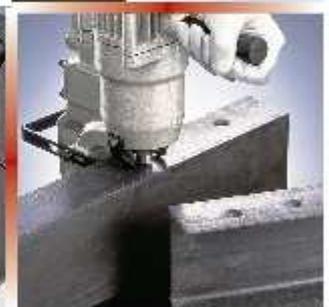
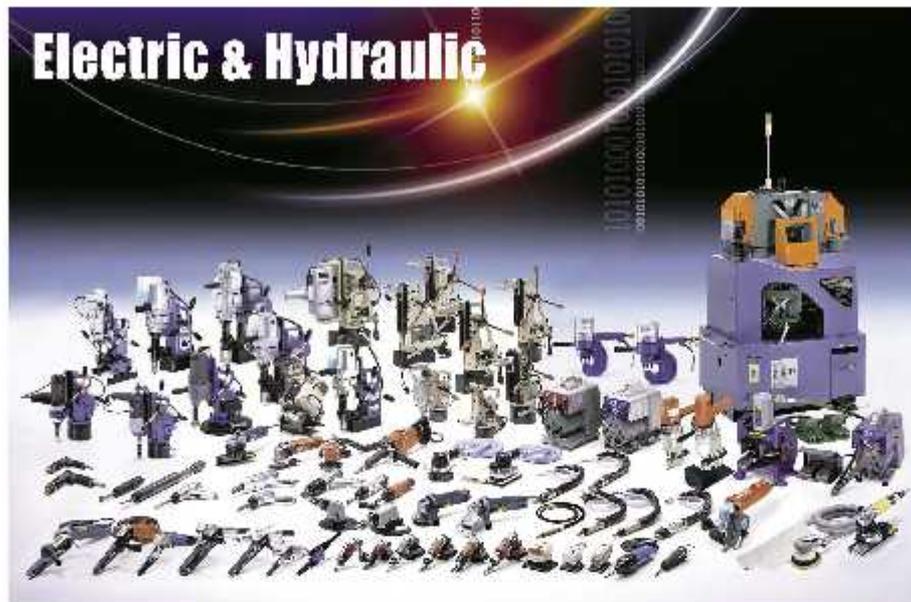




Cat.No. Tk103k

Nitto Kohki's MACHINE TOOLS



SAFETY GUIDE

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

Safety Precautions

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

Warning for ALL Machines and Tools

- Always keep the work area free from clutter and potentially dangerous conditions such as hanging power cords, working debris, air hoses, and garbage to prevent accidents from occurring.
- Consider proper working environments for each tool carefully. Do not expose tools to extreme amounts of moisture or direct contact with water or rain. Keep area well lit at all times to prevent hidden dangers and never operate the equipment near flammable liquids or in gaseous or explosive atmospheres.
- Keep all tools and tool accessories away from children and all unauthorized personnel. Serious injury or possible death may result from machines being handled by children.
- Properly store machines and accessories while not in use. They should be kept in a dry, locked-up location out of reach of children or unauthorized personnel.
- Improper or negligent use of tools will cause increased maintenance costs, and the amount of time in which to complete the job. Always let the tool do the work at the rate of which it was designed. Best performance is always achieved by reading and understanding the proper operation of each machine or tool.
- Always wear safety glasses and protective hand and foot wear during or around operating tools. Wear a protective hair covering to contain long hair. Do not wear loose clothing and/or accessories as they may be caught in moving parts and inflict serious injury or possible death.
- Wear respiratory protection when working in an environment where dust particles are generated during operation.
- Do not over-reach or allow yourself to become unstable during tool operation and always maintain a correct posture.
- Use clamps or a vise to secure the work piece tightly and eliminate vibration. Never hold the work piece with your hands, keep both hands on the tool for increased productivity.
- Use the right tool or machine that can complete the job within its specifications. Do not attempt to adapt smaller machines or tools to complete a job designed for heavy-duty equipment. Do not use the tools for other than what they were designed for. There is a right tool for each job, be aware of tool limitations and never overload.
- Make sure to inspect all external screws, nuts, bolts and attached accessories are fastened tightly and secure prior to each use. All moving parts should be free from obstruction and allowed to operate smoothly. Any damaged or missing parts should be repaired or replaced by the sales agent or distributor from which the tool was originally purchased. Do not use machines or tools which cannot be activated or stopped with a power switch or lever.
- Do not use any machine with a camaged, 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 0.59 MPa (6 kgf/cm²).

	Manufacturing	Steel Fabricating	Welding	Metal Casting & Forging	AUTOMOTIVE & SHIP BUILDING	Construction	Page
PORTABLE MAGNETIC BASE AUTOMATIC DRILLING MACHINE BORING ATRA ACE auto feed (WA-3500 / WA-5000)	Speedy, high precision hole drilling	Speedy, high precision hole drilling	—	—	Drilling holes in steel	Drilling holes in shaped steel	3-4
PORTABLE MAGNETIC BASE DRILLING MACHINE BORING ATRA ACE manual feed (WOJ-3200 / WO-3200)	Speedy, high precision hole drilling	Speedy, high precision hole drilling	—	—	Drilling holes in steel	Drilling holes in shaped steel	5
PORTABLE MAGNETIC BASE DRILLING MACHINE BORING ATRA ACE manual feed (AO-5575)	Speedy, high precision hole drilling	Speedy, high precision hole drilling	—	—	Drilling holes in steel	Drilling holes in shaped steel	6
PORTABLE MAGNETIC BASE DRILLING MACHINE BORING ATRA ACE quick auto	Speedy, high precision hole drilling	Speedy, high precision hole drilling	—	—	Drilling holes in steel	Drilling holes in shaped steel	7
PORTABLE MAGNETIC BASE DRILLING MACHINE BORING ATRA ACE manual feed	Speedy, high precision hole drilling	Speedy, high precision hole drilling	—	—	Drilling holes in steel	Drilling holes in shaped steel	8
PORTABLE MAGNETIC DRILL STAND BORING ATRA MASTER	Precision boring of flanges	Drilling	Initial boring for sheet cutting by welder	Home boring for jig attachment	Various boring	Boring of shaped steel, drilling at elevated area	8
ANNULAR CUTTERS BORING BROACH CUTTERS & BROACH HOLDERS	Drilling of large and small diameter holes in steel	Drilling holes in steel	—	—	Drilling holes	Drilling of large and small diameter holes in steel	9-10
PORTABLE DOUBLE-ACTING HYDRAULIC PUNCHER PUNCHING SELFER ACE HS SERIES & HYDRAULIC PUMP	Hole punching on steel plates	Punching both holes on steel plates	—	—	Punching holes on ship frameworks	On-site punching holes on shaped steels	11
PORTABLE SINGLE-ACTING HYDRAULIC PUNCHER PUNCHING SELFER HA SERIES & HYDRAULIC PUMP	Hole punching on steel plates	Punching both holes on steel plates	—	—	Punching holes on ship frameworks	On-site punching holes on shaped steels	12
ELECTRICALLY OPERATED HYDRAULIC PUNCHER PUNCHING HANDY SELFER AND PUNCHES & DIES FOR SELFER	Speedy, easy hole punching on steel plates	Punching holes on angles and channels	—	—	—	On-site small hole punching	13-14
PORTABLE CHAMFERING TOOLS CHAMFERING BEVELER HAND BEVELER	Chamfering of large workpieces	Chamfering of steel plates	—	—	—	Chamfering of columns	15
PORTABLE CHAMFERING TOOLS CHAMFERING BEVELER MINI BEVELER	Chamfering of large workpieces	Chamfering of steel plates	Surface chamfering of pre-welded shaped steel parts	Chamfering of cast molds	—	—	15-16
PORTABLE CHAMFERING TOOLS CHAMFERING CIRCUIT BEVELER	Chamfering of dies and machine	—	—	Chamfering of steel plate	—	Chamfering of steel plate	15-16
Power Tools, delvo, Spring Balancer, Linear Motor Driven Free Piston System							17
CUPLA Series / Mini Cupla Super							18



ATRA ACE auto
Model **WA-3500**



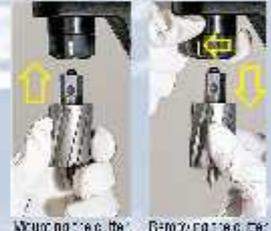
ATRA ACE auto
Model **WA-5000**

Max. plate thickness 75 mm

High-performance mechanism & high-tech components

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.



Fail-Safe Protection

Built-in motion sensor

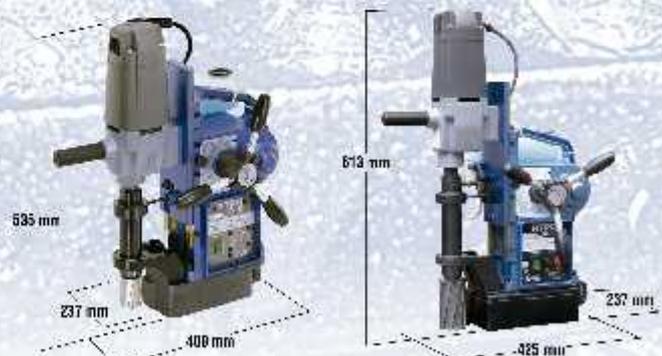
If any lateral movement or excess vibration is detected, both the drill and the feed motor stop instantly. Nitto Kohki is the first company to incorporate this feature into magnetic base drills.

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.



Model **WA-3500**

Model **WA-5000**

New drill control prevents cutters from breaking

Slow start mechanism

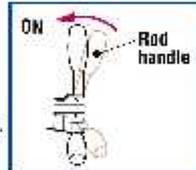
The feed speed is reduced for the first few seconds after boring begins to ensure a smooth cut through the mill scale.

Auto-feed

Automatic control of feed are activated by simply pushing the rod handle to engage the gears.

Load sensor

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



Variable speed

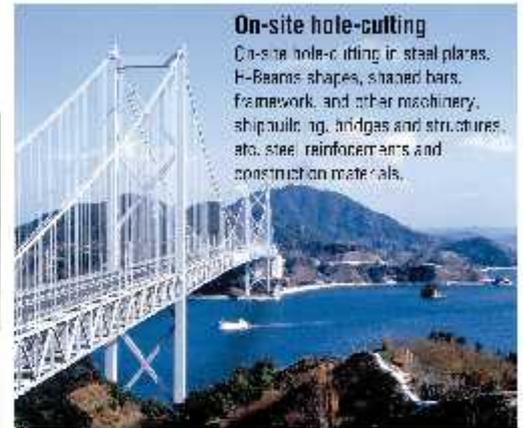
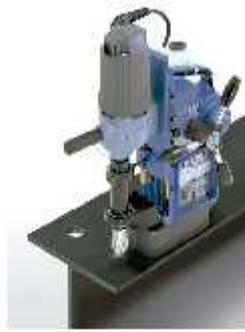
The feed speed is continuously monitored and updated proportionally to the load on the cutter.

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 to prevent the cutter from breaking.



On-site hole-cutting

On-site hole-cutting in steel plates, H-Beams shapes, shaped bars, framework, and other machinery, shipbuilding, bridges and structures, etc. steel reinforcements and construction materials.



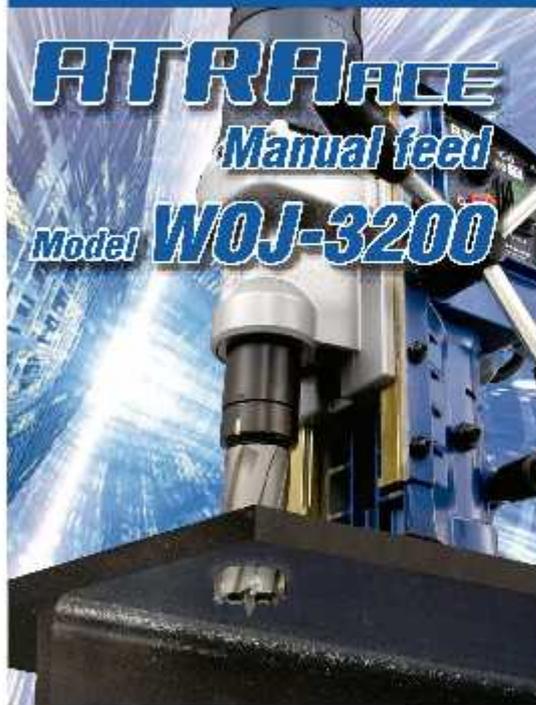
Specifications

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	W		1,100		
	Rated Current	A		10.2	5.1	
	No Load Speed	min ⁻¹ (rpm)		950		
Magnet Power Consumption		W		34		
Hole-cutting Capacity		Cutter	Hole Diameter	Plate Thickness	Hole Diameter	Plate Thickness
One-touch type JETBROACH 25L		—	—	—	12 to 17 mm	9 to 25 mm
One-touch type JETBROACH 35L		—	17.5 to 35 mm	9 to 35 mm	17.5 to 40 mm	9 to 35 mm
One-touch type JETBROACH 50L		—	17.5 to 35 mm	9 to 35 mm	12 to 50 mm	9 to 50 mm
One-touch type JETBROACH 75L		—	—	—	17.5 to 50 mm	9 to 75 mm
One-touch type HI-BROACH 25L		—	14 to 35 mm	9 to 25 mm	14 to 50 mm	9 to 25 mm
One-touch type HI-BROACH 50L		—	—	—	14 to 50 mm	9 to 50 mm
Magnet Holding Power		N (kgf)		7,056 (720)		
Magnet Dimensions		mm		92 x 216		
Mass (Weight)		kg		20		

Standard Accessories	WA-3500	WA-5000
	<ul style="list-style-type: none"> • Pilot Pin 08055 A2 : 1 pc. • Chain Assy : 1 set • Side Handle Assy : 1 set • 3 mm Hex Socket Screw Key : 1 pc. • 6 x 10 mm Spanner : 1 pc. • Cutting Oil 0.5 L : 1 can • Plastic Case : 1 pc. • Guard Assy : 1 set 	<ul style="list-style-type: none"> • Pilot Pin 08050 A3 : 1 pc. • Chain Assy : 1 set • Side Handle Assy : 1 set • 3 mm / 4 mm Hex Socket Screw Key : each 1 pc. • 6 x 10 mm Spanner : 1 pc. • Cutting Oil 0.5 L : 1 can • Plastic Case : 1 pc. • Guard Assy : 1 set

Optional Accessories	WA-3500	WA-5000
	<p>Always use genuine Fuyo Kohki cutters & coolant.</p>	<p>Always use genuine NITTO KOKI cutters & coolant.</p>

Designed to use Jetbroach Carbide Tipped Annular Cutters



Reversible Feed Handles

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

Optional Jet Oiling System

Optional jet oiling system for use with all drilling applications and types of cutters to extend cutter life and increase hole output.



Optional One-Touch Adapter

Optional one-touch adapter allows the use of up to 13 mm twist drills to be used in the application.



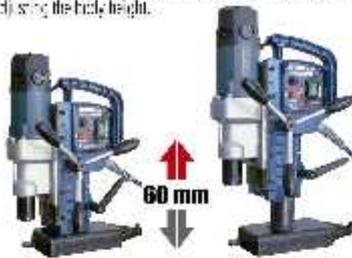
Optional Chip Breaker

Optional chip breaker helps prevent the cutter from plugging the hole with chip debris, causing some slow non-coring pull-in loss.



Body Height Adjustment

Loosening the pillar clamp allows the column frame to be lifted up to a maximum of 60 mm for specific drilling. The use of Hi-Speed cutters requires the frame to be at the lower position while selection of the required and appropriate amount of advance to be adjusted for safe operation. The pillar clamp is required to be tightened before safe drilling may take place. **NOTE:** Always engage the magnet before adjusting the body height.



Specifications

Model	WOJ-3200		
Power Source (Single Phase)	220 - 240 V AC, 50/60 Hz		
Electric Drill	Rated Power Consumption	W	950
	Rated Current	A	4.3
	No Load Speed	min ⁻¹ (rpm)	870
Magnet Power Consumption	W	70	
Hole-cutting Capacity	Cutter	Hole Diameter	Plate Thickness
One-touch type JETBROACH		12 to 32 mm	9 to 50 mm
Magnet Holding Power	kN (kgf)	9 (918)	
Magnet Dimensions	mm	99 x 177	
Mass (Weight)	kg	13	
Standard Accessories	<ul style="list-style-type: none"> • Pilot Pin (Ø30) : 1 pc. • 2 mm Hex Socket Screw Key : 1 pc. • 6 mm Hex Socket Screw Key : 1 pc. • Ø 4 mm Spanner : 1 pc. • Safety Strap : 1 pc. • Guard Ass'y : 1 set 		

Designed to use High Speed Steel Annular Cutters

ATRA ACE Manual feed Model WO-3200

Newly developed Over-Load Shutdown, Magnet Open-Circuit Sensor and Fail-Safe Restart technology formerly only found on high end Nitto Automatics are incorporated on the machine. (Smart-Stop / Rapid-Restart feature is not included.)



Specifications

Model	WO-3200		
Power Source (Single Phase)	220 - 240 V AC, 50/60 Hz		
Electric Drill	Rated Power Consumption	W	950
	Rated Current	A	4.3
	No Load Speed	min ⁻¹ (rpm)	530
Magnet Power Consumption	W	70	
Hole-cutting Capacity	Cutter	Hole Diameter	Plate Thickness
One-touch type HI-BROACH		12 to 32 mm	9 to 50 mm
Magnet Holding Power	kN (kgf)	9 (918)	
Magnet Dimensions	mm	99 x 177	
Mass (Weight)	kg	13	
Standard Accessories	<ul style="list-style-type: none"> • Pilot Pin (Ø30) : 1 pc. • 3 mm Hex Socket Screw Key : 1 pc. • 5 x 10 mm Spanner : 1 pc. • 5 mm Hex Socket Screw Key : 1 pc. • Safety Strap : 1 pc. • Guard Ass'y : 1 set 		

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

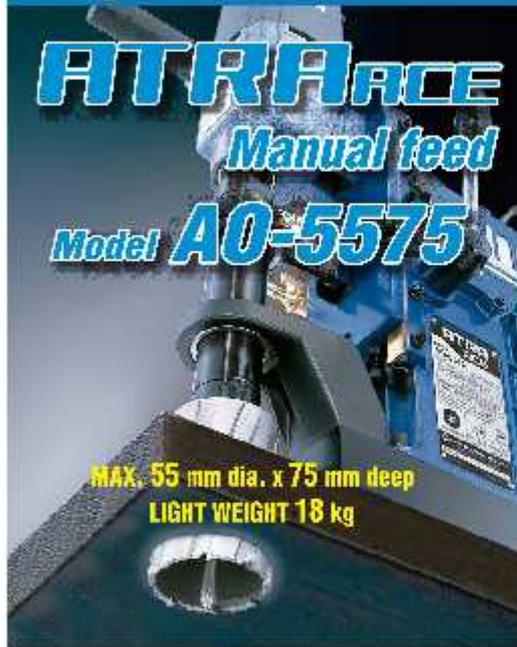


Model WOJ-3200

Model AO-5575

This new feature is a breakthrough in the Manual drill industry. Formerly only found on high end Nitto Core-Load 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 downtime.

Designed to use Jethroach and Hi-broach Annular Cutters



Reversible feed handle



Built-in coolant tank prevents damage

Coolant Valve
Adjustable coolant flow delivered to the center of the hole.



Optional Chip Breaker

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

Speed selection (Change gear)



Specifications

Model		AO-5575	
Power Source (Single Phase)		220 - 240 V AC, 50/60 Hz	
Electric Drill	Rated Power Consumption	W	1,150
	Rated Current	A	5.4
	No Load Speed	min ⁻¹ (rpm)	350 / 650
Magnet Power Consumption		W	50
Hole-cutting Capacity		Cutter	Hole Diameter Plate Thickness
One-touch type JETBROACH			12 to 55 mm 9 to 75 mm
One-touch type HI-BROACH			12 to 50 mm 9 to 50 mm
Magnet Holding Power		kN (kgf)	10 (1,020)
Magnet Dimensions		mm	86 x 170
Mass (Weight)		kg	1.8
Standard Accessories		<ul style="list-style-type: none"> • 1x JETBROACH Hi-Broach Cutter 12 to 50 mm • 1x Hi-Broach Cutter 12 to 50 mm • 1x JETBROACH Hi-Broach Cutter 12 to 55 mm • 1x Hi-Broach Cutter 12 to 55 mm • 1x JETBROACH Hi-Broach Cutter 12 to 55 mm • 1x Hi-Broach Cutter 12 to 55 mm 	
Optional Accessories		<ul style="list-style-type: none"> • JETBROACH Hi-Broach Cutter 12 to 50 mm • Hi-Broach Cutter 12 to 50 mm • JETBROACH Hi-Broach Cutter 12 to 55 mm • Hi-Broach Cutter 12 to 55 mm • JETBROACH Hi-Broach Cutter 12 to 55 mm • Hi-Broach Cutter 12 to 55 mm 	



Model AO-5575

Load detector with "Smart-Stop/Rapid-Restart" technology

As the drilling load increases, the load indicator will change in color from green to orange to red. In addition, if excessive loading 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



Slow Blinking Green

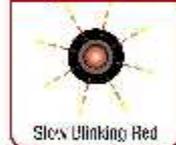


Drill motor starts

Continued overload
Drill motor will not turn on

Safety mode

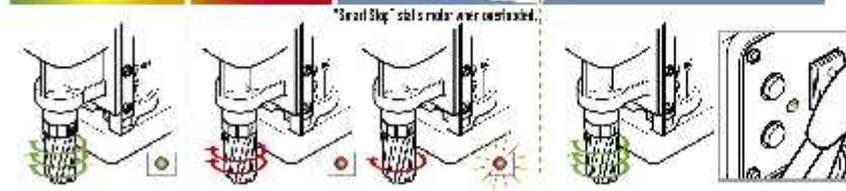
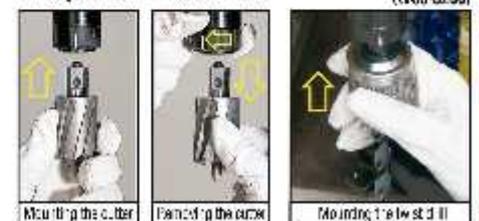
Magnet malfunction



Slow Blinking Red

One-touch cutter replacement

One original self-locking tool-less chuck is quick and easy to change cutters with little downtime.



Designed to use Jetbroach and Hi-broach Annular Cutters

ATRA ACE quick auto



QUICK AUTO Drills increase productivity and reduce hole drilling cost.

Proven Automatic Technology

- Self feeding
- Limit Switch
- Automatic step feed
- Load detection
- Automatic return
- Emergency stop

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.



Automatic Step Feed (QA-6500)

Step feed feature optimizes cutter penetration.

Side Slip Detection Function



This feature automatically stops the drill from operating when sudden lateral force is applied to the machine.

Built-in motion detection sensor



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

When the drill has reached to the top of its stroke, a limit switch stops the drill motor. There is also a limit switch at the bottom of drill stroke.



Specifications

Model		QA-4000		QA-6500		
Power Source (Single Phase)		115 V AC, 50/60 Hz		220 - 240 V AC, 50/60 Hz		
Electric Drill	Rated Power Consumption	W	580	1,010		
	Rated Current	A	6.1	3.0	4.5	
	No Load Speed	min ⁻¹ (rpm)	750	1000 / 750		
Magnet Power Consumption		W	60	75		
Hole-cutting Capacity		Cutter	Hole Diameter	Plate Thickness	Hole Diameter	Plate Thickness
One-touch type JETBROACH 35L			17.5 to 40 mm	9 to 35 mm	17.5 to 40 mm	9 to 35 mm
One-touch type JETBROACH 50L			—	—	17.5 to 65 mm	9 to 50 mm
One-touch type HI-BROACH 25L			14 to 15 mm	9 to 12 mm	18 to 35 mm	9 to 25 mm
			16 to 18 mm	9 to 25 mm	—	—
Magnet Holding Power		N (kgf)	6,664 (680)	9,800 (1,000)		
Magnet Dimensions		mm	82 x 172	100 x 200		
Mass (Weight)		kg	18.5	26		
Standard Accessories			<ul style="list-style-type: none"> • Flute Pilot Bit 35L 1 pc. → Chair 1 pc. • 8 mm Hss Scaled Flute Key 1 pc. • 4 mm Hss Scaled Flute Key 1 pc. • 8 x 10 mm Spreader 1 pc. • Cutter Oil 250 ml → Tool box 1 pc. • RMT-4 model 1 pc. → Oil Tank 1 pc. → 1 set 		<ul style="list-style-type: none"> • Flute Pilot Bit 65L 1 pc. → Chair 1 pc. • 7 mm Hss Scaled Flute Key 1 pc. • 4 mm Hss Scaled Flute Key 1 pc. • 8 x 10 mm Spreader 1 pc. • Cutting Oil 500 ml → Tool box 1 pc. • Side Support 1 pc. → RMT-4 model 1 pc. • Oil Tank 1 pc. → 1 set 	

One-touch Cutter Replacement

One Touch arbor system requires no tools for cutter installation and removal.

Improved Feature Bearing Bracket

Precision bearing bracket aligns cutters precisely, which increases cutter life.

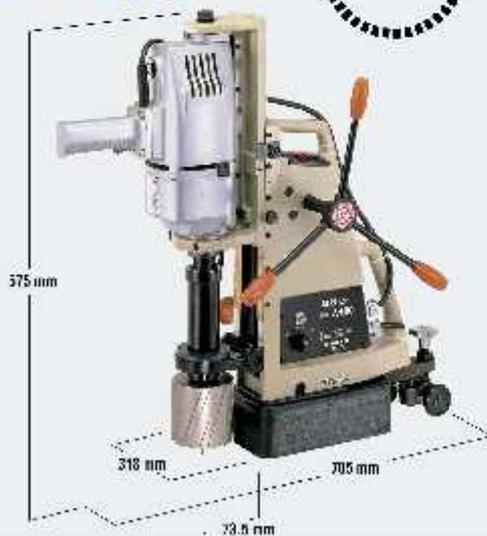


Chip Breaker

Chip breaker prevents swarf and chip nesting.



Designed to use Jethroach Carbide Tipped Annular Cutters

**ATRA ACE**
manual feedModel **A-100**

Side-lock Type Cutter

Max. Hole-cutting Capacity : 100 mm dia.
Max. Plate Thickness : 75 mm**The largest capacity drilling machine
in the Nitto Kohki line.**

Specifications

Model		A-100	
Power Source (Single Phase)		220 - 240 V AC, 50/60 Hz	
Electric Drill	Rated Power Consumption	W	1,600
	Rated Current	A	7.4
	No Load Speed	min ⁻¹ (rpm)	330
Magnet Power Consumption		W	80
Hole-cutting Capacity		Cutter	Hole Diameter
Side-Lock type JETBROACH 75L			50 to 100 mm
			Plate Thickness
			13 to 75 mm
Magnet Holding Power		N (kgf)	17,640 (1,800)
Magnet Dimensions		mm	130 x 256
Mass (Weight)		kg	50
Standard Accessories		<ul style="list-style-type: none"> * Pin (120°) : 1 pc. * Oil : 1 pc. * 2 mm / 25 mm / 7 mm / 8 mm / 10 mm / 16 mm / 20 mm Hex Socket Screw Key : 4211 20 * 7.6 mm Spanner : 1 pc. * Spring (L: 25 L; T: 1 mm) : 60 pieces / 1 pc. * Oil Cap Assy : 1 set. * Pad (side) : 3 pcs. 	

The magnet bases of ATRA MASTER hold the drills perpendicular to steel plates even on non horizontal places.**ATRA MASTER**
Model **M-100**Drilling Capacity : 10 mm
Power Source (Single Phase) :
220 - 240 V AC, 50/60 Hz
Mass (weight) : 6.2 kg**ATRA MASTER**
Model **M-130A**Drilling Capacity : 13 mm
Power Source (Single Phase) :
220 - 240 V AC, 50/60 Hz
Mass (weight) : 16 kg**ATRA MASTER**
Model **M-250B**Drilling Capacity : 25 mm
Power Source (Single Phase) :
220 - 240 V AC, 50/60 Hz
Mass (weight) : 25.5 kg**ATRA MASTER**
Model **M-320**Drilling Capacity : 32 mm
Power Source (Single Phase) :
220 - 240 V AC, 50/60 Hz
Mass (weight) : 29 kg**N.B. : The electric drill and drill mount fixture do not come with ATRA MASTERS.**

JETBROACH CUTTERS & HI-BROACH CUTTERS

BROACH CUTTERS are far better than twist drills:

- No dead point
- Peripheral cutting
- Blade cutting resistance reduced by 50 %
- 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.



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.

Morse Taper No.	Model	Cutter	Cutter Diameter	Pilot Pin	Accessory
M.T.No.2	 BHM-02035 TBC0390	H20-25L	12-17 dia.	08025 (PN TK01187)	Optional
			17.5-35 dia.	08025 (PN T1-2650)	
M.T.No.3	 BHM-03050 TBC0392	H20-25L	12-17 dia.	08025 (PN TK01187)	Optional
			17.5-52 dia.	08025 (PN T12888)	
		HR0-50L	12-17 dia.	08050 (PN TK01187)	Optional
			18-52 dia.	0850 (PN TK03932; 08350 (PN T1-6051)	
M.T.No.4	 BHM-14075 TBC0354	JBS-75L	17.5-40 dia.	08035 (PN T15359)	Standard
			17.5-65 dia.	08050 (PN T15359)	
			18-35 dia.	08050 (PN T18019)	

HI-BROACH One-touch Type			W/O-3200	AO-5575	WA-3500	WA-5000	QA-4000	QA-5500	HI-BROACH One-touch Type			W/O-3200	AO-5575	WA-5000
mm dia.	Depth	PN							mm dia.	Depth	PN			
12	25 mm	TK0098	•	•					12		TK0072	•	•	
13		TK0099	•	•					13		TK0073	•	•	
14		TK0100	•	•					14		TK0074	•	•	
15		TK0101	•	•	•	•			15		TK0075	•	•	•
16		TK0102	•	•	•	•			16		TK0076	•	•	•
17		TK0103	•	•	•	•			17		TK0077	•	•	•
17.5		TK0104	•	•	•	•			18		TK0078	•	•	•
18		TK0105	•	•	•	•			19		TK0079	•	•	•
19		TK0106	•	•	•	•			20		TK0080	•	•	•
20		TK0107	•	•	•	•			21		TK0081	•	•	•
21		TK0108	•	•	•	•			22		TK0082	•	•	•
21.5		TK0109	•	•	•	•			23		TK0083	•	•	•
22	TK0110	•	•	•	•			24		TK0084	•	•	•	
22.5	TK0111	•	•	•	•			25		TK0085	•	•	•	
23	TK0112	•	•	•	•			26		TK0086	•	•	•	
23.5	TK0113	•	•	•	•			27		TK0087	•	•	•	
24	TK0114	•	•	•	•			28		TK0088	•	•	•	
24.5	TK0115	•	•	•	•			29		TK0089	•	•	•	
25	TK0116	•	•	•	•			30		TK0090	•	•	•	
26	TK0117	•	•	•	•			31	50 mm	TK0091	•	•	•	
27	TK0118	•	•	•	•			32		TK0092	•	•	•	
28	TK0119	•	•	•	•			33		TK0093	•	•	•	
29	TK0120	•	•	•	•			34		TK0094	•	•	•	
30	TK0121	•	•	•	•			35		TK0095	•	•	•	
31	TK0122	•	•	•	•			36		TK0096	•	•	•	
32	TK0123	•	•	•	•			37		TK0097	•	•	•	
33	TK0124	•	•	•	•			38		TK0098	•	•	•	
34	TK0125	•	•	•	•			39		TK0099	•	•	•	
35	TK0126	•	•	•	•			40		TK0100	•	•	•	
36	TK0127	•	•	•	•			41		TK0101	•	•	•	
37	TK0128	•	•	•	•			42		TK0102	•	•	•	
38	TK0129	•	•	•	•			43		TK0103	•	•	•	
39	TK0130	•	•	•	•			44		TK0104	•	•	•	
40	TK0131	•	•	•	•			45		TK0105	•	•	•	
41	TK0132	•	•	•	•			46		TK0106	•	•	•	
42	TK0133	•	•	•	•			47		TK0107	•	•	•	
43	TK0134	•	•	•	•			48		TK0108	•	•	•	
44	TK0135	•	•	•	•			49		TK0109	•	•	•	
45	TK0136	•	•	•	•			50		TK0110	•	•	•	
46	TK0137	•	•	•	•			51		TK0111	•	•	•	
47	TK0138	•	•	•	•			52		TK0112	•	•	•	
48	TK0139	•	•	•	•									
49	TK0140	•	•	•	•									
50	TK0141	•	•	•	•									
51	TK0142	•	•	•	•									
52	TK0143	•	•	•	•									

	HI-BROACH	HI-BROACH	JETBROACH	JETBROACH	JETBROACH	JETBROACH	
	One-touch Type / 25L	One-touch Type / 50L	One-touch Type / 25,35,50L	One-touch Type / 50L(W)	One-touch Type / 75L	Side lock Type / 75L	
Hole-cutting Capacity	 65 mm (max. length) 58 mm (max. dia.) 25L : 12 - 52 dia.	 85 mm 50L : 12 - 52 dia.	 55 mm (max. length) 50 mm (max. dia.) 25L : 12 - 17 dia.	 For stacked two plates 90 mm 35L : 17.5 - 40 dia.	 117 mm 50L(W) : 12 - 65 dia.	 156 mm 75L : 17.5 - 55 dia.	 156 mm 75L : 50 - 100 dia.
	Plate Thickness mm	25L : 25	50L : 50	25L : 25 35L : 35 50L : 30	50L(W) : 50	75L : 75	75L : 75
Feed Speed	mm/rev		0.02 - 0.1				
Circumferential Speed	m/min		15 - 35 (mild steel)				
			35 - 50 (mild steel)				

JETBROACH One-touch Type			W0J-3200	AD-5575	WA-3500	WA-5000	DA-4000	DA-5500
mm dia.	Depth	PN						
12	25 mm	TK0142	•	•	•	•		
13		TK0145	•	•	•	•		
14		TK0146	•	•	•	•		
15		TK0147	•	•	•	•		
16		TK0148	•	•	•	•		
17		TK0149	•	•	•	•		
17.5	35 mm	TK0090	•	•	•	•	•	•
18		TK0092	•	•	•	•	•	•
19		TK0094	•	•	•	•	•	•
19.5		TK0095	•	•	•	•	•	•
20		TK0096	•	•	•	•	•	•
20.5		TK0097	•	•	•	•	•	•
21		TK0098	•	•	•	•	•	•
21.5		TK0099	•	•	•	•	•	•
22		TK0090	•	•	•	•	•	•
22.5		TK0091	•	•	•	•	•	•
23		TK0092	•	•	•	•	•	•
23.5		TK0093	•	•	•	•	•	•
24	TK0094	•	•	•	•	•	•	
24.5	TK0095	•	•	•	•	•	•	
25	TK0096	•	•	•	•	•	•	
26	TK0097	•	•	•	•	•	•	
26.5	TK0098	•	•	•	•	•	•	
27	TK0099	•	•	•	•	•	•	
28	TK0090	•	•	•	•	•	•	
29	TK0091	•	•	•	•	•	•	
30	TK0092	•	•	•	•	•	•	
31	TK0093	•	•	•	•	•	•	
32	TK0094	•	•	•	•	•	•	
33	TK0095	•	•	•	•	•	•	
34	TK0096	•	•	•	•	•	•	
35	TK0097	•	•	•	•	•	•	
36	TK0098	•	•	•	•	•	•	
37	TK0099	•	•	•	•	•	•	
38	TK0090	•	•	•	•	•	•	
39	TK0091	•	•	•	•	•	•	
40	TK0092	•	•	•	•	•	•	

JETBROACH One-touch Type			W0J-3200	AD-5575	WA-3500	WA-5000	DA-4000	DA-5500
mm dia.	Depth	PN						
12	50 mm	TK0115	•	•	•	•		
13		TK0116	•	•	•	•		
14		TK0115	•	•	•	•		
15		TK0116	•	•	•	•		
16		TK0117	•	•	•	•		
17		TK0118	•	•	•	•		
17.5		TK0330	•	•	•	•	•	•
18		TK0331	•	•	•	•	•	•
19		TK0332	•	•	•	•	•	•
19.5		TK0333	•	•	•	•	•	•
20		TK0334	•	•	•	•	•	•
20.5		TK0335	•	•	•	•	•	•
21	TK0336	•	•	•	•	•	•	
21.5	TK0337	•	•	•	•	•	•	
22	TK0338	•	•	•	•	•	•	
22.5	TK0339	•	•	•	•	•	•	
23	TK0390	•	•	•	•	•	•	
23.5	TK0391	•	•	•	•	•	•	
24	TK0392	•	•	•	•	•	•	
24.5	TK0393	•	•	•	•	•	•	
25	TK0394	•	•	•	•	•	•	
26	TK0395	•	•	•	•	•	•	
26.5	TK0396	•	•	•	•	•	•	
27	TK0397	•	•	•	•	•	•	
28	TK0398	•	•	•	•	•	•	
29	TK0399	•	•	•	•	•	•	
30	TK0090	•	•	•	•	•	•	
31	TK0091	•	•	•	•	•	•	
32	TK0092	•	•	•	•	•	•	
33	TK0093	•	•	•	•	•	•	
34	TK0094	•	•	•	•	•	•	
35	TK0095	•	•	•	•	•	•	
36	TK0096	•	•	•	•	•	•	
37	TK0097	•	•	•	•	•	•	
38	TK0098	•	•	•	•	•	•	
39	TK0099	•	•	•	•	•	•	
40	TK0090	•	•	•	•	•	•	
41	TK0091	•	•	•	•	•	•	
42	TK0092	•	•	•	•	•	•	
43	TK0093	•	•	•	•	•	•	
44	TK0094	•	•	•	•	•	•	
45	TK0095	•	•	•	•	•	•	
46	TK0096	•	•	•	•	•	•	
47	TK0097	•	•	•	•	•	•	
48	TK0098	•	•	•	•	•	•	
49	TK0099	•	•	•	•	•	•	
50	TK0090	•	•	•	•	•	•	
51	TK0091	•	•	•	•	•	•	
52	TK0092	•	•	•	•	•	•	
53	TK0093	•	•	•	•	•	•	
54	TK0094	•	•	•	•	•	•	
55	TK0095	•	•	•	•	•	•	

JETBROACH One-touch Type			AD-5575	WA-5000
mm dia.	Depth	PN		
17.5	75 mm	TKC036	•	•
18		TKC037	•	•
19		TKC038	•	•
20		TKC039	•	•
21		TKC040	•	•
22		TKC041	•	•
23		TKC042	•	•
24		TKC043	•	•
25		TKC044	•	•
26		TKC045	•	•
27		TKC046	•	•
28		TKC047	•	•
29	TKC048	•	•	
30	TKC049	•	•	
31	TKC050	•	•	
32	TKC051	•	•	
33	TKC052	•	•	
34	TKC053	•	•	
35	TKC054	•	•	
36	TKC055	•	•	
37	TKC056	•	•	
38	TKC057	•	•	
39	TKC058	•	•	
40	TKC059	•	•	
41	TKC060	•	•	
42	TKC061	•	•	
43	TKC062	•	•	
44	TKC063	•	•	
45	TKC064	•	•	
46	TKC065	•	•	
47	TKC066	•	•	
48	TKC067	•	•	
49	TKC068	•	•	
50	TKC069	•	•	
51	TKC070	•	•	
52	TKC071	•	•	
53	TKC072	•	•	
54	TKC073	•	•	
55	TKC074	•	•	

JETBROACH Side-lock Type			A-100
mm dia.	Depth	PN	
50	75 mm	J16609	•
51		J16610	•
52		J16611	•
53		J16612	•
54		J16613	•
55		J16614	•
56		J16615	•
57		J16616	•
58		J16617	•
59		J16618	•
60		J16619	•
61		J16620	•
62	J16621	•	
63	J16622	•	
64	J16623	•	
65	J16624	•	
66	J16625	•	
67	J16626	•	
68	J16627	•	
69	J16628	•	
70	J16629	•	
71	J16630	•	
72	J16631	•	
73	J16632	•	
74	J16633	•	
75	J16634	•	
76	J16635	•	
77	J16636	•	
78	J16637	•	
79	J16638	•	
80	J16639	•	
81	J16640	•	
82	J16641	•	
83	J16642	•	
84	J16643	•	
85	J16644	•	
86	J16645	•	
87	J16646	•	
88	J16647	•	
89	J16648	•	
90	J16649	•	
91	J16650	•	
92	J16651	•	
93	J16652	•	
94	J16653	•	
95	J16654	•	
96	J16655	•	
97	J16656	•	
98	J16657	•	
99	J16658	•	
100	J16659	•	

JETBROACH One-touch Type			W0J-3200	AD-5575
mm dia.	Depth	PN		
18	50 mm	TK0068	•	•
22		TK0069	•	•
24		TK0070	•	•
24.5		TK0071	•	•
25		TK0072	•	•
26		TK0073	•	•
26.5		TK0074	•	•
28		TK0075	•	•
28		TK0076	•	•
32		TK0077	•	•
35		TK0078	•	•

Combination of Pilot Pins & Broach Cutters

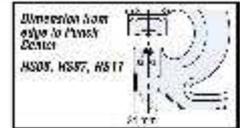
Pilot Pin	HI-BROACH Cutters
06025 PN: T-001167 6.35 dia. 81 mm	HBO 12 - 17 dia. Depth 50 mm
08025 PN: T-10299 8 dia. 76 mm	HBO 17.5 - 52 dia. Depth 25 mm
06050 PN: T-001168 6.35 dia. 112 mm	HBO 12 - 17 dia. Depth 50 mm
0850 PN: H003802 8 dia. 100 mm	HBO 18 - 52 dia. Depth 50 mm
08050 PN: T-10013 8 dia. 112 mm	

Pilot Pin	JETBROACH Cutters
06025 PN: TK01167 6.35 dia. 81 mm	JBO 12 - 17 dia. Depth 50 mm
08035 PN: T-10299 8 dia. 76 mm	JBO 17.5 - 40 dia. Depth 25 mm
06050 PN: TK01168 6.35 dia. 112 mm	JBO 12 - 17 dia. Depth 50 mm



Pilot Pin	JETBROACH Cutters
06050 PN: T-10013 6 dia. 112 mm	JBO 17.5 - 65 dia. Depth 50 mm
08075 PN: T-117456 8 dia. 135 mm	JBO(W) 18 - 35 dia. Depth 25 mm (for dia. 18-35) JBO 17.5 - 55 dia. Depth 75 mm
12075 PN: T-09A007 6 dia. 152 mm	JBS 50 - 100 dia. Depth 75 mm

**New design adopted for punching stainless steel.
Inching function (manual operation) is available.**



SELFER ACE
Model **HS06-1322**

Max. Punching Thickness : 13 mm
Max. Punching Diameter : 22 mm
Max. Throat Depth : 60 mm

SELFER ACE
Model **HS07-1624**

Max. Punching Thickness : 16 mm
Max. Punching Diameter : 24 mm
Max. Throat Depth : 70 mm

SELFER ACE
Model **HS11-1624**

Max. Punching Thickness : 16 mm
Max. Punching Diameter : 24 mm
Max. Throat Depth : 110 mm

Specifications

In case of mild steel, maximum punching thickness must be decided based on the equation of 0.8 x punching diameter. For details see the instruction manual.

Model	HS06-1322		HS07-1624		HS11-1624	
Max. Throat Depth	mm 60		70		110	
Punching Capacity	for Mild Steel	for Stainless Steel	for Mild Steel	for Stainless Steel	for Mild Steel	for Stainless Steel
Max. Punching Thickness	mm 13	6	16	6	16	6
Max. Punching Diameter	mm 22	22	24	24	24	24
Hole Making Time	Punching Time 7.9 sec. Returning Time 3.4 sec.		Punching Time 11.8 sec. Returning Time 5.7 sec.		Punching Time 11.8 sec. Returning Time 5.7 sec.	
Allowable Max. Pressure	MPa (kg/cm ²) 68.65 (700)		68.65 (700)		68.65 (700)	
Max. Output	kN (tf) 367 (37)		464 (47)		464 (47)	
Ram Stroke	mm 21		26		26	
Mass (Weight)	kg 20.5		25.5		30	
Standard Accessories	<ul style="list-style-type: none"> 1 Use Kit Assy: 1 set 1 Use Cord Assy: 1 set 1 4 mm x 10 mm Hex. Socket Screw Assy: Load 1 pc 1 Spanner: 11 pc 1 Spanner: 12: 1 pc 1 8.0 L and Assy: 1 set 1 6.0 L and Assy: 1 set 1 Foot Switch: 1 pc 1 Punch Die 22 mm: 2 pcs (on machine) 		<ul style="list-style-type: none"> 1 Use Kit Assy: 1 set 1 Use Cord Assy: 1 set 1 4 mm x 15 mm Hex. Socket Screw Assy: Load 1 pc 1 Spanner: 11 pc 1 Spanner: 12: 1 pc 1 8.0 L and Assy: 1 set 1 6.0 L and Assy: 1 set 1 Foot Switch: 1 pc 1 Foot Box: 1 pc 1 Chip Guard Assy: 1 set 1 Punch Die 24 mm: 2 pcs (on machine) 		<ul style="list-style-type: none"> 1 Use Kit Assy: 1 set 1 Use Cord Assy: 1 set 1 4 mm x 20 mm Hex. Socket Screw Assy: Load 1 pc 1 Spanner: 11 pc 1 Spanner: 12: 1 pc 1 8.0 L and Assy: 1 set 1 6.0 L and Assy: 1 set 1 Foot Switch: 1 pc 1 Foot Box: 1 pc 1 Chip Guard Assy: 1 set 1 Punch Die 24 mm: 2 pcs (on machine) 	
Optional Parts	Part Name	Unit	Model	Part Name	Unit	Model
	PH T802506	Use Kit Assy 5 m	1 set	PH T802545	Switch Cord Assy 10 m	1 set
	TP05184	Ultra high pressure hose 5 m	1 pc	T802141	Foot Switch Assy	1 set
	T802380	Switch Cord Assy 5 m	1 set	T802728	Oil Can Assy	1 set
	TP05777	Ultra high pressure hose 10 m	1 pc	T802142	Hook Dia 40 Assy	1 set

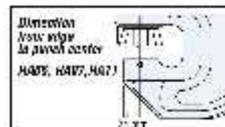
HYDRAULIC PUMP for SELFER ACE
Model **HPD-05**

Double-Acting

Specifications

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

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



SELFER
 Model **HA06-1322**

324.1 mm | 381 mm

- Max. Punching Thickness : 13 mm
- Max. Punching Diameter : 22 mm
- Max. Throat Depth : 60 mm

SELFER
 Model **HA07-1624**

645.8 mm | 418 mm

- Max. Punching Thickness : 16 mm
- Max. Punching Diameter : 24 mm
- Max. Throat Depth : 70 mm

SELFER
 Model **HA11-1624**

646.6 mm | 436 mm

- Max. Punching Thickness : 16 mm
- Max. Punching Diameter : 24 mm
- Max. Throat Depth : 110 mm

Specifications

In case of mild steel maximum punching thickness must be decided based on the equation of 0.8 x punching diameter. For details see the instruction manual.

Model		HA06-1322	HA07-1624	HA11-1624																										
Max. Throat Depth	mm	60	70	110																										
Punching Capacity		for Mild Steel	for Mild Steel	for Mild Steel																										
Max. Punching Thickness	mm	13	16	16																										
Max. Punching Diameter	mm	22	24	24																										
Hole Making Time		10.5 sec.	16.5 sec.	16.5 sec.																										
Allowable Max. Pressure	MPa (kgf/cm ²)	68.65 (700)	68.65 (700)	68.65 (700)																										
Max. Output	kN (tf)	304 (31)	431 (44)	431 (44)																										
Ram Stroke	mm	21	25	25																										
Mass (Weight)	kg	21.5	28.5	35.5																										
Standard Accessories		<ul style="list-style-type: none"> *Sub Tank Assy: 1 set *Hose Cord Assy: 1 set *4 mm I.D. Lock Switch Solenoid Key: 1 set *Spencer: 1 pc. *Foot Lock: 1 pc. *C-Punch: Dia 22 mounted on machine 	<ul style="list-style-type: none"> *Sub Tank Assy: 1 set *Hose Cord Assy: 1 set *4 mm I.D. Lock Switch Solenoid Key: 1 pc. *Spencer: 1 pc. *Foot Lock: 1 pc. *J-Punch: Dia 24 mounted on machine 	<ul style="list-style-type: none"> *Sub Tank Assy: 1 set *Hose Cord Assy: 1 set *4 mm I.D. Lock Switch Solenoid Key: 1 set *Spencer: 1 pc. *Foot Lock: 1 pc. *C-Punch: Dia 22 mounted on machine 																										
Optional Parts		<table border="1"> <thead> <tr> <th>Part Name</th> <th>Unit</th> <th>Model</th> </tr> </thead> <tbody> <tr> <td>TA95534 Hose Kit Assy 5 m</td> <td>1 set</td> <td rowspan="5">HA series</td> </tr> <tr> <td>TP05184 Ultra-High pressure hose 5 m</td> <td>1 pc.</td> </tr> <tr> <td>TA98778 Switch Cord Assy 5 m</td> <td>1 set</td> </tr> <tr> <td>TAB8044 Hose Kit Assy 10 m</td> <td>1 set</td> </tr> <tr> <td>TP05777 Ultra-High pressure hose 10 m</td> <td>1 pc.</td> </tr> </tbody> </table>	Part Name	Unit	Model	TA95534 Hose Kit Assy 5 m	1 set	HA series	TP05184 Ultra-High pressure hose 5 m	1 pc.	TA98778 Switch Cord Assy 5 m	1 set	TAB8044 Hose Kit Assy 10 m	1 set	TP05777 Ultra-High pressure hose 10 m	1 pc.	<table border="1"> <thead> <tr> <th>Part Name</th> <th>Unit</th> <th>Model</th> </tr> </thead> <tbody> <tr> <td>TA95307 Switch Cord Assy 10 m</td> <td>1 set</td> <td rowspan="3">HA series</td> </tr> <tr> <td>TA94386 Foot Switch Assy</td> <td>1 set</td> </tr> <tr> <td>TA92729 Oil Gun Assy</td> <td>1 set</td> </tr> <tr> <td>TA95342 Hook Clamp Assy</td> <td>1 set</td> <td>HA07-1624 HA11-1624</td> </tr> </tbody> </table>	Part Name	Unit	Model	TA95307 Switch Cord Assy 10 m	1 set	HA series	TA94386 Foot Switch Assy	1 set	TA92729 Oil Gun Assy	1 set	TA95342 Hook Clamp Assy	1 set	HA07-1624 HA11-1624
Part Name	Unit	Model																												
TA95534 Hose Kit Assy 5 m	1 set	HA series																												
TP05184 Ultra-High pressure hose 5 m	1 pc.																													
TA98778 Switch Cord Assy 5 m	1 set																													
TAB8044 Hose Kit Assy 10 m	1 set																													
TP05777 Ultra-High pressure hose 10 m	1 pc.																													
Part Name	Unit	Model																												
TA95307 Switch Cord Assy 10 m	1 set	HA series																												
TA94386 Foot Switch Assy	1 set																													
TA92729 Oil Gun Assy	1 set																													
TA95342 Hook Clamp Assy	1 set	HA07-1624 HA11-1624																												

HYDRAULIC PUMP for HA Type
 Model **SC-05**

Single-Acting

324 mm | 380 mm

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	

Built-in hydraulic pump shows its power in making round or elongated holes in flat bar, angle bar or channel iron

HANDY SELFER
Model **E25-0615**  Double insulation



340.5 mm
357 mm

E Punch
E Die

Max. Punching Thickness : 6mm
Max. Punching Diameter : 15 mm
Max. Throat Depth : 25 mm

HANDY SELFER
Model **E55-0619**



420 mm
368 mm

EL Punch
EL Die

Max. Punching Thickness : 6mm
Max. Punching Diameter : 19 mm
Max. Throat Depth : 55 mm

Specifications

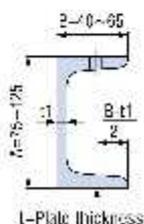
Model	E25-0615		E55-0619							
Power Source (Single Phase)	220 240 V AC, 50/60 Hz		115 V AC, 50/60 Hz	220 240 V AC, 50/60 Hz						
Motor	Rated Power Consumption	W	300	670						
	Rated Current	A	1.6	6.0						
Max. Punching Diameter	mm	15	19							
Max. Punching Thickness	mm	6	6							
Max. Throat Depth	mm	25	55							
Punching Time	sec (single pass)	4	2							
Power Cord	m	2.4	2.4							
Mass (Weight)	kg	7.0	14							
Standard Accessories	<ul style="list-style-type: none"> • F Punch 15 : 1 pc. • F Die 15A : 1 pc. • F Die 15B : 1 pc. • Spanner 6 : 1 pc. • 10 x 12 mm Spanner : 1 pc. • 2.5 mm Hex. Socket Screw Key : 1 pc. • 4 mm Hex. Socket Screw Key : 1 pc. • Auxiliary Oil : 1 pc. 		<ul style="list-style-type: none"> • FL Punch 19 : 1 pc. • EL Die 18A : 1 pc. • FL Die 18R : 1 pc. • Spanner 10 x 12 mm : 1 pc. • 3 mm Hex. Socket Screw Key : 1 pc. • 4 mm Hex. Socket Screw Key : 1 pc. • 5 mm Hex. Socket Screw Key : 1 pc. • Stand Assy : 1 set • Auxiliary Oil : 1 pc. 							
Optional Accessory			<table border="1"> <tr> <th>PN</th> <th>Part Name</th> <th>Sales Unit</th> </tr> <tr> <td>T000503</td> <td>Stand Assy</td> <td>1 set</td> </tr> </table>	PN	Part Name	Sales Unit	T000503	Stand Assy	1 set	
PN	Part Name	Sales Unit								
T000503	Stand Assy	1 set								

Selection of Dies

Application	Type of Die	Plate Thickness (mm)		Model
		Mild Steel	Stainless Steel	
For thin sheets	A	2 ~ 3.2	Max. 3	E25-0615
For thick sheets	B	4 ~ 8	Max. 4	
For thin sheets	A	2 ~ 3.2	Max. 3	E55-0619
For thick sheets	B	4 ~ 8	Max. 4	
For channel iron	C	7 ~ 8	—	

Punching Capacity in channel iron (E55-0619)

Punching Dia. Size	10 00	11 00	12 00	13 00	14 00	15 00	16 00
75 x 40 t7	○	○	○	○	○	○	○
100 x 50 t7.5	○	○	○	○	○	○	—
125 x 65 t8	○	○	○	○	○	○	—



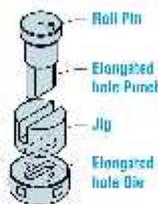
Punches & Dies for SELFER Puncher

Sales Unit : 1 Piece

FOR HS06-1624/HS07-1624/NS11-1624/HA06-1624/HA07-1624/HA11-1624

Elongated hole D Punch		Elongated hole D Die		Elongated hole Jlg	
PN	Size	PN	Size	PN	Size
TJ13220	D Punch 16 x 8	TJ13230	D Die 16 x 8	TK00455	Jlg 16 x 8
TJ13220	D Punch 12 x 9	TJ13233	D Die 12 x 9	TK00456	Jlg 12 x 9
TJ13231	D Punch 20 x 10	TJ13241	D Die 20 x 10	TK00457	Jlg 20 x 10
TJ13232	D Punch 22 x 11	TJ13241	D Die 22 x 11	TK00458	Jlg 22 x 11
TJ13233	D Punch 24 x 12	TJ13242	D Die 24 x 12	TK00459	Jlg 24 x 12
TJ13234	D Punch 25 x 9	TJ13243	D Die 25 x 9	TK00460	Jlg 25 x 9
TJ13235	D Punch 25 x 12	TJ13244	D Die 25 x 12	TK00461	Jlg 25 x 12
TJ13236	D Punch 25 x 14	TJ13245	D Die 25 x 14	TK00462	Jlg 25 x 14
TJ13237	D Punch 25 x 18	TJ13248	D Die 25 x 18	TK00463	Jlg 25 x 18

*T49007 Lock Nut Assy is required for Elongated hole D Punch 25 x 12/14



Optional

PN	Part Name
TQD1779	Hex. Bolts 3 x 14 for Elongated hole Die
T49007	Lock Nut Assy for D Punch 25

FOR HS06-1624/HS07-1624/NS11-1624/HA06-1624/HA07-1624/HA11-1624

Round hole D Punch		Round hole D Die	
PN	Size	PN	Size
TJ10778	D Punch 8	TJ11078	D Die 8
TJ11088	D Punch 9	TJ11088	D Die 9
TJ06700	D Punch 10	TJ09701	D Die 10
TJ06698	D Punch 11	TJ06698	D Die 11
TJ06699	D Punch 12	TJ09697	D Die 12
TJ06699	D Punch 13	TJ09695	D Die 13
TJ06699	D Punch 14	TJ09693	D Die 14
TJ06681	D Punch 14.5	TJ09612	D Die 14.5
TJ06680	D Punch 15	TJ09691	D Die 15
TJ06683	D Punch 16	TJ09688	D Die 16
TJ06686	D Punch 17	TJ09687	D Die 17
TJ06680	D Punch 17.5	TJ09613	D Die 17.5
TJ06684	D Punch 18	TJ09685	D Die 18
TJ06682	D Punch 19	TJ09683	D Die 19
TJ06680	D Punch 20	TJ09681	D Die 20
TJ06687	D Punch 20.5	TJ09608	D Die 20.5
TJ06678	D Punch 21	TJ09679	D Die 21
TJ07979	D Punch 21.5	TJ07980	D Die 21.5
TJ06676	D Punch 22	TJ09677	D Die 22
TJ06674	D Punch 23	TJ09675	D Die 23
TJ06669	D Punch 23.5	TJ09609	D Die 23.5
TJ07748	D Punch 24	TJ07749	D Die 24
TJ10961	D Punch 25	TJ11062	D Die 25

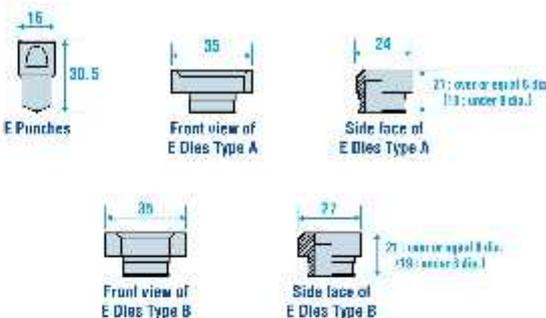


*T49007 Lock Nut Assy is required for D Punch 25

FOR E25-0615

Round hole E Punch		Round hole E Die (Type A for thin sheets)		E Die (Type B for thick sheets)	
PN	Size	PN	Size	PN	Size
TK00103	E Punch 4	TK00103	E Die 4A	—	—
TK00102	E Punch 5	TK00102	E Die 5A	TK00104	E Die 5B
TK00103	E Punch 5.5	TK00104	E Die 5.5A	TK00105	E Die 5.5B
TK00105	E Punch 6	TK00106	E Die 6A	TK00107	E Die 6B
TK00108	E Punch 6.5	TK00107	E Die 6.5A	TK00108	E Die 6.5B
TK00111	E Punch 8	TK00112	E Die 8A	TK00113	E Die 8B
TK00109	E Punch 8.5	TK00110	E Die 8.5A	TK00111	E Die 8.5B
TK00117	E Punch 10	TK00116	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
TK00107	E Punch 14	TK00108	E Die 14A	TK00109	E Die 14B
TK00428	E Punch 15	TK00298	E Die 15A	TK00299	E Die 15B

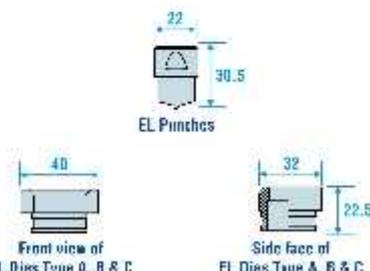
Elongated hole E Punch		Elongated hole E Die (Type A for thin sheets)		Elongated hole E Die (Type B for thick sheets)	
PN	Size	PN	Size	PN	Size
TK00126	E Punch 10 x 5	TK00127	E Die 10 x 5A	TK00128	E Die 10 x 5B
TK00139	E Punch 10 x 5.5	TK00138	E Die 10 x 5.5A	TK00160	E Die 10 x 5.5B
TK00128	E Punch 12 x 6	TK00130	E Die 12 x 6A	TK00181	E Die 12 x 6B
TK00132	E Punch 13 x 6.5	TK00131	E Die 13 x 6.5A	TK00154	E Die 13 x 6.5B
TK00135	E Punch 13 x 8.5	TK00136	E Die 13 x 8.5A	TK00157	E Die 13 x 8.5B



FOR E55-0619

Elongated hole E Punch		Elongated hole E Die (Type A for thin sheets)		Elongated hole E Die (Type B for thick sheets)	
PN	Size	PN	Size	PN	Size
TK00242	EL Punch 10 x 6.5	TK00254	E Die 10 x 6.5A	TK00266	E Die 10 x 6.5B
TK00243	EL Punch 10 x 6.5	TK00255	E Die 10 x 6.5A	TK00267	E Die 10 x 6.5B
TK00244	EL Punch 13 x 8.5	TK00250	E Die 13 x 8.5A	TK00268	E Die 13 x 8.5B
TK00245	EL Punch 13.5 x 9	TK00251	E Die 13.5 x 9A	TK00269	E Die 13.5 x 9B
TK00246	EL Punch 15 x 10	TK00256	E Die 15 x 10A	TK00270	E Die 15 x 10B
TK00247	EL Punch 16.5 x 11	TK00259	E Die 16.5 x 11A	TK00271	E Die 16.5 x 11B
TK00248	EL Punch 17 x 8.5	TK00260	E Die 17 x 8.5A	TK00272	E Die 17 x 8.5B
TK00248	EL Punch 18 x 9	TK00261	E Die 18 x 9A	TK00273	E Die 18 x 9B
TK00230	EL Punch 18 x 12	TK00262	E Die 18 x 12A	TK00274	E Die 18 x 12B
TK00251	EL Punch 18.5 x 13	TK00263	E Die 18.5 x 13A	TK00275	E Die 18.5 x 13B
TK00252	EL Punch 20 x 10	TK00264	E Die 20 x 10A	TK00276	E Die 20 x 10B
TK00253	EL Punch 21 x 14	TK00265	E Die 21 x 14A	TK00277	E 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	TK00235	EL Die 11C
TK00198	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	TK00239	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	—	—
TK00206	EL Punch 18.5	TK00220	EL Die 18.5A	TK00260	EL Die 18.5B	—	—
TK00190	EL Punch 19	TK00181	EL Die 19A	TK00182	EL Die 19B	—	—



Compact portable models meet your versatile chamfering jobs



HAND BEVELER

Model **HB-15B**

Electric **15C**
Mild Steel
Stainless Steel



Finish a surface so fine that post-sanding is unnecessary

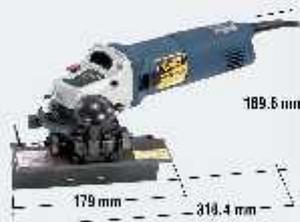
Column R-section can be chamfered with optional attachment

Insert with 4-side blades per piece practices good economy

MINI BEVELER

Model **EMB-0307B**

Electric **Double insulation**
Stainless Steel
Mild Steel



Applicable to stainless steel and mild steel chamfering

Pipe outer edge can be also processed with standard accessories

Dust box collects swarf and chips effectively

MINI BEVELER

Model **MB-03A**

Electric **Double insulation**
Mild Steel
Stainless Steel



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 (5BR)

CIRCUIT BEVELER

Model **ECB-0203**

Electric **Double insulation**
Stainless Steel
Mild Steel



Applicable to stainless steel and mild steel chamfering

Minimum chamfering plate thickness is 2 mm (Max. 0.5C)

An optional straight plate allows chamfering a straight edge shoulder

Specifications

Model (Electric Tool)	HB-15B		EMB-0307B		MB-03A		ECB-0203			
Power Source (Single Phase)	115 V AC	230 V AC	220 - 240 V AC, 50/60 Hz		230 V or 115 V AC, 50/60 Hz		220 - 240 V AC, 50/60 Hz			
Rated Power Consumption	W	910	910	1,010	430	450				
Rated Current	A	10.5	4	4.6	2 / 4.5	2.1				
Rated Duty	min	Continuous		Continuous	30	30				
No-load Speed	min ⁻¹ (rpm)	3,340	2,750	11,300	11,000	11,000				
Chamfering Capacity	Mild Steel	0C - 15C (1C per chamfering)		0C - 7C, 2R, 3R, 4R	0C - 3C, 2R, 3R	0C - 3C, *2R, *3R				
	Stainless Steel	—		0C - 3C, 2R, 3R, 4R	—	0C - 1.5C, *2R				
Chamfer Angle		15° - 45°		15° - 45°	45°	45°				
Power Cord	m	5		4	2.5	2.5				
Mass (Weight)	kg	15		3.9	2.5	2.5				
Standard Accessories			<ul style="list-style-type: none"> • Insert 19.7 mm dia. 1 pc. • Power Switch Key 1 pc. • 8 mm dia. 24 x 27.1 mm 1 pc. • 4 mm dia. 25.08 mm 1 pc. • 8 mm dia. 24 mm dia. 1 pc. • T200003 Insert 12.7 mm dia. 10 pcs (400 mm) 		<ul style="list-style-type: none"> • 20 mm Dia. Ass'y 1 pc. • 4 mm dia. Chamfer Key 1 pc. • Insert 12.7 mm dia. 1 pc. • Insert 8 mm dia. 12.7 mm 1 pc. • Hex Nut M8 1 pc. • 8 x 25 mm dia. 2 pcs • 8 x 25 mm dia. 2 pcs • 8 x 25 mm dia. 2 pcs 		<ul style="list-style-type: none"> • 8 x 4 mm dia. 1 pc. • 8 mm dia. 24 mm dia. 1 pc. • 8 mm dia. 24 mm dia. 1 pc. • Hex Nut M8 1 pc. • 8 x 25 mm dia. 2 pcs • 8 x 25 mm dia. 2 pcs 		<ul style="list-style-type: none"> • Insert 19.7 mm dia. 1 pc. • Insert 24 mm dia. 1 pc. • 8 mm dia. 24 mm dia. 1 pc. • 8 mm dia. 24 mm dia. 1 pc. • 8 mm dia. 24 mm dia. 1 pc. • 8 mm dia. 24 mm dia. 1 pc. 	

*In case of chamfering 0R, an optional insert for 0R is necessary, and chamfering 2R, an optional guide sleeve 24 mm dia. and insert for 2R are necessary.

The limit of beveling width depends on a chamfer angle.

Chamfer Angle α	HB-15B		EMB-0307B		MB-03A		ECB-0203		AMBL-0307 / AMB-0307		CB-02					
	Stainless Steel (mm)	Mild Steel (mm)	Stainless Steel (mm)	Mild Steel (mm)	Mild Steel (mm)	Mild Steel (mm)	Stainless Steel (mm)	Mild Steel (mm)	Stainless Steel (mm)	Mild Steel (mm)	Mild Steel (mm)					
45°	15	15	7	7	3	3	3	3	1.5	1.5	7	7	3	3	2	2
30°	9	15.5	3.6	6.6	2.2	3.8					4	7	2.2	3.8		
15°	4	15.4	1.5	6.6	1	3.8					2.2	8	1	3.8		

Radius	EMB-0307B		MB-03A		ECB-0203		AMBL-0307 / AMB-0307		CB-02	
	Mild Steel	Stainless Steel	Mild Steel	Mild Steel	Stainless Steel	Mild Steel	Stainless Steel	Mild Steel		
Radius (mm)	2, 3, 4	2, 3, 4	2, 3	2, 3	2	2, 3, 4	2, 3, 4	2		

Chamfering range of operation

CB-02



ECB-0203



Select the suitable **BEVELER** model in accordance with your applications



MINI BEVELER

Model **AMBL-0307** Lever Type



- Stainless Steel
- 3C
- Mild Steel
- 7C
- 4R



Model **AMB-0307** Ring Type



- Applicable to stainless steel and mild steel chamfering
- Simple to adjust chamfering depth and replace insert
- Pipe outer edge can be also processed with standard accessories

CIRCUIT BEVELER

Model **CB-02**



- Mild Steel
- 2C
- 2R



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

Specifications

Model (Pneumatic Tool)		AMBL-0307 / AMB-0307	CB-02
Air Pressure	MPa (kgf/cm ²)	0.59 (6)	0.59 (6)
Air Consumption	m ³ /min	0.9	0.4
No-load Speed	min ⁻¹ (rpm)	14,000	13,000
Chamfering Capacity	Mild Steel	0C - 7C, 2R, 3R, 4R	0C - 2C, 2R
	Stainless Steel	0C - 3C, 2R, 3R, 4R	—
Chamfer Angle		15° - 45°	45°
Mass (Weight)	kg	2.9	1.8
Standard Accessories		* 2.5 mm Hex. Socket screw key set 1 pc. * Sparker 1-10 1 pc. * Hex Nut M6 2 pcs.	* Insert 9.525 with hole 1 pc. * Adjustment gauge 1 pc. * Sparker 1-10 1 pc.

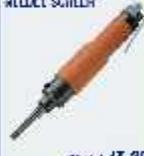
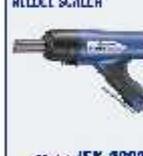
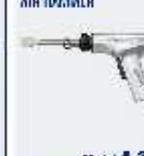
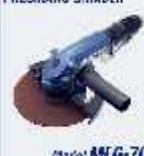
Optional

	PN	Description	Sales Unit	Application model	Remarks
	IA9A093	Indexable Insert 12.7 Ass'y	12 pcs./set	HB-15R	
	IB01159	Indexable Insert 12.7 with hole Ass'y	10 pcs./set	EMB-0307R, AMB-0307, AMBL-0307, FCB-0203	
	TB01791	Indexable Insert 12.7 Ass'y R2	10 pcs./set	EMB-0307B, AMB-0307, AMBL-0307, ECB-0203	
	TB01651	Indexable Insert 12.7 Ass'y R3	10 pcs./set	EMB-0307B, AMB-0307, AMBL-0307, ECB-0203	
	TB01790	Indexable Insert 12.7 Ass'y R4	10 pcs./set	EMB-0307B, AMB-0307, AMBL-0307	
	TA9A386	Indexable Insert 9.525 with hole Ass'y	10 pcs./set	MB-03A, CB-02	
	TA9A592	Indexable Insert 9.525 Ass'y R2	10 pcs./set	MB-03A, CB-02	
	TA9A638	Indexable Insert 9.525 Ass'y R3	10 pcs./set	MB-03A	
	TA9A728	Plate Ass'y for pipe	1 set	HB-15B	For pipe 125 - 800 mm dia.
	TB02539	Attachment for small dia. pipe	1 set	EMB-0307B, AMB-0307, AMBL-0307	For pipe 80 - 200 mm dia.
	IA9A594	Inner head Ass'y	1 set	MB-03A	For min. 100 mm dia.
	TB02857	Guide sleeve 24 mm dia. Ass'y	1 set	ECB-0203	For chamfering R2
	TB03097	Plate Ass'y for straight line use	1 set	ECB-0203	
	TB02662	Dust Box Ass'y	1 set	ECB-0203	Use with Plate Ass'y for straight line use
	IB03424	Sparker I-9D	1 pc.	MB-03A, CB-02	
	IQ01683	Sparker T-15D	1 pc.	EMB-0307B, AMB-0307, AMBL-0307, ECB-0203	

OTHER PRODUCT LINES

Power Tools *Pneumatic & Electric Power Tools, Labor-saving plus Improved Work Efficiency*

A wide range of unique tools for boring and punching

JET CHISEL <small>NEEDLE SCALLER</small>  <i>Model JT-20</i>	JET CHISEL <small>NEEDLE SCALLER</small>  <i>Model JEX-2900A</i>	AUTO CHISEL <small>AIR IMPACTER</small>  <i>Model A-300</i>	SUPER KELEM <small>PNEUMATIC SCALER</small>  <i>Model S-250S-500S-1000</i>	AIR CHIPPER <small>SCALING</small>  <i>Model AGH-16</i>	AIR CHIPPER <small>SCALING</small>  <i>Model CH-24</i>	MYTON <small>PNEUMATIC GRINDER</small>  <i>Model MLG-25</i>	MYTON <small>PNEUMATIC GRINDER</small>  <i>Model MAGW-40</i>
MYTON <small>PNEUMATIC GRINDER</small>  <i>Model MLG-70</i>	MYTON <small>PNEUMATIC SANDER</small>  <i>Model MAS-40</i>	PALM ORBITAL SANDER <small>PNEUMATIC COMPACT SANDER</small>  <i>Model APS-150</i>	AIR SONIC <small>PNEUMATIC DIE DRINKER</small>  <i>Model L-25B</i>	BELTON <small>PNEUMATIC BELT SANDER</small>  <i>Model B-10N</i>	BELTON <small>PNEUMATIC BELT SANDER</small>  <i>Model B-20N</i>	SUPER HAND <small>FLIVE</small>  <i>Model SH-100A</i>	AIR DRILL <small>PNEUMATIC HAND DRILL</small>  <i>Model ADR-100</i>

delvo *Professional Tools for High Technology*

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

delvo Models

DLV7300 Series
 DLV7500/8500 Series
 DLV7000/8000 Series
 DLV7100/7200/8100/8200 Series
 DLV3100/3300 Series
 DI V5720/5720H/5740/5740H/5750 Series
 DI V5800 Series
 DLV30SP/30HP-MKG (with built-in brushless motor)



Spring Balancer

TIGON Spring Balancer Improves Work Safety & Efficiency

Capacities ranging from 0.5 - 70 kg.



TIGON Spring Balancer Models

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

Linear Motor Driven Free Piston System

MEDO pumps are unique products featuring a Linear-motor-driven Free Piston System. NITTO KOHKI has made available a complete series of air compressors and suction pumps that incorporate this revolutionary mechanism. These are quite appropriate as air sources or suction power units for various pneumatically operated equipment and apparatus in advanced industries.



OTHER PRODUCT LINES

CUPLA

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



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



HI CUPLA ACE

- Plastic Coupls with a built-in locking mechanism.
- Pressure ratings comparable to steel Coupls.



LINE CUPLA 200

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

HI CUPLA & HI CUPLA 200

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



Plug		P	
For hose connection			
17PH For 1/4" hose	40PH For 1/2" hose	17PH For 1/4" hose	40PH For 1/2" hose
20PH For 1/4" hose	80PH For 3/4" hose	20PH For 1/4" hose	80PH For 3/4" hose
30PH For 3/8" hose	000PH For 1" hose	30PH For 3/8" hose	000PH For 1" hose
For female thread connection			
10PM For Rc 1/8"	40PM For Rc 1/2"	10PM For Rc 1/8"	40PM For Rc 1/2"
20PM For Rc 1/4"	60PM For Rc 3/4"	20PM For Rc 1/4"	60PM For Rc 3/4"
30PM For Rc 3/8"	80PM For Rc 1"	30PM For Rc 3/8"	80PM For Rc 1"
For male thread connection			
20PF For R 1/4"	40PF For R 1/2"	20PF For R 1/4"	40PF For R 1/2"
30PF For R 3/8"	60PF For R 3/4"	30PF For R 3/8"	60PF For R 3/4"
40PF For R 1/2"	000PF For R 1"	40PF For R 1/2"	000PF For R 1"
For male thread connection (parallel thread)			
20PH For G 1/4"		20PH For G 1/4"	

Specifications

Type	Hi Coupla	Hi Coupla 200
Body material	Steel (chrome-plated)	Steel (chrome-plated)
Size	1/8", 1/4", 3/8", 1/2", 3/4", 1"	1/8", 1/4", 3/8", 1/2"
Working pressure	1.5 MPa	1.0 MPa
Pressure resistance	2.0 MPa	1.5 MPa
Seal material	NBR	NBR
Working temperature range	-20°C ~ +80°C	-5°C ~ +100°C

S		Socket	
For hose connection			
17SH For 1/4" hose	40SH For 1/2" hose	17SH For 1/4" hose	40SH For 1/2" hose
20SH For 1/4" hose	80SH For 3/4" hose	20SH For 1/4" hose	80SH For 3/4" hose
30SH For 3/8" hose	000SH For 1" hose	30SH For 3/8" hose	000SH For 1" hose
For female thread connection			
10SM For Rc 1/8"	40SM For Rc 1/2"	10SM For Rc 1/8"	40SM For Rc 1/2"
20SM For Rc 1/4"	60SM For Rc 3/4"	20SM For Rc 1/4"	60SM For Rc 3/4"
30SM For Rc 3/8"	80SM For Rc 1"	30SM For Rc 3/8"	80SM For Rc 1"
For male thread connection			
20SF For R 1/4"	40SF For R 1/2"	20SF For R 1/4"	40SF For R 1/2"
30SF For R 3/8"	60SF For R 3/4"	30SF For R 3/8"	60SF For R 3/4"
40SF For R 1/2"	000SF For R 1"	40SF For R 1/2"	000SF For R 1"
For hose connection			
200-17SH For 1/4" hose	200-40SH For 1/2" hose	200-17SH For 1/4" hose	200-40SH For 1/2" hose
200-20SH For 1/4" hose		200-20SH For 1/4" hose	
200-30SH For 3/8" hose		200-30SH For 3/8" hose	
For female thread connection			
200-10SM For Rc 1/8"		200-10SM For Rc 1/8"	
200-20SM For Rc 1/4"		200-20SM For Rc 1/4"	
200-30SM For Rc 3/8"		200-30SM For Rc 3/8"	
For male thread connection			
200-20SF For R 1/4"		200-20SF For R 1/4"	
200-30SF For R 3/8"		200-30SF For R 3/8"	
200-40SF For R 1/2"		200-40SF For R 1/2"	

For Oxygen / Fuel Gas

Mini Cupla Super

Heavy-duty push-to-connect type or oxyacetylene piping



Exclusively for welding and cutting equipment.

- Through-hole and slip-on connections available.
- All welding and cutting equipment are standard or optional configurations.
- Strong seal body for safe and maintenance.
- Back-seat plug for leak detection.
- Requires no gas coupling, and optional cord protection cable sleeve for additional protection.
- Available for oxygen and fuel gas applications.
- Stroke for use design with the side usage of applications.
- Thread, size and material are based on standard to comply with the requirements of various international equipment suppliers and design standards.

Select the combination in accordance with your own application.

Male thread	For oxygen	For acetylene hose	For fuel
Suggested combination: M x PH	Suggested combination: SF x P-	Suggested combination: S x P	Suggested combination: S x PF

Plug		P	
PH type (Hose barb)			
S22PH For Oxygen	For 1/4", 5/16"	S22PH For Oxygen	For 1/4", 5/16"
S33PH For Fuel Gas	For 1/8", 3/8"	S33PH For Fuel Gas	For 1/8", 3/8"
S32PH For Fuel Gas	For 1/4", 5/16"	S32PH For Fuel Gas	For 1/4", 5/16"
PH type (Hose barb of smaller diameters)			
S225PH For Oxygen	For 6 mm ID	S225PH For Oxygen	For 6 mm ID
S335PH For Fuel Gas	For 6 mm ID	S335PH For Fuel Gas	For 6 mm ID
PF type (Female Thread for torch connection)			
S22PF For Oxygen	For oxygen torch side	S22PF For Oxygen	For oxygen torch side
S33PF For Fuel Gas	For fuel gas torch side	S33PF For Fuel Gas	For fuel gas torch side
PF8 type (Female thread with backflow stop valve)			
S23PF8-2" For Oxygen	For oxygen torch side	S23PF8-2" For Oxygen	For oxygen torch side
S33PF8-2" For Fuel Gas	For fuel gas torch side	S33PF8-2" For Fuel Gas	For fuel gas torch side
PH type (Nut type for small diameter hose)			
S22PH For Oxygen	For 6 mm ID	S22PH For Oxygen	For 6 mm ID
S33PH For Fuel Gas	For 6 mm ID	S33PH For Fuel Gas	For 6 mm ID

Specifications

Body material	Socket: steel (chrome plated)	Plug: Steel (chrome plated)
Size	1/4", 5/16", 3/8"	
Working pressure	0.7 MPa	
Pressure resistance	1.0 MPa	
Seal material	NBR	
Working temperature range	20°C ~ +80°C	

*Made-to-order item. *Available hose sizes are ø5 mm x ø11.2 mm, ø6 mm x ø11.8 mm and ø6 mm x ø11.8 mm

S		Socket	
SH type (Hose barb)			
S22S For Oxygen	For 1/4", 5/16"	S22S For Oxygen	For 1/4", 5/16"
S33S For Fuel Gas	For 1/8", 3/8"	S33S For Fuel Gas	For 1/8", 3/8"
S32S For Fuel Gas	For 1/4", 5/16"	S32S For Fuel Gas	For 1/4", 5/16"
SH type (Hose barb of smaller diameters)			
S225S For Oxygen	For 6 mm ID	S225S For Oxygen	For 6 mm ID
S335S For Fuel Gas	For 6 mm ID	S335S For Fuel Gas	For 6 mm ID
SF type (Female Thread for torch connection)			
S22SF For Oxygen	For oxygen gauge side	S22SF For Oxygen	For oxygen gauge side
S33SF For Fuel Gas	For fuel gas gauge side	S33SF For Fuel Gas	For fuel gas gauge side
S23SF For Oxygen	For oxygen gauge side	S23SF For Oxygen	For oxygen gauge side
S33SF For Fuel Gas	For fuel gas gauge side	S33SF For Fuel Gas	For fuel gas gauge side
SM type (Male thread)			
S22SM For Oxygen	For Rc 1/4"	S22SM For Oxygen	For Rc 1/4"
S33SM For Fuel Gas	For Rc 3/8"	S33SM For Fuel Gas	For Rc 3/8"
SN type (Nut type for small diameter hose)			
S22SN For Oxygen	For 6 mm ID	S22SN For Oxygen	For 6 mm ID
S33SN For Fuel Gas	For 6 mm ID	S33SN For Fuel Gas	For 6 mm ID



MACHINE TOOLS

**Technologies that Respond
to the Needs of the Times**



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



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