 (Load)	
Free Speed	min⁻¹(rpm)	11000	7600	
Depressed Center Grinding Wheel Outer Diameter	mm	125	180	
Air Inlet Size		Rc 3/8		
Mass (Weight)	kg	2.5 (with handle)		2.4 (with handle)
Accessories Included		• Handle (anti-vibration type) • 4 mm Hex Socket Screw Key • 6 mm Hex Socket Screw Key • Pin Face Wrench • Bushing R 3/8 x NPT 3/8	• Handle • 6 mm Hex Socket Screw Key • 10 mm Hex Socket Screw Key • Bushing R 3/8 x NPT 3/8	

*Grinding wheels or flap discs are not included as standard. Please use commercially available consumables for MYG-50/MYG-70.

Optional Accessories

Ref. No.	PN	Description	Sales Unit	Remarks
1 *	TB08265	Handle Ass'y	1 set	Standard accessory of MYG-70
2 *	TB09680	Side Handle Ass'y (anti-vibration type)	1 set	Standard accessory of MYG-50
3	TA90078	Rubber Pad Ass'y	1 piece	For MYS-40

*Handle Ass'y and Side Handle Ass'y can be used on MYG-40L, MG-40 and MYG-70.



Pneumatic Sander

MYTON

Ideal for sanding and/or polishing metal, aluminum, wood, plastic and many other materials

- Compact and lightweight design for working in confined spaces
- Side exhaust with noise reduction system

Model MYS-20L CE

- For Abrasive discs 1", 1-1/2" & 2"
- Compact and lightweight type

YouTube



Model MYS-40 CE

- For Abrasive disc 100 mm
- Light sanding type



Model MYS-70 Non-CE

- Ring switch type
- For Abrasive disc 180 mm
- Medium sanding type
- Japanese model



Specifications

Model	MYS-20L	MYS-40	MYS-70
Air Pressure MPa (kgf/cm²)	0.6 (6)		
Air Consumption (No-load) m³/min	0.39	0.45	0.93
Free Speed min⁻¹(rpm)	19000	13700	7600
Abrasive Disc Outer Diameter	1", 1-1/2" and 2"	100 mm	180 mm
Air Inlet Size	Rc 1/4		Rc 3/8
Mass (Weight) kg	0.6	1.1	2.4
Accessories Included	• 2 pieces of 14 mm Single Ended Spanner • Bushing R 1/4 x NPT 1/4 • 1" Disc Sanding Pad • 1-1/2" Disc Sanding Pad • 2" Disc Sanding Pad • Assortment of Sample Abrasive Discs Contains: 2 each of #60, #80, #100 and #120 1" Abrasive Disc 2 each of #60, #80, #100 and #120 1-1/2" Abrasive Disc 2 each of #60, #80, #100 and #120 2" Abrasive Disc	• 5 mm Hex Socket Screw Key • 6 mm Hex Socket Screw Key • Bushing R 1/4 x NPT 1/4	• Side Handle Ass'y • 41 mm Single Ended Spanner • 10 mm Hex Socket Screw Key • 7" Rubber Pad

*Abrasive discs are not included as standard. Please use commercially available consumables for MYS-40/MYS-70.

Grinding Wheels for MYTON MYG-25L

PN	Description	Sales Unit	Appearance
TB11078	GS#46 x 58 mm	5 pcs./set	
TB11079	GS#60 x 58 mm		
TB11077	GS#80 x 58 mm	10 pcs./set	
TB11080	GS#100 x 58 mm	5 pcs./set	
TB11081	GS#120 x 58 mm		

Flap Discs for MYTON MYG-25L

PN	Description	Sales Unit	Appearance
TB11229	MYTON DISC Z Z#40 x 58	5 pcs./set	
TB11230	MYTON DISC Z Z#60 x 58		
TB11231	MYTON DISC Z Z#80 x 58		
TB11232	MYTON DISC Z Z#100 x 58		
TB11233	MYTON DISC Z Z#120 x 58		
TB11234	MYTON DISC SA A#40 x 58	5 pcs./set	 Designed for curve sanding.
TB11235	MYTON DISC SA A#60 x 58		
TB11236	MYTON DISC SA A#80 x 58		
TB11237	MYTON DISC SA A#100 x 58		
TB11238	MYTON DISC SA A#120 x 58		

*Please use commercially available consumables for MYG-40L/MG-40/ MYG-50/MYG-70

Abrasive Discs and Disc Pads for MYTON MYS-20L

PN	Description	Sales Unit	Abrasive Disc	Disc Pad	Sales Unit
TB10986	Abrasive Disc 1" x #40	25 pcs./set		TQ14384 1" Disc Sanding Pad 	1 piece
TB10987	Abrasive Disc 1" x #60				
TB10988	Abrasive Disc 1" x #80				
TB10989	Abrasive Disc 1" x #100				
TB10990	Abrasive Disc 1" x #120				
TB10991	Abrasive Disc 1" x #180				
TB10992	Abrasive Disc 1" x #240				
TB10993	Abrasive Disc 1" x #320				
TB10994	Abrasive Disc 1-1/2" x #40	25 pcs./set		TQ14383 1-1/2" Disc Sanding Pad 	1 piece
TB10995	Abrasive Disc 1-1/2" x #60				
TB10996	Abrasive Disc 1-1/2" x #80				
TB10997	Abrasive Disc 1-1/2" x #100				
TB10998	Abrasive Disc 1-1/2" x #120				
TB10999	Abrasive Disc 1-1/2" x #180				
TB11000	Abrasive Disc 1-1/2" x #240				
TB11001	Abrasive Disc 1-1/2" x #320				
TB11002	Abrasive Disc 2" x #40	25 pcs./set		TQ14382 2" Disc Sanding Pad 	1 piece
TB11003	Abrasive Disc 2" x #60				
TB11004	Abrasive Disc 2" x #80				
TB11005	Abrasive Disc 2" x #100				
TB11006	Abrasive Disc 2" x #120				
TB11007	Abrasive Disc 2" x #180				
TB11008	Abrasive Disc 2" x #240				
TB11009	Abrasive Disc 2" x #320				

*Please use commercially available consumables for MYS-40/MYS-70.

Applicable Grinding Wheels (Commercially available)

Model	Outer Diameter	Hole Diameter	Thickness
MYG-25L	Applicable to our Grinding Wheels only		
MG-40	100 mm	16 mm	3 to 6 mm
MYG-40L	100 mm	16 mm	3 to 6 mm
MYG-50	125 mm	22.2 mm	6 mm
MYG-70	180 mm	22.2 mm	6 to 8 mm

Applicable Abrasive Discs (Commercially available)

Model	Outer Diameter	Hole Diameter
MYS-20L	Applicable to our Abrasive Discs only	
MYS-40	100 mm	16 mm
MYS-40L	100 mm	16 mm
MYS-70	180 mm	22 mm

Pneumatic Belt Sander

BELTON

Ideal for sanding and grinding in narrow spaces, recessed areas and on curved surfaces

- Quick belt change
- Rear exhaust system

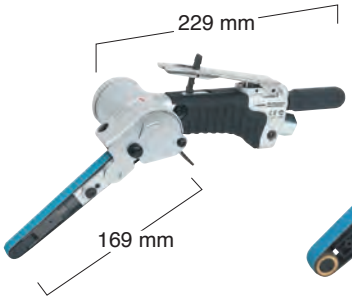
B-10D/B-20D YouTube　B-30CL YouTube

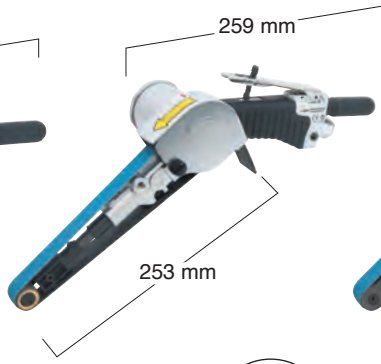
BELTON-10
Model B-10D CE
- Belt size 10 mm (W)

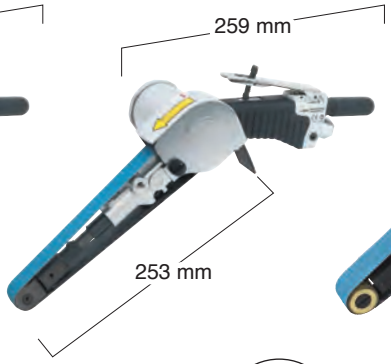
BELTON-20
Model B-20D CE
- Belt size 20 mm (W)

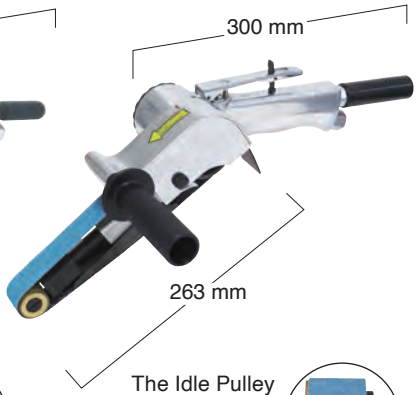
BELTON-20
Model B-20D-A CE
- Belt size 20 mm (W)

BELTON-30
Model B-30CL CE
- Belt size 30 mm (W)









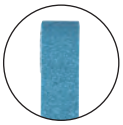
The Idle Pulley for B-10D is supported on both sides.



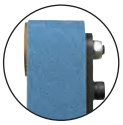
The Idle Pulley for B-20D is supported on one side only.



The Idle Pulley for B-20D-A is supported on both sides.



The Idle Pulley for B-30CL is supported on one side only.



Specifications

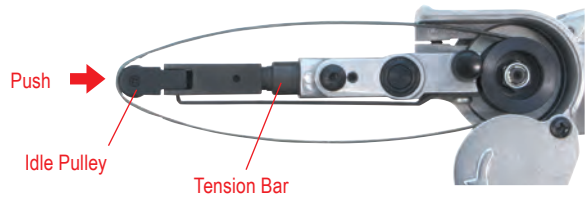
Model		B-10D	B-20D	B-20D-A	B-30CL
Air Pressure	MPa (kgf/cm²)	0.6 (6)			
Air Consumption (No-load)	m³/min	0.40	0.52		0.82
Free Speed	min⁻¹(rpm)	17000	17000		15000
Belt Speed	m/min	1120	2620		2310
Belt Size	mm	10 x 330	20 x 520		30 x 540
Air Inlet Size		Rc 1/4			
Mass (Weight)	kg	0.85	1.55	1.5	2.4
Installed Abrasive Belt		Z#60 x 10 mm	Z#60 x 20 mm		Z#60 x 30 mm
Accessories Included		• 2 pieces of Abrasive Belt Z#60 x 10 mm (1 piece installed) • Abrasive Belt Z#80 x 10 mm • Abrasive Belt Z#100 x 10 mm • Abrasive Belt Z#120 x 10 mm • 1.5 mm Hex Socket Screw Key • 4 mm Hex Socket Screw Key • Bushing R 1/4 x NPT 1/4	• 2 pieces of Abrasive Belt Z#60 x 20 mm (1 piece installed) • Abrasive Belt Z#80 x 20 mm • Abrasive Belt Z#100 x 20 mm • Abrasive Belt Z#120 x 20 mm • 2.5 mm Hex Socket Screw Key • 4 mm Hex Socket Screw Key • Bushing R 1/4 x NPT 1/4 • Convex Shoe		• 2 pieces of Abrasive Belt Z#60 x 30 mm (1 piece installed) • Abrasive Belt Z#80 x 30 mm • Abrasive Belt Z#100 x 30 mm • 5 mm Hex Socket Screw Key • Handle Ass'y • Bushing R 1/4 x NPT 1/4

Easy belt change

Abrasive belt can be changed easily. *Rotate and open the cover when changing.

Self-locking

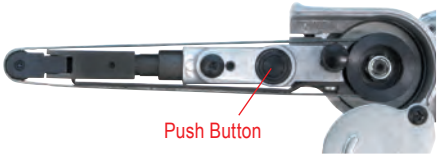
Push the idle pulley until the tension bar locks, then loosen the belt to change.



For all models

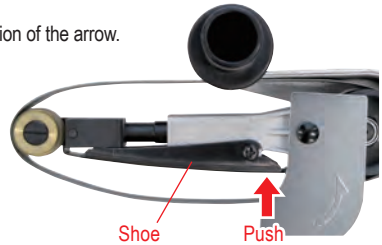
Unlock

Press the push button to pull back the tension bar.



10/20 Type

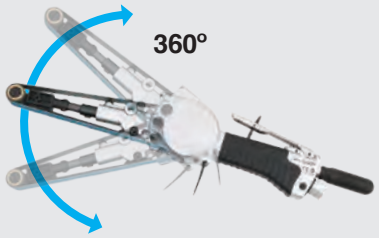
Press the shoe in the direction of the arrow.



30 Type

Adjustable angle for efficient operation

The body angle can be adjusted to suit the working position and the shape of the workpiece.



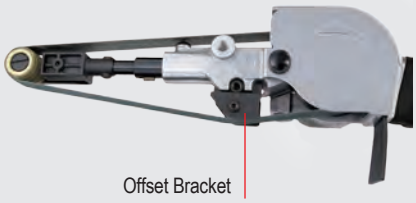
Belt speed adjustment

Belt speed can be easily adjusted by regulating the airflow using a screwdriver-operated valve.



Curved surface grinding and light sanding

The optional offset bracket enables curved surface grinding and light deburring by utilizing the belt's flexibility.



Abrasive Belt for BELTON-10

Belt Size : 6 mm x 330 mm (W x L)

Grit	PN		
	Zirconia (Z)	Alumina (AA)	
#40	-	-	
#60	TB10924	-	
#80	TB10925	-	
#100	TB10926	-	
#120	TB10927	-	
#180	TB10928	-	
#240	TB10929	-	
#400	-	TB10941	
Sales Unit 50 pcs./set			

When using the belt, optional Bracket 6 Ass'y and Shoe 6 are required. (Ref. No.5, 6)

Abrasive Belt for BELTON-10

Belt Size : 10 mm x 330 mm (W x L)

Grit	PN		
	Zirconia (Z)	Alumina (AA)	Ceramic (CE)
#40	-	-	TB10943
#60	TB10904	-	TB10944
#80	TB10905	-	TB10945
#100	TB10906	-	TB10946
#120	TB10907	-	TB10947
#180	TB10908	-	-
#240	TB10909	-	-
#400	-	TB10936	-
Sales Unit 50 pcs./set			

Abrasive Belt for BELTON-20

Belt Size : 20 mm x 520 mm (W x L)

Grit	PN		
	Zirconia (Z)	Alumina (AA)	Ceramic (CE)
#40	TB10910	-	TB10948
#60	TB10911	-	TB10949
#80	TB10912	-	TB10950
#100	TB10913	-	TB10951
#120	TB10914	-	TB10952
#180	TB10915	-	-
#240	TB10916	-	-
#320	-	TB10937	-
#400	-	TB10938	-
Sales Unit 20 pcs./set			

Abrasive Belt for BELTON-30

Belt Size : 30 mm x 540 mm (W x L)

Grit	PN		
	Zirconia (Z)	Alumina (AA)	Ceramic (CE)
#40	TB10917	-	TB10953
#60	TB10918	-	TB10954
#80	TB10919	-	TB10955
#100	TB10920	-	TB10956
#120	TB10921	-	TB10957
#180	TB10922	-	-
#240	TB10923	-	-
#320	-	TB10939	-
#400	-	TB10940	-
Sales Unit 20 pcs./set			

Optional Parts

Ref. No.	PN	Description	Sales Unit	Applicable Model			
				B-10D		B-20D B-20D-A	B-30CL
				6 mm	10 mm		
1	TB09997	Offset Bracket 10 Ass'y	1 set		●		
2	TB10192	Offset Bracket 20 Ass'y	1 set			●	
3	TB08150	Offset Bracket 30 Ass'y	1 set				●
4	TB09938	Finger Pad Ass'y	1 set			●	
5	TB09996	Bracket 6 Ass'y	1 set	●			
6	TP14770	Shoe 6	1 piece	●			
7	TB10160	Idle Pully Bracket Ass'y	1 set			●	
8	TB10191	Convex Shoe	1 piece			●	
-	TB08337	Idle Pully Ass'y (Steel) for B-20D-A	1 set			●	
-	TB08387	Idle Pully Ass'y (Steel) for B-20D	1 set			●	



* for Abrasive belt width 6 mm



Pneumatic Belt Sander

BABY BELTON

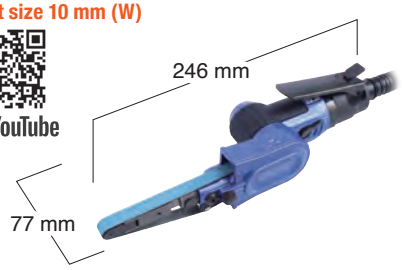
Ideal for deburring, chamfering, bead grinding, and polishing applications

- Compact and lightweight, yet powerful
- Alternative rotation direction
- Ergonomically designed for left or right hand operator convenience

BABY BELTON-10
Model BB-10B CE

- Lever switch type
- Belt size 10 mm (W)

YouTube



BABY BELTON-10
Model BB-10B Non-CE

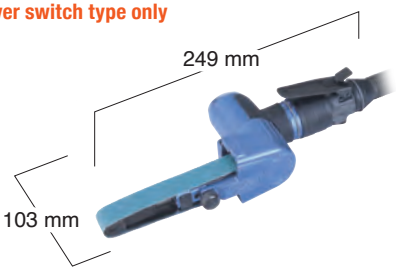
- Ring switch type
- Belt size 10 mm (W)

YouTube



BABY BELTON-20
Model BB-20 CE

- Belt size 20 mm (W)
- Lever switch type only



Specifications

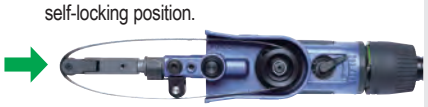
Model		BB-10B Lever Switch Type	BB-10B Ring Switch Type	BB-20
Air Pressure	MPa (kgf/cm²)	0.6 (6)		
Air Consumption (No-load)	m³/min	0.20		0.43
Free Speed	min⁻¹(rpm)	17000		16000
Belt Speed	m/min	1120		1160
Belt Size	mm	10 x 330		20 x 330
Air Inlet Size		Rc 1/4		
Mass (Weight)	kg	0.60	0.50	0.80
Installed Abrasive Belt		Z#100 x 10 mm	Z#100 x 10 mm	Z#60 x 20 mm
Accessories Included		• Abrasive Belt Z#100 x 10 mm (Installed) • Abrasive Belt Z#120 x 10 mm • Abrasive Belt Z#180 x 10 mm • Abrasive Belt Z#240 x 10 mm • 1.5 mm Hex Socket Screw Key • Bushing R 1/4 x NPT 1/4 • Offset Bracket Ass'y (Installed)	• Abrasive Belt Z#100 x 10 mm (Installed) • Abrasive Belt Z#120 x 10 mm • Abrasive Belt Z#180 x 10 mm • Abrasive Belt Z#240 x 10 mm • 1.5 mm Hex Socket Screw Key • Bushing R 1/4 x NPT 1/4 • Offset Bracket Ass'y (Installed)	• Abrasive Belt Z#60 x 20 mm (Installed) • Abrasive Belt Z#120 x 20 mm • Abrasive Belt Z#240 x 20 mm • 2.5 mm Hex Socket Screw Key • 3 mm Hex Socket Screw Key • Shoe • Dust Cover • Bushing R 1/4 x NPT 1/4

Quick and easy belt installation and removal "NO Tools Required"

1 Remove side cover.



Push idle pulley bracket into self-locking position.

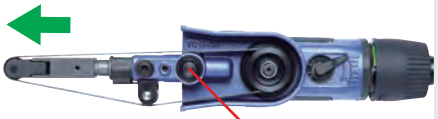


2



Replace grinding belt.

3

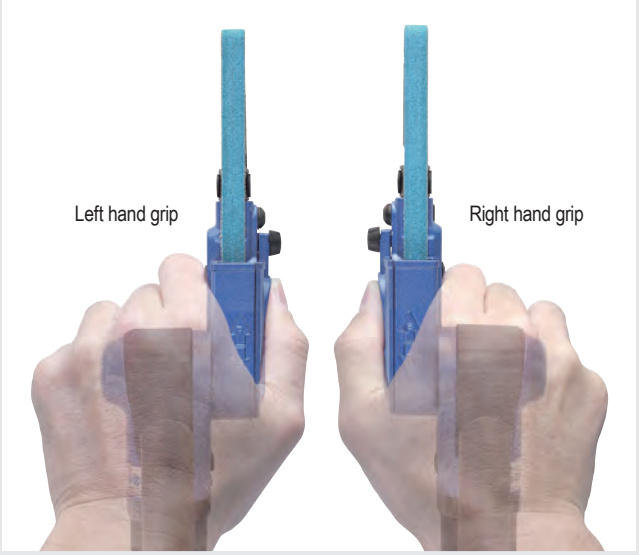


Press the push button to tighten the belt.

Push Button

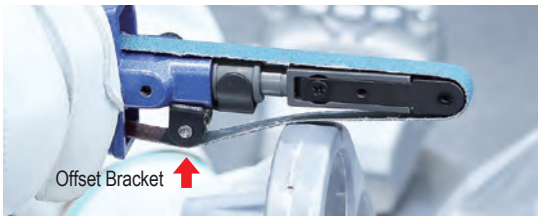
The throttle lever can be turned by 180 degrees.

Ergonomically designed for right or left hand operator convenience



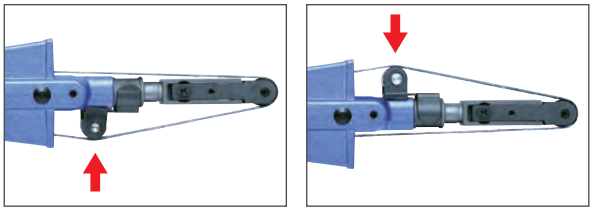
Sanding for curved surfaces

Curved surface sanding is possible by using the offset bracket.



The offset bracket can be positioned up or down.

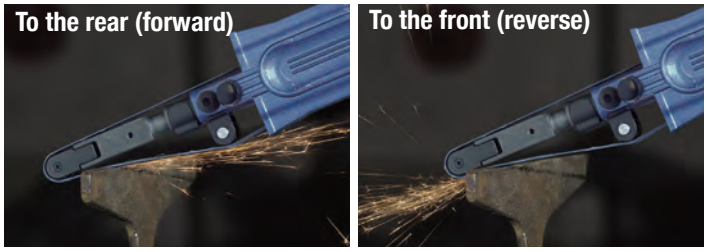
Push-in offset bracket pulley allows the following use.



Easy switching of belt rotation direction (BB-10B)

By adjusting the lever of the FR valve, the rotation direction of the abrasive belt can be changed. The direction of the chip ejection can be changed by switching the rotation direction. The rotation speed can also be adjusted by the angle of the lever.

Controlling the chip ejection direction



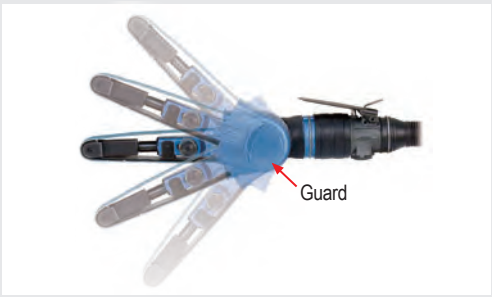
Adjusting FR Valve

The rotation speed can also be adjusted by the angle of the lever.



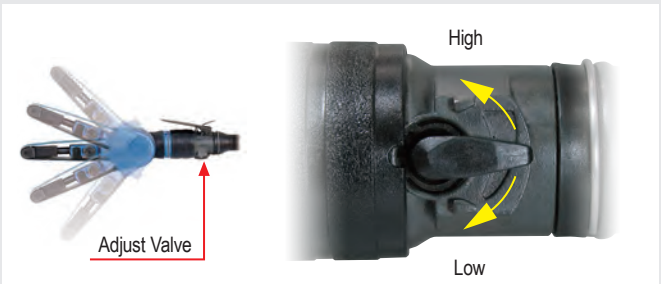
Guard position is adjustable (BB-20)

Guard angle can be changed freely in accordance with the working position and shape of the workpieces.



Belt Speed Adjustment (BB-20)

Belt speed can be easily adjusted by turning the adjust valve without a tool.



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

Deburring of die cast parts



Detail finishing of aluminum material



Chamfering of straight parts



Optional Parts

Ref. No.	PN	Description	Sales Unit	Model
1	TB10549	Offset Bracket Ass'y	1 set	BB-10B
2	TB07109	Offset Bracket 20 Ass'y	1 set	BB-20
3	TB07224	Tension Bar 520 Ass'y*	1 set	
4	TQ10701	Shoe 520*	1 piece	
5	TB07227	Finger Pad Ass'y 520	1 set	

*TB07224 and TQ10701 are used together.



Abrasive Belt for BABY BELTON-10

Belt Size : 10 mm x 330 mm (W x L)

Grit	PN		
	Zirconia (Z)	Alumina (AA)	Ceramic (CE)
#40	-	-	TB10943
#60	TB10904	-	TB10944
#80	TB10905	-	TB10945
#100	TB10906	-	TB10946
#120	TB10907	-	TB10947
#180	TB10908	-	-
#240	TB10909	-	-
#400	-	TB10936	-
Sales Unit 50 pcs./set			

Abrasive Belt for BABY BELTON-20

Belt Size : 20 mm x 330 mm (W x L)

Grit	PN			
	Zirconia (Z)	Alumina (AA)	Ceramic (CE)	Non-woven
#40	-	-	-	-
#60	TB10930	-	TB10958	-
#80	TB10931	-	TB10959	-
#100	TB10932	-	TB10960	-
#120	TB10933	-	TB10961	-
#180	TB10934	-	-	TB11047 A-M Equivalent to #180
#240	TB10935	-	-	-
#320	-	-	-	TB11046 A-VF Equivalent to #320
#400	-	TB10942	-	TB11048 S-SF Equivalent to #400
Sales Unit	20 pcs./set	20 pcs./set	20 pcs./set	5 pcs./set

Pneumatic Sander

COMPACT MULTI SANDER

Model CMX-20 CE

YouTube

Excellent for sanding on narrow, confined, and hard-to-reach areas with three types of pads

- By replacement of the pad, both random orbital action and multiple movement are available with one set
- Finish sanding on a small part is possible with a small pad
- Sanding in a confined space is possible due to compact and lightweight body

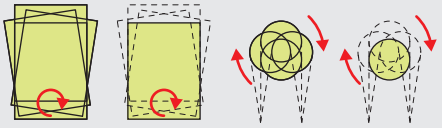


With Rectangular Pad


With 2" Round Pad

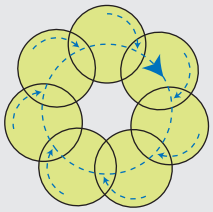

With Finger Pad

Orbital Movement (Rectangular Pad, Finger Pad)


Orbit of Rectangular Pad　　Orbit of Finger Pad

Offset rotation makes above orbit.

Dual Action Movement (2" Round Pad)



Offset rotation and self rotation makes orbit as shown on the left.

Speed Adjustment



Turn the adjust valve to limit the tools speed. Adjust the speed according to the workpiece material, grit of sand paper, and the desired surface finish.

Pad Replacement



Pad replacement can easily be made with the included spanner 10 and 4 mm Hex Socket Screw Key.
In case of 2" Round Pad, only the spanner 10 is used. Use a suitable pad in accordance with the work area or area to be sanded.

Specifications

Model	CMX-20
Air Pressure MPa (kgf/cm²)	0.6 (6)
Air Consumption (No load) m³/min	0.17
Orbit Diameter mm	2
Mass (Weight) kg	0.53 (without pad)
Accessories Included	• 2" Velcro Abrasive Paper #80, #120, #180(2 pieces of each) • 26 x 50 mm Velcro Abrasive Paper #80, #120, #180(2 pieces of each) • 16 mm Self Adhesive Abrasive Paper #80, #120, #180(5 pieces of each) • 2" Round Pad • 16 mm Finger Pad • 4 mm Hex Socket Screw Key • Bushing R 1/4 x NPT 1/4 • Ultra-thin Wrench SNT1012 • Tool Box

The rectangular pad comes mounted to the tool.

Accessory Sanding Pad

Type of Pad	Rectangular Pad	2" Round Pad	16 mm Finger Pad
Free Speed min⁻¹	14000	15500	14000
Paper Size mm	26 × 50	50 dia.	16 dia.
PN	TB09789	TB09786	TB09788

Optional Accessories

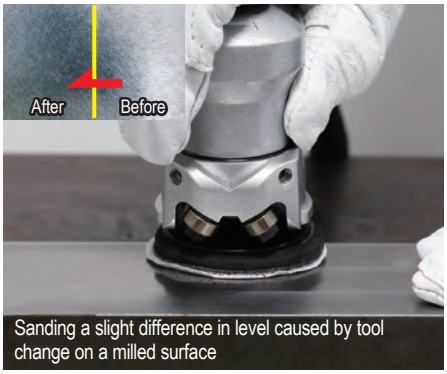
Ref. No.	PN	Description	Sales Unit
1	TB11010	26 x 50 mm Velcro Abrasive Paper #80	100 pcs. /set
	TB11011	26 x 50 mm Velcro Abrasive Paper #120	
	TB11012	26 x 50 mm Velcro Abrasive Paper #180	
2	TB11049	26 x 50 mm Velcro Non-woven Abrasive Pad #320	50 pcs. /set
3	TB11013	2" Velcro Abrasive Paper #80	100 pcs. /set
	TB11014	2" Velcro Abrasive Paper #120	
	TB11015	2" Velcro Abrasive Paper #180	
4	TB11016	16 mm Self Adhesive Abrasive Paper #80	
	TB11017	16 mm Self Adhesive Abrasive Paper #120	
	TB11018	16 mm Self Adhesive Abrasive Paper #180	

1 For Rectangular Pad　2 For Rectangular Pad　3 For 2" Round Pad　4 For 16 mm Finger Pad

*In the case of non-woven abrasive pad, it does not remove base metal. It may not clean heavily discolored welds.

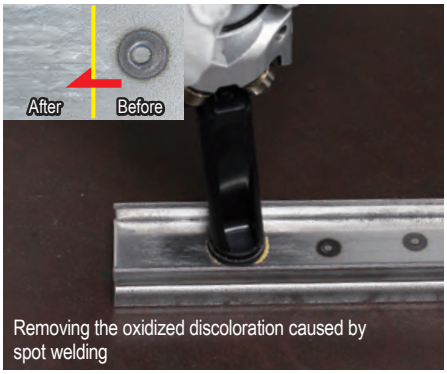

Removing weld discoloration on stainless steel

Rectangular Pad



Sanding a slight difference in level caused by tool change on a milled surface

2" Round Pad



Removing the oxidized discoloration caused by spot welding

16 mm Finger Pad

Handy Pneumatic Sander

FREE SANDER

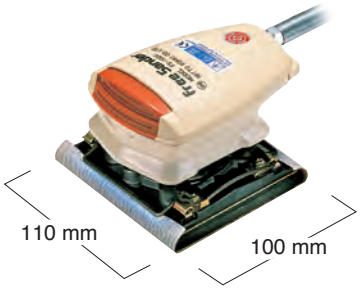
Super lightweight, low-vibration design

- Ideal for sanding and surface finishing wood, metal, plastic and other materials
- Lightweight design with minimal vibration
- High output and low air consumption motors produce high speed orbits for swirl-free finishes
- Oil free design
- Suitable for industrial and production applications

Model FS-50A CE



Model FS-100C CE

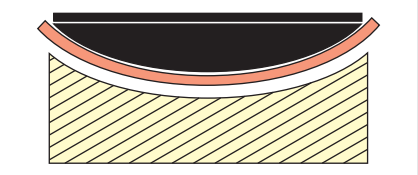


Specifications

Model		FS-50A	FS-100C
Air Pressure	MPa (kgf/cm²)	0.6 (6)	
Air Consumption (No-load)	m³/min	0.14	0.20
Free Speed	min⁻¹(rpm)	15000	20000
Orbit Diameter	mm	1.2	1.5
Pad Size	mm	75 x 82	110 x 100
Paper Size	mm	70 x 114	114 x 140
Air Inlet Size		Rc 1/8	
Mass (Weight)	kg	0.50	
Accessories Included		• Air Hose H Ass'y • Sanding Paper #240, #180 (5 pieces of each) • Bushing R 1/4 x NPT 1/4	

Round-Pad for FS-100C

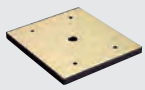
The pad is made of sponge rubber and conforms easily to the shape being worked. Double-stick tape is used with round pad.



Optional Accessories

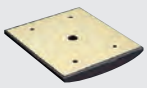
Ref. No.	PN	Description	Sales Unit	Model
1	TA99828	Rubber Pad	1 piece	FS-50A
2	TA9A367	Rubber Pad	1 piece	FS-100C
3	TA91474	Round Pad		
4	TA9A265	Sanding Paper #100	200 pcs./set	
	TA9A266	Sanding Paper #120		
	TA9A267	Sanding Paper #150		
	TA9A268	Sanding Paper #180		
	TA9A269	Sanding Paper #240		
	TA9A270	Sanding Paper #280		
	TA9A271	Sanding Paper #320		

1 & 2



Rubber Pad

3



Round Pad

4



Sanding Paper

Pneumatic Reciprocating Sander

LINE SANDER

Ideal for inline and grain sanding applications

- Ideal for most inline and profile sanding applications
- Compact and lightweight 0.75 kg design
- Low vibration and minimal noise output
- Suitable for sanding steel, aluminum, wood, plastic and other materials

Model LS-10 CE



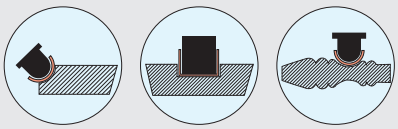
Specifications

Model		LS-10
Air Pressure	MPa (kgf/cm²)	0.6 (6)
Air Consumption (No-load)	m³/min	0.11
Strokes per Minute	min⁻¹	4000
Stroke Length	mm	4
Pad Size	mm	55 x 103
Paper Size	mm	57 x 140
Air Inlet Size		Rc 1/8
Mass (Weight)	kg	0.75
Accessories Included		• Air Hose E Ass'y • Block Rubber Pad • Base Plate A Ass'y • Sanding Paper #240, #320 (5 pieces of each) • Bushing R 1/4 x NPT 1/4



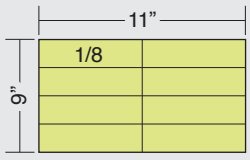
Special Sanding Pad

The Block Rubber Pad Assembly can be easily trimmed to conform to the shape being worked and is available as an accessory.



Abrasive Paper

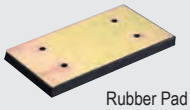
Cut standard size paper (9" x 11") into 8 pieces, as shown below. For dry sanding, use an open coat abrasive paper with silicon carbide or aluminum oxide abrasive grains to prevent clogging, improve grinding efficiency, and prolong the life of the paper.



Optional Accessories

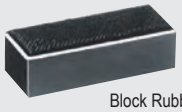
Ref. No.	PN	Description	Sales Unit
1	TA96665	Rubber Pad	1 piece
2	TA96739	Block Rubber Pad	

1



Rubber Pad

2



Block Rubber Pad

Pneumatic Compact Sander

ORBITAL SANDER

Model OSV-60A CE

Heavy-duty and powerful with adjustable speed regulator

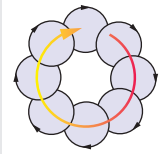
- Powerful dual action for tough applications
- Standard with dust extraction system
- Rugged construction for years of reliable performance





Random orbital action creates a professional finish

By offsetting the sanding pad shaft, fast aggressive sanding is achieved while dramatically reducing swirl patterns. Speed adjustments allow for the best speed for the best job.



Specifications

Model		OSV-60A
Air Pressure	MPa (kgf/cm²)	0.6 (6)
Air Consumption (No-load)	m³/min	0.68
Free Speed	min⁻¹(rpm)	8500
Orbit Diameter	mm	10
Paper Size	mm	150 (6")
Installed Pad Type		Leather for PSA with 6 holes
Air Inlet Size		Rc 1/4
Mass (Weight)	kg	2
Accessories Included		• Dust Collection Ass'y with Dust Bag • Single Ended Spanner 17 • Bushing R 1/4 x NPT 1/4 • Brush

Pad for OSV-60A

PN	Description	Sales Unit
TB03898	Pad 6" L-6H Ass'y (Leather type)	1 set

Pneumatic Compact Sander

PALM ORBITAL SANDER

Model APS-125 CE

Model APS-150 CE



Ergonomic lightweight design

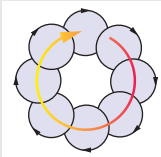
- Extremely light. APS-125 weighs just 690 g
- Ergonomically designed for operator convenience and comfort
- Powerful high speed 10000 RPM motor
- Ultra small orbital action for high quality swirl-free finishes
- Available with 125 mm or 150 mm pads
- Variable speed control

Applications

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

Random orbital action creates a professional finish

By offsetting the sanding pad shaft, fast aggressive sanding is achieved while dramatically reducing swirl patterns. Speed adjustments allow for the best speed for the best job.



Specifications

Model		APS-125		APS-150
		NVL5H	NVV5H	
Air Pressure	MPa (kgf/cm²)	0.6 (6)		
Air Consumption (No-load)	m³/min	0.45		
Free Speed	min⁻¹(rpm)	10000		
Orbit Diameter	mm	5		
Paper Size	mm	125 (5")		150 (6")
Installed Pad Type		Leather with 5 holes	Velcro with 5 holes	Velcro with 6 holes
Air Inlet Size		Rc 1/4		
Mass (Weight)	kg	0.69		0.72
Accessories Included		• 17 mm Single Ended Spanner • Bushing R 1/4 x NPT 1/4		

Pads for APS-125/APS-150

PN	Description	Sales Unit	Model
TB03669	Pad 5" V-5H Ass'y (Velcro type)	1 set	APS-125
TB03801	Pad 5" L-5H Ass'y (Leather type)		
TB03650	Pad 6" V-6H Ass'y (Velcro type)		APS-150

For Self Vacuum & Central Vacuum

The non-vacuum model is available from stock and can easily be modified to the self-vacuum or central vacuum type.

Self Vacuum



Optional parts required for adding Self Vacuum function

TQ04685 Stopper
TB03594 Ejector Ass'y
LQ02848 P Tapping Screw
TA99239 Hose Ass'y
TP14836 Dust Bag

Central Vacuum



Optional parts required for adding Central Vacuum function

TQ04682 Ejector
LQ02848 P Tapping Screw

Pneumatic Die Grinder

AIR SONIC

Ideal for most deburring, finishing and grinding applications

- Rear exhaust with noise reduction system
- Suitable for industrial and production applications
- Locking throttle lever helps prevent accidental start-up
- Accepts most stone-type and rotary carbide burrs with 6 mm shanks
- Precision machined with heavy-duty spindle and support bearings (L-35C)

Model L-25B CE

- For all grinding, deburring and finishing jobs



Model L-35C CE

- Special design for rotary burrs





Specifications

Model		L-25B	L-35C
Air Pressure	MPa (kgf/cm²)	0.6 (6)	
Air Consumption (No-load)	m³/min	0.40	0.35
Free Speed	min⁻¹(rpm)	27000	37500
Chuck Size	mm	6	
Air Inlet Size		Rc 1/4	
Mass (Weight)	kg	0.60 (without hose)	0.45 (without hose)
Accessories Included		• 14 mm Single Ended Spanner • Mounted Wheel No.2 • Mounted Wheel No.3 • Chuck Pin • Bushing R 1/4 x NPT 1/4	• 2 pieces of 14 mm Single Ended Spanner • Mounted Wheel 13 x 13 x 6 x 38 • Bushing R 1/4 x NPT 1/4

Optional Accessory

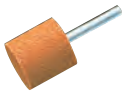
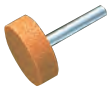
PN	Description	Sales Unit
TP02806	Chuck Sleeve 6 x 3 mm	1 piece



A mounted wheel or rotary burr with 3 mm shaft can be installed on L-25B and L-35C by using the chuck sleeve 6 x 3.

Optional Accessories

Mounted Wheel for AIR SONIC L-25B (Sales Unit: 5 pcs./set) *All items Grit #60

No.1: 16 x 32	No.2: 16 x 32	No.3: 19 x 20	No.4: 25 x 25
			
PN: TB11082	PN: TB11083	PN: TB11084	PN: TB11085
No.5: 19 x 28	**No.6: 25 x 13**	**No.7: 32 x 10**	**No.8: 16 ball**
			
PN: TB11086	PN: TB11087	PN: TB11088	PN: TB11089

*When installing rotary burrs, insert them all the way into the back of the chuck and minimize the overhang.

Rotary Burr for AIR SONIC L-35C (Sales Unit: 1 piece)

No.1: CB1C-106	No.2: CB2C-105	No.3: CB3C-103	No.4: CB4C-103
			
PN: TB11198	PN: TB11199	PN: TB11200	PN: TB11201
No.5: CB5C-104	**No.6: CB6C-102**	**No.7: CB7C-103**	**No.8: CB8C-105**
			
PN: TB11202	PN: TB11203	PN: TB11204	PN: TB11205

Pneumatic Die Grinder

AIR SONIC

Model AL-55A CE

YouTube



High speed rotation 56500 rpm

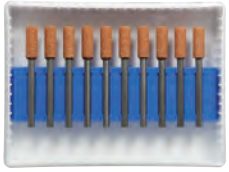
- Smooth high speed rotation and low vibration enables precision grinding
- Stepless speed change from 0 to 56500 rpm meets a wide range of grinding applications
- Compact and lightweight for comfortable operation over long periods of time.
- Triangular grip fits operator's hand. Special plastic grip prevents cold hands and absorbs vibration.
- Rear exhaust system

Specifications

Model		AL-55A
Air Pressure	MPa (kgf/cm²)	0.6 (6)
Air Consumption (No-load)	m³/min	0.17
Free Speed	min⁻¹(rpm)	56500
Chuck Size	mm	3
Air Inlet Size		G 1/4
Mass (Weight)	kg	0.27
Accessories Included		• 7 x 9 mm Spanner • Lock Wrench • Mounted Wheel 5 x 13 x 3 • Bushing R 1/4 x NPT 1/4

Optional Accessory

PN	Description	Sales Unit
TB11090	Mounted Wheel 5 x 13 x 3	10 pcs./set



Portable Precision Finishing File

SUPER HAND

Fast, efficient filing, sanding and deburring tools

- Eliminates time consuming manual hand-filing operations
- Ideal for industrial production filing applications on steel, aluminum, brass, wood and other materials
- Unique and compact design delivers reduced vibration performance while reducing operator fatigue.
- Interchangeable files
- Rear exhaust system
- Weight reduced by half for comfortable operation over long period of time (ASH-900)

Model SH-100A CE

- Rugged construction for reliable performance



Model ASH-900 CE

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

YouTube





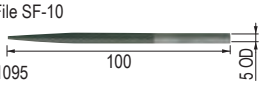
Specifications

Model		SH-100A	ASH-900
Air Pressure	MPa (kgf/cm²)	0.6 (6)	
Air Consumption (No-load)	m³/min	0.24	0.10
Strokes per Minute	min⁻¹	3700	6300
Stroke Length	mm	9	
File shank Size	mm	6.3	5.0
Air Inlet Size		Rc 1/4	
Mass (Weight)	kg	1.10	0.50
Accessories Included		• Rat Tail File SF-10 • Triangular Taper File SF-11 • Half Round File SF-12 • Flat File SF-13 • 3 mm Hex Socket Screw Key • Bushing R 1/4 x NPT 1/4 • Air Hose E Ass'y	• Rat Tail File SF-10 • Triangular Taper File SF-11 • Half Round File SF-12 • Flat File SF-13 • 2.5 mm Hex Socket Screw Key • Bushing R 1/4 x NPT 1/4

Optional Accessories

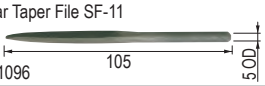
Sales Unit: 5 pcs./set

Rat Tail File SF-10



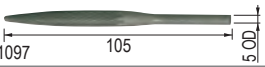
PN: TB11095

Triangular Taper File SF-11



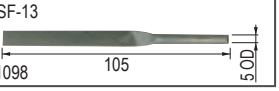
PN: TB11096

Half Round File SF-12



PN: TB11097

Flat File SF-13



PN: TB11098

Optional Accessories

Ref. No.	PN	Description	Sales Unit
1	TA91752	Rubber Pad Ass'y for SH-100A	1 set
2	TA94625	Supporter Ass'y for SH-100A (use with TA91752)	
3	TB04319	Sanding Pad Ass'y for ASH-900	



Portable Precision Finishing File

SUPER HAND LIGHT

Ideally suited for deburring of die-cast aluminum products and machined parts

- Small size, lightweight, and low-vibration model
- Reduced operator fatigue for greater productivity

Model SHL-40 CE

YouTube



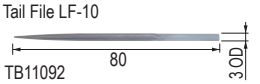
Specifications

Model		SHL-40
Air Pressure	MPa (kgf/cm²)	0.6 (6)
Air Consumption (No-load)	m³/min	0.07
Strokes per Minute	min⁻¹	9000
Stroke Length	mm	4
File shank Size	mm	3.0
Air Inlet Size		Rc 1/4
Mass (Weight)	kg	0.4
Accessories Included		• Flat File LF-13 • 2 mm Hex Socket Screw Key • Bushing R 1/4 x NPT 1/4

Optional Accessories

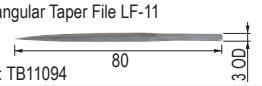
Sales Unit: 3 pcs./set

Rat Tail File LF-10



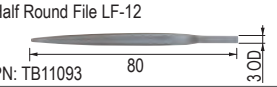
PN: TB11092

Triangular Taper File LF-11



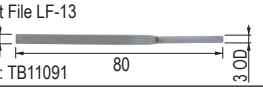
PN: TB11094

Half Round File LF-12



PN: TB11093

Flat File LF-13



PN: TB11091

Portable Fine Finishing File

MICRO AIR HAND

Lightweight, ultra-low vibration filer for polishing and lapping operations

• Fine reciprocating motion best for precision parts filing

Model MAH-05 CE

YouTube



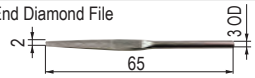
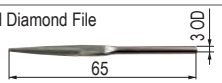
Model MAH-16 CE



Specifications

Model		MAH-05	MAH-16
Air Pressure	MPa (kgf/cm²)	0.6 (6)	
Air Consumption (No-load)	m³/min	0.07	
Strokes per Minute	min⁻¹	21000	12000
Stroke Length	mm	0.5	1.9
File Shank Size	mm	3	
Air Inlet Size		Rc 1/4	
Mass (Weight)	kg	0.37	
Accessories Included		• Flat End Diamond File • Round End Diamond File • 2 mm Hex Socket Screw Key • Bushing R 1/4 x NPT 1/4	

Optional Accessories

PN	Description	Sales Unit
TB11105	Flat End Diamond File 	5 pcs./set
TB11106	Round End Diamond File 	5 pcs./set
TB11107	Triangular End Diamond File 	5 pcs./set
TB11108	Half-round End Diamond File 	5 pcs./set
TB07506	Vise Holder 3 mm dia.* 	1 set

Mounting Examples

*This holder can be used for polishing and lapping applications by mounting ceramic stones, etc. (Max size: Thickness 3.2 mm x Width 20 mm)



Pneumatic Deburring Tool

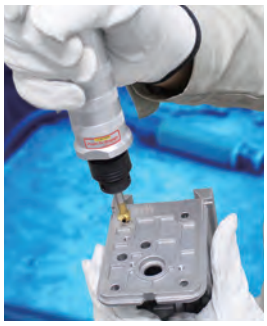
BURR CUTTER

For deburring machined holes

• While gripping the lever, push the countersink into the machined holes to remove burrs
• Optimum speed can be obtained by the adjust valve, resulting in clear deburred surfaces
• Push-to-engage type prevents the countersink from coming off the hole and damaging the workpiece
• Replacement of the countersink is easy and quick with a set of three quick change chucks provided

Model BC-005 CE

YouTube



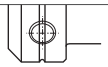
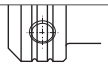
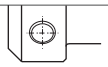
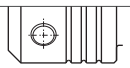


Specifications

Model		BC-005
Air Pressure	MPa (kgf/cm²)	0.6 (6)
Air Consumption (No-load)	m³/min	0.22
Free Speed	min⁻¹(rpm)	420
Deburring Hole diameter	mm	3 to 34
Countersink Shank Size	mm	6, 8, 10, 12*
Air Inlet Size		Rc 1/8
Mass (Weight)	kg	0.75
Accessories Included		• Chuck 6 mm • Chuck 8 mm • Chuck 10 mm (Installed) • Suspension Bail • 2.5 mm Hex Socket Screw Key • Bushing R 1/8 x NPT 1/4

*Chuck 12 mm is optional. (PN: TB09876)
Countersinks are not provided with the tool. Please purchase them locally.

Compatibility table between chuck and countersink shank diameter

PN	Chuck	Appearance*	Countersink Shank Diameter (mm)	Overall Length of Chuck (mm)
TB09392	Chuck 6		6	49.5
TB09391	Chuck 8		8	49.5
TB09390	Chuck 10		10	49.5
TB09876	Chuck 12		12	60

*Indicates outer appearances of the chucks around the hex socket head set screw.

Pneumatic Hacksaw

SUPER SAW

Model SSW-110 CE



Special double-piston system provides low vibration while improving cutting speed!

- Ideal for sawing and trimming operations on sheet metal, aluminum, plastic and other materials
- Suitable for automotive, fabrication, HVAC, electrical and woodworking applications
- Ultra lightweight construction with low vibration performance
- Optimized blade stroke for maximum cutting performance
- Powerful dual piston construction
- Locking throttle lever helps prevent accidental start-up



Specifications

Model	SSW-110
Air Pressure MPa (kgf/cm²)	0.6 (6)
Air Consumption (No-load) m³/min	0.29
Strokes per Minute min⁻¹	7000
Stroke Length mm	11
Capacity (Max. plate thickness) mm	3
Air Inlet Size	Rc 1/4
Mass (Weight) kg	0.62
Accessories Included	• 2 pieces of 32 TPI Saw Blade • 3 mm Hex Socket Screw Key • Bushing R 1/4 x NPT 1/4

Optional Accessories

Ref. No.	PN	Description	Sales Unit
1	TB11099	9 TPI Saw Blade for Gypsum-board	10 pcs./set
2	TB11100	12 TPI Saw Blade for Plywood Panel	
3	TB11101	14 TPI Saw Blade for Plastic	
4	TB11102	18 TPI Saw Blade for Plastic	
5	TB11103	24 TPI Saw Blade for Mild Steel	
6	TB11104	32 TPI Saw Blade for Mild Steel	



Pneumatic Hand Drill

AIR DRILL

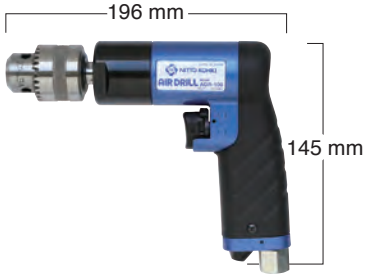
The power and performance you need to drill deeper and faster

- Ultra high power-to-weight ratio
- Ergonomically designed to reduce operator fatigue
- Variable speed control
- Reversible rotation direction
- Designed for industrial and production applications

Model ADR-65 CE

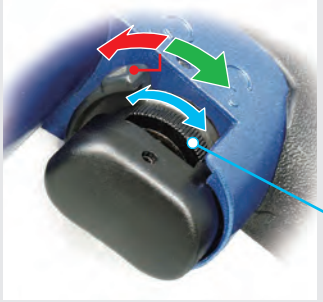


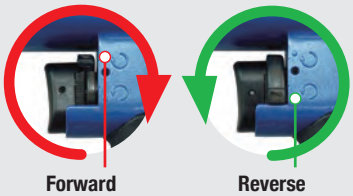
Model ADR-100 CE



Reversible

Change rotation direction by turning the valve as indicated.





Variable speed adjustment
Turn the speed control nut to change the R.P.M.

Specifications

Model	ADR-65	ADR-100
Air Pressure MPa (kgf/cm²)	0.6 (6)	
Air Consumption (No-load) m³/min	0.55	0.67
Free Speed min⁻¹(rpm)	2900	2000
Max. drilling Capacity mm	6.5	10.0
Air Inlet Size	Rc 1/4	
Mass (Weight) kg	0.8	1.1
Accessories Included	• Drill chuck (Installed) • Chuck Handle • Bushing R 1/4 x NPT 1/4 • CUPLA 30SH	

Optional Accessory

PN	Description	Sales Unit
TQ10969	Hanger	1 piece

SPRING BALANCER series



Spring balancer improves work safety and efficiency

Our spring balancers offer a simple cost effective solution to take the strain out of handling tools thus improving work safety and efficiency. The balancer range covers 0.5 to 70 kg tool capacity with a maximum cable length of 1.5 meters.

Specifications

Model		TW-00	TW-0	TW-3	TW-5
Capacity	kg	0.5 - 1.5	0.5 - 1.5	1.0 - 3.0	2.5 - 5.0
Stroke	m	0.5	1.0	1.7	1.7
Weight	kg	0.2	0.5	1.4	1.5

Model		TW-9	TW-15	TW-22	TW-30
Capacity	kg	4.5 - 9.0	9.0 - 15.0	15.0 - 22.0	22.0 - 30.0
Stroke	m	1.6	1.6	1.5	1.5
Weight	kg	3.6	4.0	7.2	7.6

Model		TW-40	TW-50	TW-60	TW-70
Capacity	kg	30.0 - 40.0	40.0 - 50.0	50.0 - 60.0	60.0 - 70.0
Stroke	m	1.5	1.5	1.5	1.5
Weight	kg	9.8	10.4	11.6	11.8

HOSE REEL BALANCER series



Functions both as balancer and hose reel

Specifications

Model			HW-0	HW-3	HW-5
Capacity		kg	0.5 - 1.5	1.5 - 3.0	3.5 - 5.0
Stroke		m	1.3	1.3	1.3
Weight		kg	1.6	1.7	1.8
Hose Diameter	I.D.	mm	6.5	6.5	6.5
	O.D.	mm	10	10	10

RETRACTOR series



Handy knob for easy tension adjustment

Specifications

Model		RW-0	RW-3	RW-5	TW-06R	TW-1R
Capacity	kg	0.5 - 1.5	1.0 - 3.0	2.5 - 5.0	0.2 - 0.6	0.5 - 1.5
Stroke	m	2.0	2.0	2.0	1.5	1.5
Weight	kg	0.5	0.7	0.9	0.3	0.3

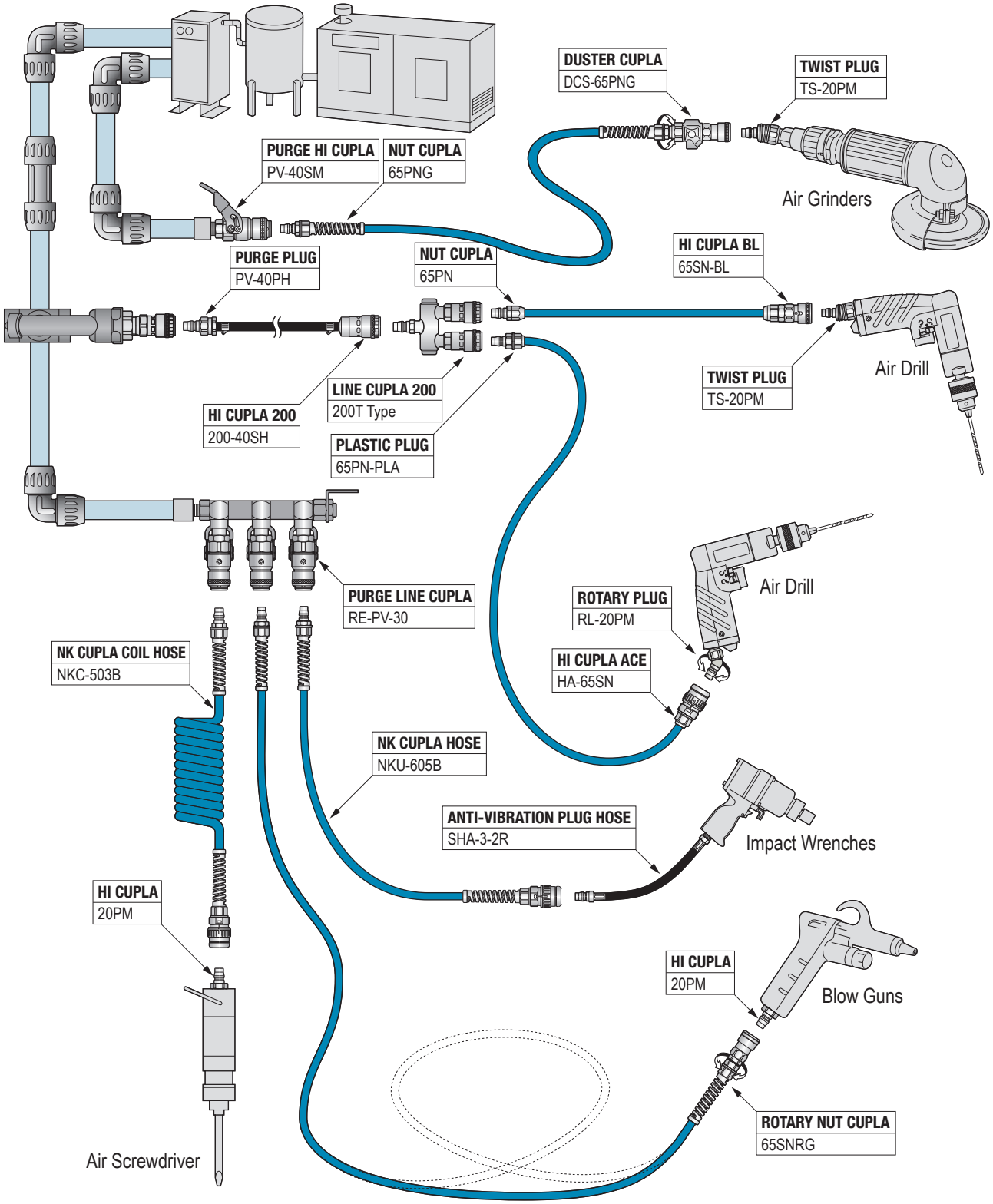
Vibration Level, Sound Pressure Level, and Sound Power Level

Figures may vary depending on applications

Series	Model	Vibration Level m/s²	Measurement Point	Vibration Standard	Sound Pressure Level dB(A)	Sound Power Level dB(A)
AIR CHIPPER (Pneumatic)	ACH-16	66	Grip	EN 28927-9	86	97
	CH-24	100	Grip		87	98
AIR SONIC (Pneumatic)	AL-55A	0.8	Grip	ISO 28927-12	71	82
	L-25B	7.2	Grip		76	87
	L-35C	3.1	Grip		76	87
AUTO CHISEL (Pneumatic)	A-300	≧ 30	–	EN 28927-9	97	108
BELTON (Pneumatic)	B-10D	≦2.5	Grip	ISO 20643	79	90
	B-20D	≦2.5	Grip		86	97
	B-20D-A	≦2.5	Grip		86	97
	B-30CL	≦2.5	Sub Handle		86	97
	BB-10B (Lever)	≦2.5	Grip L		79	90
		≦2.5	Grip R			
	BB-10B (Ring)	≦2.5	Grip L		79	90
		≦2.5	Grip R			
	BB-20	≦2.5	Grip L		85	96
		≦2.5	Grip R			
BEVELER (Pneumatic)	AMB-0307	4.1	Grip	EN ISO 20643	87	98
		6.3	Knob			
	AMBL-0307	4.1	Grip		87	98
		6.3	Knob			
	CB-01	≦2.5	Grip		88	99
	CB-02	4.1	Grip		74	85
	CBR-03	≦2.5	Grip		81	92
		3.4	Handle			
BEVELER (Electric)	ECB-0203	7.0	Grip	EN 60745-1	83	84
		7.0	Knob			
	EMB-0307C	8.3	Grip		88	99
		3.7	Knob			
	HB-15B	≦2.5	Grip		64	75
		4.6	Handle			
	MB-03A	5.9	Grip		80	91
		6.6	Knob			
BURR CUTTER (Pneumatic)	BC-005	4.2	Grip	EN 20643	89	100
COMPACT MULTI SANDER (Pneumatic)	CMX-20	≦2.7	Grip	EN 28927-3	76	87
FREE SANDER (Pneumatic)	FS-50A	2.7	Grip		77	88
	FS-100C	≦2.5	Grip		85	96
JET CHISEL (Pneumatic)	AJC-16	4.8	Grip	EN ISO 28927-9	84	95
	JC-16	8.3	Grip		81	92
		11.5	Needle Guide			
	JEX-20	9.0	Grip		92	103
	JEX-24	10.5	Grip		93	104
		28	Needle Guide			
	JEX-28	15.0	Grip		96	107
		17.5	Needle Guide			
	JEX-2800A	11.5	Grip		94	105
		14.5	Needle Guide			
	JT-10	15.0	Grip		89	100
	JT-16	9.5	Grip		92	103
	JT-20	15.5	Grip		91	102
JET CHISEL (Electric)	EJC-32A	16.0	Grip	EN 60745-2-6	85	96
		15.0	Handle			
LINE SANDER (Pneumatic)	LS-10	6.0	Grip	EN 20643	78	89
MICRO AIR HAND (Pneumatic)	MAH-05	≦2.5	Grip	EN 28927-8	65	76
	MAH-16	≦2.5	Grip		67	78
MYTON (Pneumatic)	MG-40 (Lever)	5.9	Grip	ISO 28927-1	86	97
	MG-40 (Ring)	6.0	Grip		84	95
	MYG-25L	≦2.5	Grip	ISO 20643	85	96
	MYG-40L	5.3	Grip	ISO 28927-1	90	101
	MYG-50	4.5	Grip		92	103
		4.2	Handle			
	MYG-70 (Lever)	3.2	Grip		92	103
		8.2	Handle			
	MYG-70 (Ring)	3.2	Grip		92	103
		8.2	Handle			
	MYS-20L	≦2.5	Grip	ISO 28927-3	85	96
	MYS-40	≦2.5	Grip		82	93
	MYS-70	≦2.5	Grip		89	100
		≦2.5	Handle			
ORBITAL SANDER (Pneumatic)	OSV-60A	4.6	Grip		89	100
		7.2	Supporting Section			
PALM ORBITAL SANDER (Pneumatic)	APS-125	5.5	Grip		78	89
	APS-150	7.4	Grip		81	92
SUPER HAND (Pneumatic)	ASH-900	4.8	Grip	EN 28927-8	62	73
	SH-100A	6.8	Grip		76	87
	SHL-40	≦2.5	Grip		71	81
SUPER KELEN (Pneumatic)	S-250	50	Grip	EN 28927-9	101	112
	S-500	29	Grip		100	111
		17.0	Supporting Section			
	S-1000	58	Grip		99	110
		81	Supporting Section			
SUPER SAW (Pneumatic)	SSW-110	9.3	Grip	EN 28927-8	71	82

CUPLA

Nitto Kohki supplies various types of air couplings to meet all needs of air piping from main supply, relays in factories, pipe end connections to pneumatic tools, and those of air piping within equipment. The following sketch gives you some examples of air piping using HI CUPLA Series and may serve as a good reference in selecting appropriate couplings. For more information, please visit http://www.nitto-kohki.co.jp/e/prd/d_cat/ and see our eCatalog here.



QUICK CONNECT COUPLINGS FOR PNEUMATIC TOOLS

HI CUPLA



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

YouTube

Specifications

Body material	Steel (Chrome-plated)	Brass	Stainless steel
Working pressure	1.5 MPa (15 kgf/cm²)	1.0 MPa (10 kgf/cm²)	1.5 MPa (15 kgf/cm²)
Seal material	Nitrile rubber / Fluoro rubber		

HI CUPLA 200



- Simple and secure push-to-connect type
- New valve design for low pressure loss to achieve flow rate increase

Specifications

Body material	Steel (Chrome-plated)
Working pressure	1.5 MPa (15 kgf/cm²)
Seal material	Nitrile rubber

NUT CUPLA



- No hose clamp required
- Nut types are available in HI CUPLA Series and HI CUPLA 200 Series
- To mount on hose, simply slide it over the nipple and tighten the nut

Specifications

Body material	Steel (Chrome-plated), Stainless steel
Working pressure	1.5 MPa (15 kgf/cm²)
Seal material	Nitrile rubber

HI CUPLA ACE



- Lightweight plastic coupling with safety lock
- Pressure ratings comparable to steel HI CUPLA
- Just push plug into socket for simple connection

YouTube

Specifications

Body material	Engineering plastics (PBT, POM)
Working pressure	1.5 MPa (15 kgf/cm²) 1.0 MPa (10 kgf/cm²) for Model HA-T
Seal material	Nitrile rubber

ROTARY PLUG



- Newly developed rotary function allows 360° swivelling
- Rotary neck plug for hose connection to pneumatic tools and pneumatic devices
- Fits at 45° angle to the tool eliminating annoying offset load caused by connected hose

Specifications

Body material	Steel (Nickel-plated), Stainless steel
Working pressure	1.5 MPa (15 kgf/cm²)
Seal material	Nitrile rubber

FULL BLOW CUPLA



- Unique full-open gate type valve mechanism realizes low pressure loss and high flow rate, which reduces required source air volume
- The flow rate is increased by up to 40% more than that of conventional HI CUPLA
- During connection and disconnection, the valve is closed, enabling connection/disconnection under zero line pressure

YouTube

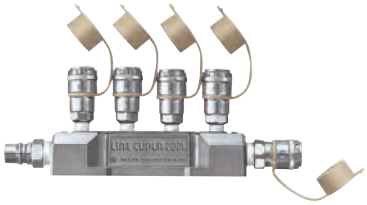
Specifications

Body material	Aluminum alloy
Working pressure	1.5 MPa (15 kgf/cm²)
Seal material	Nitrile rubber

*For more information, please visit https://www.nitto-kohki.co.jp/e/ and see our eCatalog here.

QUICK CONNECT COUPLINGS FOR PNEUMATIC TOOLS

LINE CUPLA



- Enables several air lines to be taken simultaneuosly from one supply line
- Just push in the plug into socket for simple and secure connection
- Choose from the 2-outlet type (Model 200T), the 5-outlet straight type (Model 200L) and the 5-outlet star type (Model 200S) to suit your application

Specifications	
Body material	Aluminum
CUPLA	Steel (Chrome-plated)
Working pressure	1.5 MPa (15 kgf/cm²)
Seal material	Nitrile rubber

HI CUPLA BL





- Sleeve-lock mechanism prevents accidental disconnection
- Critical structural parts made of steel are heat-treated for increased strength giving greater durability and resistance to wear
- SN-BL type for connection to urethane hose requires no hose clamp

Specifications	
Body material	Steel (Chrome-plated), Stainless steel
Working pressure	1.5 MPa (15 kgf/cm²)
Seal material	Nitrile rubber

PURGE PLUG



- Eliminates an unleasant popping noise and accidental hose whip on disconnection
- Unique design of air purge system enables the residual pressure release quickly and quietly.
- The function is assured even under a high supply pressure or with a long hose

YouTube

Specifications	
Body material	Steel (Chrome-plated)
Working pressure	1.0 MPa (10 kgf/cm²)
Seal material	Nitrile rubber

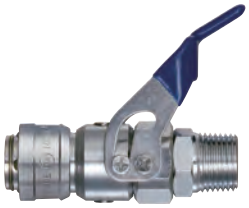
ANTI-VIBRATION PLUG HOSE



- Protects CUPLA from shock generated by vibrating tools and impact tools
- Prevents hard-to-notice flow reduction caused by CUPLA wears under continuous vibration
- Flexible rubber hose allows free and wide range of tool motion.

Specifications	
Size (Thread)	R 1/4", R 3/8"
Inlet (Plug)	HI CUPLA (30PH)
Overall length	320 mm

PURGE HI CUPLA



- Just push in the plug for connection regardless of internal pressure in socket
- Eliminates an unleasant popping noise and accidental hose whip on disconnection
- Even after connection, lever operation gives perfect control over valve opening/closing

Specifications	
Body material	Brass (Chrome-plated)
Working pressure	1.0 MPa (10 kgf/cm²)
Seal material	Nitrile rubber

ROTARY LINE CUPLA



- Multiple outlets are available from single air supply source.
- Sideway air outlets are rotatable to any angle. Possible hose twists can be eliminated by the swivel mechanism
- Choose either RT type (2 outlets) or RE type (3 outlets) to suit you application

Specifications	
Body material	Body: Brass (Chrome-plated), CUPLA: Steel (Chrome-plated)
Working pressure	1.5 MPa (15 kgf/cm²)
Seal material	Nitrile rubber

Nitto Kohki's Labor Saving Products

Nitto Kohki is capturing the needs of users by introducing to the world not only "machine tools and power "CUPLA" quick connect couplings, and linear-motor-driven piston "compressors/vacuum pumps".

Professional Tools for Assembling High-Technology Goods

Electric screwdriver "delvo" is a high quality tool for professional use, with special emphasis on precise torque control and long-term reliability. "delvo" gives you the ability to get it right, every time.

delvo Brushless Type C series (DLV45C/DLV70C)

YouTube


DLV45C12L


DLV70C06P


DCC0241X

- Torque range: 0.6 to 7.0 Nm
- Speed: 100 to 1200 min^{-1}
- Machine screw size: 3.0 to 8.0 mm
- Current-controlled torque system
- Built in screw counting function
- Thirty different torque settings can be set on a single screwdriver.

delvo Brushless Type C series (DLV04C/DLV10C)

YouTube


DLV04C10L


DLV10C10L


DCC0101X

- Torque range: 0.05 to 1.0 Nm
- Speed: 100 to 1000 min^{-1}
- Machine screw size: 1.2 to 4.0 mm
- Current-controlled torque system
- Built in screw counting function

delvo Brushless Type S series (DLV30S/DLV45S/DLV70S)

YouTube


DLV30S06P


DLV30S12P


DLV30S20L


DEA0151N-AZ


DEA0241N-AZ

- Torque range: 0.4 to 7.0 Nm
- Speed: 160 to 2000 min^{-1}
- Machine screw size: 2.6 to 8.0 mm
- Automatic speed control function
- Settings can be configured with the Remote Controller
- Built in screw counting function

delvo Brushless Type A series (DLV30A/DLV45A/DLV70A)

YouTube


DLV30A06P


DLV30A12L


DLV30A20P


DLV45A12L

- Torque range: 0.4 to 7.0 Nm
- Speed: 650 to 2000 min^{-1}
- Machine screw size: 2.6 to 8.0 mm
- Brushless motor and newly designed clutch provide a more consistent torque output over the life of the tool
- More accurate torque control and considerably quieter operation when compared to pneumatic screwdrivers

*For more information, please visit https://www.nitto-kohki.co.jp/e/ and see our eCatalog here.

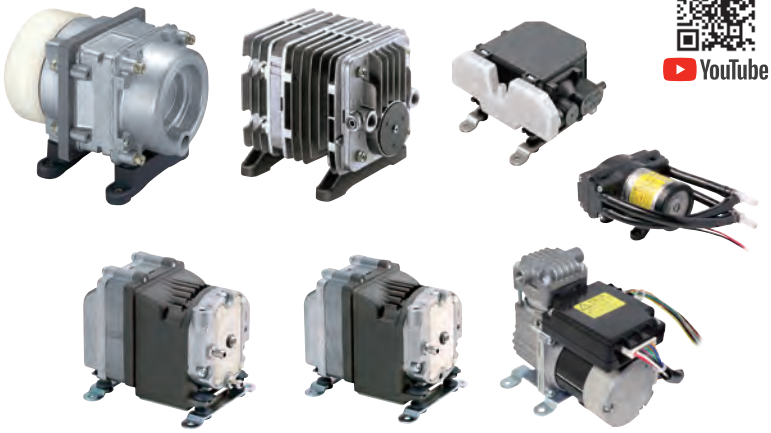
tools", but also next-generation laborsaving devices, including high precision "delvo" electric screw drivers,

Nitto Kohki's Compressors and Vacuum Pumps will enhance your system flexibility

Nitto Kohki offers a diverse lineup of compressors and pumps, including linear-driven, electromagnetic diaphragm, DC, and "bimorph" piezoelectric models. Our compressors and pumps are highly regarded for their compact and lightweight design, low noise levels, clean operation, and exceptional durability for extended service life. By further advancing these technologies, we are expanding their applications to various fields, including medical, well-being, health devices, and environmentally related equipment.

AC Linear Free Piston Compressor
AC Linear Free Piston Vacuum Pump
DC Linear Free Piston Compressor
DC Linear Free Piston Vacuum Pump
AC Linear Diaphragm Pump
DC Diaphragm Pump
DC Piston Pump

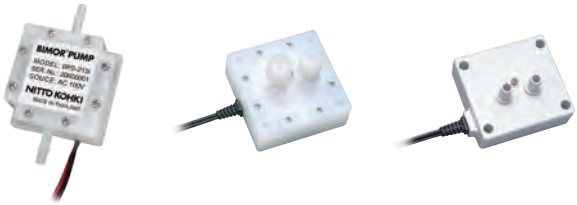
- Compact, lightweight, low vibration, low noise level, clean operation and longer durability



YouTube

Piezoelectric Pump

- Compact, lightweight, durable and quiet
- Low power consumption and electromagnetic noise



YouTube

DC Diaphragm Liquid Pump

- Built-in pulse absorption chamber
- Many build material options for different liquids
- Self-priming type with air suction acceptable



YouTube

AC Linear Free Piston Blower

- Linear blowers for aeration
- Low noise and easy maintenance

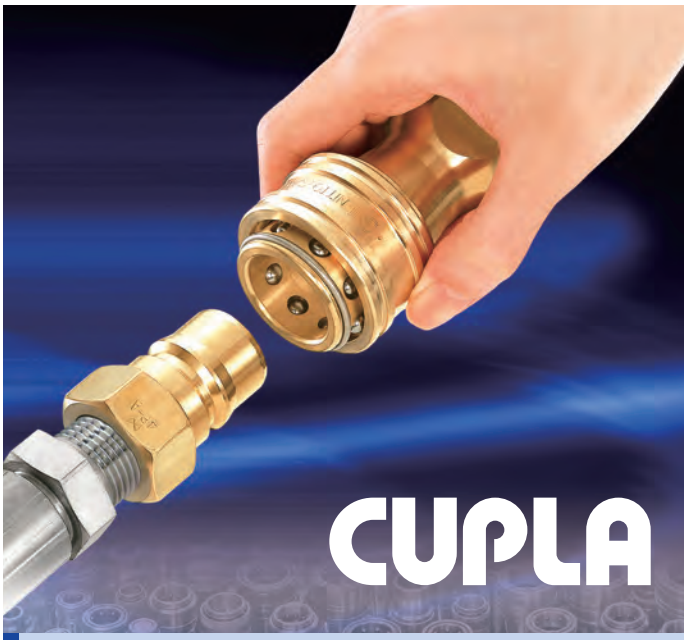


YouTube

Nitto Kohki's Labor Saving Products

Nitto Kohki is capturing the needs of users by introducing to the world not only "CUPLA" quick connect couplings, but also next-generation laborsaving devices, including various "Power and Machine Tools", high precision "delvo" electric screwdrivers, and linear-motor-driven free piston "compressors / vacuum pumps".

Nitto Kohki's Quality Products



Quick Connect Couplings

Nitto Kohki's quick connect couplings, "CUPLA" enables speedy connections/disconnections of various pipings, such as air, water, oil and gas.
Wide varieties of body materials such as steel, brass, aluminum, stainless steel and plastic are available to match every customer's needs.



Compressors, Vacuum Pumps and Their Applied Products

Nitto Kohki 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 uniquely functional design. These are quite appropriate as air sources or suction power units for various pneumatically operated equipment and apparatus in advanced industries.



High Precision "delvo" Electric Screwdrivers for Professional Use

Nitto Kohki Electric Screwdriver "delvo" is 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 are smooth and shockless in operation, too.

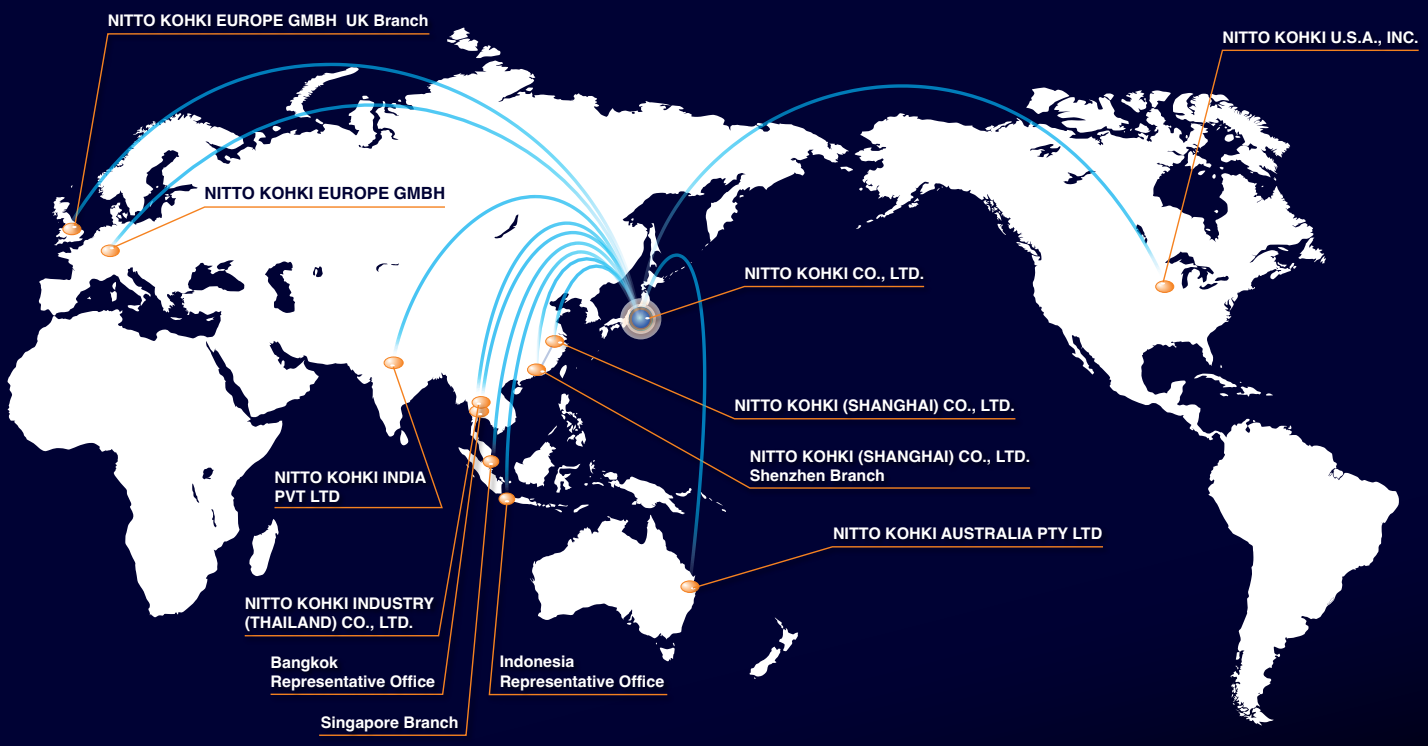


Door Closer "AUTO-HINGE" Series

Center Hang Type / Flag Type / Sliding Door Closer

Door closer is a product which allows doors to be closed quietly and safely. Used for various doors worldwide such as medical institutions, wellness centers, offices and transportation equipment. The door closing is automatically controlled by the action of springs and hydraulics, resulting in an armless and neat door.

NITTO KOHKI´s GLOBAL NETWORK




NITTO KOHKI CO., LTD.


NITTO KOHKI U.S.A., INC.


NITTO KOHKI EUROPE GMBH


NITTO KOHKI EUROPE GMBH
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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. 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 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 required to complete the job. Always let the tool do the work at the rate for 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 footwear during or around operating tools. Wear a protective hair covering to contain long hair. Do not wear loose clothing 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 lose stability during tool operation and always maintain correct posture.
- Use clamps or a vise to secure the workpiece tightly and eliminate vibration. Never hold the workpiece 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 purposes 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 to ensure they 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.
- Do not use any machine with damaged, frayed, cut, or deteriorated power cords or air hoses. Always replace them 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 ensuring all power buttons or levers are 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 tool operation.
- 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 Electric Tools

- The power source must be limited to the individual tools specifications as stated on the nameplate or instruction manual.
- Ensure that all machine and power tools are properly grounded at all times (except for double-insulated tools). Always use a GFCI (Ground-Fault-Circuit-Interrupter) to protect the user and surrounding persons from electric shock.
- Be aware of low voltage situations. Improperly gauged extension cords or power cords, when used or shared with other electrical devices, may cause all tools on the line to operate below optimal performance. This condition may result in damage to the machine and/or operator.

Notice for Air Tools

- The air pressure at the inlet of the tool must not exceed 0.6 MPa (6 kgf/cm^2).

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