

POWER TOOLS & MACHINE TOOLS

GENERAL CATALOG



CONTENTS

Product Line

Boring	Atra Ace -----	5
Punching	Selfer -----	17
	Pump -----	17
	Handy Selfer -----	19
Chamfering	Beveler -----	25
Scaling	Air Chipper -----	30
	Auto Chisel -----	31
	Super Kelen -----	32
	Jet Chisel -----	33
Grinding & Sanding	Myton -----	35
	Belton -----	37

Grinding & Sanding	Free Sander -----	41
	Line Sander -----	42
	Orbital Sander -----	43
	Palm Orbital Sander -----	43
	Air Sonic -----	44
Filing	Super Hand -----	45
	Micro Air Hand -----	47
Deburring	Burr Cutter -----	47
Cutting	Super Saw -----	48
Drilling	Air Drill -----	48
Suspending	Spring Balancer -----	49

Consumables

Annular Cutters	Broach Cutters & Broach Holders -----	15
Punches & Dies	Punches & Dies for Selfer -----	20
Indexable Inserts	Indexable Inserts for Beveler -----	29

Needles	Needles for Jet Chisel -----	34
Grinding & Sanding Discs	Grinding & Sanding Discs for Myton -----	36
Abrasive Belts	Abrasive Belts for Belton -----	38,40

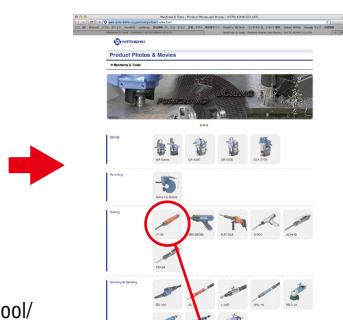
Green Procurement

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 exclude restricted chemical substances from our products as designated by RoHS directives, laws and regulations of chemical substances.

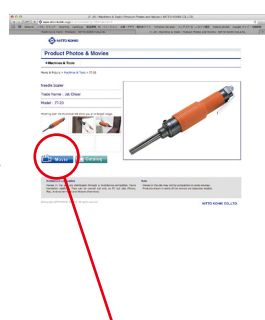
Check out our video gallery to see our products at work.



www.nitto-kohki.co.jp/e/prd/pv/tool/



Click on a product picture.



Click on "Movie"



You can also view this on your smartphone or tablet.

High-End Features of Atra Ace Drilling Machines

High-End Features of Atra Ace Drilling Machines Enhance Your Productivity and Safety

Ref. No.	Features	QA-4000	QA-6500	WA-3500	WA-5000	WOJ-3200	AO-5575	LO-3550	CLA-2720	A-100
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	●	●	●	●	●	●	●	●	—

- Automatic control & feed are activated by simply pushing the feed handle to engage the clutch.
- The feed speed is reduced for the first few seconds after boring begins to ensure a smooth cut through the mill scale.
- 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.
- The feed speed is continuously monitored and updated proportionally to the load on the cutter.
- QA-4000/QA-6500** : The sensing system responds to drilling forces on the cutter for the optimum cutting condition.
WA-3500/WA-5000 : The dual sensing system responds to both drilling and feeding forces on the cutter for the optimum cutting condition.
- The drill will not start until the magnetic field is active.
- QA-4000/QA-6500/WA-3500/WA-5000/WOJ-3200/AO-5575/LO-3550** : 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.
CLA-2720 : If the battery pack is replaced/removed whilst both the magnet and the drill motor switch are in the on position, the drill will not operate until both switches are reset.
- QA-4000/QA-6500/WA-3500/WA-5000** : If any lateral movement or excess vibration is detected, both the drill and the feed motor stop.
AO-5575/CLA-2720 : If any lateral movement or excess vibration is detected, the drill motor stops.
- QA-4000/QA-6500/WA-3500/WA-5000** : When an excessive load is applied to the cutter, both the drill and the feed motor will stop automatically.
WOJ-3200/AO-5575/LO-3550/CLA-2720/A-100 : When an excessive load is applied to the cutter, the drill motor will stop automatically.
- 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-3500/WA-5000 : After the cut has finished, a detector responds to the reduction in load and both the drill and the feed motor automatically stop.
- While the drill motor is running, if no load is applied within 10 seconds, the drill will stop automatically to save the battery.
- Replacement is quick and easy with our unique push fit self-centering cutter system.

Atra Ace Specifications



CLA-2720



LO-3550



WA-3500



WA-5000

Specifications

Model		CLA-2720		LO-3550	WA-3500		WA-5000					
Electric Drill	Power Source (Single Phase)	Battery		220 - 240 V AC, 50/60 Hz	110 - 120 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	324		800	1100		1150					
	Rated Current A	18		3.3	10.2	5.1	10.8		5.4			
	No-load Speed min ⁻¹ (rpm)	430		950	950		350 / 650					
Magnet Power Consumption W		18		35	34		75					
Hole Capacity	Max. Hole Diameter		27		35	35		50				
	Max. Plate Thickness		20		50	35		75				
	One-touch Type JETBROACH	Hole Diameter mm	12 to 17	17.5 to 27	12 to 35	17.5 to 35		12 to 17	17.5 to 50	12 to 17	17.5 to 50	
		Plate Thickness mm	6 to 12	6 to 20	6 to 50	9 to 50		9 to 50	9 to 75	9 to 50	9 to 75	
	Side-lock Type JETBROACH	Hole Diameter mm	—		—	—		—				
		Plate Thickness mm	—		—	—		—				
	One-touch Type HI-BROACH	Hole Diameter mm	12 to 15	16 to 27	—	14 to 35		14 to 50				
		Plate Thickness mm	6 to 12	6 to 20	—	9 to 25		9 to 50				
	Twist Drill	Hole Diameter mm	—		—	—		—				
Max. Stroke mm		60		80	83		107					
Magnet Holding Power N(kgf)		5500 (561)		5500 (561)	7056 (720)		9800 (1000)					
Magnet Dimensions mm		65 x 126		65 x 145	92 x 213		101 x 201					
Power Cord Length m		—		3	3		3					
Mass (Weight) kg		7		8.7	20		23					
Feeding		Manual		Manual	Automatic		Automatic					
Page		5		7	9		9					

Atra Ace Specifications



WOJ-3200



AO-5575



QA-4000



QA-6500



A-100

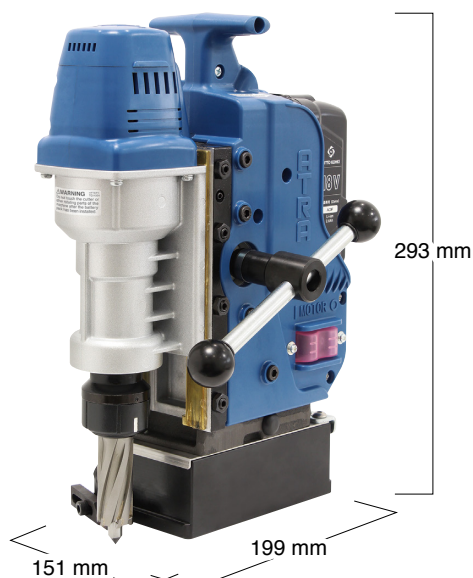
	WOJ-3200		AO-5575				QA-4000				QA-6500	A-100
	110 - 120 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz	110 - 120 V AC, 50/60 Hz		220 - 240 V AC, 50/60 Hz		110 - 120 V AC, 50/60 Hz		220 - 240 V AC, 50/60 Hz		220 - 240 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz
	950		1150				680				1010	1600
	8.6	4.3	10.8		5.4		6.1		3.0		4.5	7.4
	870		350/650				750				400/750	330
	38	30	50				50				75	80
	32		55				40				65	100
	50		75				35				50	75
	12 to 32		12 to 17	17.5 to 55	12 to 17	17.5 to 55	17.5 to 40				17.5 to 65	—
	9 to 50		9 to 50	9 to 75	9 to 50	9 to 75	9 to 35				9 to 50	—
	—		—				—				—	50 to 100
	—		—				—				—	13 to 75
	—		12 to 50				14 to 15	16 to 18	14 to 15	16 to 18	18 to 35	—
	—		9 to 50				9 to 12	9 to 25	9 to 12	9 to 25	9 to 25	—
	Max. 13		—				—				—	—
	130		105				75				88	122
	9000 (918)		10000 (1020)				6664 (680)				9800 (1000)	17640 (1800)
	99 x 177		86 x 170				82 x 172				100 x 200	130 x 256
	3		3				4		5		5	5
	13		18				18.5				26	50
	Manual		Manual				Automatic				Automatic	Manual
	11		11				13				13	14

Portable Magnetic Base Drilling Machine

ATRA ACE manual feed

Model **CLA-2720** 

• Max. 27 mm dia. x 20 mm deep



**Compact and cordless operation,
powered by a rechargeable lithium-ion battery.**

- Weighs only 7 kg with battery installed
- Compact size allows drilling in tight spots

Specifications

Model	CLA-2720		
Voltage	18 V DC		
Battery Pack (Lithium-ion Battery)	NBL18006 (18V 4.0 Ah)		
No-load Speed	min ⁻¹ (rpm)	430	
Hole	Cutter	Hole Diameter	Plate Thickness
Capacity mm	One-touch Type JETBROACH 25L	12 to 17	6 to 12
	One-touch Type JETBROACH 35L	17.5 to 27	6 to 20
	One-touch Type HI-BROACH 25L	12 to 15	6 to 12
		16 to 27	6 to 20
Magnet Holding Power	N(kgf)	5500 (561)	
Magnet Dimensions	mm	65 x 126	
Cutter Position	Pivot Side to Side	mm	10
Adjustment	Straight Front to Back	mm	10
Mass (Weight)	kg	7*	

*Including Battery Pack and Feed Handle

Battery Charger	NC14435
Power Source	220 - 240 V AC
Charging Time	90 min*
Chargeable Battery Pack	NBL18006 (18 V 4.0 Ah)

*In case of a full charge from an empty battery. However, it can be charged up to 95% in 45 min.

Accessories Included

- Carry Case
- Cutting Oil 0.5L
- Jet Oiler No.3013
- Tube 4 x 7 mm, 1 m Long
- Handle
- Battery Charger
- 2 pieces of Battery Pack 18V NBL18006
- Blade
- 3 mm Hex. Socket Screw Key
- 4 mm Hex. Socket Screw Key
- Hex. Socket Head Cap Screw 5 x 12
- Hex. Socket Head Set Screw 8 x 28
- Spanner 8 x 10
- Guard
- Safety Strap

TOP-LEVEL SAFETY

Highly Sensitive Sensor Equipped

Side slip and inclination detected by a built-in sensor

Self-check Function

The machine checks for faults itself

Highly Advanced Energy-Saving

Magnetic Force Control Function

The magnet force is automatically reduced when the drill is not running.

Soft Start Function

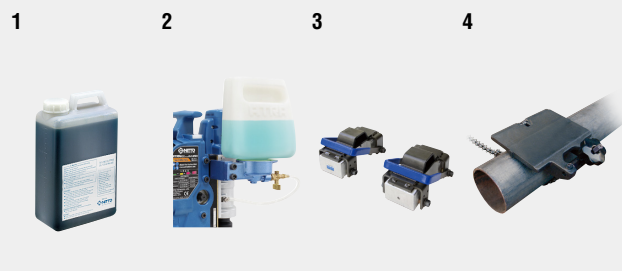
The large electric current on start-up is prevented by starting the electric drill gently.

Automatic Drill Stop and Warning Function

Unnecessary operations are eliminated.

Optional Accessories

Ref. No.	PN	Description	Sales Unit
1	TB01507	Cutting Oil 2L	1 piece
2	TB09657	Oil Tank Ass'y	
3	TB04374	Supporting Magnet Ass'y	
4	TB07696	Pipe Attachment Ass'y	
		One-touch Type JETBROACH 25L, 35L	
		One-touch Type HI-BROACH 25L	



Reversible Feed Handle

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




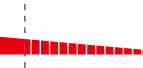
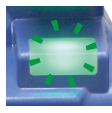
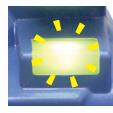
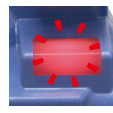
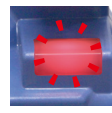


Li-ion

Lithium-ion batteries are required to be recycled; never discard a lithium-ion battery in the waste. Please contact your local sales office or community recycling program for information on properly disposing of lithium-ion batteries.

CLA-2720 LED Indication Light Safety Features







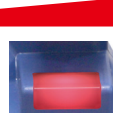
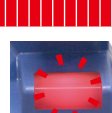
LED INDICATION – Battery level and Motor load can be monitored while drilling

VOLTAGE LEVEL				
BATTERY LEVEL INDICATION				
	 GREEN 3 TIMES*	 YELLOW 3 TIMES*	 RED 3 TIMES*	 RED BLINKING CONTINUOUS
MEANING	BATTERY FULL	PARTIALLY CHARGED	REQUIRE CHARGING	BATTERY LEVEL LOW

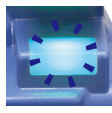
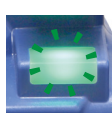

*After turning on the magnet switch the light flashes 3 times with the color according to the battery level, then the light will turn green and the tool is ready for use. If the light flashes red 3 times or continuously, replace the low battery pack with a charged battery pack.

LED Indication Light



ELECTRIC CURRENT OF THE ELECTRIC DRILL				
MOTOR LOAD INDICATION				
	 GREEN	 YELLOW	 RED	 RED BLINKING
MEANING	LIGHT LOAD	MEDIUM LOAD	OVERLOAD	

"Caution" If an excessive load is maintained during the cut, the motor will shut-off to prevent damage or injury to the operator.

SLIDE SLIP DETECTION	 BLUE BLINKING	When a slide slip is detected, the blue light will flash and the Motor will stop automatically.
"NO LOAD" DETECTION		While the electric drill is running, if no load is applied for 7 seconds, the green light will flash. After another 3 seconds without load, the electric drill will be stopped automatically.
MOTOR NOT ACTIVATED IN TIME	 GREEN BLINKING	After the Magnet switch is turned on, if the Motor switch is not turned on within 10 seconds, the green light will flash.

SAFETY

ENERGY-SAVING

Chip Breaker

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



Powered by Lithium-ion Battery

Using the Lithium-ion battery it takes about 90 minutes for a full charge. Sufficient charge (95%) can be achieved in just 45 minutes.



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.



BORING

Portable Magnetic Base Drilling Machine

ATRA ACE manual feed

Model **LO-3550** 

• Max. 35 mm dia. x 50 mm deep



Chip Breaker



Compact, light weight, 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	800 W	
	Rated Current	3.3 A	
	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
Magnet Holding Power		N(kgf)	5500 (561)
Magnet Dimensions		mm	65 x 145
Cutter Position		Pivot Side to Side	mm 10
Adjustment		Straight Front to Back	mm 10
Power Cord Length		m	3
Mass (Weight)		kg	8.7*

*Without an electric cord and a 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

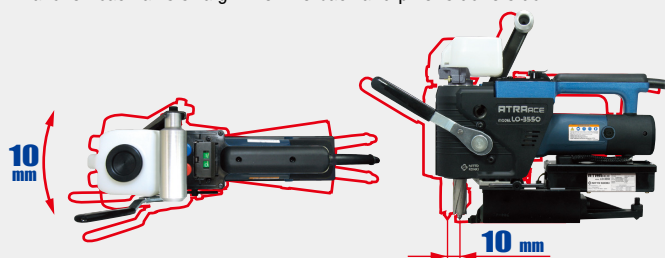
Optional Accessories

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



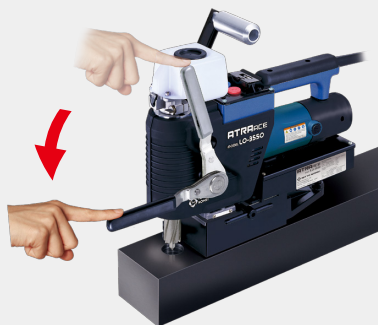
Easy Drilling Position Adjustment

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.



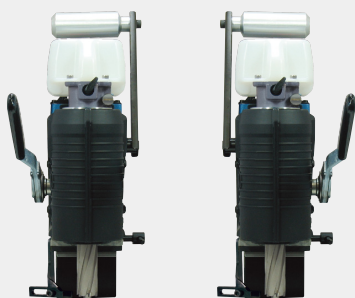
Light Handle Operation

Fast revolution of Jetbroach cutter makes less cutting resistance and smooth handling.



Reversible Feed Handle

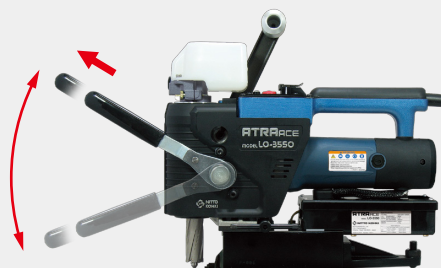
The feed handle can be positioned on the right or left hand side for ease of drilling and mounting in confined spaces.



Adjustable Feed Handle

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

Pull the feed handle to adjust the angle.

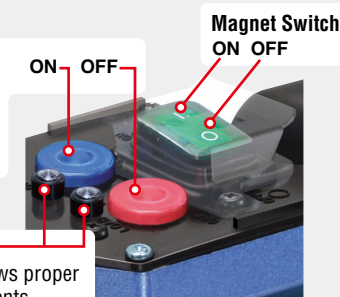


Easy-to-use Switch Panel

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.

Motor Switch
The motor switch can be activated after the magnet switch is turned on.

LED Load Indicator
The LED load display allows proper cutting pressure adjustments.



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 an Atra Ace on pipe 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:
CLA-2720, WOJ-3200, LO-3550, WA-3500, and QA-4000

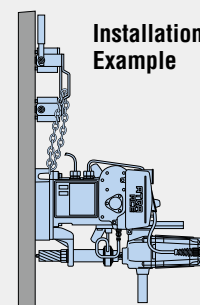
Supporting Magnet Ass'y

If the accessory safety strap or chain is unable to be properly secured to prevent the Atra Ace from falling off the workpiece, the supporting magnet ass'y is recommended. It employs a permanent magnet and can secure the Atra Ace even if power is interrupted.

PN : TB04374



Installation Example



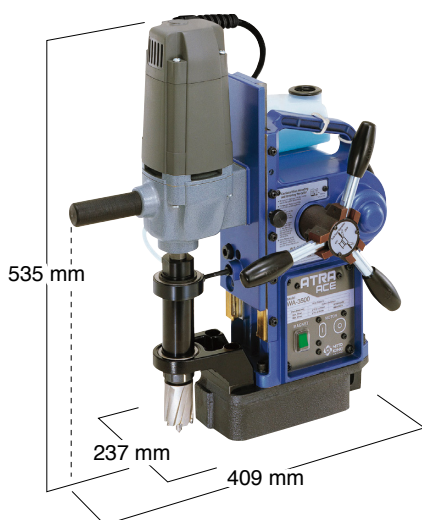
Applicable Models:
CLA-2720, LO-3550, WA-3500, WOJ-3200, AO-5575, QA-4000, and QA-6500

Portable Magnetic Base Drilling Machine

ATRA ACE auto

Model **WA-3500** 

• Max. 35 mm dia. x 50 mm deep



High-performance feed system & high-tech components

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

Model **WA-5000** 

• Max. 50 mm dia. x 75 mm deep



Specifications

Model		WA-3500		WA-5000	
Power Source (Single Phase)		110 - 120 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
Electric Drill	Rated Power Consumption	1100		1150	
	Rated Current	10.2	5.1	10.8	5.4
	No-load Speed	950		350 / 650	
Magnet Power Consumption		34		75	
Hole Capacity mm	Cutter	Hole Diameter	Plate Thickness	Hole Diameter	Plate Thickness
	One-touch Type JETBROACH 25L	-	-	12 to 17	9 to 25
	One-touch Type JETBROACH 35L	17.5 to 35	9 to 35	17.5 to 40	9 to 35
	One-touch Type JETBROACH 50L	17.5 to 35	9 to 50	12 to 50	9 to 50
	One-touch Type JETBROACH 75L	-	-	17 to 50	9 to 75
	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 50	9 to 50
Max. Stroke		83		107	
Magnet Holding Power		7056 (720)		9800 (1000)	
Magnet Dimensions		92 x 213		101 x 201	
Power Cord Length		3		3	
Mass (Weight)		20		23	
Accessories Included		<ul style="list-style-type: none"> • Carry Case • Cutting Oil 0.5L • Pilot Pin 08035 • Side Handle 		<ul style="list-style-type: none"> • 3 mm Hex. Socket Screw Key • 8 x 10 mm Spanner • Guard • Chain 	
		<ul style="list-style-type: none"> • 3 mm Hex. Socket Screw Key • 4 mm Hex. Socket Screw Key • 8 x 10 mm Spanner • Guard • Chain 		<ul style="list-style-type: none"> • 3 mm Hex. Socket Screw Key • 4 mm Hex. Socket Screw Key • 8 x 10 mm Spanner • Guard • Chain 	

Optional Accessories

Ref. No.	PN	Description	Sales Unit	Applicable Model	
				WA-3500	WA-5000
1	TB05186	Chip Breaker Ass'y	1 piece	●	●
2	TB01507	Cutting Oil 2L	1 piece	●	●
3	TB04374	Supporting Magnet Ass'y	1 piece	●	●
4	TB02536	Sleeve 6.5 for Triangle Shank Drill Bit	1 piece	●	●
5	TB07696	Pipe Attachment Ass'y	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	●	●
		One-touch Type HI-BROACH 50L	1 piece	●	●

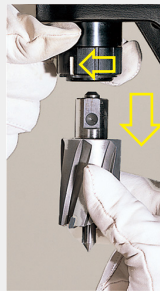


One-touch Cutter Replacement

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



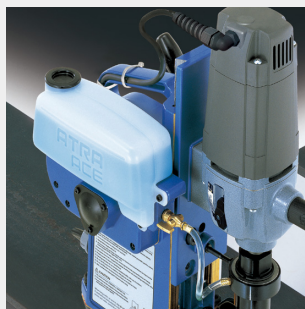
Mounting the cutter



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.

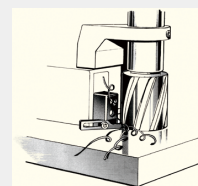
Magnet Open-circuit Sensor

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-5000
- Optional accessory for the WA-3500



Two Speed Selection (WA-5000)

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



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 feed 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

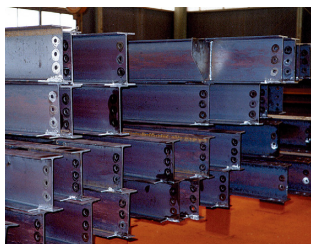
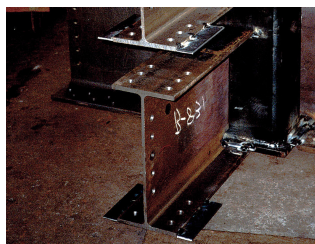
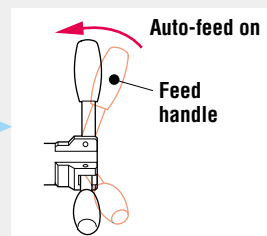
The feed speed is continuously monitored and updated proportionally to the load on the cutter.

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

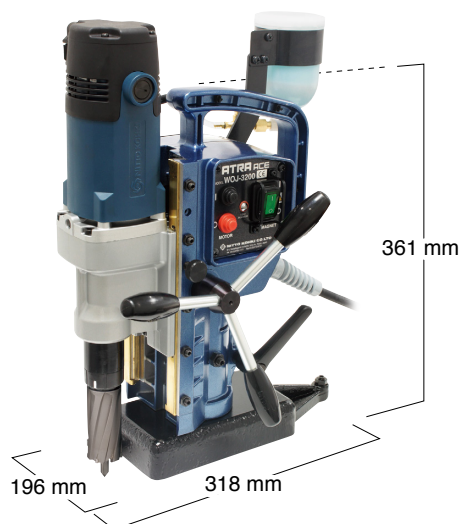
ATRA ACE manual feed

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

- Advanced safety system

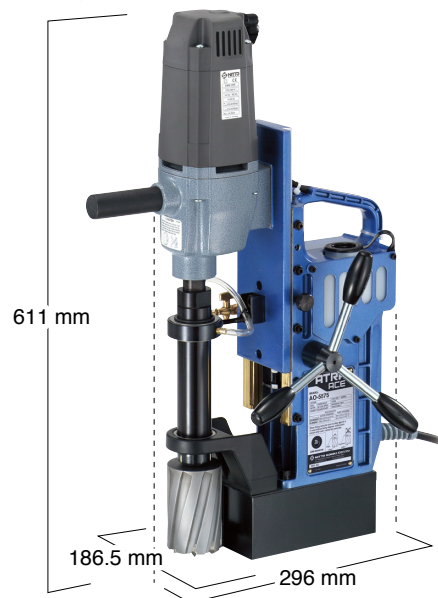
Model WOJ-3200

- Max. 32 mm dia. x 50 mm deep



Model AO-5575

- Max. 55 mm dia. x 75 mm deep



Specifications

Model		WOJ-3200				AO-5575											
Power Source (Single Phase)		110 - 120 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									
Electric Drill	Rated Power Consumption	W		950		1150											
	Rated Current	A		8.6		4.3		10.8									
	No-load Speed	min ⁻¹ (rpm)		870		350 / 650		5.4									
Magnet Power Consumption		W		38		30		50									
Hole Capacity mm	Cutter	Hole Diameter	Plate Thickness	Hole Diameter	Plate Thickness	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	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 32	9 to 35	17.5 to 40	9 to 35	17.5 to 40	9 to 35								
	One-touch Type JETBROACH 50L	12 to 32	9 to 50	12 to 32	9 to 50	12 to 55	9 to 50	12 to 55	9 to 50								
	One-touch Type JETBROACH 75L	-	-	-	-	17.5 to 55	9 to 75	17.5 to 55	9 to 75								
	One-touch Type HI-BROACH 25L	-	-	-	-	12 to 50	9 to 25	12 to 50	9 to 25								
	One-touch Type HI-BROACH 50L	-	-	-	-	12 to 50	9 to 50	12 to 50	9 to 50								
Twist Drill		Max. 13 mm dia.				-											
Max. Stroke		mm		130		105											
Magnet Holding Power		N(kgf)		9000 (918)		10000 (1020)											
Magnet Dimensions		mm		99 x 177		86 x 170											
Power Cord Length		m		3		3											
Mass (Weight)		kg		13		18											
Accessories Included		<ul style="list-style-type: none">• Carry Case• Oil Tank Ass'y• Pilot Pin 08035• Sub Handle• 2 pieces of Hex. Socket Head Bolt 5 x 10 mm				<ul style="list-style-type: none">• 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				<ul style="list-style-type: none">• Carry Case• Cutting Oil 0.5L• Pilot Pin 08050• Side Handle• 3 mm Hex. Socket Screw Key				<ul style="list-style-type: none">• 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-5575
1	TB07691	Chip Breaker Ass'y	1 piece	●	●
2	TB07474	Chip Breaker Ass'y	1 piece	●	●
3	TQ10581	Jet Oiler No.3013	1 piece	●	●
4	TB01098	Tube 4 x 7 x 3000 Ass'y	1 piece	●	●
5	TB01507	Cutting Oil 2L	1 piece	●	●
6	TB07696	Pipe Attachment Ass'y	1 piece	●	●
7	TB04374	Supporting Magnet Ass'y	1 piece	●	●
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	●	●
		One-touch Type HI-BROACH 50L	1 piece	●	●

*50L for stacked plates



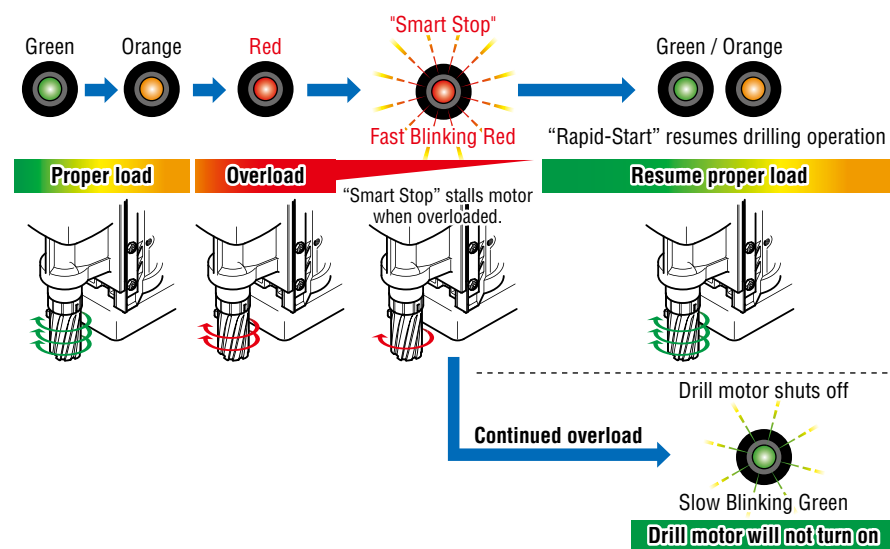
Load Detector with "Smart-Stop/Rapid-Restart" Technology

The world's first manual feed with "Smart-Stop / Rapid-Restart" technology for WOJ-3200 / AO-5575

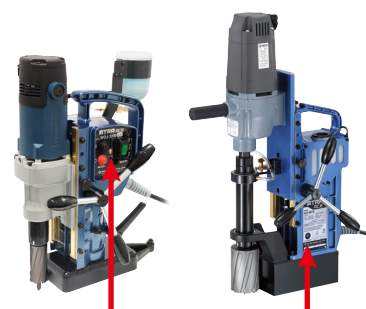
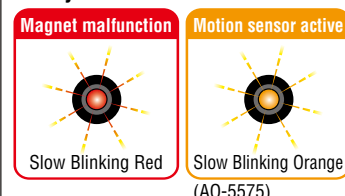
This new feature is a breakthrough in the Manual drill industry. Formerly only found on high end Nitto Kohki Automatic drills, this technology displays the current drill status via the LED Load Indicator. Customers will experience a cutting edge drill management system designed solely around saving time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



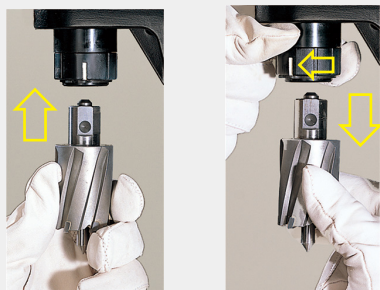
Safety mode



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.

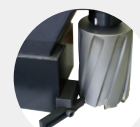


Chip Breaker

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



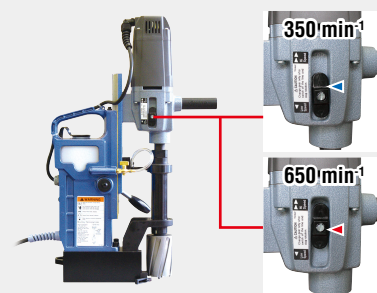
WOJ-3200



AO-5575

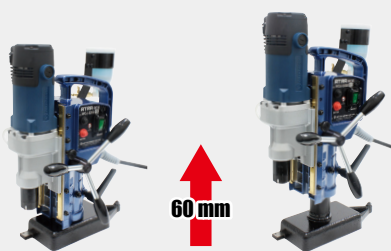
Two Speed Selection (AO-5575)

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



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.



60 mm

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-5575)



Portable Magnetic Base Drilling Machine

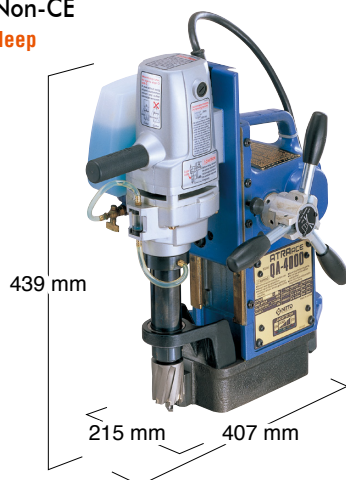
ATRA ACE quick auto

Fully automatic drilling for increased productivity and reduced cost

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

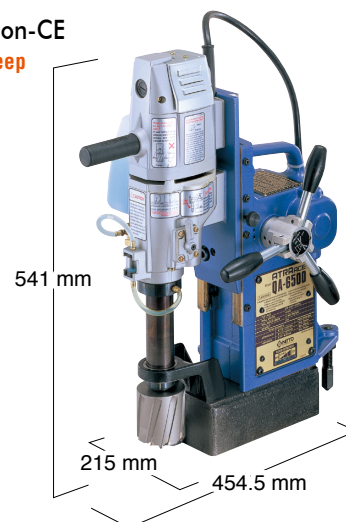
Model QA-4000 Non-CE

- Max. 40 mm dia. x 35 mm deep



Model QA-6500 Non-CE

- Max. 65 mm dia. x 50 mm deep

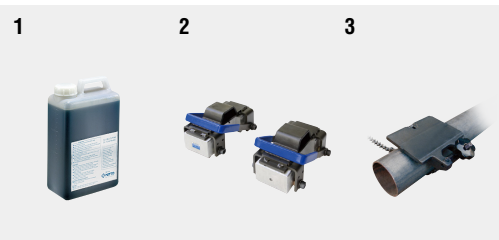


Specifications

Model		QA-4000		QA-6500	
Power Source (Single Phase)		115 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	
	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		
Max. Stroke		mm	75	88	
Magnet Holding Power		N(kgf)	6664 (680)	9800 (1000)	
Magnet Dimensions		mm	82 x 172	100 x 200	
Power Cord Length		m	4	5	
Mass (Weight)		kg	18.5	26	
Accessories Included		<ul style="list-style-type: none">• Oil Tank Ass'y• 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		<ul style="list-style-type: none">• Oil Tank Ass'y• 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 piece	●	●
3	TB07696	Pipe Attachment Ass'y	1 piece	●	●
		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	●	●

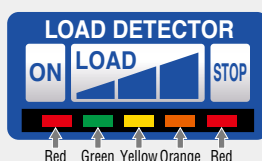


Automatic Return

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.

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.



Limit Switch

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

Built-in Motion Sensor

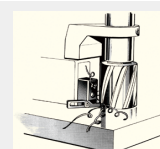
If any lateral movement or excess vibration is detected, both the drill and the feed motor stop. Nitto Kohki is the first company to incorporate this feature into magnetic base drills.

Step Feed

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

Chip Breaker

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



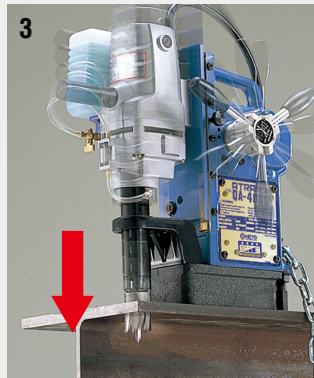
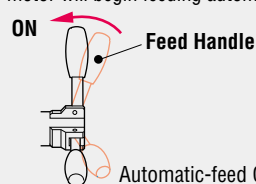
Automatic-feed Hole-cutting Procedure



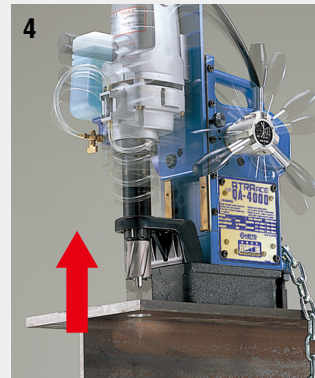
1 Align the pilot pin with the center punch mark of the hole to be drilled. Attach the machine to the beam with the proper safety chain and engage the magnet. Lower the drill down from the top limit switch location to the point of the pilot pin making contact with the material and engage the motor.



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



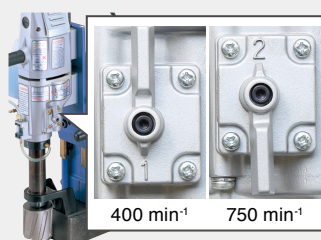
3 Slow start mechanism cuts smoothly through the mill scale. Then, speed and feed rate is controlled by the sensors to achieve efficient drilling.



4 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.

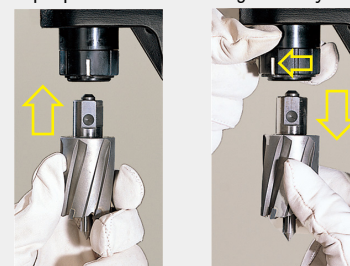
Two Speed Selection (QA-6500)

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

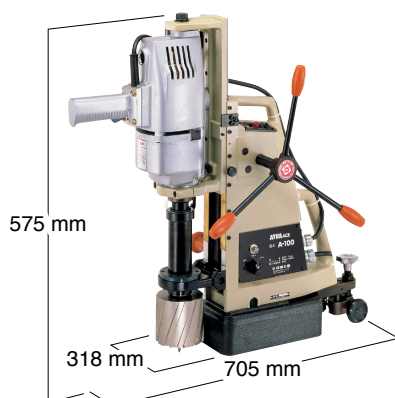
Removing the cutter

Portable Magnetic Base Drilling Machine

ATRA ACE manual feed

Model A-100 Non-CE

• Max. 100 mm dia. x 75 mm deep



The largest capacity drilling machine in the Nitto Kohki line.

• Equipped with overload indicator with motor shut-off feature

Optional Accessories

Ref. No.	PN	Description	Sales Unit
1	TB01507	Cutting Oil 2L	1 piece
2	TA99027	Chain	
		Side-lock Type JETBROACH 75L	

1



2



Specifications

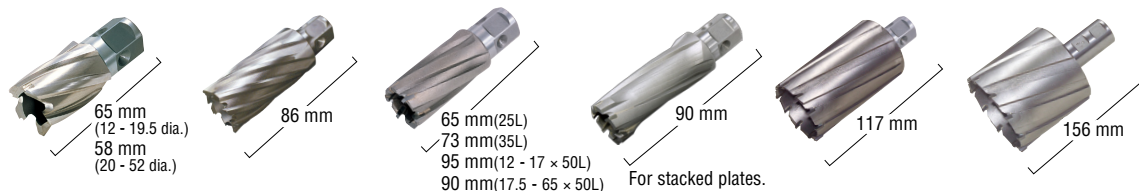
Model		A-100	
Power Source (Single Phase)		220 - 240 V AC, 50/60 Hz	
Electric Drill	Rated Power Consumption	W	1600
	Rated Current	A	7.4
	No-load Speed	min ⁻¹ (rpm)	330
Magnet Power Consumption		W	80
Hole Capacity	Cutter	Hole Diameter	Plate Thickness
Side-lock Type JETBROACH 75L		50 to 100 mm	13 to 75 mm
Max. Stroke		mm	122
Magnet Holding Power		N(kgf)	17640 (1800)
Magnet Dimensions		mm	130 x 256
Power Cord Length		m	5
Mass (Weight)		kg	50
Accessories Included		<ul style="list-style-type: none"> • Cutting Oil 0.5L • Oil Cup Ass'y • Pilot Pin 12075 • 3 pieces of Feed Handle • 2 mm Hex. Socket Screw Key • 2.5 mm Hex. Socket Screw Key • 3 mm Hex. Socket Screw Key • 4 mm Hex. Socket Screw Key • 5 mm Hex. Socket Screw Key • 6 mm Hex. Socket Screw Key • 8 mm Hex. Socket Screw Key • 7 x 8 mm Spanner • Chain • Tool Box 	

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 - 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		90 mm(17.5 - 65 × 50L) For stacked plates.					
		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 - 52 dia.	-	25L : 12 - 17 dia.	-	-	-
		-	-	35L : 17.5 - 40 dia.	-	-	-
		-	50L : 12 - 52 dia.	50L : 12 - 65 dia.	50L(W):18,22,24 - 26.5, 28,32, and 35 dia.	75L : 17.5 - 55 dia.	75L : 50 - 100 dia.
	Plate Thickness	-	-	-	-	-	-
		25L : 25 dia.	-	25L : 25 dia.	-	-	-
		-	-	35L : 35 dia.	-	-	-
		-	50L : 50 dia.	50L : 50 dia.	50L(W) : 50 dia.	-	-
		-	-	-	-	75L : 75 dia.	75L : 75 dia.
Feed Speed mm/rev		0.02 - 0.1					
Circumferential Speed m/min		15 - 35 (mild steel)			35 - 50 (mild steel)		

HI-BROACH One-touch Type		A0-5575	WA-3500	WA-5000	QA-4000	QA-6500	CLA-2720	Pilot Pin
Depth	mm dia.	PN						
25 mm	12	TK00698	●					06025
	13	TK00699	●					●
	14	TK00700	●	●	●	●		●
	15	TK00701	●	●	●	●		●
	16	TK00702	●	●	●	●		●
	17	TK00703	●	●	●	●		●
	17.5	TK00335	●	●	●	●		●
	18	TK00336	●	●	●	●		●
	19	TK00337	●	●	●	●		●
	19.5	TK00338	●	●	●	●		●
	20	TK00339	●	●	●	●		●
	21	TK00340	●	●	●	●		●
	21.5	TK00341	●	●	●	●		●
	22	TK00342	●	●	●	●		●
	22.5	TK00343	●	●	●	●		●
	23	TK00344	●	●	●	●		●
	23.5	TK00345	●	●	●	●		●
	24	TK00346	●	●	●	●		●
	24.5	TK00347	●	●	●	●		●
	25	TK00348	●	●	●	●		●
	26	TK00349	●	●	●	●		●
	27	TK00351	●	●	●	●		●
	28	TK00352	●	●	●	●		●
	29	TK00353	●	●	●	●		●
	30	TK00354	●	●	●	●		●
	31	TK00355	●	●	●	●		●
	32	TK00356	●	●	●	●		●
	33	TK00357	●	●	●	●		●
	34	TK00359	●	●	●	●		●
	35	TK00361	●	●	●	●		●
	36	TK00704	●	●	●	●		●
	37	TK00705	●	●	●	●		●
	38	TK00706	●	●	●	●		●
	39	TK00707	●	●	●	●		●
	40	TK00708	●	●	●	●		●
	41	TK00709	●	●	●	●		●
	42	TK00710	●	●	●	●		●
	43	TK00711	●	●	●	●		●
	44	TK00712	●	●	●	●		●
	45	TK00713	●	●	●	●		●
	46	TK00714	●	●	●	●		●
	47	TK00715	●	●	●	●		●
	48	TK00716	●	●	●	●		●
	49	TK00717	●	●	●	●		●
	50	TK00718	●	●	●	●		●
	51	TK00719	●	●	●	●		●
	52	TK00720	●	●	●	●		●

HI-BROACH One-touch Type		A0-5575	WA-5000	Pilot Pin
Depth	mm dia.	PN		
50 mm	12	TK00721	●	06050
	13	TK00722	●	
	14	TK00723	●	●
	15	TK00724	●	●
	16	TK00725	●	●
	17	TK00726	●	●
	18	TK00727	●	●
	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		L0-3550	W0J-3200	A0-5575	WA-3500	WA-5000	QA-4000	QA-6500	CLA-2720	Pilot Pin
Depth	mm dia.	PN								
25 mm	12	TK01148	●	●	●	●	●	●	●	06025
	13	TK01149	●	●	●	●	●	●	●	●
	14	TK01150	●	●	●	●	●	●	●	●
	15	TK01151	●	●	●	●	●	●	●	●
	16	TK01152	●	●	●	●	●	●	●	●
	17	TK01153	●	●	●	●	●	●	●	●
	17.5	TK00301	●	●	●	●	●	●	●	●
	18	TK00302	●	●	●	●	●	●	●	●
	18.5	TK00303	●	●	●	●	●	●	●	●
	19	TK00304	●	●	●	●	●	●	●	●
	19.5	TK00305	●	●	●	●	●	●	●	●
	20	TK00306	●	●	●	●	●	●	●	●
	20.5	TK00307	●	●	●	●	●	●	●	●
	21	TK00308	●	●	●	●	●	●	●	●
	21.5	TK00309	●	●	●	●	●	●	●	●
	22	TK00310	●	●	●	●	●	●	●	●
	22.5	TK00311	●	●	●	●	●	●	●	●
	23	TK00312	●	●	●	●	●	●	●	●
35 mm	23.5	TK00313	●	●	●	●	●	●	●	●
	24	TK00314	●	●	●	●	●	●	●	●
	24.5	TK00315	●	●	●	●	●	●	●	●
	25	TK00316	●	●	●	●	●	●	●	●
	25.5	TK01169	●	●	●	●	●	●	●	08035
	26	TK00317	●	●	●	●	●	●	●	●
	26.5	TK00318	●	●	●	●	●	●	●	●
	27	TK00319	●	●	●	●	●	●	●	●
	28	TK00320	●	●	●	●	●	●	●	●
	29	TK00321	●	●	●	●	●	●	●	●
	30	TK00322	●	●	●	●	●	●	●	●
	31	TK00323	●	●	●	●	●	●	●	●
	32	TK00324	●	●	●	●	●	●	●	●
	33	TK00325	●	●	●	●	●	●	●	●
	34	TK00326	●	●	●	●	●	●	●	●
	35	TK00328	●	●	●	●	●	●	●	●
	36	TK00602	●	●	●	●	●	●	●	●
	37	TK00603	●	●	●	●	●	●	●	●
	38	TK00604	●	●	●	●	●	●	●	●
	39	TK00605	●	●	●	●	●	●	●	●
	40	TK00606	●	●	●	●	●	●	●	●

JETBROACH One-touch Type								Pilot Pin
Depth	mm dia.	PN	LO-3550	WOJ-3200	AO-5575	WA-3500	WA-5000	
50 mm	12	TK01154	●	●	●	●	●	06050
	13	TK01155	●	●	●	●	●	
	14	TK01156	●	●	●	●	●	
	15	TK01157	●	●	●	●	●	
	16	TK01158	●	●	●	●	●	
	17	TK01159	●	●	●	●	●	
	17.5	TK00380	●	●	●	●	●	
	18	TK00381	●	●	●	●	●	
	19	TK00382	●	●	●	●	●	
	19.5	TK00383	●	●	●	●	●	
	20	TK00384	●	●	●	●	●	
	20.5	TK00385	●	●	●	●	●	
	21	TK00386	●	●	●	●	●	
	21.5	TK00387	●	●	●	●	●	
	22	TK00388	●	●	●	●	●	
	22.5	TK00389	●	●	●	●	●	
	23	TK00390	●	●	●	●	●	
	23.5	TK00391	●	●	●	●	●	
	24	TK00392	●	●	●	●	●	
	24.5	TK00393	●	●	●	●	●	
	25	TK00394	●	●	●	●	●	08050
	25.5	TK01147	●	●	●	●	●	
	26	TK00395	●	●	●	●	●	
	26.5	TK00396	●	●	●	●	●	
	27	TK00397	●	●	●	●	●	
	28	TK00398	●	●	●	●	●	
	29	TK00399	●	●	●	●	●	
	30	TK00400	●	●	●	●	●	
	31	TK00401	●	●	●	●	●	
	32	TK00402	●	●	●	●	●	
	33	TK00403	●	●	●	●	●	
	34	TK00404	●	●	●	●	●	
	35	TK00405	●	●	●	●	●	
	36	TK00406	●	●	●	●	●	
	37	TK00407	●	●	●	●	●	
	38	TK00408	●	●	●	●	●	
	39	TK00409	●	●	●	●	●	
	40	TK00410	●	●	●	●	●	
	41	TK00411	●	●	●	●	●	
	42	TK00412	●	●	●	●	●	
	43	TK00413	●	●	●	●	●	
	44	TK00414	●	●	●	●	●	
	45	TK00415	●	●	●	●	●	
	46	TK00416	●	●	●	●	●	
	47	TK00417	●	●	●	●	●	
	48	TK00418	●	●	●	●	●	
	49	TK00419	●	●	●	●	●	
	50	TK00420	●	●	●	●	●	
	51	TK00442	●	●	●	●	●	
	52	TK00443	●	●	●	●	●	
	53	TK00444	●	●	●	●	●	
	54	TK00445	●	●	●	●	●	
	55	TK00446	●	●	●	●	●	
	56	TK00447	●	●	●	●	●	
	57	TK00448	●	●	●	●	●	
	58	TK00449	●	●	●	●	●	
	59	TK00450	●	●	●	●	●	
	60	TK00451	●	●	●	●	●	
	61	TK00607	●	●	●	●	●	
	62	TK00608	●	●	●	●	●	
	63	TK00609	●	●	●	●	●	
	64	TK00610	●	●	●	●	●	
	65	TK00611	●	●	●	●	●	

JETBROACH One-touch Type 50L(W) for stacked plates.						Pilot Pin
Depth	mm dia.	PN	LO-3550	WOJ-3200	AO-5575	
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					Pilot Pin
Depth	mm dia.	PN	AO-5575	WA-5000	
75 mm	17.5	TK01036	●	●	08075
	18	TK01003	●	●	
	19	TK01004	●	●	
	20	TK01005	●	●	
	21	TK01006	●	●	
	22	TK01007	●	●	
	23	TK01008	●	●	
	24	TK01009	●	●	
	25	TK01010	●	●	
	26	TK01011	●	●	
	27	TK01012	●	●	
	28	TK01013	●	●	
	29	TK01014	●	●	
	30	TK01015	●	●	
	31	TK01016	●	●	
	32	TK01017	●	●	
	33	TK01018	●	●	
	34	TK01019	●	●	
	35	TK01020	●	●	
	36	TK01021	●	●	
	37	TK01022	●	●	
	38	TK01023	●	●	
	39	TK01024	●	●	
	40	TK01025	●	●	
	41	TK01026	●	●	
	42	TK01027	●	●	
	43	TK01028	●	●	
	44	TK01029	●	●	
	45	TK01030	●	●	
	46	TK01031	●	●	
	47	TK01032	●	●	
	48	TK01033	●	●	
	49	TK01034	●	●	
	50	TK01035	●	●	
	51	TK01112	●	●	
	52	TK01113	●	●	
	53	TK01114	●	●	
	54	TK01115	●	●	
	55	TK01116	●	●	

JETBROACH Side-lock Type			Pilot Pin
Depth	mm dia.	PN	
50 mm	50	TJ17709	12075
	51	TJ16651	
	52	TJ16652	
	53	TJ16653	
	54	TJ16654	
	55	TJ16655	
	56	TJ16656	
	57	TJ16657	
	58	TJ16658	
	59	TJ16659	
	60	TJ16660	
	61	TJ16661	
	62	TJ16662	
	63	TJ16663	
	64	TJ16664	
	65	TJ16665	
	66	TJ16666	
	67	TJ16667	
	68	TJ16668	
	69	TJ16669	
	70	TJ16670	
	71	TJ16671	
	72	TJ16672	
	73	TJ16673	
	74	TJ16674	
	75	TJ16675	
	76	TJ16676	
	77	TJ16677	
	78	TJ16678	
	79	TJ16679	
	80	TJ16680	
	81	TJ16681	
	82	TJ16682	
	83	TJ16683	
	84	TJ16684	
	85	TJ16685	
	86	TJ16686	
	87	TJ16687	
	88	TJ16688	
	89	TJ16689	
	90	TJ16690	
	91	TJ16691	
	92	TJ16692	
	93	TJ16693	
	94	TJ16694	
	95	TJ16695	
	96	TJ16696	
	97	TJ16697	
	98	TJ16698	
	99	TJ16699	
	100	TJ16700	

Pilot Pin	
06025	PN : TK01167
08025	PN : TJ12696
06050	PN : TK01166
0850	PN : TK00802
08050	PN : TJ16019
08035	PN : TJ15859
08075	PN : TJ17436
12075	PN : TA9A207

Sales Unit : 1 Piece

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 - 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



163 mm
BHM-02035



182 mm
BHM-03050



248 mm
BHM-13075



232 mm
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 - 17 dia.	17.5 - 35 dia.	12 - 17 dia.	17.5 - 52 dia.	12 - 18 dia.	19 - 52 dia.	17.5 - 65 dia.	18 - 35 dia.	50 - 100 dia.
Pilot Pin	06025	08025	08035	06025	08025	06050	0850/08050	08035	08050
	Optional		Included	Optional		Included	Optional		Included

HBO : HI-BROACH One-touch Type

JBO : JETBROACH One-touch Type

JBS : JETBROACH Side-lock Type

PUNCHING

Portable Double-Acting Hydraulic Puncher

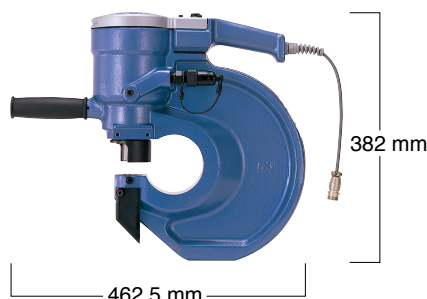
SELFER ACE

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

- Applicable for both mild steel and stainless steel punching

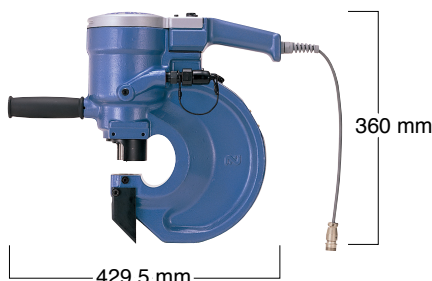
Model HS11-1624 Non-CE*

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



Model HS07-1624 Non-CE*

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



Model HS06-1322 Non-CE*

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



*An optional CE model is available without auto-return function.

Specifications		HS11-1624		HS07-1624		HS06-1322	
Model		HS11-1624		HS07-1624		HS06-1322	
Max. Throat Depth		110		70		60	
Punching	Material	Mild Steel	Stainless Steel	Mild Steel	Stainless Steel	Mild Steel	Stainless Steel
Capacity	Max. Punching Thickness* mm	16	6	16	6	13	6
	Max. Punching Diameter mm	24	24	24	24	22	22
Hole Making time	Punching Time sec.	11.8				7.9	
	Returning Time sec.	5.7				3.4	
Allowable Max. Pressure MPa (kgf/cm ²)		68.65 (700)				68.65 (700)	
Max. Output kN (tf)		464 (47)				367 (37)	
Ram Stroke mm		25				21	
Mass (Weight) kg		30		30		20.5	
Accessories Included		<ul style="list-style-type: none"> • D Punch 22 (Installed) • D Die 22 (Installed) • Sub Handle • Ultra-high Pressure Hose 		<ul style="list-style-type: none"> • Hose Cord Ass'y • Chip Guard Ass'y • Spanner • 12 mm Spanner 		<ul style="list-style-type: none"> • 4 mm Hex. Socket Screw Key • 5 mm Hex. Socket Screw Key • Tool Box 	

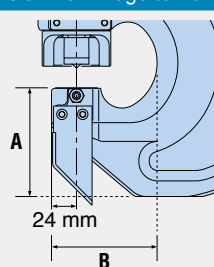
*Mild steel : Maximum punching thickness must be calculated by the equation $0.8 \times$ punching diameter.

*Stainless steel : Maximum punching thickness must be calculated by the equation $0.5 \times$ punching diameter.
For the details see the instruction manual.

Optional Accessories

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

Dimension from Edge to Punch Center



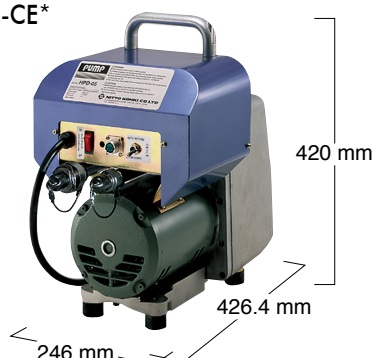
	A	B
HS11-1624	127	134
HS07-1624	105	94
HS06-1322	84	85



HYDRAULIC PUMP for SELFER ACE

Model HPD-05 Non-CE*

- Double-acting



Specifications		HPD-05	
Model		HPD-05	
Power Source (Single Phase)		115 V / 230 V AC	
Max. Output Pressure MPa (kgf/cm ²)		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	

*An optional CE model is available without auto-return function.

PUNCHING

Portable Single-Acting Hydraulic Puncher

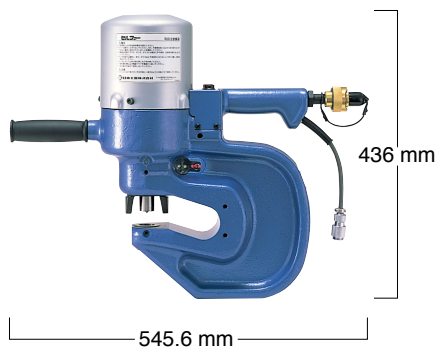
SELFER HA Type

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

- Will punch both round and oblong holes

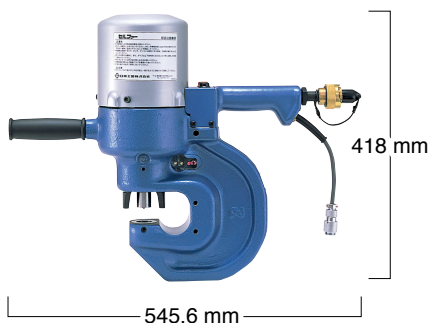
Model HA11-1624 Non-CE

- 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

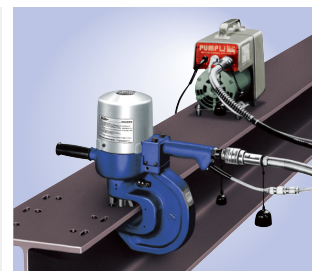
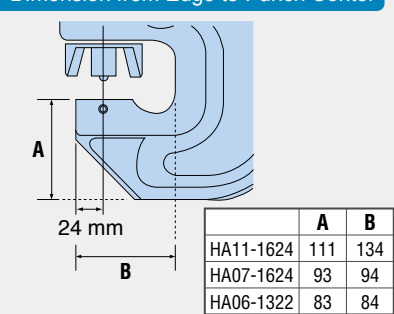
Model	HA11-1624	HA07-1624	HA06-1322
Max. Throat Depth	110	70	60
Punching Material	Mild Steel		
Capacity	Max. Punching Thickness* mm	16	13
	Max. Punching Diameter mm	24	22
Hole Making Time	sec.	16.5	10.5
Allowable Max. Pressure	MPa (kgf/cm ²)	68.65 (700)	68.65 (700)
Max. Output	kN (tf)	431 (44)	304 (31)
Ram Stroke	mm	25	21
Mass (Weight)	kg	35.5	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		

*Mild steel : Maximum punching thickness must be calculated by the equation $0.8 \times \text{punching diameter}$.
 For the details see the instruction manual.

Optional Accessories

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

Dimension from Edge to Punch Center



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/cm ²) 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	

PUNCHING

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.

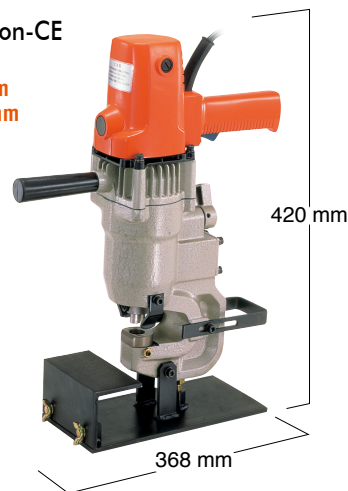
Model E25-0615 Non-CE

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



Model E55-0619 Non-CE

- EL punch and EL die
- Max. punching thickness : 6mm
- 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	115 V AC, 50/60 Hz	220-240 V AC, 50/60Hz	
Max. Throat Depth		25	55		
Motor	Rated Power Consumption	W	670		
	Rated Current	A	6.0	3.0	
Punching Capacity	Material	Mild Steel			
	Max. Punching Diameter	mm	19		
	Max. Punching Thickness	mm	6		
Punching time		sec (single pass)	2		
Power Cord Length		m	2.4		
Mass (Weight)		kg	14		
Accessories Included		<div><div>• E Punch 15 (Installed)</div><div>• E Die 15A</div><div>• E Die 15B (Installed)</div><div>• Sub Handle</div><div>• 2.5 mm Hex. Socket Screw Key</div></div>	<div><div>• 4 mm Hex. Socket Screw Key</div><div>• 10 x 12 mm Spanner</div><div>• Auxiliary Oil 40 cc</div><div>• Tool Box</div><div>• Spanner 8</div></div>	<div><div>• EL Punch 18 (Installed)</div><div>• EL Die 18A</div><div>• EL Die 18B (Installed)</div><div>• Sub Handle</div><div>• 3 mm Hex. Socket Screw Key</div><div>• 4 mm Hex. Socket Screw Key</div></div>	<div><div>• 5 mm Hex. Socket Screw Key</div><div>• 10 x 12 mm Spanner</div><div>• Stand</div><div>• Auxiliary Oil 40 cc</div><div>• Tool Box</div></div>

Optional Accessory (E25-0615)

PN	Description	Sales Unit
TB00800	Stand Ass'y	1 piece

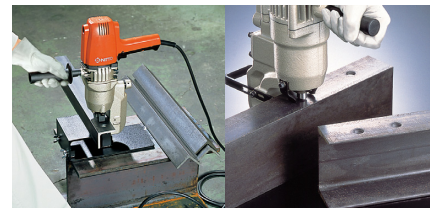
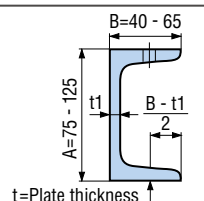


Die Selection

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

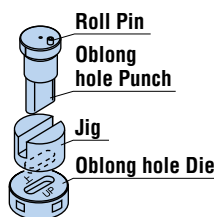
E25-0615						unit : mm	
E55-0619							

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
TJ13229	D Punch 16 x 8	TJ13238	D Die 16 x 8	TK00455	Jig 16 x 8
TJ13230	D Punch 18 x 9	TJ13239	D Die 18 x 9	TK00456	Jig 18 x 9
TJ13231	D Punch 20 x 10	TJ13240	D Die 20 x 10	TK00457	Jig 20 x 10
TJ13232	D Punch 22 x 11	TJ13241	D Die 22 x 11	TK00458	Jig 22 x 11
TJ13233	D Punch 24 x 12	TJ13242	D Die 24 x 12	TK00459	Jig 24 x 12
TJ13234	D Punch 25 x 9*	TJ13243	D Die 25 x 9	TK00460	Jig 25 x 9
TJ13235	D Punch 25 x 12*	TJ13244	D Die 25 x 12	TK00461	Jig 25 x 12
TJ13236	D Punch 25 x 14*	TJ13245	D Die 25 x 14	TK00462	Jig 25 x 14
TJ13237	D Punch 25 x 18*	TJ13246	D Die 25 x 18	TK00463	Jig 25 x 18

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

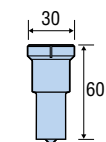


Optional Accessories

PN	Description	Sales Unit
TQ01279	Hex. Set Screw 8 x 14 for Securing Oblong Hole Dies	1 piece
TA99037	Lock Nut Ass'y for D Punch 25	1 set

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
TJ10778	D Punch 8	TJ10779	D Die 8
TJ11088	D Punch 9	TJ11089	D Die 9
TJ06700	D Punch 10	TJ06701	D Die 10
TJ06698	D Punch 11	TJ06699	D Die 11
TJ06696	D Punch 12	TJ06697	D Die 12
TJ06694	D Punch 13	TJ06695	D Die 13
TJ06692	D Punch 14	TJ06693	D Die 14
TJ06611	D Punch 14.5	TJ06612	D Die 14.5
TJ06690	D Punch 15	TJ06691	D Die 15
TJ06688	D Punch 16	TJ06689	D Die 16
TJ06686	D Punch 17	TJ06687	D Die 17
TJ06609	D Punch 17.5	TJ06610	D Die 17.5
TJ06684	D Punch 18	TJ06685	D Die 18
TJ06682	D Punch 19	TJ06683	D Die 19
TJ06680	D Punch 20	TJ06681	D Die 20
TJ06607	D Punch 20.5	TJ06608	D Die 20.5
TJ06678	D Punch 21	TJ06679	D Die 21
TJ07979	D Punch 21.5	TJ07980	D Die 21.5
TJ06676	D Punch 22	TJ06677	D Die 22
TJ06674	D Punch 23	TJ06675	D Die 23
TJ06566	D Punch 23.5	TJ06569	D Die 23.5
TJ07748	D Punch 24	TJ07749	D Die 24
TJ10061	D Punch 25	TJ10062	D Die 25



D Punches



D Dies

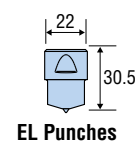
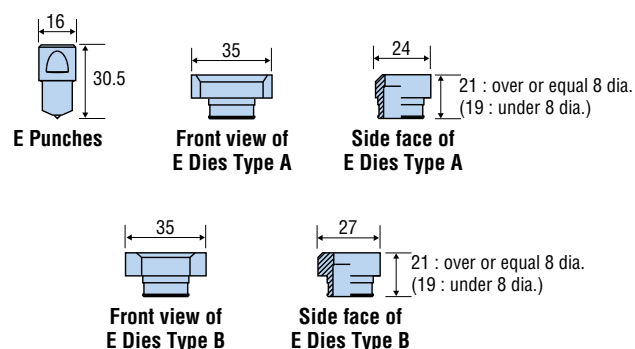
*TA99037 Lock Nut Ass'y is required for D Punch 25

FOR E55-0619

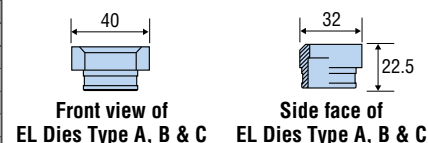
Oblong hole EL Punch		Oblong hole EL Die (Type A for thin sheets)		Oblong hole EL Die (Type B for thick sheets)	
PN	Size	PN	Size	PN	Size
TK00242	EL Punch 10 x 6.5	TK00254	EL Die 10 x 6.5A	TK00266	EL Die 10 x 6.5B
TK00243	EL Punch 13 x 6.5	TK00255	EL Die 13 x 6.5A	TK00267	EL Die 13 x 6.5B
TK00244	EL Punch 13 x 8.5	TK00256	EL Die 13 x 8.5A	TK00268	EL Die 13 x 8.5B
TK00245	EL Punch 13.5 x 9	TK00257	EL Die 13.5 x 9A	TK00269	EL Die 13.5 x 9B
TK00246	EL Punch 15 x 10	TK00258	EL Die 15 x 10A	TK00270	EL Die 15 x 10B
TK00247	EL Punch 16.5 x 11	TK00259	EL Die 16.5 x 11A	TK00271	EL Die 16.5 x 11B
TK00248	EL Punch 17 x 8.5	TK00260	EL Die 17 x 8.5A	TK00272	EL Die 17 x 8.5B
TK00249	EL Punch 18 x 9	TK00261	EL Die 18 x 9A	TK00273	EL Die 18 x 9B
TK00250	EL Punch 18 x 12	TK00262	EL Die 18 x 12A	TK00274	EL Die 18 x 12B
TK00251	EL Punch 19.5 x 13	TK00263	EL Die 19.5 x 13A	TK00275	EL Die 19.5 x 13B
TK00252	EL Punch 20 x 10	TK00264	EL Die 20 x 10A	TK00276	EL Die 20 x 10B
TK00253	EL Punch 21 x 14	TK00265	EL Die 21 x 14A	TK00277	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
TK00193	EL Punch 6	TK00208	EL Die 6A	TK00222	EL Die 6B	-	-
TK00194	EL Punch 6.5	TK00209	EL Die 6.5A	TK00223	EL Die 6.5B	-	-
TK00195	EL Punch 8	TK00210	EL Die 8A	TK00224	EL Die 8B	-	-
TK00196	EL Punch 8.5	TK00211	EL Die 8.5A	TK00225	EL Die 8.5B	-	-
TK00197	EL Punch 10	TK00212	EL Die 10A	TK00226	EL Die 10B	TK00235	EL Die 10C
TK00198	EL Punch 11	TK00213	EL Die 11A	TK00227	EL Die 11B	TK00236	EL Die 11C
TK00199	EL Punch 12	TK00214	EL Die 12A	TK00228	EL Die 12B	TK00237	EL Die 12C
TK00200	EL Punch 13	TK00215	EL Die 13A	TK00229	EL Die 13B	TK00238	EL Die 13C
TK00201	EL Punch 14	TK00216	EL Die 14A	TK00230	EL Die 14B	TK00239	EL Die 14C
TK00202	EL Punch 15	TK00217	EL Die 15A	TK00231	EL Die 15B	TK00240	EL Die 15C
TK00203	EL Punch 16	TK00218	EL Die 16A	TK00232	EL Die 16B	TK00241	EL Die 16C
TK00204	EL Punch 17	TK00219	EL Die 17A	TK00233	EL Die 17B	-	-
TK00205	EL Punch 18	TK00220	EL Die 18A	TK00234	EL Die 18B	-	-
TK00278	EL Punch 18.5	TK00279	EL Die 18.5A	TK00280	EL Die 18.5B	-	-
TK00180	EL Punch 19	TK00181	EL Die 19A	TK00182	EL Die 19B	-	-

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
TK00100	E Punch 4	TK00101	E Die 4A	-	-
TK00102	E Punch 5	TK00103	E Die 5A	TK00104	E Die 5B
TK00143	E Punch 5.5	TK00144	E Die 5.5A	TK00145	E Die 5.5B
TK00105	E Punch 6	TK00106	E Die 6A	TK00107	E Die 6B
TK00146	E Punch 6.5	TK00147	E Die 6.5A	TK00148	E Die 6.5B
TK00111	E Punch 8	TK00112	E Die 8A	TK00113	E Die 8B
TK00149	E Punch 8.5	TK00150	E Die 8.5A	TK00151	E Die 8.5B
TK00117	E Punch 10	TK00118	E Die 10A	TK00119	E Die 10B
TK00120	E Punch 11	TK00121	E Die 11A	TK00122	E Die 11B
TK00123	E Punch 12	TK00124	E Die 12A	TK00125	E Die 12B
TK00097	E Punch 13	TK00098	E Die 13A	TK00099	E Die 13B
TK00167	E Punch 14	TK00168	E Die 14A	TK00169	E Die 14B
TK00428	E Punch 15	TK00288	E Die 15A	TK00429	E Die 15B



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		◎	●	

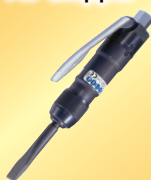
◎ : Best Suited
● : Suited

Hand Beveler



P25

Air Chipper



P30

Myton



P35 - 36

Free Sander



P41

Mini Beveler



P25 - 27

Auto Chisel



P31

Line Sander



P42

Circuit Beveler



P26 - 28

Super Kelen



P32

Belton



P37 - 40

Orbital Sander



P43

Jet Chisel







































P33 - 34

Palm Orbital Sander

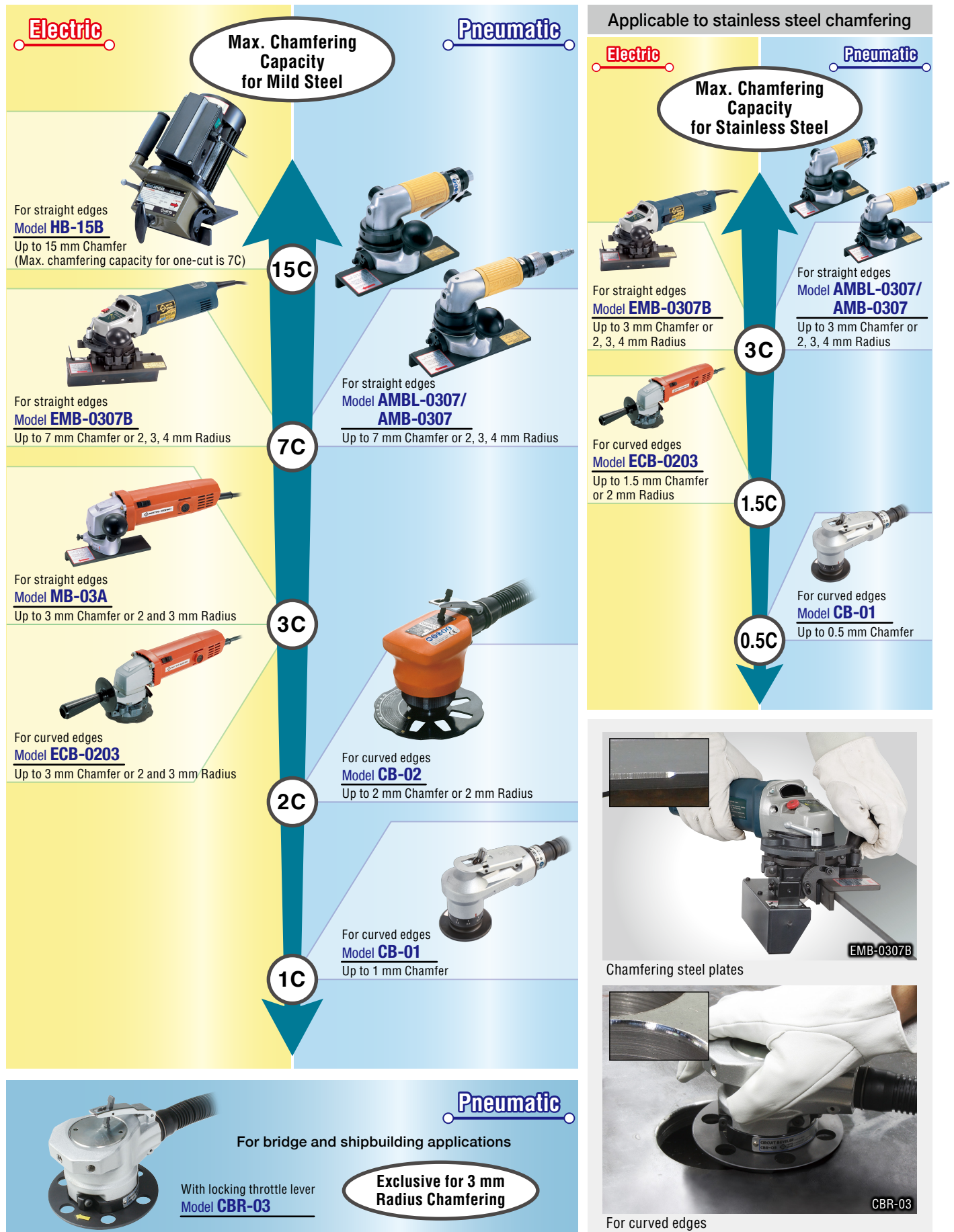


P43

Precision Grinding	Filing	Deburring	Cutting	Drilling
				
				
				
				
				
				
				
				
				
Air Sonic  P44 - 45	Super Hand Light  P45	Burr Cutter  P47	Super Saw  P48	Air Drill  P48
	Super Hand  P46			
	Micro Air Hand  P47			

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.



CHAMFERING

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



MINI BEVELER Model **EMB-0307B** • 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-0307B
P26 for Model MB-03A
P26 for Model ECB-0203

Specifications		ELECTRIC			
Model		HB-15B	EMB-0307B	MB-03A	ECB-0203
Power Source (Single Phase)		220 - 240 V AC 50 Hz 110 - 120 V AC 60 Hz	220 - 240 V AC, 50/60 Hz	220 - 240 V AC 50/60 Hz 100 - 110 V AC 50/60 Hz	220 - 240 V AC 50/60 Hz
Rated Power Consumption	W	910	1100	430	450
Duty Cycle	min	Continuous			30
No-load Speed	min ⁻¹ (rpm)	2750 (220 - 240 V) 3340 (110 - 120 V)	11000		10000
Chamfering Capacity	Mild Steel	Up to 15 mm Chamfer (Initial chamfer is 7 mm.)	Up to 7 mm Chamfer 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	14	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 

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 • Stainless steel:0.5C



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

Specifications		PNEUMATIC			
Model		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	0.4	0.65
Free Speed	min ⁻¹ (rpm)	14000	28000	15000	12000
Chamfering Capacity	Mild Steel	Up to 7 mm Chamfer 2, 3, 4 mm Radius	Up to 1 mm Chamfer	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	—	
Chamfer Angle		15° - 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 Ass'y for Straight Edge Beveling  • TB09140 Guide Plate 78 Ass'y for More Stable Operation 	• TB02437 Thin Plate Attachment Ass'y 	—

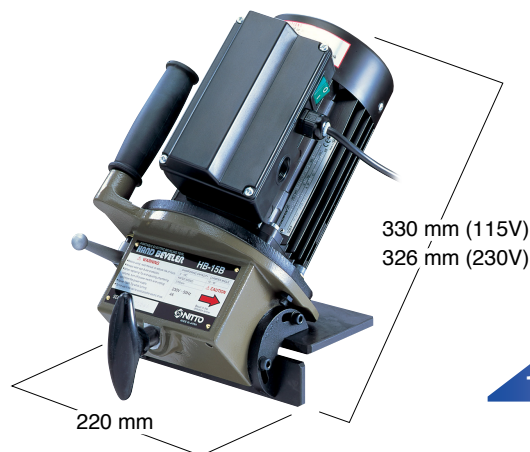
*For further information of optional Beveler accessories, see p.29.

CHAMFERING

Portable Chamfering Tools

HAND BEVELER

Model **HB-15B** 



15C
Mild Steel



Chamfering steel plates



Chamfering I-beams

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

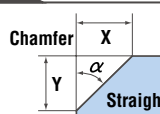
Specifications

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

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)		Chamfer	
	X	Y		
45°	15	15		
30°	9	15.5		
15°	4	15.4		

Handy Electric Chamfering Tool

MINI BEVELER

Model **EMB-0307B** 

 Double insulation



7C
4R
Mild Steel

3C
4R
Stainless Steel

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

Specifications

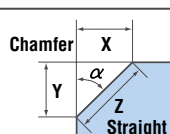
Model	EMB-0307B	
Power Source (Single Phase)	220 - 240 V AC, 50/60 Hz	
Rated Power Consumption	W	1100
Rated Current	A	5
Duty Cycle	min	Continuous
No-load Speed	min ⁻¹ (rpm)	11000
Chamfering Capacity	Mild Steel	Up to 7 mm Chamfer or 2, 3, 4 mm Radius
	Stainless Steel	Up to 3 mm Chamfer or 2, 3, 4 mm Radius
Chamfer Angle	15° - 45°	
Power Cord Length	m	2.5
Mass (Weight)	kg	3.9

Accessories Included

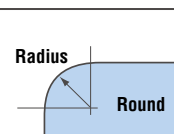
- Indexable Insert with Hole 12.7 (Installed)
- Indexable Insert Set Screw 4 x 7 (Installed)
- Indexable Insert with Hole 12.7
- Indexable Insert Set Screw 4 x 7
- Dust Box Ass'y
- Carbon Brush Ass'y
- 2 pieces of Hex. Nut M8
- 2 pieces of Hex. Socket Set Screw 8 x 25
- 3 pieces of Pan Head Screw 5 x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

Chamfer Angle, Width and Radius

Chamfer Angle α	Mild Steel(mm)			Stainless Steel(mm)		
	X	Y	Z	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



CHAMFERING

Handy Electric Chamfering Tool

MINI BEVELER

Model **MB-03A** Non-CE

 Double insulation



3C
3R
Mild Steel

Compact and light for speed chamfering

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

Specifications

Model	MB-03A	
Power Source (Single Phase)	110 V AC, 50/60 Hz	230 V AC, 50/60 Hz
Rated Power Consumption	W	
Rated Current	A	4.5
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

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-9F
- Hex. Nut
- 2 pieces of Hex. Socket Set Screw 8 x 25

Chamfer Angle, Width and Radius

Mild Steel(mm)		Chamfer	X	Y	45°	Straight	Mild Steel(mm)		Radius	2, 3	Radius	Round
X	Y											
3	3											

Electric Radial Chamfering Tool

CIRCUIT BEVELER

Model **ECB-0203** 

 Double insulation



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

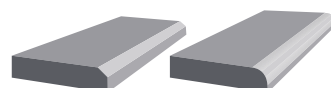
Specifications

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

*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-150
- Gauge C3







Chamfering straight edges



Chamfering curved edges

Chamfering range of operation

Min. Diameter	Min. Radius	Min. Depth	Min. Thickness
			
≥16 mm	≥7.5 mm	≥18 mm	≥2 mm

Chamfer Angle, Width and Radius

Mild Steel(mm)		Stainless Steel(mm)		Chamfer	X	Y	45°	Straight	Mild Steel (mm)	Stainless Steel (mm)	Radius	Round
X	Y	X	Y						2, 3	2		
3	3	1.5	1.5									

CHAMFERING

Pneumatic Chamfering Tool

MINI BEVELER

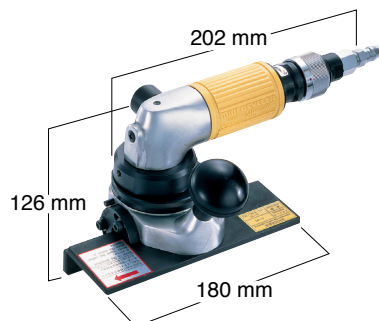
Model **AMBL-0307** 

• Lever type



Model **AMB-0307** Non-CE

• Ring type



7C
4R
Mild Steel

3C
4R
Stainless Steel

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

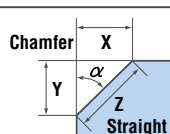
Model	AMBL-0307 / AMB-0307	
Air Pressure	MPa (kgf/cm ²)	0.6 (6)
Air Consumption (No-load)	m ³ /min	0.9
Free Speed	min ⁻¹ (rpm)	14000
Chamfering Capacity	Mild Steel	Up to 7 mm Chamfer or 2, 3, 4 mm Radius
	Stainless Steel	Up to 3 mm Chamfer or 2, 3, 4 mm Radius
Chamfer Angle		15° - 45°
Inlet Size		Rc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

Accessories Included

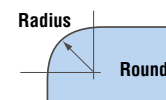
- Indexable Insert with Hole 12.7 (Installed)
- Indexable Insert Set Screw 4 x 7 (Installed)
- Indexable Insert with Hole 12.7
- Indexable Insert Set Screw 4 x 7
- Knob
- 2 pieces of Hex. Socket Set Screw 8 x 25
- 2 pieces of Hex. Nut M8
- 3 mm Hex. Socket Screw Key
- 4 mm Hex. Socket Screw Key
- Spanner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

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** 

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



1C
Mild Steel





Specifications

Model	CB-01	
Air Pressure	MPa (kgf/cm ²)	0.6 (6)
Air Consumption (No-load)	m ³ /min	0.15
Free Speed	min ⁻¹ (rpm)	28000
Chamfering Capacity	Mild Steel	Up to 1 mm Chamfer
	Stainless Steel	Up to 0.5 mm Chamfer
Chamfer Angle		45°
Minimum Workpiece Thickness	mm	1.5 (0.5 mm Chamfer)
Inlet Size		Rc 1/4
Mass (Weight)	kg	0.5



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

Min. Diameter	Min. Radius	Min. Depth	Min. Thickness
			

Chamfer Angle and Width

Mild Steel(mm)		Chamfer	Straight
X	Y		
1	1		

CHAMFERING

Pneumatic Radial Chamfering Tool

CIRCUIT BEVELER

Model **CB-02** 

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



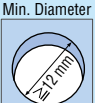
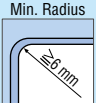
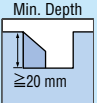
Specifications

Model	CB-02
Air Pressure	MPa (kgf/cm ²) 0.6 (6)
Air Consumption (No-load)	m ³ /min 0.4
Free Speed	min ⁻¹ (rpm) 15000
Chamfering Capacity	Up to 2 mm Chamfer or 2 mm Radius
Chamfer Angle	45°
Inlet Size	Rc 1/4
Mass (Weight)	kg 1.8

Accessories Included

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

Chamfering range of operation

Min. Diameter	Min. Radius	Min. Depth
		
≥12 mm	≥6 mm	≥20 mm

Chamfer Angle, Width and Radius

Mild Steel(mm)	Chamfer	Radius	Mild Steel(mm)	Radius
X	Y	X	2	Radius
2	2	45°		Round
		Straight		

Pneumatic Radial Chamfering Tool

CIRCUIT BEVELER

Model **CBR-03** 

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.




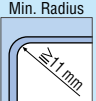
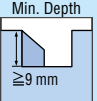
Specifications

Model	CBR-03
Air Pressure	MPa (kgf/cm ²) 0.6 (6)
Air Consumption (No-load)	m ³ /min 0.65
Free Speed	min ⁻¹ (rpm) 12000
Chamfering Capacity	3 mm Radius
Minimum Workpiece Thickness	mm 6
Inlet Size	Rc 1/4
Mass (Weight)	kg 2

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

Min. Diameter	Min. Radius	Min. Depth
		
≥22 mm	≥11 mm	≥9 mm

Chamfer Angle and Width

Mild Steel(mm)	Radius	Radius
3		Round

Optional Beveler Accessories

Ref. No.	PN	Description	Sales Unit	HB-15B	EMB-0307B AMBL-0307 AMB-0307	MB-03A	ECB-0203	CB-01	CB-02	CBR-03
-	TB09097	Indexable Insert 8.4 for Mild Steel	10 pcs./set					●		
-	TB09338	Indexable Insert 8.4 for Stainless Steel	10 pcs./set					●		
-	TA9A093	Indexable Insert 12.7	12 pcs./set	●						
-	TB01159	Indexable Insert 12.7 with Hole	10 pcs./set		●		●			
-	TB01791	Indexable Insert 12.7 R2	10 pcs./set		●		●			
-	TB01651	Indexable Insert 12.7 R3	10 pcs./set		●		●			
-	TB01790	Indexable Insert 12.7 R4	10 pcs./set		●					
-	TB09018	Indexable Insert 12.7 R3	10 pcs./set							●
-	TA9A386	Indexable Insert 9.525	10 pcs./set			●			●	
-	TA9A592	Indexable Insert 9.525 R2	10 pcs./set			●			●	
-	TA9A638	Indexable Insert 9.525 R3	10 pcs./set			●				
1	TB09140	Guide Plate 78 Ass'y for More Stable Operation	1 set					●		
2	TB09143	Plate Ass'y for Straight Edge Use	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 for Straight Line Use	1 set				●			
8	TB02862	Dust Box Ass'y	1 set				●			
9	TB02437	Thin Plate Attachment Ass'y	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.

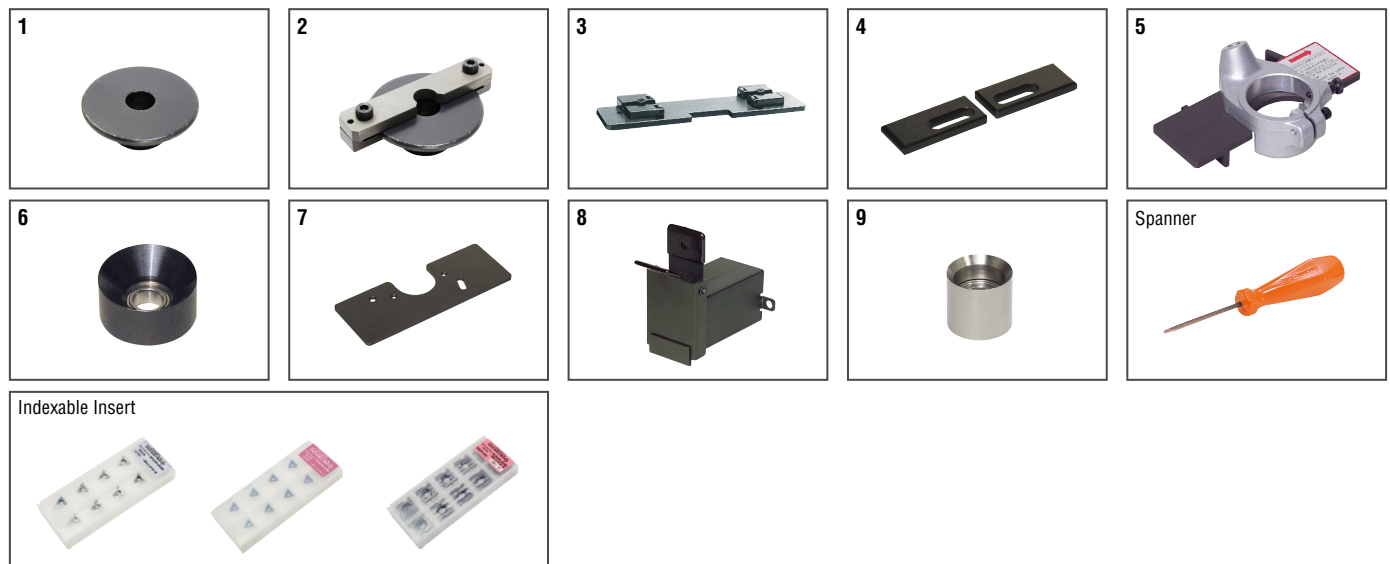
Ref. No.4 : Capacity 80 to 200 mm O.D.

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



CB-01

TB09140 Guide Plate 78 Ass'y for More Stable Operation



CB-01

TB09143 Plate Ass'y for Straight Edge Use

SCALING

Pneumatic Chipping Hammer

AIR CHIPPER

Removes weld splatter quickly and easily

- Ideal tool for quickly and efficiently removing weld splatter, 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** 



Model **CH-24** 



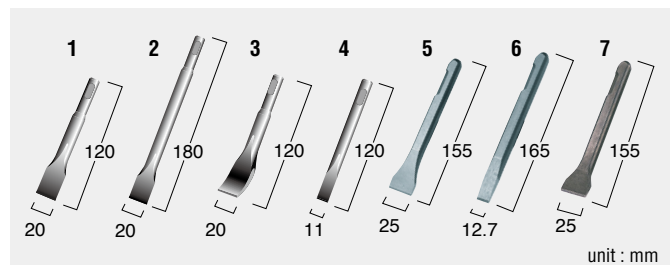
Specifications			
Model		ACH-16	CH-24
Air Pressure	MPa (kgf/cm ²)		0.6 (6)
Air Consumption (No-load)	m ³ /min	0.15	0.2
Stroke Speed	min ⁻¹	6000	4000
Shank Size	mm	10.5 Round	12.7 Square
Inlet Size			Rc 3/8
Mass (Weight)	kg	0.9	1.7
Accessories Included		<ul style="list-style-type: none"> • TQ03431 Flat Chisel (Installed) • Bushing R 3/8 x NPT 3/8 • Hose Nipple R 3/8 x 3/8 	<ul style="list-style-type: none"> • 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** 

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/cm ²)
Air Consumption (No-load)	m ³ /min
Stroke Speed	min ⁻¹
Shank Size	mm
Inlet Size	Rc 1/4
Mass (Weight)	kg
Accessories Included	<ul style="list-style-type: none"> • Bushing R 1/4 x NPT 1/4 • Hose Nipple R 1/4 x 1/4

*Chisels are not included as standard.

Optional Chisels

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 : TA90051 Panel Crimper No. 1014  Bending sheet metal: external body plates, doors, fenders, etc.	PN : TP00586 Fork Chisel 35 No. 1016  Disconnecting tie rod end ball joints	PN : TP00585 Fork Chisel 15 No. 1017  Disconnecting tie rod end 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 Molpoint 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	*An order is available from one piece.

SCALING

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

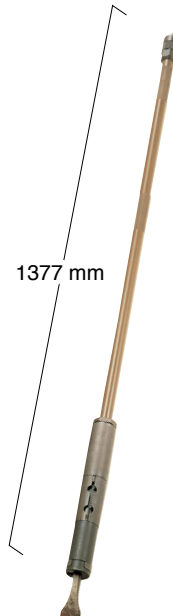
Model **S-250** Non-CE



Model **S-500** Non-CE



Model **S-1000** Non-CE

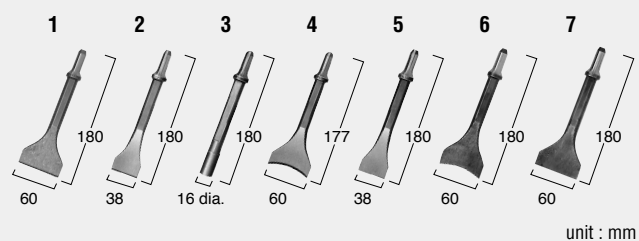


Specifications		S-250	S-500	S-1000
Model				
Air Pressure	MPa (kgf/cm ²)		0.6 (6)	
Air Consumption (No-load)	m ³ /min		0.27	
Stroke Speed	min ⁻¹		2500	
Shank Size	mm		12.7	
Inlet Size			Rc 1/4	
Mass (Weight)	kg	4.1	4.7	6.1
Accessories Included		<ul style="list-style-type: none"> • No.2005 38 mm Bend 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	



SCALING

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

• Lightweight model



Model JEX-24

• Universal model



Model JEX-28

• Heavy-duty model



Model JEX-2800A

• Reduced vibration model



Specifications

Model	JC-16	JEX-24	JEX-28	JEX-2800A
Air Pressure MPa (kgf/cm ²)			0.6 (6)	
Air Consumption (No-load) m ³ /min	0.15	0.27	0.35	0.43
Stroke Speed min ⁻¹	4000	4000	4500	3700
Inlet Size			Rc 3/8	
Mass (Weight) kg	1.4	2.7	3.5	3.3
Accessories Included	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 23 pieces of 3 mm x 180 mm Needles (Installed) • 6 mm Hex. Socket Screw Key • Bushing R 3/8 x NPT 3/8 • Hose Nipple R 3/8 x 3/8 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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

• Slim model



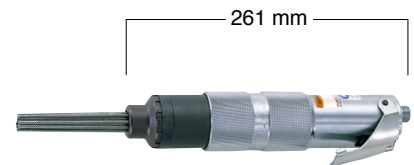
Model JT-20

• Medium duty model



Model JEX-20

• Reduced vibration model



Specifications

Model	AJC-16	JT-20	JEX-20
Air Pressure MPa (kgf/cm ²)		0.6 (6)	
Air Consumption (No-load) m ³ /min	0.07	0.2	0.2
Stroke Speed min ⁻¹	6000	4000	4000
Inlet Size		Rc 3/8	
Mass (Weight) kg	0.98	2.4	2.75
Accessories Included	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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

SCALING

Electric Needle Scaler

JET CHISEL

Model **EJC-32A**



Powerful 300 watt double insulated motor

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

Specifications

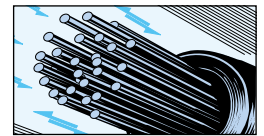
Model	EJC-32A	
Power Source (Single Phase)	110 - 120 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz
Rated Power Consumption	W	300
Rated Current	A	2.8 1.4
Duty Cycle	min	30
Stroke Speed	min ⁻¹	3000
Power Cord Length	m	5
Mass (Weight)	kg	4.5

110 - 120 V Non-CE
220 - 240 V



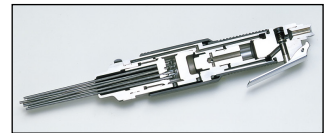
Shot Peening Effect

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.



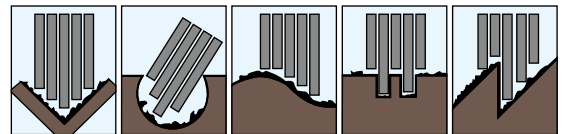
Full Automatic System - Excludes EJC-32A

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

Jet Chisel 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	AJC-16	JT-20	JEX-20	EJC-32A
2 mm	Number of Needles Required	29 pcs.	53 pcs.	66 pcs.	66 pcs.	7 pcs.	29 pcs.	29 pcs.	32 pcs.
	Needle Supporter PN	TP00290	TP02244	TP01499	TP01499	TQ05210	TP00338	TP00338	TP16475
3 mm	Number of Needles Required	-	23 pcs.	28 pcs.	28 pcs.	3 pcs.	12 pcs.	12 pcs.	15 pcs.
	Needle Supporter PN	-	TP02245	TP01461	TP01461	TQ04554	TP00337	TP00337	TP16301
4 mm	Number of Needles Required	-	-	14 pcs.	14 pcs.	-	-	-	-
	Needle Supporter PN	-	-	TP01462	TP01462	-	-	-	-

Needle		PN	Sales Unit	Model							
				JC-16	JEX-24	JEX-28	JEX-2800A	AJC-16	JT-20	JEX-20	EJC-32A
2 mm	150 mm	TA98780	100 pcs./set	●	●	●	●	●	●	●	●
	180 mm	TA98781	100 pcs./set	●	●	●	●	●	●	●	●
	300 mm	TA9A213	50 pcs./set	●	●	●	●	●	●	●	●
	500 mm	TA9A214	50 pcs./set	●	●	●	●	●	●	●	●
3 mm	180 mm	TA98782	100 pcs./set		●	●	●	●	●	●	●
	300 mm	TA9A216	50 pcs./set		●	●	●	●	●	●	●
	500 mm	TA9A217	50 pcs./set		●	●	●	●	●	●	●
	800 mm	TA9A218	50 pcs./set		●	●	●	●	●	●	●
4 mm	180 mm	TA98783	50 pcs./set			●	●				
	300 mm	TA9A220	50 pcs./set			●	●				
	500 mm	TA9A221	50 pcs./set			●	●				



Optional Needles

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

GRINDING & SANDING

Pneumatic Grinder

MYTON

Heavy-duty grinders for tough applications

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

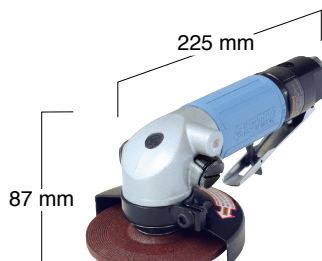
Model **MLG-25**

- Depressed center wheel 58 mm



Model **MLG-40**

- Depressed center wheel 100 mm



Model **MAGW-40**

- Lever type
- Depressed center wheel 100 mm



Model **MAGW-40** Non-CE

- Ring type
- Depressed center wheel 100 mm



Specifications

Model	MLG-25	MLG-40	MAGW-40 Lever Type	MAGW-40 Ring Type
Air Pressure	MPa (kgf/cm ²) 0.6 (6)			
Air Consumption	m ³ /min 0.42 (No-load) 0.45 (No-load) 0.91 (Load) 0.68 (No-load) 0.82 (Load)			
Free Speed	min ⁻¹ (rpm) 19000 13000			
Depressed Center Grinding Wheel	mm 58 100			
Inlet Size	Rc 1/4 Rc 3/8			
Mass (Weight)	kg 0.6 1.5			
Accessories Included	<ul style="list-style-type: none"> • Green DiscGS #80 • 5 mm Hex. Socket Screw Key • 19 mm Single Ended Spanner • Bushing R 1/4 x NPT 1/4 • 6 mm Hex. Socket Screw Key • Bushing R 3/8 x NPT 3/8 • 6 mm Hex. Socket Screw Key • 17 mm Single Ended Spanner • Bushing R 3/8 x NPT 3/8 			

Model **MAG-50**

- Depressed center wheel 125 mm



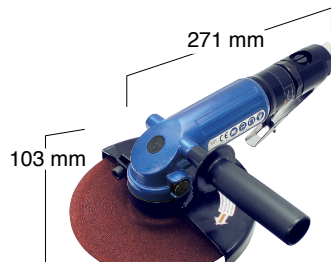
Model **MLG-50**

- Depressed center wheel 125 mm



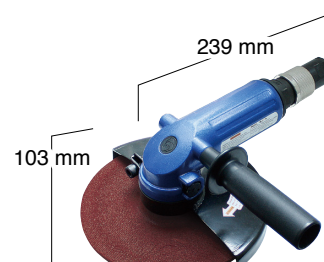
Model **MLG-70**

- Lever type
- Depressed center wheel 180 mm



Model **MLG-70** Non-CE

- Ring type
- Depressed center wheel 180 mm



Specifications

Model	MAG-50	MLG-50	MLG-70 Lever Type	MLG-70 Ring Type
Air Pressure	MPa (kgf/cm ²) 0.6 (6)			
Air Consumption	m ³ /min 0.77 (No-load) 0.83 (Load) 0.7 (No-load) 0.81 (Load) 0.75 (No-load) 1.1 (Load)			
Free Speed	min ⁻¹ (rpm) 12000 11000 7600			
Depressed Center Grinding Wheel	mm 125 125 180			
Inlet Size	Rc 3/8			
Mass (Weight)	kg 2.2 2.5 2.5 2.3			
Accessories Included	<ul style="list-style-type: none"> • Air Hose Sub Ass'y • Exhaust Hose Ass'y • Side Handle • 4 mm Hex Socket Screw Key • Pin Face Wrench • Bushing R 3/8 x NPT 3/8 • Handle • Wheel Guard Ass'y • 4 mm Hex. Socket Screw Key • 6 mm Hex. Socket Screw Key • Pin Face Wrench • Bushing R 3/8 x NPT 3/8 • 6 mm Hex. Socket Screw Key • 10 mm Hex. Socket Screw Key • Bushing R 3/8 x NPT 3/8 • Handle • Wheel Guard Ass'y 			

GRINDING & SANDING

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 MLS-20 

- Abrasive disc 1", 1 - 1/2" & 2"



Model MAS-40 Non-CE

- Abrasive disc 100 mm



Model MAS-70 Non-CE




- Abrasive disc 180 mm
- Japanese model











Specifications

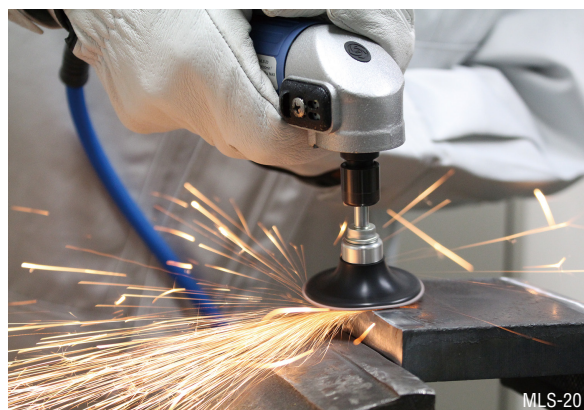
Model	MLS-20	MAS-40	MAS-70
Air Pressure MPa (kgf/cm ²)		0.6 (6)	
Air Consumption (No-load) m ³ /min	0.42	0.45	0.98
Free Speed min ⁻¹ (rpm)	19000	13000	7500
Abrasive Disc	1", 1 - 1/2" and 2"	100 mm	180 mm
Chuck Size mm	6		N/A
Inlet Size	Rc 1/4		Rc 3/8
Mass (Weight) kg	0.55	0.9	1.9
Accessories Included	<ul style="list-style-type: none"> • 1" Disc Sanding Pad • 1 - 1/2" Disc Sanding Pad • 2" Disc Sanding Pad • 2 pieces of 14 mm Single Ended Spanner • Bushing R 1/4 x NPT 1/4 • Assortment of Sample Abrasive Discs Contains: <ul style="list-style-type: none"> 2 each of #60, #80, #100, and #120 2" abrasive disc 2 each of #60, #80, #100, and #120 1-1/2" abrasive disc 2 each of #60, #80, #100, and #120 1" abrasive disc 	<ul style="list-style-type: none"> • 6 mm Hex. Socket Screw Key • Bushing R 1/4 x NPT 1/4 • 17 mm Single Ended Spanner 	<ul style="list-style-type: none"> • 6 mm Hex. Socket Screw Key • 17 mm Single Ended Spanner • Bushing R 3/8 x NPT 3/8

Grinding Discs for Myton MLG-25

PN	Description	Sales Unit	Disc
TB08872	GS#46 x 58 mm	5 pcs./set	
TB08873	GS#60 x 58 mm		
TB08874	GS#80 x 58 mm		
TB08875	GS#100 x 58 mm	5 pcs./set	
TB08876	GS#120 x 58 mm		
TB09074	Myton Disc Z Z#40 x 58	5 pcs./set	
TB09075	Myton Disc Z Z#60 x 58		
TB09076	Myton Disc Z Z#80 x 58		
TB09077	Myton Disc Z Z#100 x 58		
TB09078	Myton Disc Z Z#120 x 58	5 pcs./set	
TB09079	Myton Disc SA A#40 x 58		
TB09080	Myton Disc SA A#60 x 58		
TB09081	Myton Disc SA A#80 x 58		
TB09082	Myton Disc SA A#100 x 58		
TB09083	Myton Disc SA A#120 x 58		Designed for curve sanding.

Sanding Discs and Disc Pads for Myton MLS-20

PN	Description	Sales Unit	Sanding Disc	Disc Pad	Sales Unit
TB09736	Sanding Disc 1" x #40	25 pcs./set			1 piece
TB09737	Sanding Disc 1" x #60				
TB09738	Sanding Disc 1" x #80				
TB09739	Sanding Disc 1" x #100				
TB09740	Sanding Disc 1" x #120				
TB09741	Sanding Disc 1" x #180				
TB09742	Sanding Disc 1" x #240	25 pcs./set			1 piece
TB09743	Sanding Disc 1" x #320				
TB09744	Sanding Disc 1 - 1/2" x #40				
TB09745	Sanding Disc 1 - 1/2" x #60				
TB09746	Sanding Disc 1 - 1/2" x #80				
TB09747	Sanding Disc 1 - 1/2" x #100				
TB09748	Sanding Disc 1 - 1/2" x #120	25 pcs./set			1 piece
TB09749	Sanding Disc 1 - 1/2" x #180				
TB09750	Sanding Disc 1 - 1/2" x #240				
TB09751	Sanding Disc 1 - 1/2" x #320				
TB09752	Sanding Disc 2" x #40				
TB09753	Sanding Disc 2" x #60				
TB09754	Sanding Disc 2" x #80	25 pcs./set			1 piece
TB09755	Sanding Disc 2" x #100				
TB09756	Sanding Disc 2" x #120				
TB09757	Sanding Disc 2" x #180				
TB09758	Sanding Disc 2" x #240				
TB09759	Sanding Disc 2" x #320				



MLS-20

SANDING

Pneumatic Belt Sander

BELTON

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

- Quick belt change
- Rear exhaust system

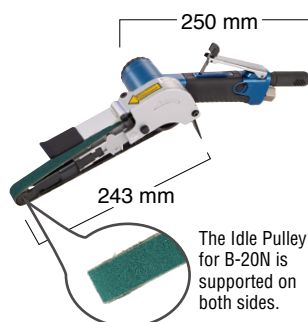
Model B-10N

- Belt size 10 mm (W)



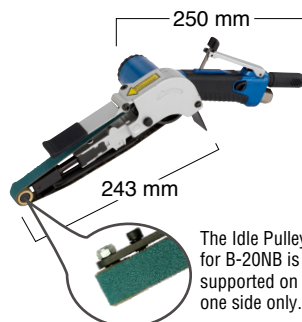
Model B-20N

- Belt size 20 mm (W)



Model B-20NB

- Belt size 20 mm (W)



Model B-30N

- Belt size 30 mm (W)



Specifications

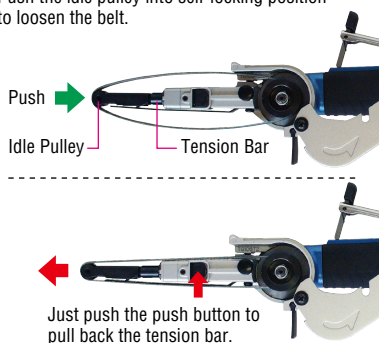
Specifications		B-10N	B-20N	B-20NB	B-30N
Air Pressure	MPa (kgf/cm ²)	0.6 (6)			
Air Consumption (No-load)	m ³ /min	0.4	0.52		0.68
Free Speed	min ⁻¹ (rpm)	17000			14000
Belt Speed	m/min	1120	2620		2160
Belt Size	mm	10 x 330	20 x 520		30 x 540
Inlet Size		Rc 1/4			
Mass (Weight)	kg	0.7	1.2		2.4
Accessories Included	<div><div><ul style="list-style-type: none">• 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• 2 mm Hex. Socket Screw Key• 4 mm Hex. Socket Screw Key• Bushing R 1/4 x NPT 1/4</div><div><ul style="list-style-type: none">• 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• Finger Pad Sub Ass'y• Pan Head Screw 5 x 10• Pan Head Screw 6 x 10</div><div><ul style="list-style-type: none">• 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• 4 mm Hex. Socket Screw Key• Bushing R 1/4 x NPT 1/4• Convex Shoe• Finger Pad Sub Ass'y• Pan Head Screw 5 x 10• Pan Head Screw 6 x 10</div><div><ul style="list-style-type: none">• 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• 4 mm Hex. Socket Screw Key• 5 mm Hex. Socket Screw Key• Handle• Bushing R 1/4 x NPT 1/4</div></div>				

Belt change is quick and easy

Belt change can be made easily by pushing the idle pulley against the housing to lock the tension bar.

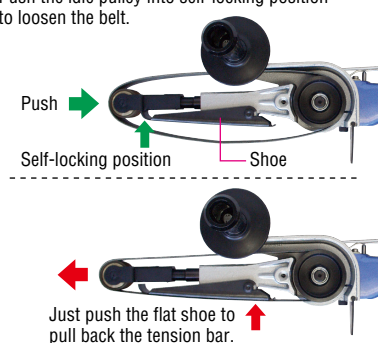
For B-10N & B-20N

Push the idle pulley into self-locking position to loosen the belt.



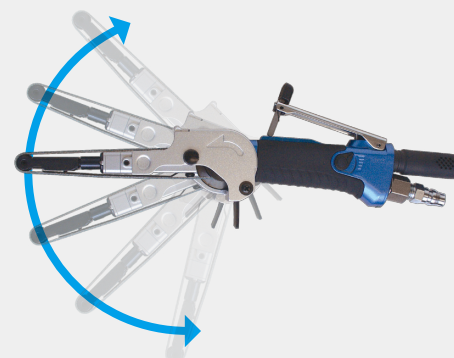
For B-30N

Push the idle pulley into self-locking position to loosen the belt.



Guard position is adjustable

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

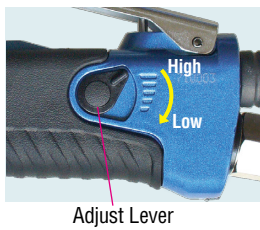


SANDING

Belt Speed Adjustment

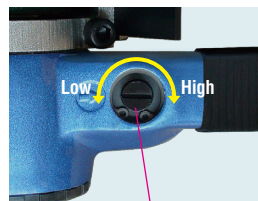
Belt speed can be easily adjusted by turning the adjust lever or adjust valve without a tool.

For B-10N & B-20N



Adjust Lever

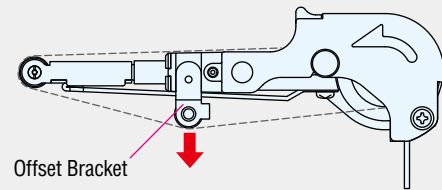
For B-30N



Adjust Valve

Optional Offset Bracket Ass'y for B-10N, B-20N, and B-30N

An optional offset bracket ass'y is available for individual model.




Offset Bracket

*Curved surface sanding is possible by using the offset bracket.



Abrasive Belt for B-10N

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

Grit	PN		
	Zirconia (Z)	Alumina (AA)	
#40	-	-	
#60	TB00241	-	
#80	TB00242	-	
#100	TB00243	-	
#120	TB00244	-	
#180	TB00245	-	
#240	TB00246	-	
#400	-	TA9A237	
		50 pcs./set	
		When using the belt, optional bracket 6 ass'y and TQ10942 shoe 6 are required.	
Sales Unit			



Abrasive Belt for B-10N

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

Grit	PN		
	Zirconia (Z)	Alumina (AA)	Ceramic (CE)
#40	-	-	TB08368
#60	TA9A064	-	TB08369
#80	TB00076	-	TB08370
#100	TB00077	-	TB08371
#120	TB00247	-	TB08372
#180	TB00248	-	-
#240	TB00249	-	-
#400	-	TA9A244	-
		50 pcs./set	
Sales Unit			



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

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

Grit	PN		
	Zirconia (Z)	Alumina (AA)	Ceramic (CE)
#40	TA99605	-	TB08373
#60	TA99606	-	TB08374
#80	TA99607	-	TB08375
#100	TA99608	-	TB08376
#120	TA99609	-	TB08377
#180	TB00250	-	-
#240	TB00251	-	-
#280	-	TA9A252	-
#320	-	TA9A253	-
#400	-	TA9A254	-
		20 pcs./set	20 pcs./set
Sales Unit			

Abrasive Belt for B-30N

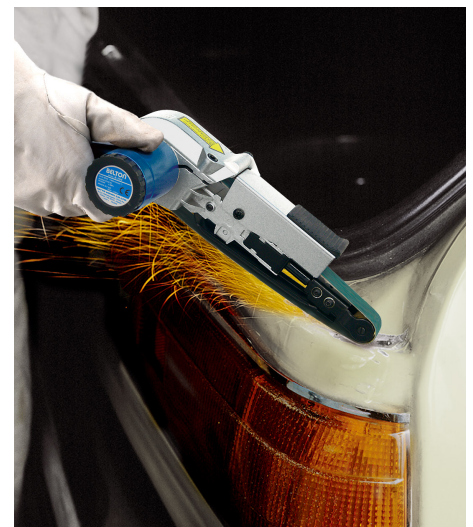
Belt Size : 30 mm x 540 mm (W x L)

Grit	PN		
	Zirconia (Z)	Alumina (AA)	Ceramic (CE)
#40	TB00252	-	TB08378
#60	TB00253	-	TB08379
#80	TB00254	-	TB08380
#100	TB00255	-	TB08381
#120	TB00256	-	TB08382
#180	TB00257	-	-
#240	TB00258	-	-
#280	-	TA9A262	-
#320	-	TA9A263	-
#400	-	TA9A264	-
		20 pcs./set	20 pcs./set
Sales Unit			

Optional Parts

Ref. No.	PN	Description	Sales Unit	Applicable Model		
				B-10N	B-20N B-20NB	B-30N
1	TB05539	Offset Bracket 10 Ass'y	1 set	●		
2	TB07109	Offset Bracket 20 Ass'y	1 set		●	
3	TB08150	Offset Bracket 30 Ass'y	1 set			●
4	TQ11686	Convex Shoe	1 piece		●	
5	TB07283	Bracket 6 Ass'y*	1 set	●		
6	TQ10942	Shoe 6*	1 piece	●		

*TB07283 and TQ10942 are used together.



SANDING

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

Model BB-10A

- Lever type
- Belt size 10 mm (W)



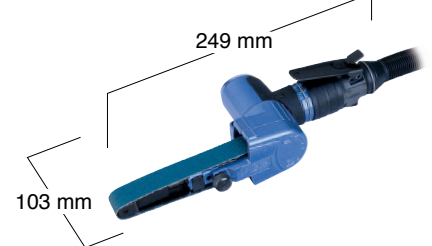
Model BB-10A Non-CE

- Ring type
- Belt size 10 mm (W)



Model BB-20

- Belt size 20 mm (W)



Specifications

Model	BB-10A Lever Type	BB-10A Ring Type	BB-20
Air Pressure	MPa (kgf/cm ²)	0.6 (6)	
Air Consumption (No-load)	m ³ /min	0.25	0.43
Free Speed	min ⁻¹ (rpm)	16000	
Belt Speed	m/min	1000	1100
Belt Size	mm	10 x 330	20 x 330
Inlet Size		Rc 1/4	
Mass (Weight)	kg	0.6	0.8
Accessories Included	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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"



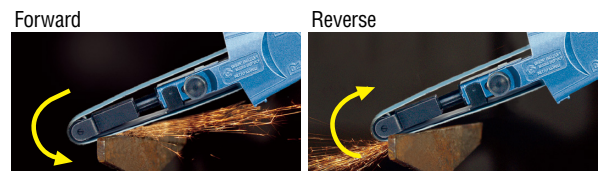
The throttle lever can be turned by 180 degrees.

Ergonomically designed for right or left hand operator convenience



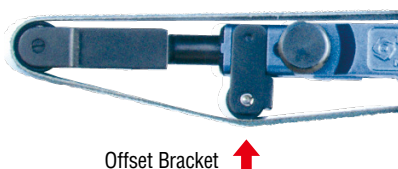
Belt rotation direction can be changed.

Belt rotation direction can be changed to control the direction of chip splash.



Sanding for curved surfaces

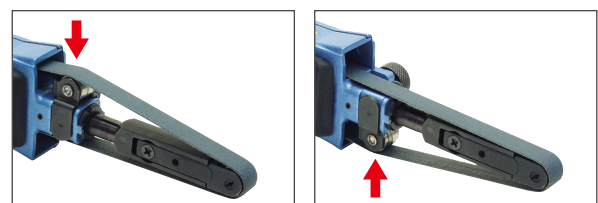
Curved surface sanding is possible by using the offset bracket.



Offset Bracket 

The offset bracket can be positioned up or down.

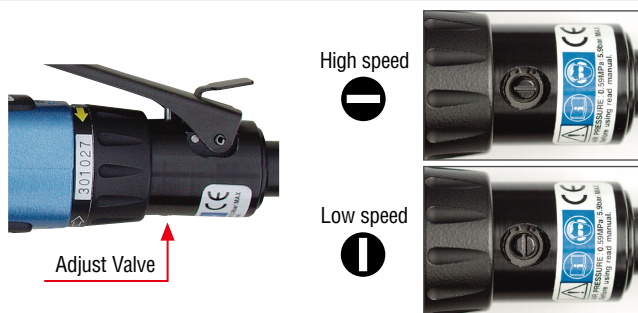
Push-in offset bracket pulley allows the following use.



SANDING

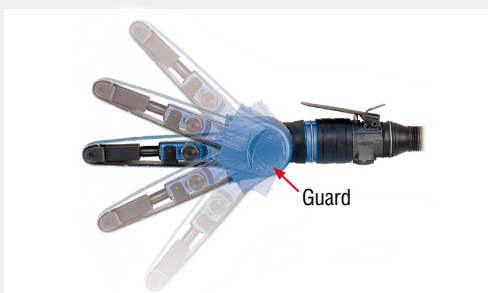
Belt Speed Adjustment (BB-10)

Speed can be adjusted by turning the adjust valve with a screwdriver.



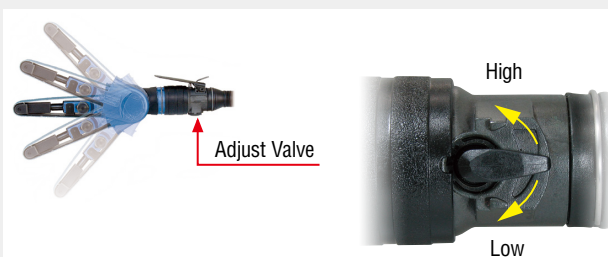
Guard position is adjustable (BB-20)

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



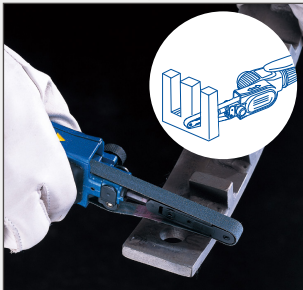
Belt Speed Adjustment (BB-20)

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



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

Deburring & chamfering of uneven edge and plate surfaces



Curved and unique profiles



Detail finishing



Deburring of thin materials



Optional Parts

Ref. No.	PN	Description	Sales Unit	Model
1	TB05539	Offset Bracket 10 Ass'y	1 set	BB-20
2	TB07109	Offset Bracket 20 Ass'y	1 set	
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 BB-10A

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

Grit	PN		
	Zirconia (Z)	Alumina (AA)	Ceramic (CE)
#40	-	-	TB08368
#60	TA9A064	-	TB08369
#80	TB00076	-	TB08370
#100	TB00077	-	TB08371
#120	TB00247	-	TB08372
#180	TB00248	-	-
#240	TB00249	-	-
#400	-	TA9A244	-
Sales Unit	50 pcs./set		50 pcs./set

Abrasive Belt for BB-20

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

Grit	PN			
	Zirconia (Z)	Alumina (AA)	Ceramic (CE)	Non-woven
#40	-	-	-	-
#60	TB07114	-	TB07125	-
#80	TB07115	-	TB07126	-
#100	TB07116	-	TB07127	-
#120	TB07117	-	TB07128	-
#180	TB07118	-	-	TB07122 A-M Equivalent to #180
#240	TB07119	-	-	-
#320	-	-	-	TB07121 A-VF Equivalent to #320
#400	-	TB07120	-	TB07123 S-SF Equivalent to #400
Sales Unit	20 pcs./set		20 pcs./set	5 pcs./set

SANDING

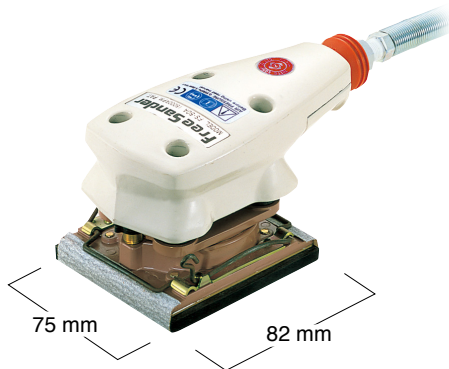
Handy Pneumatic Sander

FREE SANDER

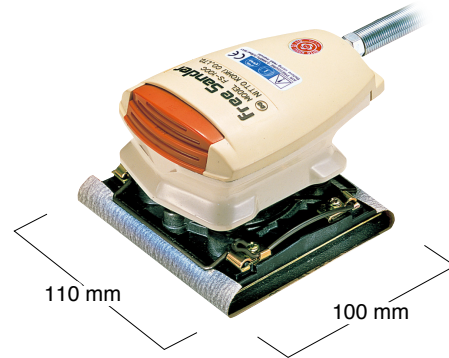
Super lightweight, low-vibration design

- 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** 



Model **FS-100C** 



Specifications

Model	FS-50A	FS-100C
Air Pressure MPa (kgf/cm ²)	0.6 (6)	
Air Consumption (No-load) m ³ /min	0.14	0.2
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
Inlet Size	Rc 1/8	
Mass (Weight) kg	0.5	
Accessories Included	<ul style="list-style-type: none"> • Air Hose H Ass'y • 5 pieces of Abrasive Paper #180 • 5 pieces of Abrasive Paper #240 • Bushing R 1/4 x NPT 1/4 	<ul style="list-style-type: none"> • Air Hose H Ass'y • 5 pieces of Abrasive Paper #180 • 5 pieces of Abrasive Paper #240 • Bushing R 1/4 x NPT 1/4

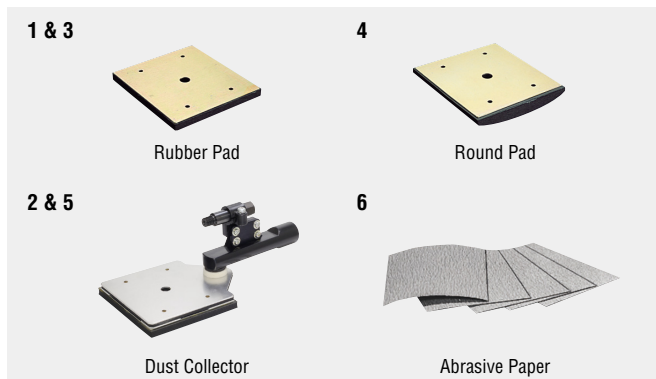
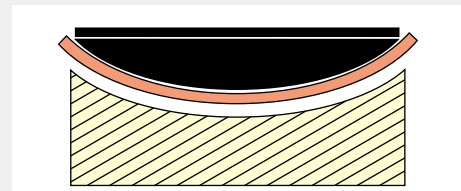
Optional Accessories

Ref. No.	PN	Description	Sales Unit	Model
1	TA99828	Rubber Pad	1 piece	FS-50A
2	TB02240	Dust Collector		
3	TA9A367	Rubber Pad	1 piece	FS-100C
4	TA91474	Round Pad		
5	TB02235	Dust Collector		
6	TA9A265	Abrasive Paper #100	200 pcs./set	
	TA9A266	Abrasive Paper #120		
	TA9A267	Abrasive Paper #150		
	TA9A268	Abrasive Paper #180		
	TA9A269	Abrasive Paper #240		
	TA9A270	Abrasive Paper #280		
	TA9A271	Abrasive Paper #320		

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.



SANDING

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** 



Specifications

Model	LS-10	
Air Pressure	MPa (kgf/cm ²)	0.6 (6)
Air Consumption (No-load)	m ³ /min	0.11
Free Speed	min ⁻¹	4000
Stroke Length	mm	4
Pad Size	mm	55 x 103
Paper Size	mm	57 x 140
Inlet Size		Rc 1/8
Mass (Weight)	kg	0.75
Accessories Included	<ul style="list-style-type: none"> • Air Hose E Ass'y • Block Rubber Pad • Base Plate A Ass'y • 5 pieces of Abrasive Paper #240 • 5 pieces of Abrasive Paper #320 • Bushing R 1/4 x NPT 1/4 	

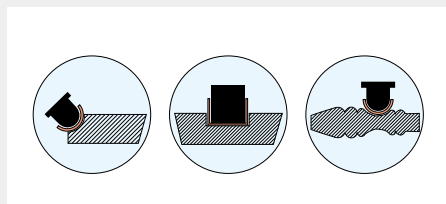
Optional Accessories

Ref. No.	PN	Description	Sales Unit
1	TB02244	Dust Collector	1 piece
2	TA96665	Rubber Pad	
3	TA96739	Block Rubber Pad	



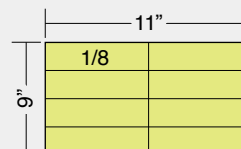
Special Sanding Pad

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.



SANDING

Pneumatic Compact Sander

ORBITAL SANDER

Model **OSV-60A** 

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



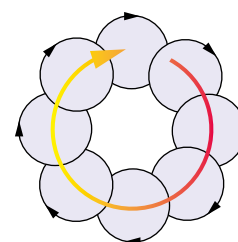
Specifications

Model	OSV-60A	
Air Pressure	MPa (kgf/cm ²)	0.6 (6)
Air Consumption (No-load)	m ³ /min	0.68
Free Speed	min ⁻¹ (rpm)	8500
Orbit Diameter	mm	10
Paper (Self Stick Paper) Size	mm	150
Inlet Size		Rc 1/4
Mass (Weight)	kg	2
Accessories Included	<ul style="list-style-type: none"> • Dust Collection Ass'y with Dust Bag • Single Ended Spanner 17 • Bushing R 1/4 x NPT 1/4 • Brush 	



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.



Pneumatic Compact Sander

PALM ORBITAL SANDER

Model **APS-125/150** 

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



Non Vacuum



Specifications

Model	APS-125	APS-150
Air Pressure	MPa (kgf/cm ²)	0.6 (6)
Air Consumption (No-load)	m ³ /min	0.45
Free Speed	min ⁻¹ (rpm)	10000
Orbit Diameter	mm	5
Paper (Self Stick Paper) Size	mm	125
Inlet Size		Rc 1/4
Mass (Weight)	kg	0.69
Accessories Included	<ul style="list-style-type: none"> • 17 mm Single Ended Spanner • Bushing R 1/4 x NPT 1/4 	

*VELCRO Pad is available as option.

For Self Vacuum & Central Vacuum

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

Self Vacuum

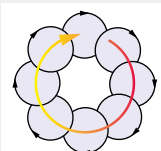


Central Vacuum



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.



Pneumatic Die Grinder

AIR SONIC

Ideal for most deburring, finishing and grinding applications

- Precision machined with heavy-duty spindle and support bearings
- 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

Model L-25B

- For all grinding, deburring and finishing jobs



Model L-35C







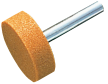

- Special design for rotary burrs











Specifications		L-25B	L-35C
Model			
Air Pressure	MPa (kgf/cm ²)	0.6 (6)	
Air Consumption (No-load)	m ³ /min	0.4	0.35
Free Speed	min ⁻¹ (rpm)	27000	37500
Chuck Size	mm	6	1.5
Inlet Size		Rc 1/4	
Mass (Weight)	kg	0.6 (without hose)	0.45 (without hose)
Accessories Included		<ul style="list-style-type: none"> • 14 mm Single Ended Spanner • Mounted Wheel No.2 • Mounted Wheel No.3 • Chuck Pin • Bushing R 1/4 x NPT 1/4 	<ul style="list-style-type: none"> • 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 Accessories


Mounted Wheel for AIR SONIC L-25B (Sales Unit : 5 pcs./set)

No.1 : 16 x 32  PN : TA9A277	No.2 : 16 x 32  PN : TA9A278	No.3 : 19 x 20  PN : TA9A279	No.4 : 25 x 25  PN : TA9A280
No.5 : 19 x 28  PN : TA9A281	No.6 : 25 x 13  PN : TA9A282	No.7 : 32 x 10  PN : TA9A283	No.8 : 16 ball  PN : TA9A284

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

No.1 : CB1C-106  PN : TP10594	No.2 : CB2C-105  PN : TP10595	No.3 : CB3C-103  PN : TP10596	No.4 : CB4C-103  PN : TP10597
No.5 : CB5C-104  PN : TP10598	No.6 : CB6C-102  PN : TP10599	No.7 : CB7C-103  PN : TP10600	No.8 : CB8C-105  PN : TP10601

Optional Accessory

PN	Description	Sales Unit
TP02806	Chuck Sleeve 6 x 3 mm	1 piece
 <p>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.</p>		



GRINDING/FILING

Pneumatic Die Grinder

AIR SONIC

Model **AL-55** 

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 light weight for comfortable operation over long periods of time.
- Triangular grip fits operator's hand. Special plastic grip prevents cold hands and absorbs vibration.
- Rear exhaust system



Optional Accessory

PN	Description	Sales Unit
TB00137	Mounted wheel 5 x 13 x 3	10 pcs./set



Specifications

Model	AL-55
Air Pressure	MPa (kgf/cm ²)
Air Consumption (No-load)	m ³ /min
Free Speed	min ⁻¹ (rpm)
Chuck Size	mm
Inlet Size	G 1/4
Mass (Weight)	kg
Accessories Included	<ul style="list-style-type: none"> • 2 pieces of 7 x 9 mm Spanner • Mounted Wheel 5 x 13 x 3 • Bushing R 1/4 x NPT 1/4



Portable Precision Finishing File

SUPER HAND LIGHT

Model **SHL-40** 

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

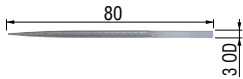
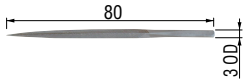
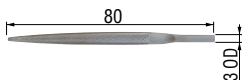
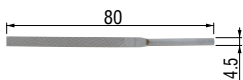
- Small size, light-weight, and low-vibration model
- Reduced operator fatigue for greater productivity



Specifications

Model	SHL-40
Air Pressure	MPa (kgf/cm ²)
Air Consumption (No-load)	m ³ /min
Stroke Speed	min ⁻¹
Stroke Length	mm
File shank Size	mm
Inlet Size	Rc 1/4
Mass (Weight)	kg
Accessories Included	<ul style="list-style-type: none"> • 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 : TB09652	Triangular Taper File LF-11  PN : TB09654
Half Round File LF-12  PN : TB09653	Flat File LF-13  PN : TB09651

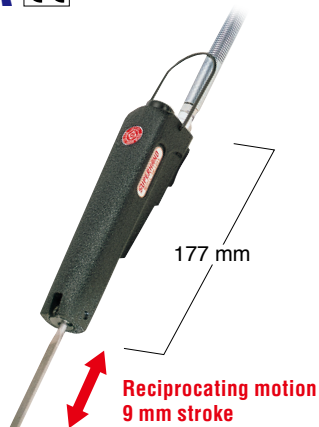
SUPER HAND

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

- Rugged construction for reliable performance



Model ASH-900

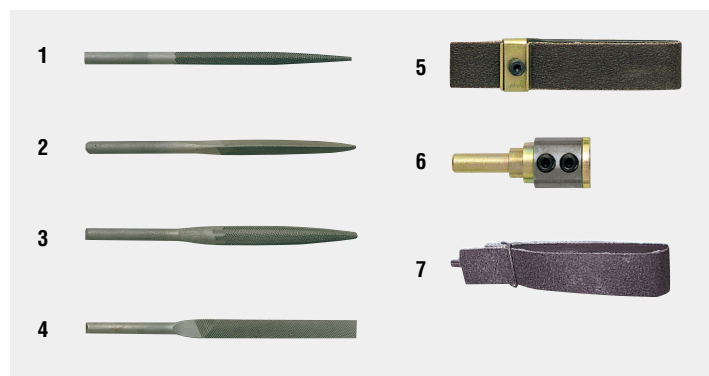
- Weight reduced by half for comfortable operation over long period of time



Specifications			
Model		SH-100A	ASH-900
Air Pressure	MPa (kgf/cm ²)		0.6 (6)
Air Consumption (No-load)	m ³ /min	0.24	0.13
Stroke Speed	min ⁻¹	3700	6300
Stroke Length	mm		9
File shank Size	mm	6.3	5.0
Inlet Size			Rc 1/4
Mass (Weight)	kg	1.1	0.5
Accessories Included		<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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

Ref. No.	PN	Description	Sales Unit
1	TA9A222	Rat Tail File SF-10	5 pcs./set
2	TA9A223	Triangular Taper File SF-11	
3	TA9A224	Half Round File SF-12	
4	TA9A225	Flat File SF-13	
5	TA91752	Rubber Pad Ass'y for SH-100A	1 set
6	TA94625	Supporter Ass'y for SH-100A (use with TA91752)	
7	TB04319	Sanding Pad Ass'y for ASH-900	



FILING/DEBURRING

Portable Fine Finishing File

MICRO AIR HAND

Light weight, ultra-low vibration filer for polishing and lapping operations

- Fine reciprocating motion best for precision parts filing

Model **MAH-05** 

Model **MAH-16** 



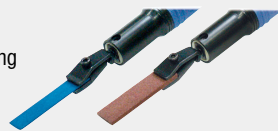
Reciprocating motion
0.5 mm stroke



Reciprocating motion
2.2 mm stroke

Mounting Examples

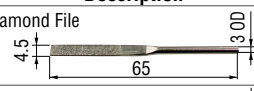
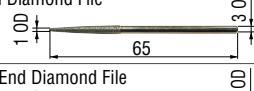
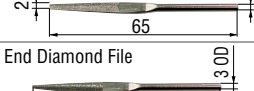


*This holder can be used for polishing and lapping applications by mounting ceramic stones, etc.
(Max size: Thickness 3.2 mm x Width 20 mm)



Specifications

Model	MAH-05	MAH-16
Air Pressure	MPa (kgf/cm ²) 0.6 (6)	
Air Consumption (No-load)	m ³ /min 0.07	
Stroke Speed	min ⁻¹ 22000	11000
Stroke Length	mm 0.5	2.2
File Shank Size	mm 3	
Inlet Size	Rc 1/4	
Mass (Weight)	kg 0.37	
Accessories Included	<ul style="list-style-type: none"> • 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
TB07502	Flat End Diamond File 	5 pcs./set
TB07503	Round End Diamond File 	5 pcs./set
TB07504	Triangular End Diamond File 	5 pcs./set
TB07505	Half-round End Diamond File 	5 pcs./set
TB07506	Vice Holder* 	1 set

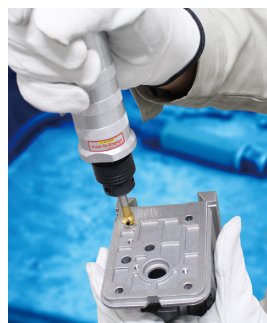
Pneumatic Deburring Tool

BURR CUTTER

Model **BC-005** 

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



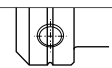
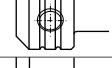
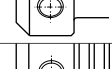

Specifications

Model	BC-005
Air Pressure	MPa (kgf/cm ²) 0.6 (6)
Air Consumption (No-load)	m ³ /min 0.22
Free Speed	min ⁻¹ (rpm) 420
Deburring Hole diameter	mm 3 to 34
Countersink Shank Size	mm 6, 8, 10, 12*
Inlet Size	Rc 1/8
Mass (Weight)	kg 0.75
Accessories Included	<ul style="list-style-type: none"> • 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.

Countersinks are not provided with the tool. Please purchase them locally.

Compatibility table between chuck and countersink shank diameter

Chuck	Appearance*	Countersink Shank Diameter (mm)	Overall Length of Chuck (mm)
Chuck 6		6	49.5
Chuck 8		8	49.5
Chuck 10		10	49.5
Chuck 12		12	60

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

CUTTING/DRILLING

Pneumatic Hacksaw

SUPER SAW

Model **SSW-110** 



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

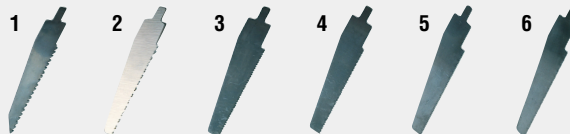
- Ideal for sawing and trimming operations on sheet metal, aluminum, plastic and other materials
- Suitable for automotive, fabrication, HVAC, electrical and woodworking applications
- Ultra lightweight construction with low vibration performance
- Optimized blade stroke for maximum cutting performance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

Specifications

Model	SSW-110	
Air Pressure	MPa (kgf/cm ²)	0.6 (6)
Air Consumption (No-load)	m ³ /min	0.29
Stroke Speed	min ⁻¹	7000
Stroke Length	mm	11
Capacity (Max. plate thickness)	mm	3
Inlet Size	kg	Rc 1/4
Mass (Weight)		0.62
Accessories Included	<ul style="list-style-type: none"> • 2 pieces of 32 mm 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	TB00759	9 TPI Saw Blade for Gypsum-board	10 pcs./set
2	TB00760	12 TPI Saw Blade for Plywood Panel	
3	TB00192	14 TPI Saw Blade for Plastic	
4	TB00193	18 TPI Saw Blade for Plastic	
5	TA9A011	24 TPI Saw Blade for Mild Steel	
6	TA9A005	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
- Designed for industrial and production applications

Model **ADR-65** 

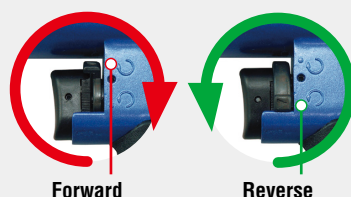
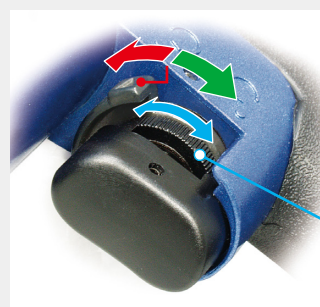


Model **ADR-100** 



Reversible

Change rotation direction by turning the valve as indicated.



Forward

Reverse

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

Specifications

Model	ADR-65	ADR-100
Air Pressure	MPa (kgf/cm ²) 0.6 (6)	
Air Consumption (No-load)	m ³ /min 0.55	0.67
Free Speed	min ⁻¹ (rpm) 2900	2000
Max. drilling Capacity	6.5	10.0
Inlet Size	Rc 1/4	
Mass (Weight)	kg 0.8	1.1
Accessories Included	<ul style="list-style-type: none"> • 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

SPRING BALANCER series



TIGON spring balancer improves work safety and efficiency

The "TIGON" range of 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 2 meters.

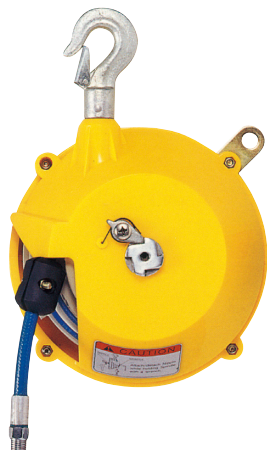
Specifications

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	1.3	1.3
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	1.3	1.3	1.5	1.5
Weight	kg	3.4	3.8	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

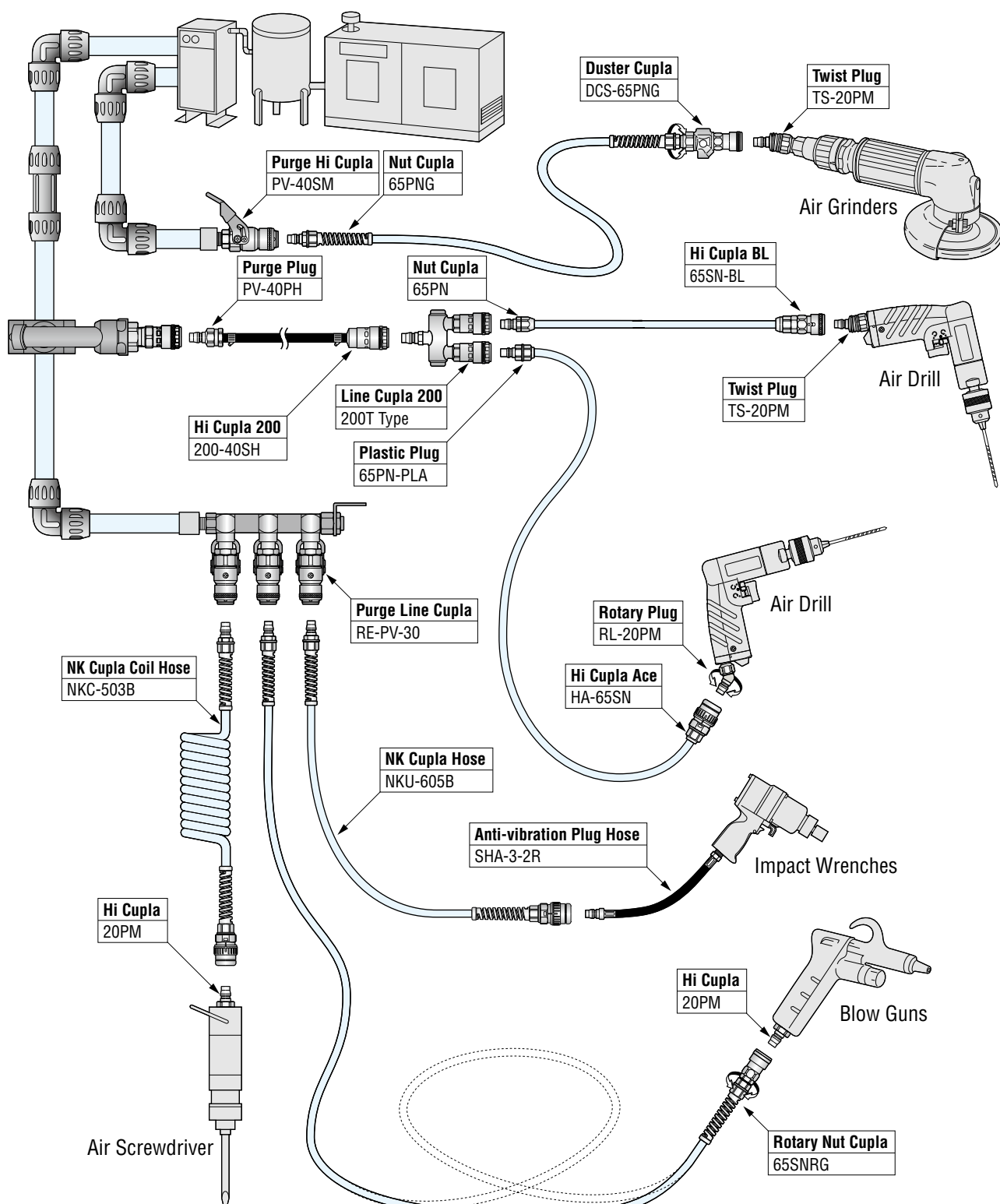
Vibration Level, Sound Pressure Level, and Sound Power Level

Series	Model	Vibration Level m/s ²	Measurement Point	Vibration Standard	Sound Pressure Level dB(A)	Sound Power Level dB(A)
Beveler (Pneumatic)	AMBL-0307	4.1	Grip	EN ISO 20643	87	98
		6.3	Knob			
	AMB-0307	4.0	Grip		87	98
		6.2	Knob			
	CB-01	≤2.5	Grip		88	99
	CB-02	4.1	Grip		74	85
Beveler (Electric)	HB-15B	≤2.5	Grip	EN 60745-1	81	92
		3.4	Handle			
	EMB-0307B	10.0	Grip		64	75
		4.6	Handle			
	MB-03A	4.9	Knob		84	95
		5.9	Grip			
Jet Chisel (Pneumatic)	JEX-20	6.6	Knob	EN ISO 28927-9	80	91
		7.0	Grip			
	ECB-0203	7.0	Knob		83	84
	JEX-24	10.5	Grip			
		28	Needle Guide			
Jet Chisel (Electric)	JEX-28	15.0	Grip	EN 60745-2-6	84	95
		17.5	Needle Guide			
	JEX-2800A	11.5	Grip		91	102
		14.5	Needle Guide			
	EJC-32A	16.0	Grip		92	103
		15.0	Handle			
Auto Chisel (Pneumatic)	A-300	≥30	—	EN 28927-9	81	92
Air chipper (Pneumatic)	ACH-16	66	Grip		93	104
		100	Grip			
Super Kelen (Pneumatic)	S-250	9.0	Grip		96	107
		8.3	Grip			
	S-500	11.5	Grip		94	105
		17.0	Supporting Section			
Myton Grinder (Pneumatic)	S-1000	58	Grip	EN 20643	100	111
		81	Supporting Section			
	MLG-25	≤2.5	Grip		99	110
		≤2.5	Grip			
	MAGW-40 Lever	6.3	Grip		84	95
		6.3	Grip			
Myton Sander (Pneumatic)	MAGW-40 Ring	4.6	Grip	EN 28927-1	84	95
		6.5	Handle			
	MAG-50	3.6	Grip		84	95
		4.1	Handle			
	MLG-50	3.8	Grip		89	100
		6.2	Handle			
Belton (Pneumatic)	MLG-70 Lever	3.5	Grip	EN 28927-3	89	100
		7.0	Handle			
	MLG-70 Ring	≤2.5	Grip		85	96
		≤2.5	Grip			
	MAS-40	≤2.5	Grip		79	90
		≤2.5	Grip			
Free Sander (Pneumatic)	MAS-70	≤2.5	Grip	EN 28927-3	85	96
		≤2.5	Handle			
	B-10N	≤2.5	Grip		85	96
		≤2.5	Grip			
	B-20N	≤2.5	Grip		83	94
		≤2.5	Grip			
Line Sander (Pneumatic)	B-20NB	≤2.5	Grip	EN 20643	85	96
		≤2.5	Grip			
	B-30N	≤2.5	Grip		82	93
		≤2.5	Handle			
	BB-10A Lever Type	≤2.5	Grip L		78	89
		≤2.5	Grip R			
Orbital Sander (Pneumatic)	BB-10A Ring Type	≤2.5	Grip L	ISO 28927-3	78	89
		≤2.5	Grip R			
	BB-20	≤2.5	Grip L		85	96
		≤2.5	Grip R			
	FS-50A	2.7	Grip		89	100
		≤2.5	Grip			
Palm Orbital Sander (Pneumatic)	FS-100C	6.0	Grip	28927-12	77	88
		≤2.5	Grip		85	96
	LS-10	4.6	Grip		78	89
		7.2	Supporting Section			
	OSV-60A	5.5	Grip		89	100
		7.4	Supporting Section			
Air Sonic (Pneumatic)	APS-125	7.2	Grip	EN 28927-8	76	87
		3.1	Grip		76	87
	APS-150	≤2.5	Grip		71	82
		9.3	Grip		71	82
	SSW-110	6.8	Grip		76	87
		4.8	Grip		62	73
Super Hand (Pneumatic)	SH-100A	≤2.5	Grip	EN 20643	71	81
		≤2.5	Grip		64	75
	ASH-900	≤2.5	Grip		64	75
		≤2.5	Grip			
	SHL-40	4.2	Grip		89	100
Micro Air Hand (Pneumatic)	MAH-05	≤2.5	Grip	EN 20643		
		≤2.5	Grip			
Burr Cutter (Pneumatic)	MAH-16	≤2.5	Grip	EN 20643		
		≤2.5	Grip			
Burr Cutter (Pneumatic)	BC-005	4.2	Grip	EN 20643		

QUICK CONNECT COUPLINGS FOR PNEUMATIC TOOLS

CUPLA

Nitto Kohki supplies various types of air Cuplas 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 Cuplas. 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 cupla with an automatic shut-off valve in the socket
- Important parts are hardened for excellent wear resistance and durability

Plug


For hose connection

17PH	For 1/4" hose	
20PH	For 1/4" hose	
30PH	For 3/8" hose	
40PH	For 1/2" hose	
400PH	For 1/2" hose	
600PH	For 3/4" hose	
800PH	For 1" hose	


For female thread connection

10PM	For Rc 1/8	
20PM	For Rc 1/4	
30PM	For Rc 3/8	
40PM	For Rc 1/2	
400PM	For Rc 1/2	
600PM	For Rc 3/4	
800PM	For Rc 1	

For male thread connection


20PF	For R 1/4	
30PF	For R 3/8	
40PF	For R 1/2	
400PF	For R 1/2	
600PF	For R 3/4	
800PF	For R 1	

For male thread connection

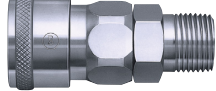
20PFF	For G 1/4"	

Socket


For hose connection

17SH	For 1/4" hose	
20SH	For 1/4" hose	
30SH	For 3/8" hose	
40SH	For 1/2" hose	
400SH	For 1/2" hose	
600SH	For 3/4" hose	
800SH	For 1" hose	

For female thread connection

10SM	For Rc 1/8	
20SM	For Rc 1/4	
30SM	For Rc 3/8	
40SM	For Rc 1/2	
400SM	For Rc 1/2	
600SM	For Rc 3/4	
800SM	For Rc 1	

For male thread connection

20SF	For R 1/4	
30SF	For R 3/8	
40SF	For R 1/2	
400SF	For R 1/2	
600SF	For R 3/4	
800SF	For R 1	

Specifications


Body material	Steel(Chrome-plated)	Brass	Stainless steel
Size	Thread	1/8" to 1"	
	Hose barb	1/4" to 1" hose	
Working pressure	MPa	1.5	1.5
	kgf/cm ²	15	15
Seal material	Nitrile rubber		Fluoro rubber
Mark	NBR (SG)		FKM (X-100)
Working temperature range	-20°C to +80°C		-20°C to +180°C
Remarks	Standard material		

HI CUPLA 200


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

Socket


For hose connection

200-17SH	For 1/4" hose	
200-20SH	For 1/4" hose	
200-30SH	For 3/8" hose	
200-40SH	For 1/2" hose	

For female thread connection

200-20SM	For Rc 1/4	
200-30SM	For Rc 3/8	
200-40SM	For Rc 1/2	

For male thread connection

200-20SF	For R 1/4	
200-30SF	For R 3/8	
200-40SF	For R 1/2	

Specifications

Body material	Steel (Chrome-plated)
Size(Threads and hose barb)	1/4", 3/8", 1/2"
Working pressure	MPa
	1.5
	kgf/cm ²
	15
Seal material	Nitrile rubber
Mark	NBR (SG)
Working temperature range	-20°C to +60°C
Remarks	Standard material



QUICK CONNECT COUPLINGS FOR PNEUMATIC TOOLS

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/cm ²)
Seal material	Nitrile rubber

HI CUPLA ACE

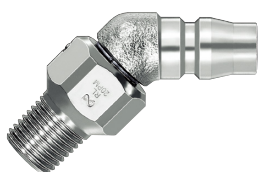


- Lightweight plastic coupling with automatic safety lock
- Pressure ratings comparable to steel Cuplas
- Just push plug into socket for simple connection

Specifications

Body material	Engineering plastics (PBT, POM)
Working pressure	1.5 MPa (15 kgf/cm ²) 1.0 MPa (10 kgf/cm ²) 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/cm ²)
Seal material	Nitrile rubber

FULL-BLOW CUPLA

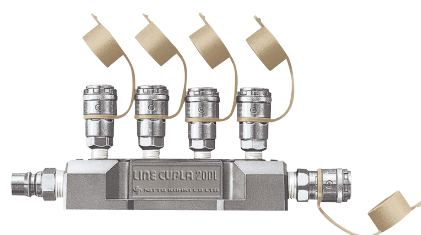


- Unique full-open gate type valve mechanism realizes low pressure loss and high flow rate, which reduces required source air volume
- The flow rate is increased by up to 40% more than that of conventional Cuplas
- During connection and disconnection, the valve is closed, enabling connection/disconnection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

Specifications

Body material	Aluminum alloy
Working pressure	1.5 MPa (15 kgf/cm ²)
Seal material	Nitrile rubber

LINE CUPLA



- Enables several air lines to be taken simultaneously 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/cm ²)
Seal material	Nitrile rubber

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

QUICK CONNECT COUPLINGS FOR PNEUMATIC TOOLS

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/cm ²)
Seal material	Nitrile rubber

PURGE PLUG



- Eliminates an unpleasant 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

Specifications

Body material	Steel (Chrome-plated)
Working pressure	1.0 MPa (10 kgf/cm ²)
Seal material	Nitrile rubber

ANTI-VIBRATION PLUG HOSE

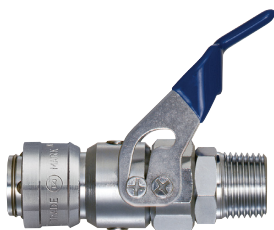


- Protects the Cupla from shocks generated by vibrating tools and impact tools
- Prevents hard-to-notice flow reduction caused by "Cupla" wear under continuous vibration
- Flexible rubber hose allows free and wide range of tool motion.

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 unpleasant 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/cm ²)
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 component Cupla's 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/cm ²)
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, “Cuplas” quick connect couplings, and linear-motor-driven piston “compressors/vacuum pumps”.

Professional Tools for Assembling High-Technology Goods

Nitto Kohki's “delvo” electric screwdrivers are high-quality tools for professional use, with special emphasis on precise torque control and long-term reliability. “delvo” give you the ability to get it right, every time.

DLV5700 series



- Torque range : 0.02 - 0.4 Nm
- Speed : 450 - 1800 min⁻¹
- Machine screw size : 1.0 - 3.0 mm
- Low-shock for tightening
- Electro-static discharge (ESD) control

DLV7104/8104/8204 series



- Torque range : 0.25 - 4.5 Nm
- Speed : 400 - 2000 min⁻¹
- Machine screw size : 2.6 - 6.0 mm
- The clear plastic cover is mounted over the torque adjustment ring to prevent unintentional changes of the preset torque amount
- Heavy-duty cam installed for maximum cycle life

DLV02/12/16 series



- Torque range : 0.03 - 1.6 Nm
- Speed : 700 - 1000 min⁻¹
- Machine screw size : 1.0 - 4.2 mm
- Brushless motors are incorporated for maximum tool life
- Grounded bit system standard
- Universal input voltage from 100 to 240 V AC for easy installation (DCL16S)

DLV30/45/70 series



- Torque range : 0.4 - 7.0 Nm
- Speed : 650 - 2000 min⁻¹
- Machine screw size : 2.6 - 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 <http://www.nitto-kohki.co.jp/e/> and see our eCatalog here.

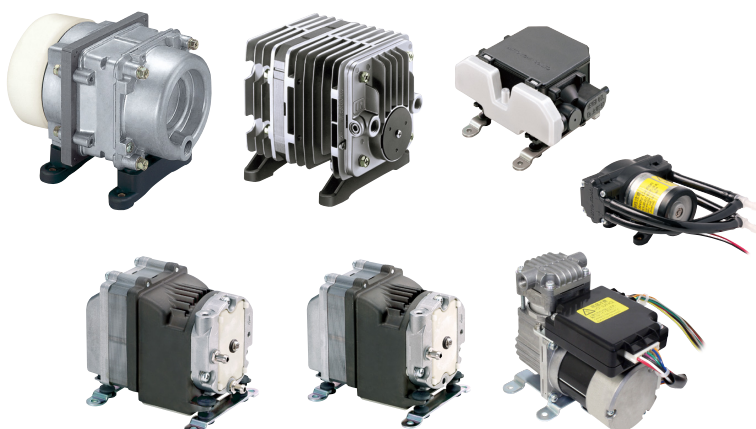
tools”, but also next-generation laborsaving devices, including high precision “delvo” electric screw drivers,

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

Nitto Kohki offers a lineup of various types of compressors and pumps. These include linear-driven, electro-magnetic diaphragm, DC, and “bimorph” piezoelectric products. Our compressors and pumps are renowned for being compact and lightweight as well as for their low noise level, clean operation and durability for longer life. In further applying these technologies, we are also expanding applications to various fields that include medical, well-being, health devices and environment 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



Piezoelectric Pump

- Compact, lightweight, durable and quiet
- Low power consumption and electromagnetic noise
- Simple flow rate adjustment



DC Diaphragm Liquid Pump

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



AC Linear Free Piston Blower

- Linear blowers for aeration
- Low noise and easy maintenance



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

Safety Precautions

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

Warning for ALL Machines and Tools

- Always keep the work area free from clutter and potentially dangerous conditions such as hanging power cords, working debris, air hoses, and garbage to prevent accidents from occurring.
- Consider proper working environments for each tool carefully. Do not expose tools to extreme amounts of moisture or direct contact with water or rain. Keep area well lit at all times to prevent hidden dangers and never operate the equipment near flammable liquids or in gaseous or explosive atmospheres.
- Keep all tools and tool accessories away from children and all unauthorized personnel. Serious injury or possible death may result from machines being handled by children.
- Properly store machines and accessories while not in use. They should be kept in a dry, locked-up location out of reach of children or unauthorized personnel.
- Improper or negligent use of tools will cause increased maintenance costs, and the amount of time in which to complete the job. Always let the tool do the work at the rate of which it was designed. Best performance is always achieved by reading and understanding the proper operation of each machine or tool.
- Always wear safety glasses and protective hand and foot wear during or around operating tools. Wear a protective hair covering to contain long hair. Do not wear loose clothing and/or accessories as they may be caught in moving parts and inflict serious injury or possible death.
- Wear respiratory protection when working in an environment where dust particles are generated during operation.
- Do not over-reach or allow yourself to become unstable during tool operation and always maintain a correct posture.
- Use clamps or a vise to secure the work piece tightly and eliminate vibration. Never hold the work piece with your hands, keep both hands on the tool for increased productivity.
- Use the right tool or machine that can complete the job within its specifications. Do not attempt to adapt smaller machines or tools to complete a job designed for heavy-duty equipment. Do not use the tools for other than what they were designed for. There is a right tool for each job, be aware of tool limitations and never overload.
- Make sure to inspect all external screws, nuts, bolts and attached accessories are fastened tightly and secure prior to each use. All moving parts should be free from obstruction and allowed to operate smoothly. Any damaged or missing parts should be repaired or replaced by the sales agent or distributor from which the tool was originally purchased. Do not use machines or tools which cannot be activated or stopped with a power switch or lever.
- Do not use any machine with a damaged, frayed, cut, or deteriorated power cords or air hoses. Always replace at the first sign of damage.
- Always remove all tools required to adjust, add, or remove parts from tools prior to use to prevent tool damage or user injury.
- Always avoid an unexpected start by having all power buttons or levers in the off position prior to attaching to a power or air supply. Never carry tools with your finger on the on/off switch or lever when the power or air supply is attached.
- Do not use the power or air supply lines to move, carry or support the tool during usage or transportation. Do not place the power or air line near a heat source, oil, water, or items with sharp edges.
- Never leave a machine or tool running unattended. Keep a firm grip on the designated areas of the machine or tool until it comes to a complete stop. Always turn the power switch or lever to the off position and disconnect from the power source when not in use.
- Do not disassemble or modify a tool to complete a job other than what it was designed for. This will void any warranty on the equipment and may cause serious personal injury or possible death.
- Maintenance is necessary for all machines and tools. Always maintain blades and cutters properly and replace when edges become damaged or are not sharp enough for safe operation. Follow the instruction manual for lubrication needs and adjustment points if applicable. Check the power and air supply lines periodically and change accordingly to safety regulations. If an extension line is adopted, always make sure that it meets or exceeds tool requirements for amperage or air supply before using and is rated for outdoor usage. Change supply lines whenever they are found to be defective or damaged. Keep the grip and handles dry and clean of grease or oil so that it will not disturb proper operation.
- Switch off and disconnect from power source before servicing equipment or changing accessories.
- Be alert and pay close attention to the work being performed at all times. Do not operate machines or tools when heavily fatigued. Users should be aware of all circumstances surrounding their application.
- Use only recommended parts and accessories as per individual machine or tool operator manuals. Use of improper accessories or attachments may result in serious injury or possible death.
- All repairs and services must be performed by authorized Nitto Kohki dealers or technicians.
- Do not deface or remove any label, warning indicator, or nameplate associated with each machine or tool.

Notice for Electric Tools

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

Notice for Air Tools

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

	Model	Prod. No.	Description	Page
A	A-100 220 - 240 V	013200403	Atra Ace	14
	A-300	090600001	Auto Chisel	31
	ACH-16	091800001	Air Chipper	30
	ADR-100	160700020	Air Drill	48
	ADR-65	160700030	Air Drill	48
	AJC-16	061100001	Jet Chisel	33
	AL-55	184300001	Air Sonic	45
	AMB-0307	135400001	Mini Beveler	27
	AMBL-0307	135600001	Mini Beveler	27
	AO-5575 220 - 240 V	016400401	Atra Ace	11
	APS-125 NVL5H	074903001	Palm Orbital Sander	43
	APS-125 NVV5H	074900001	Palm Orbital Sander	43
	APS-150 NVV6H	075000001	Palm Orbital Sander	43
	ASH-900	111400001	Super Hand	46
B	B-10N	101810001	Belton	37
	B-20N	101820001	Belton	37
	B-20NB	101840001	Belton	37
	B-30N	101830001	Belton	37
	BB-10A Lever	101601012	Baby Belton	39
	BB-10A Ring	101601010	Baby Belton	39
	BB-20	101700012	Baby Belton	39
	BC-005	136505101	Burr Cutter	47
	BHM-02035	TB00390	Broach Holder	16
	BHM-03050	TB00392	Broach Holder	16
	BHM-13075	TB00352	Broach Holder	16
	BHM-14075	TB00354	Broach Holder	16
C	CB-01	136503001	Circuit Beveler	27
	CB-02	135200001	Circuit Beveler	28
	CBR-03	136502000	Circuit Beveler	28
	CH-24	091500001	Air Chipper	30
	CLA-2720 220 - 240 V	016811401	Atra Ace	5
E	E25-0615 220 - 240 V	155500401	Handy Selfer	19
	E55-0619 110 - 120 V	155300101	Handy Selfer	19
	E55-0619 220 - 240 V	155300501	Handy Selfer	19
	ECB-0203 220 - 240 V	135800300	Circuit Beveler	26
	EJC-32A 110 - 120 V	065200101	Jet Chisel	34
	EJC-32A 220 - 240 V	065200301	Jet Chisel	34
	EMB-0307B 220 - 240 V	136010201	Mini Beveler	25
F	FS-100C	080900001	Free Sander	41
	FS-50A	080600001	Free Sander	41
H	HA06-1322	155700001	Selfer	18
	HA07-1624	155800001	Selfer	18
	HA11-1624	155900001	Selfer	18
	HB-15B 220 - 240 V	131000201	Hand Beveler	25
	HB-15B 110 - 120 V	131000102	Hand Beveler	25
	HPD-05 220 - 240 V	152500401	Pump	17
	HPD-05 110 - 120 V	152500601	Pump	17
	HS06-1322	152100001	Selfer	17
	HS07-1624	152200001	Selfer	17
	HS11-1624	152300001	Selfer	17
	HW-0	169000171	Hose Reel Balancer	49
	HW-3	169000181	Hose Reel Balancer	49
	HW-5	169000191	Hose Reel Balancer	49
J	JC-16	060100001	Jet Chisel	33
	JEX-20	060900001	Jet Chisel	33
	JEX-24	060300001	Jet Chisel	33

	Model	Prod. No.	Description	Page
J	JEX-28	060500001	Jet Chisel	33
	JEX-2800A	060500100	Jet Chisel	33
	JT-20	061000001	Jet Chisel	33
L	L-25B	180800001	Air Sonic	44
	L-35C	184100001	Air Sonic	44
	LO-3550 220 - 240 V	018000401	Atra Ace	7
	LS-10	170300001	Line Sander	42
M	MAG-50	074700001	Myton	35
	MAGW-40 Lever	078700003	Myton	35
	MAGW-40 Ring	078700005	Myton	35
	MAH-05	111000001	Micro Air Hand	47
	MAH-16	111100001	Micro Air Hand	47
	MAS-40	072900001	Myton	36
	MAS-70 Japanese	072600000	Myton	36
	MB-03A 110 V	130500100	Mini Beveler	26
	MB-03A 230 V	130500201	Mini Beveler	26
	MLG-25	075605001	Myton	35
	MLG-40	075604001	Myton	35
	MLG-50	075606008	Myton	35
	MLG-70 Lever	075602002	Myton	35
	MLG-70 Ring	075602001	Myton	35
	MLS-20	075607001	Myton	36
O	OSV-60A	074400001	Orbital Sander	43
Q	QA-4000 110 - 120 V	015700101	Atra Ace	13
	QA-4000 220 - 240 V	015700401	Atra Ace	13
	QA-6500 220 - 240 V	015800401	Atra Ace	13
R	RW-0	169000141	Retractor	49
	RW-3	169000151	Retractor	49
	RW-5	169000161	Retractor	49
S	S-1000	090300000	Super Kelen	32
	S-250	090100000	Super Kelen	32
	S-500	090200000	Super Kelen	32
	SC-05 110 - 120 V	151000601	Pump	18
	SC-05 220 - 240 V	151000401	Pump	18
	SH-100A	110500001	Super Hand	46
	SHL-40	111500001	Super Hand Light	45
	SSW-110	110800101	Super Saw	48
T	TW-0	169000021	Spring Balancer	49
	TW-00	169000011	Spring Balancer	49
	TW-06R	169002101	Retractor	49
	TW-1R	169000131	Retractor	49
	TW-3	169000031	Spring Balancer	49
	TW-5	169000041	Spring Balancer	49
	TW-9	169000051	Spring Balancer	49
	TW-15	169000061	Spring Balancer	49
	TW-22	169000071	Spring Balancer	49
	TW-30	169000081	Spring Balancer	49
	TW-40	169000091	Spring Balancer	49
	TW-50	169000101	Spring Balancer	49
	TW-60	169000111	Spring Balancer	49
	TW-70	169000121	Spring Balancer	49
W	WA-3500 110 - 120 V	017400111	Atra Ace	9
	WA-3500 220 - 240 V	017400301	Atra Ace	9
	WA-5000 110 - 120 V	018100102	Atra Ace	9
	WA-5000 220 - 240 V	018100301	Atra Ace	9
	WOJ-3200 220 - 240 V	016600300	Atra Ace	11

POWER TOOLS & MACHINE TOOLS

NITTO KOHKI CO., LTD.

Head Office

9-4, Nakaikagami 2-chome, Ohta-ku, Tokyo 146-8555, Japan

Tel : +81-3-3755-1111 Fax : +81-3-3753-8791 E-mail : overseas@nitto-kohki.co.jp

Web www.nitto-kohki.co.jp/e

Overseas Affiliates / Offices

NITTO KOHKI U.S.A., INC.

46 Chancellor Drive, Roselle, Illinois 60172, U.S.A.

For Machine Tools

Tel : +1-630-924-9393 Fax : +1-630-924-0303

For Cuplas

Tel : +1-630-924-5959 Fax : +1-630-924-1174

www.nittokohki.com

NITTO KOHKI EUROPE CO., LTD.

Unit A5, Langham Park Industrial Estate, Maple Road,

Castle Donington, Derbyshire DE74 2UT, United Kingdom

Tel : +44-1332-653800 Fax : +44-1332-987273

www.nitto-kohki.eu/en

NITTO KOHKI DEUTSCHLAND GMBH

Gottlieb-Daimler-Str. 10, 71144 Steinenbronn, Germany

Tel : +49-7157-989555-0 Fax : +49-7157-989555-40

www.nitto-kohki.eu/de

NITTO KOHKI AUSTRALIA PTY LTD

77 Brandl Street, Eight Mile Plains, Queensland 4113, Australia

Tel : +61-7-3340-4600 Fax : +61-73340-4640

www.nitto-australia.com.au

NITTO KOHKI (SHANGHAI) CO., LTD.

Room1506, Suite C, Orient International Plaza,

No.85 Loushanguan Road, Shanghai 200336, China

Tel : +86-21-6415-3935 Fax : +86-21-6472-6957

www.nitto-kohki.cn

NITTO KOHKI (SHANGHAI) CO., LTD. Shenzhen Branch

2005C Shenzhen ICC Tower, Fuhuasanlu 168,

Futian District, Shenzhen, Guangdong 518048, China

Tel : +86-755-8375-2185 Fax : +86-755-8375-2187

www.nitto-kohki.cn

NITTO KOHKI CO., LTD. Singapore Branch

10 Ubi Crescent #01-62, Ubi Techpark Lobby D, Singapore 408564

Tel : +65-6227-5360 Fax : +65-6227-0192

www.nitto-kohki.co.jp/e/nksb/index.html

NITTO KOHKI CO., LTD. Bangkok Representative Office

M&A Business Center, Q-House Convent Bldg.,

38 Convent Rd., Silom, Bangrak, Bangkok 10500, Thailand

Tel : +66-2632-0307 Fax : +66-2632-0308

www.nittobkk.com

NITTO KOHKI CO., LTD. India Liaison Office

3rd Floor, Building No.9-A DLF Cyber City, Phase-III,

Gurgaon, Haryana 122002, India

Tel : +91-124-454-5031 Fax : +65-6227-0192

NITTO KOHKI CO., LTD. Mexico Representative Office

OF1109 Torre Corporativo 1 Piso 11 Central Park Armando Birlain Shaffler

#2001 Col Centro Sur, Queretaro, Qro, C.P. 76090, Mexico

Tel : +52-442-290-1234



ISO 9001
JQA-2042
Machine Tools Division
ISO 14001
JQA-EM4057
NITTO KOHKI CO., LTD.

DISTRIBUTED BY

