

Nitto Kohki's NGCHIN NG























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 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).

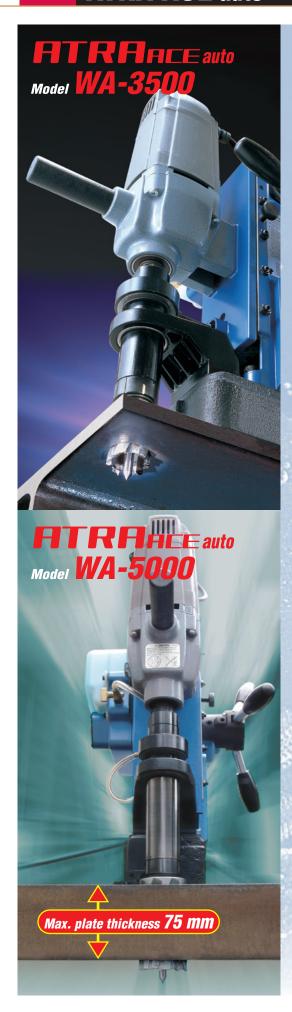
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Power Tools, delvo, Spring Balancer, Linear Motor Driven Free Piston System CUPLA Series / Mini Cupla Super

17

18



High-performance mechanism & high-tech components

One-touch cutter replacement

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

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.



nting the cutter Removing the cutt



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 & 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.

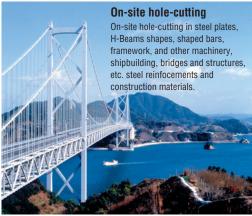
Cycle stop

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.









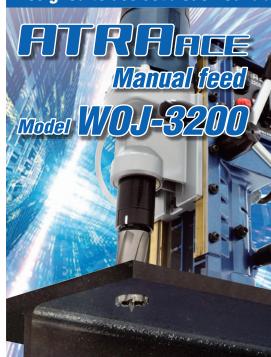




Specifications

Specific	ations						
Model			WA-	3500	WA-	5000	
Power S	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/		
	Rated Power Consump	tion W	1,1	00	1,1	50	
Electric Drill	Rated Current	Α	10.2	5.1	10.8	5.4	
	No Load Speed	min ⁻¹ (rpm)	95	50	350 / 650		
Magnet	Power Consumption	W	3	4	7	5	
Hole-cut	tting Capacity	Cutter	Hole Diameter	Plate Thickness	Hole Diameter	Plate Thickness	
One-tou	ch type JETBROACH 25L		_	_	12 to 17 mm	9 to 25 mm	
One-tou	ch type JETBROACH 35L		17.5 to 35 mm	9 to 35 mm	17.5 to 40 mm	9 to 35 mm	
One-tou	ch type JETBROACH 50L		17.5 to 35 mm	9 to 35 mm	12 to 50 mm	9 to 50 mm	
One-tou	ch type JETBROACH 75L		_	_	17.5 to 50 mm 9 to 75 mm		
One-tou	ch type HI-BROACH 25L		14 to 35 mm	9 to 25 mm	14 to 50 mm 9 to 25 mm		
One-tou	ch type HI-BROACH 50L		_	_	14 to 50 mm	9 to 50 mm	
Magnet	Holding Power	N (kgf)	7,056	(720)	9,800	(1,000)	
Magnet	Dimensions	mm	92 × 216		101 x 201		
Mass (W	Veight)	kg	2	0	23		
Standa	ard Accessories		Pilot Pin 08035 A2: 1 pc. Chain Ass'y: 1 set Side Handle Ass'y: 1 set mm Hex Socket Screw Ke 8 x 10 mm Spanner: 1 pc. Cutting Oil 0.5 L: 1 can Plastic Case: 1 pc. Gue	y : 1 pc. ard Ass'y : 1 set	Pilot Pin 08050 A3: 1 pc. Chain Ass'y: 1 set Side Handle Ass'y: 1 set mm/4 mm Hex Socket S 8 x 10 mm Spanner: 1 pc. Cutting Oil 0.5 L: 1 can Plastic Case: 1 pc. Gue	crew Key : each 1 pc. ard Ass'y:1 set	
Option	al Accessories			JETBROACH One-touch Type 50L TB01507 Cutting 0il 2 L per can Always use genuine Nitto Kohki cutters & coolant.		JETBROACH One-touch Type 75L TB01507 Cutting Oil 2 L per can Always use genuine Nitto Kohki cutters & coolant.	

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.



Specifications

Opecii	IGALIUIIS				
Model			WOJ-	3200	
Power S	Source (Single Phase		220 - 240 V /	AC, 50/60 Hz	
		otion W	950		
Electric Drill	Rated Current A		4.	.3	
	No Load Speed min	⁻¹ (rpm)	87	70	
Magnet	Power Consumption	W	7	0	
Hole-cu	tting Capacity	Cutter	Hole Diameter	Plate Thickness	
One-to:	ich type JETBROAC	СН	12 to 32 mm	9 to 50 mm	
Magnet	Holding Power	kN (kgf)	9 (918)		
Magnet	Dimensions	mm	99 x	177	
Mass (V	Veight)	kg	1	3	
Stand	ard Accessorie	s	Pilot Pin 08035 : 1 pc. 3 mm Hex Socket Screw Key : 1 pc. 6 mm Hex Socket Screw Key : 1 pc. 8 x 10 mm Spanner : 1 pc. Safety Strap : 1 pc. Sub Handle : 1 pc. Guard Ass'y : 1 set		

Optional Chip Breaker

Optional chip breaker helps prevent the cutter from plugging the hole with chip debris, causing some false overloads and cutter life loss.



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.



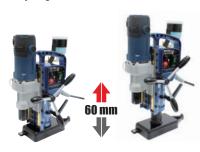
Optional One-Touch Adapter

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



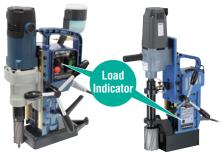
Body Height Adjustment

Loosening the pillar clamp allows the complete frame to be lifted up to a maximum of 60 mm for specific drilling. 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. The pillar clamp is required to be tightened before safe drilling may take place. Note: Always engage the magnet before adjusting the body height.





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



Model **WOJ-3200**

Model **A0-5575**

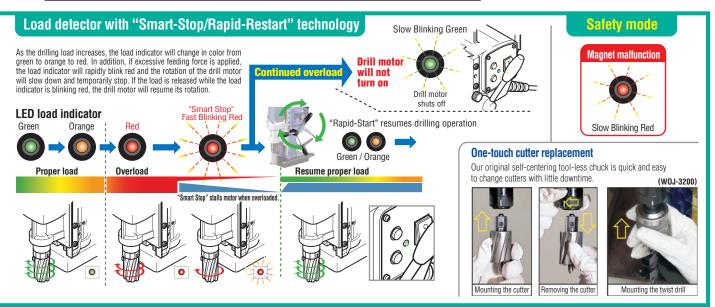
This new feature is a breakthrough in the Manual drill industry. Formerly only found on high end Nitto Kohki Automatic drills, this technology displays the current drill status via the LED Load Indicator. Customers will experience a cutting edge drill management system designed solely around saving time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



opounio						
Model			AO-5575			
Power Source (Single Phase)			220 - 240 V AC, 50/60 Hz			
Rated Power Consumption W			1,1	50		
Electric Drill Rated Current No Load Speed min ⁻¹		А	5.	4		
		min ⁻¹ (rpm)	350 /	650		
Magnet F	Power Consumption	W	5	0		
Hole-cutting Capacity Cutter			Hole Diameter	Plate Thickness		
One-touc	h type JETBROACH		12 to 55 mm	9 to 75 mm		
One-touc	h type HI-BROACH		12 to 50 mm 9 to 50 mm			
Magnet I	Holding Power	kN (kgf)	10 (1,020)			
Magnet I	Dimensions	mm	86 X	170		
Mass (W	eight)	kg	1	8		
Standard Accessories			Pilot Pin 08050 A3:1 pc. Mm Hex Socket Screw Key:1 pc. Cutting 0il 0.5 L:1 ca Side Handle Ass'y:1 set Side Handle Ass'y:1 set 8 x 10 mm Spanner:1 pc. Read Ass'y:1 set 8 x 10 mm Spanner:1 pc.			
Option		use genuine Nitto utters & coolant.	JETBROACH HI-BROACH TB01507			



Model **A0-5575**



Designed to use Jetbroach and Hi-broach Annular Cutters



QUICK AUTO Drills increase productivity and reduce hole drilling cost.

Proven Automatic Tecnology

- 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

Specific	ations					
Model			QA-4000		QA-6500	
Power So	ource (Single Phase)		115 V AC, 50/60 Hz 220 - 240 V AC, 50/60 Hz		220 - 240 V	AC, 50/60 Hz
Rated Power Consumption W		68	30	1,0)10	
Electric Drill	Electric Rated Current A		6.1	3.0	4	.5
5	No Load Speed min ⁻¹ (rpm)		75	50	400	/ 750
Magnet F	Power Consumption	W	5	0	7	5
Hole-cut	ting Capacity	Cutter	Hole Diameter	Plate Thickness	Hole Diameter	Plate Thickness
One-touc	h type JETBROACH 35L		17.5 to 40 mm	9 to 35 mm	17.5 to 40 mm	9 to 35 mm
One-touc	h type JETBROACH 50L		_	_	17.5 to 65 mm	9 to 50 mm
One tour	sh tung UI DDOACU 251		14 to 15 mm	9 to 12 mm	18 to 35 mm	9 to 25 mm
Olle-touc	th type HI-BROACH 25L		16 to 18 mm	9 to 25 mm	_	-
Magnet I	Holding Power	N (kgf)	6,664	(680)	9,800 (1,000)	
Magnet I	Dimensions	mm	82 X	172	100 × 200	
Mass (W	eight)	kg	18	3.5	2	6
Standa	rd Accessories		Pilot Pin 08035 A2 : 1 pc. • Chain : 1 pc 3 mm Hex Socket Screw Key : 1 pc. 4 mm Hex Socket Screw Key : 1 pc. 8 x 10 mm Spanner : 1 pc. 6 cutting 0il 0.5 L: 1 can • Tool box : 1 pc. Side Handle : 1 pc. • 0il Tank Ass'y : 1 set.		Pilot Pin 08050 A3:1 pc. The control of the contr	

One-touch Cutter Replacement!

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

Improved Feature Bearing Bracket

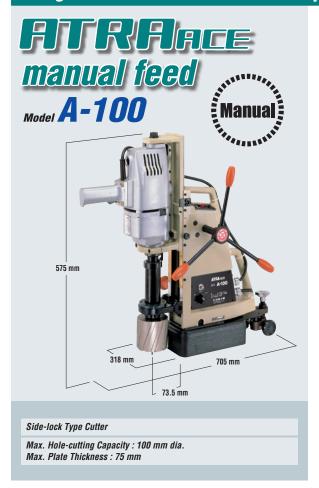
Precision bearing bracket aligns cutters precisely, which increases cutter life.

Chip Breaker

Chip breaker prevents swarf and chip nesting.

Designed to use Jetbroach Carbide Tipped Annular Cutters





The largest capacity drilling machine in the Nitto Kohki line.

Specifications

Model			A-100		
Power S	ource (Single Phase)		220 - 240 V AC, 50/60 Hz		
	Rated Power Consumpti	on W	1,600		
Electric Drill	Rated Current		7.4		
	No Load Speed min ⁻¹ (rpm)		33	30	
Magnet I	Power Consumption	W	8	0	
Hole-cut	ting Capacity	Cutter	Hole Diameter	Plate Thickness	
Side-Loc	k type JETBROACH 75L		50 to 100 mm		
Magnet I	Holding Power	N (kgf)	17,640 (1,800)		
Magnet I	Dimensions	mm	130	x 256	
Mass (W	eight)	kg	5	0	
Standard Accessories			Pilot Pin 12075: 1 pc. mm / 2.5 mm / 3 mm / 8 mm Hex Socket Screw % 8 mm Spanner: 1 pc Cutting Oil 0.5 L: 1 can Oil Cap Ass'y: 1 set. Pilot Pin 12075: 1 pc. Tan 12075: 1 pc. Tan 12075: 1 pc.	/ 4 mm / 5 mm / 6 mm / Key : each 1 pc. :. • Tool box : 1 pc.	

BURING

ATRA MASTER

Portable Magnetic Drill Stand

The magnet bases of ATRA MASTER hold the drills perpendicular to steel plates even on non horizontal places.













Drilling Capacity : 10 mm Power Source (Single Phase) : 220 - 240 V AC, 50/60 Hz Mass (weight) : 6.2 kg



Drilling Capacity : 13 mm Power Source (Single Phase) : 220 - 240 V AC, 50/60 Hz Mass (weight) : 16 kg



Drilling Capacity: 25 mm Power Source (Single Phase): 220 - 240 V AC, 50/60 Hz Mass (weight): 25.5 kg



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
	BHM-02035 TB00390	HBO-25L	12 - 17 dia.	06025 (PN TK01167)	Optional
M.T.No.2		HBU-23L	17.5 - 35 dia.	08025 (PN TJ12696)	Ομιιστίαι
	163 mm	JB0-35L	17.5 - 35 dia.	08035 (PN TJ15859)	Standard
		1100 051	12 - 17 dia.	06025 (PN TK01167)	
		HBO-25L	17.5 - 52 dia.	08025 (PN TJ12696)	
	BHM-03050 TB00392		12 - 18 dia.	06050 (PN TK01166)	Optional
	-	HBO-50L	19 - 52 dia.	0850 (PN TK00802) 08050 (PN TJ16019)	
M.T.No.3	182 mm	JB0-35L	17.5 - 40 dia.	08035 (PN TJ15859)	Standard
		JB0-50L	17.5 - 65 dia.	08050	Optional
		JB0-50L(W)	18 - 35 dia.	(PN TJ16019)	Ορτιστίαι
	BHM-13075 TB00352				
	•				
	248 mm	JBS-75L	50 - 100 dia.	12075	Standard
	BHM-14075 TB00354	050 70L	00 100 dia.	(PN TA9A207)	Staridard
M.T.No.4	232 mm				

	-BRO e-toucl	ACH	75	A-3500	00	00	00
	G-LOUGI	туре	99-	양	-20	-40	-65
mm dia.	Depth	PN	A0-5575	W	WA	QA-4000	ď
12		TK00698	•				
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	25	TK00351	•	•	•		•
28	mm	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-	·BKC e-toucl	ACH	22	00
Un	e-touci	туре	22	50
mm dia.	Depth	PN	A0-	WA-
12		TK00721	•	
13		TK00722	•	
14		TK00723	•	•
15		TK00724	•	•
16		TK00725	•	•
17		TK00726	•	•
18		TK00727	•	•
19		TK00728	•	•
20		TK00729	•	•
21		TK00730	•	•
22		TK00731	•	•
23		TK00732	•	•
24 25		TK00733	•	•
26		TK00734 TK00735	•	•
27		TK00735	•	•
28		TK00730	•	•
29		TK00737	•	•
30		TK00739	•	•
31	50 mm	TK00740	•	•
32	1111111	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 50		TK00758 TK00759	•	•
51		TK00759		
52		TK00761		

		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
		65 mm (12 - 19.5 dia.) 58 mm (20 - 52 dia.)	86 mm	65 mm(25L) 73 mm(35L) 95 mm(12 - 17 × 50L) 90 mm(17.5 - 65 × 50L)	For stacked two plates.	117 mm	156 mm
		25L : 12 - 52 dia.	_	25L : 12 - 17 dia.	_	_	_
	Hole Diameter mm	-	-	35L : 17.5 - 40 dia.	-	-	_
	Tiole Diameter IIIII	—	50L : 12 - 52 dia.	50L : 12 - 65 dia.	50L(W):18,22,24 - 26.5,	75L : 17.5 - 55 dia.	75L : 50 - 100 dia.
Hole-cutting		_	_	_	28,32, and 35 dia.	_	_
Capacity		25L : 25	_	25L : 25	_	_	_
	Plate Thickness mm	-	-	35L : 35	-	-	-
	I late Hillokiless Hilli	_	50L : 50	50L : 50	50L(W): 50	_	_
		-	<u> </u>	-	-	75L : 75	75L : 75
Feed Speed	mm/rev			0.02 - 0.1			
Circumferent	ial Speed m/min	15 - 35 (r	nild steel)		35 - 50 (r	nild steel)	

JETBROACH One-touch Type			00	75	8	8	2	9
mm			J-32	A0-5575	VA-3500	VA-5000	QA-4000	JA-6500
dia.	Depth	PN	DM	AC	M	M	70	/0
12		TK01148	•	•		•		
13		TK01149	•	•		•		
14	25 mm	TK01150	•	•		•		
15	mm	TK01151	•	•		•		
16	ļ	TK01152	•	•		•		
17		TK01153	•	•		•		
17.5		TK00301	•	•	•	•	•	•
18		TK00302	•	•	•	•	•	•
19		TK00304	•	•	•	•	•	•
19.5		TK00305	•	•	•	•	•	•
20		TK00306	•	•	•	•	•	•
20.5		TK00307	•	•	•	•	•	•
21		TK00308	•	•	•	•	•	•
21.5	ļ	TK00309	•	•	•	•	•	•
22		TK00310	•	•	•	•	•	•
22.5	ļ	TK00311	•	•	•	•	•	•
23		TK00312	•	•	•	•	•	•
23.5		TK00313	•	•	•	•	•	•
24		TK00314	•	•	•	•	•	•
24.5	35	TK00315	•	•	•	•	•	•
25	mm	TK00316	•	•	•	•	•	•
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		•		•	•	•

JE7 On 50L (=W)	WOJ-3200	40-5575		
mm dia.	Depth	PN	MO	AO
18		TK01068	•	•
22		TK00622	•	•
24		TK00623	•	•
24.5		TK00631	•	•
25	50	TK00624	•	•
26	mm	TK00625	•	•
26.5		TK00632	•	•
28		TK00626	•	•
32		TK00627	•	•
35		TK00628	•	•

Combination of Pilot Pins & Broach Cutters

Broach Gutters	
Pilot Pin	HI-BROACH Cutters
06025 PN : TK01167	HBO 12 - 17 dia. Depth 25 mm
08025 PN : TJ12696	HBO 17.5 - 52 dia. Depth 25 mm
06050 PN:TK01166	HBO 12 - 18 dia. Depth 50 mm
0850 PN:TK00802	HBO 19 - 52 dia. Depth 50 mm
08050 PN: TJ16019	

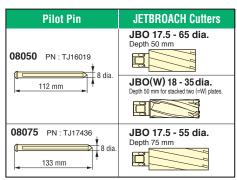
	BRC e-touch	ACH Type	3200	575	200	000	500
mm dia.	Depth	PN	W0J-3	A0-5575	WA-3500	WA-50	QA-6500
12		TK01154	•	•		•	
13		TK01155	•	•		•	
14		TK01156	•	•		•	
15		TK01157	•	•		•	
16 17		TK01158 TK01159	•	•		•	
17.5		TK00380	•	•	•	•	•
18		TK00381	•	•	•	•	•
19		TK00382	•	•	•	•	•
19.5		TK00383	•	•	•	•	•
20		TK00384	•	•	•	•	•
20.5		TK00385	•	•	•	•	•
21.5		TK00386 TK00387	•	•	•	•	•
22		TK00387	•	•	•	•	•
22.5		TK00389	•	•	•	•	•
23		TK00390	•	•	•	•	•
23.5		TK00391	•	•	•	•	•
24		TK00392	•	•	•	•	•
24.5		TK00393	•	•	•	•	•
25 26		TK00394 TK00395	•	•	•	•	•
26.5		TK00395	•	•	•	•	•
27		TK00397	•	•	•	•	•
28		TK00398	•	•	•	•	•
29		TK00399	•	•	•	•	•
30		TK00400	•	•	•	•	•
31		TK00401	•	•	•	•	•
32	50	TK00402 TK00403	_	•	•	•	•
34	mm	TK00403		•	•	•	•
35		TK00405		•	•	•	•
36		TK00406		•		•	•
37		TK00407		•		•	•
38		TK00408		•		•	•
39		TK00409		•		•	•
40 41		TK00410 TK00411		•		•	•
42		TK00411		•		•	•
43		TK00413		•		•	•
44		TK00414		•		•	•
45		TK00415		•		•	•
46		TK00416		•		•	•
47 48		TK00417		•		•	•
48		TK00418 TK00419		•		•	•
50		TK00419		•		•	•
51		TK00442		•			•
52		TK00443		•			•
53		TK00444		•			•
54		TK00445		•			•
55 56		TK00446		•			•
57		TK00447 TK00448					•
58		TK00448					•
59		TK00450					•
60		TK00451					•
61		TK00607					•
62		TK00608					•
63		TK00609					•
64 65		TK00610 TK00611					•
00		1KUUb11					•

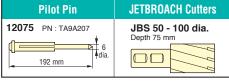
	ACH Type	200	375	200	000	009		BRO -touch	ACH Type	575	900
1	PN	W0J-3200	A0-5575	WA-3500	WA-5000	QA-6500	mm dia.	Depth	PN	A0-5575	WA-5000
	TK01154	•	•		•		17.5		TK01036	•	•
	TK01155	•	•		•		18		TK01003	•	•
	TK01156	•	•		•		19		TK01004	•	•
	TK01157	•	•		•		20		TK01005	•	•
	TK01158	•	•		•		21		TK01006	•	•
	TK01159	•	•		•		22		TK01007	•	•
	TK00380	•	•	•	•	•	23		TK01008	•	•
	TK00381	•	•	•	•	•	24		TK01009	•	•
	TK00382	•	•	•	•	•	25		TK01010	•	•
	TK00383	•	•	•	•	•	26		TK01011	•	•
	TK00384	•	•	•	•	•	27		TK01012	•	•
	TK00385	•	•	•	•	•	28		TK01013	•	•
	TK00386	•	•	•	•	•	29		TK01014	•	•
	TK00387	•	•	•	•	•	30		TK01015	•	•
	TK00388	•	•	•	•	•	31		TK01016	•	•
	TK00389	•	•	•	•	•	32		TK01017	•	•
	TK00390	•	•	•	•	•	33		TK01018	•	•
	TK00391	•	•	•	•	•	34	75	TK01019	•	•
	TK00392	•	•	•	•	•	35	mm	TK01020	•	•
	TK00393	•	•	•	•	•	36		TK01021	•	•
	TK00394	•	•	•	•	•	37		TK01022	•	•
	TK00395	•	•	•	•	•	38		TK01023	•	•
	TK00396	•	•	•	•	•	39		TK01024	•	•
	TK00397	•	•	•	•	•	40		TK01025	•	•
	TK00398	•	•	•	•	•	41		TK01026	•	•
	TK00399	•	•	•	•	•	42		TK01027	•	•
	TK00400	•	•	•	•	•	43		TK01028	•	•
	TK00401	•	•	•	•	•	44		TK01029	•	•
	TK00402	•	•	•	•	•	45		TK01030	•	•
	TK00403		•	•	•	•	46		TK01031	•	•
	TK00404		•	•	•	•	47		TK01032	•	•
	TK00405		•	•	•	•	48		TK01033	•	•
	TK00406		•		•	•	49		TK01034	•	•
	TK00407		•		•	•	50		TK01035	•	•
	TK00408		•		•	•	51		TK01112	•	
	TK00409		•		•	•	52		TK01113	•	
	TK00410		•		•	•	53		TK01114	•	
	TK00411		•		•	•	54		TK01115	•	
	TK00412		•		•	•	55		TK01116	•	
	TK00413		•		•	•					
	TK00414				•		I				

JE I Sid	BRO le-lock	ACH Type	0
mm	Depth	PN	A-10
dia.	Doptii	''	
50		TJ17709	•
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 67	-	TJ16666	•
68	-	TJ16667	•
69	-	TJ16668	
70	-	TJ16669 TJ16670	•
71	•	TJ16671	•
72	-	TJ16672	•
73	75	TJ16673	•
74	mm	TJ16674	•
75		TJ16675	•
76	1	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 TJ16700	•

Pilot Pin	JETBROACH Cutters
06025 PN : TK01167	JBO 12 - 17 dia. Depth 25 mm
08035 PN : TJ15859	JBO 17.5 - 40 dia. Depth 35 mm
06050 PN : TK01166 6.35 dia. 5 dia. 112 mm	JBO 12 - 17 dia. Depth 50 mm

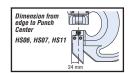








New design adopted for punching stainless steel. Inching function (manual operation) is available.









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.

m case of this coordinate participation and the coordinate participation of the participation of the metabolic management and									
	HS06-1322			HS07		HS11-1624			
mm	60			70			110		
	for Mild Steel	for Mild Steel for Stainless Steel			for Mild Steel for Stainless Steel		for Mild Steel	for	Stainless Steel
mm	13	13 6		16	(3	16		6
mm	22	22 22		24 24		24		24	
	Punching 1	ime 7.9 sec.		Punching Ti	me 11.8	sec.	Punching 7	Γime	11.8 sec.
	Returning Time 3.4 sec.			Returning Time 5.7 sec.			Returning	Time	5.7 sec.
MPa (kgf/cm²)	68.65 (700)			68.65 (700)			68.65 (700)		
kN (tf)	367	(37)		464 (47)			464 (47)		
mm	:	21		25			25		
kg	2	0.5		25.5			30		
	Hose Kit Ass'y:1 set Hose Cord Ass'y:1 set 4 mm / 5 mm Hex. Socket Screw Key: Each 1 pc. Spanner:1 pc. Spanner:1 pc. Sub Handle Ass'y:1 set Chip Guard Ass'y:1 set Tool Box:1 pc. D Punch / 10e 22 mounted on machine			Hose Kit Ass'y:1 set		Each 1 pc.	• 4 mm / 5 mm Hex. Soc • Spanner : 1 pc. • Sp • Sub Handle Ass'y : 1 so • Chip Guard Ass'y : 1 so	ket Scre anner 12 et • To	w Key : Each 1 pc. ? : 1 pc. ol Box : 1 pc.
		Part Name	Unit	Model	PN			Unit	Model
				-					
				HS series					HS series
				+					
	mm mm MPa (kgf/cm²) kN (tf) mm	Mm	Mm	Mmm	Mm	Tree Tree	Those Kit Assy : 1 set - Hose Cord Assy : 1 set - Spanner : 1 pc. - Spanner =	This content Figure Figu	The color of the

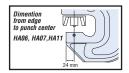


Specifications

•					
Model	HPD-05				
Power Source (Single Pha	115 V / 230 V AC				
Max. Output Pressure	68.65	(700)			
Output	50 Hz	60 Hz			
At No Load	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	2.5		



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









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.

- p	modes of this door mathematical particular p									
Model			HA06-1322		HA07	-1624		HA	11-162	24
Max. Throat Depth	mm	60			7		110			
Punching Capacity		for Mild Steel			for Mild Steel			for Mild Steel		
Max. Punching Thickness	mm	13			1	6			16	
Max. Punching Diameter	mm		22		24				24	
Hole Making Time			10.5 sec.		16.5	sec.		1	6.5 sec	
Allowable Max. Pressure	MPa (kgf/cm²)	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		• Hose Cord • 4 mm Hex. • Spanner : 1 • Tool box : 1	Socket Screw Key : 1 pc. pc.	• H • 4 • S • T	Sub Handle Ass'y: 1 set Hose Cord Ass'y: 1 set 4 mm Hex. Socket Screw Key: 1 pc. Spanner: 1 pc. Tool box: 1 pc. D Punch / Die 22 mounted on machine			Sub Handle Ass'y: 1 Hose Cord Ass'y: 1 4 mm Hex. Socket S Spanner: 1 pc. Tool box: 1 pc. D Punch / Die 22 mo	set crew Key : '	
		PN	Part Name	Unit	Model	PN		Part Name	Unit	Model
		TA96534	Hose Kit Ass'y 5 m	1 set		TA95307		rd Ass'y 10 m	1 set	
Optional Parts		TP05184	Ultra-high pressure hose 5 m	1 pc.]	TA94386	Foot Switc		1 set	HA series
Optional Laits		TA93778	Switch Cord Ass'y 5 m	1 set	HA series	TA92729	Oil Can As	s'y	1 set	
		TA9B044	Hose Kit Ass'y 10 m	1 set		TA96342	Hook Clam	ın Ass'v	1 set	HA07-1624
		TP05777	Ultra-high pressure hose 10 m	1 pc.	1	TASOS4Z HOUR CIAM		ip noo y		HA11-1624



Specifications

10.4.1		00	05		
Model	SC-05				
Power Source (Single Phase)	115 V / 2	230 V AC			
Max. Output Pressure	68.65	(700)			
Output	50 Hz	60 Hz			
At No Load	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 HANDY SELFER

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





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	305	670 670				
MOTOL	Rated Current	Α	1.6	6.0	3.0			
Max. Pu	nching Diameter	mm	15		19			
Max. Pu	nching Thickness	mm	6		6			
Max. Th	roat Depth	mm	25	!	55			
Punching Time sec (single pass)			4	2				
Power C	ord	m	2.4	2.4				
Mass (W	/eight)	kg	7.0	14				
Standard Accessories			• E Punch 15 : 1 pc. • E Die 15A : 1 pc. • E Die 15B : 1 pc. • Spanner 8 : 1 pc. • Spanner 8 : 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.	EL Punch 18: 1 pc. EL Die 18A: 1 pc. EL Die 18B: 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. Kand Ass'y: 1set Auxiliary Oil: 1 pc.				
Option	al Accessory		PN Part Name Sales Unit TB00800 Stand Ass'y 1 set					

Selection of Dies

Annlication	Tune of Die	Plate Thick	Model		
Application	Type of Die	Mild Steel	Stainless Steel	MOUCI	
For thin sheets	А	2 - 3.2	Max. 3	E25-0615	
For thick sheets	В	4 - 6	Max. 4	E23-0013	
For thin sheets	А	2 - 3.2	Max. 3		
For thick sheets	В	4 - 6	Max. 4	E55-0619	
For channel iron	С	7 - 8	_		

Punching Capacity in channel iron (E55-0619)

Punching Dia.	10 OD	11 OD	12 OD	13 OD	14 OD	15 OD	16 OD	B=40~65
75 x 40 t7	0	0	0	0	0	0	0	25~125 t1 B-t1 2
100 x 50 t7.5	0	0	0	0	0	0	_	H H
125 × 65 t8	0	0	0	0	0	_	_	t Dista this lynese
								t=Plate thickness

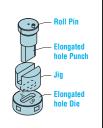
Sales Unit : 1 Piece

Punches & Dies for SELFER Puncher

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

•TA99037 Lock Nut Ass'y is required for Elongated hole D Punch 25 × 9/12/14/18

Elongate	ed hole D Punch	Elonga	ted hole D Die	Elongated hole Jig		
PN	Size	PN	Size	PN	Size	
TJ13229	D Punch 16 x 8	TJ13238	D Die 16 × 8	TK00455	Jig 16 × 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 × 11	TJ13241	D Die 22 × 11	TK00458	Jig 22 × 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 × 12	TK00461	Jig 25 × 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	



Optional

PN	Part Name
TQ01279	Hex. Setscrew 8 x 14 for Elongated hole Die
TA99037	Lock Nut Ass'y for D Punch 25

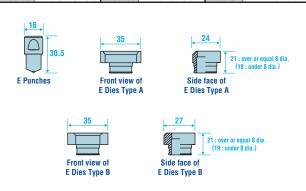
FOR HS06-1322/HS07-1624/HS11-1624/HA06-1322/HA07-1624/HA11-1624

Round	hole D Punch	Roun	d 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	30
TJ06698	D Punch 11	TJ06699	D Die 11	
TJ06696	D Punch 12	TJ06697	D Die 12	
TJ06694	D Punch 13	TJ06695	D Die 13	60
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	D Punch
TJ06688	D Punch 16	TJ06689	D Die 16	D I ulicii
TJ06686	D Punch 17	TJ06687	D Die 17	
TJ06609	D Punch 17.5	TJ06610	D Die 17.5	. 42
TJ06684	D Punch 18	TJ06685	D Die 18	42 →
TJ06682	D Punch 19	TJ06683	D Die 19	16
TJ06680	D Punch 20	TJ06681	D Die 20	
TJ06607	D Punch 20.5	TJ06608	D Die 20.5	D Dies
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	•TA99037 Lock Nut Ass'y
TJ10061	D Punch 25	TJ10062	D Die 25	required for D Punch 25

FOR E25-0615

Round	l hole E Punch	,	nd hole E Die for thin sheets)	E Die (Type B for thick sheets)		
PN	PN Size		PN Size		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	

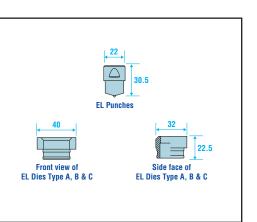
Elongat	ed hole E Punch		ited hole E Die for thin sheets)	Elongated hole E Die (Type B for thick sheets)							
PN	Size	PN	Size	PN	Size						
TK00126	E Punch 10 x 5	TK00127	E Die 10 x 5A	TK00128	E Die 10 x 5B						
TK00158	E Punch 10 × 6.5	TK00159	E Die 10 × 6.5A	TK00160	E Die 10 × 6.5B						
TK00129	E Punch 12 x 6	TK00130	E Die 12 x 6A	TK00131	E Die 12 x 6B						
TK00152	TK00152 E Punch 13 x 6.5		E Die 13 x 6.5A	TK00154	E Die 13 x 6.5B						
TK00155	E Punch 13 × 8.5	TK00156	E Die 13 × 8.5A	TK00157	E Die 13 × 8.5B						



FOR E55-0619

Elongat	ed hole E Punch		ited hole E Die for thin sheets)		ted hole E Die 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 × 8.5	TK00256	EL Die 13 × 8.5A	TK00268	EL Die 13 × 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 × 11	TK00259	EL Die 16.5 × 11A	TK00271	EL Die 16.5 × 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 × 14A	TK00277	EL Die 21 x 14B

TK00253	EL Punch 21 x 14	TK00265	EL Die 21 × 14A	TK00277	EL Die 21 × 14B			
Round	Round hole EL Punch		d hole EL Die for thin sheets)		d hole EL Die 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	I	_	
TK00195	EL Punch 8	TK00210	EL Die 8A	TK00224	EL Die 8B	ı	_	
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	I	_	
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	_	_	





Compact portable models meet your versatile chamfering jobs









An outer R-part attachment allows

chamfering of outer diameters with

An optional inner head ass'y allows

chamfering a pipe of inner diameter

a radius greater than 170 mm

larger than 100 mm (50R)



Applicable to stainless steel and mild steel chamfering

Pipe outer edge can be also processed with standard accessories

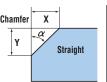
Dust box collects swarf and chips effectively

Specifications

Model (Electric Tool)		НВ-	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	А	10.5	4	4.6	2 / 4.5	2.1
Rated Duty	min	Conti	nuous	Continuous	30	30
No-load Speed	min ⁻¹ (rpm)	3,340	2,750	11,000	11,000	11,000
Chamfering Capacity	Mild Steel	0C - 15C (7C p	er chamfering)	0C - 7C, 2R, 3R, 4R	0C - 3C, 2R, 3R	0C - 3C, *2R, *3R
Chamileting Capacity	Stainless Steel	-	_	0C - 3C, 2R, 3R, 4R	_	0C - 1.5C, *2R
Chamfer Angle		15° ·	- 45°	15° - 45°	45°	45°
Power Cord	m	Ę	5	4	2.5	2.5
Mass (Weight)	kg	1	5	3.9	2.5	2.5
Standard Accessories		• 4 / 5 / 6 mm Hex. Socket Screw Key: each 1 pc. • Spanner 24 × 27 : 1 pc. • Hook spanner 25-28 : 1 pc. • 3 mm T Wrench Key: 1 pc. • TA9A093 Insert 12.7 Ass'y (12 pcs./set) : 1 set		Carbon Brush Ass'y: 1 pc. 4 mm Hex. Wrench Key: 1 pc. Insert 12-7 with hole: 1 pc. Insert 25 Screw 4 x 7: 1 pc. Hex Nut M8: 2 pcs. 8 x 25 mm Hex. Socket Set Screw: 2 pcs. Spanner T-15D: 1 pc.	3 & 4 mm Hex. Socket Screw Key: each 1 pc. Spanner 7-9F: 1 pc. Hex. Nut M8: 2 pcs. 8 x 25 mm Hex. Socket Set Screw: 2 pcs.	Insert 12.7 with hole: 1 pc. Insert set screw 4 × 7: 1 pc. 5 mm Hex. Socket Screw Key: 1 pc. Spanner 8 × 10: 1 pc. Spanner T-15D: 1 pc. Adjustment gauge: 1 pc.

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





١	Chamfar	HB-	15B		EMB-	0307B		MB-	03A		ECB-	0203		AME	L-0307	/ AMB-0	0307	CB-	02
Chamfei Angle o		Mild Ctool ()		Mild St	eel(mm)	el (mm) Stainless Ste		mild Steel (mm		Mild Steel (mm) Stainless Steel (mm)		Mild Steel(mm)		Stainless Steel (mm)		Mild Steel(mm)			
7 mgro		Х	Υ	Х	Υ	Х	Υ	Х	Υ	Х	Υ	Х	Υ	Х	Υ	Х	Υ	Х	Υ
	45°	15	15	7	7	3	3	3	3	3	3	1.5	1.5	7	7	3	3	2	2
	30°	9	15.5	3.8	6.6	2.2	3.8							4	7	2.2	3.8		
	15°	4	15.4	1.5	5.6	1	3.8]						2.2	8	1	3.8		



Model EMB-0307B		MB-03A	ECB-	0203	AMBL-0307	CB-02		
Material	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







ECB-0203











Select the suitable BEVELER model in accordance with your applications







Specifications

Model (Pneumatic Tool)		AMBL-0307 / AMB-0307	CB-02		
Air Pressure	MPa (kgf/cm²)	0.6 (6)	0.6 (6)		
Air Comsumption m ³ /min		0.9	0.4		
No-load Speed min ⁻¹ (rpm)		14,000	13,000		
Chamforing Consoity	Mild Steel	0C - 7C, 2R, 3R, 4R	0C - 2C, 2R		
Chamfering Capacity	Stainless Steel	0C - 3C, 2R, 3R, 4R	_		
Chamfer Angle		15° - 45°	45°		
Mass (Weight) kg		2.9	1.8		
Standard Accessories		8 x 4 mm Hex. Socket Screw Key: each 1 pc. Spanner T-15F: 1 pc. Hex Nut M8: 2 pcs. **Sx 25 mm Hex. Socket Set Screw: 2 pcs. **Insert Set Screw 4 x 7: 1 pc.	Insert 9.525 with hole: 1 pc. Adjustment gauge: 1 pc. Spanner T-9F: 1 pc. Spanner T-9F: 1 pc.		

Optional

optional C					
	PN	Description	Sales Unit	Application model	Remarks
A SECTION AND ADDRESS OF THE PARTY OF THE PA	TA9A093	Indexable Insert 12.7 Ass'y	12 pcs./set	HB-15B	
N. C.	TB01159	Indexable Insert 12.7 with hole Ass'y	10 pcs./set	EMB-0307B, AMB-0307, AMBL-0307, ECB-0203	
11 12 12	TB01791	Indexable Insert 12.7 Ass'y R2	10 pcs./set	EMB-0307B, AMB-0307, AMBL-0307, ECB-0203	
3 10 10 0 11	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	
N H H H	TA9A592	Indexable Insert 9.525 Ass'y R2	10 pcs./set	MB-03A, CB-02	
N. IN	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.
13	TA9A594	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	
	TB02862	Dust Box Ass'y	1 set	ECB-0203	Used with Plate Ass'y for straight line use
	TB03424	Spanner T-9D	1 pc.	MB-03A, CB-02	
	TQ01683	Spanner T-15D	1 pc.	EMB-0307B, AMB-0307, AMBL-0307, ECB-0203	

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





DI V5720/5720H/5740 Series

DLV7100/7200/8100/8200 Series DLV3100/3300 Series DLV5720/5720H/5740/5740H/5750 Series DI V5800 Series $DLV30SP/30HP\text{-}MKG \ (with \ built-in \ brushless \ motors)$

Spring Balancer

TIGON Spring Balancer Improves Work Safety & Efficiency

TIGON Spring Balancer Models

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



Linear Motor Driven Free Piston Sy

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.



HER PRODUCT LINES

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



LINE CUPLA 200

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

HI CUPLA & HI CUPLA 200

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



		Plug		
For hose co	nnostion	40PH	For 1/2" hose	
17PH	For 1/4" hose	400PH	For 1/2" hose	
20PH	For 1/4" hose	600PH	For 3/4" hose	
30PH	For 3/8" hose	800PH	For 1" hose	
For female t	hread connection	40PM	For Rc 1/2"	_
10PM	For Rc 1/8"	400PM	For Rc 1/2"	
20PM	For Rc 1/4"	600PM	For Rc 3/4"	
30PM	For Rc 3/8"	800PM	For Rc 1"	_
For male thi	read connection			
20PF	For R 1/4"	400PF	For R 1/2"	8 11-
30PF	For R 3/8"	600PF	For R 3/4"	6
40PF	For R 1/2"	800PF	For R 1"	
For male thi	read connection (p	oarallel threa	d)	
20PFF	For G 1/4"			

Specifications

Specifications			
Туре	Hi Cupla	Hi Cupla 200	
Body material	Steel (chrome-plated)	Steel (chrome-plated)	
Size	1/8", 1/4", 3/8", 1/2", 3/4", 1"	1/8", 1/4", 3/8", 1/2"	
Working pressure	1.5 MPa	1.0 MPa	
Pressure resistance	2.0 MPa	1.5 MPa	
Seal material	NBR	NBR	
Working temperature range	-20°C - +80°C	-5°C - +60°C	

S		Socket		
	For hose co	nnection	40SH	For 1/2" hose
	17SH	For 1/4" hose	400SH	For 1/2" hose
	20SH	For 1/4" hose	600SH	For 3/4" hose
	30SH	For 3/8" hose	800SH	For 1" hose
	For female	hread connection	40SM	For Rc 1/2"
7 111110	10SM	For Rc 1/8"	400SM	For Rc 1/2"
	20SM	For Rc 1/4"	600SM	For Rc 3/4"
	30SM	For Rc 3/8"	800SM	For Rc 1"
	For male th	read connection		
	20SF	For R 1/4"	400SF	For R 1/2"
	30SF	For R 3/8"	600SF	For R 3/4"
_	40SF	For R 1/2"	800SF	For R 1"

	For hose connection			
- ENUE	200-17SH	For 1/4" hose	200-40SH	For 1/2" hose
THE OWNER OF THE PERSON NAMED IN	200-20SH	For 1/4" hose		
	200-30SH	For 3/8" hose		
_	For female	thread connection		
-	200-20SM	For Rc 1/4"		
5	200-30SM	For Rc 3/8"		
	200-40SM	For Rc 1/2"		
_	For male th	read connection		
	200-20SF	For R 1/4"		
	200-30SF	For R 3/8"		
	200-40SF	For R 1/2"		



- Heat-treated plugs for better durability.
 Oxygen and fuel gas couplings have different configuration sizes with sleeves in different appearances, chrome plating for oxygen and copper plating for fuel gas, to prevent accidental interconnection.

 • Smaller diameter design enables wider range of applications.
- Various types of end configurations have been standardized to comply with a wide range of welding and cutting equipment applications. Interchangeable with Mini Cupla.

		Plug	P
PH type (Ha	se barb)		
S22PH	For Oxygen	For 1/4", 5/16"	7
S33PH	For Fuel Gas	For 5/16" , 3/8"	
S32PH*	For Fuel Gas	For 1/4" , 5/16"	
	se barb of smal		
S225PH	For Oxygen	For 5 mm ID	
S335PH	For Fuel Gas	For 5 mm ID	
		torch connection)	
S22PF	For Oxygen	For oxygen torch side	
S33PF	For Fuel Gas	Fox fuel gas torch side	
		th backflow stop valve)	
S23PFB-2*	For Oxygen	For oxygen torch side	
S33PFB-2*	For Fuel Gas	Fox fuel gas torch side	
		,	
	t type for small		
S22PN	For Oxygen	For 5 mm ID	
S33PN	For Fuel Gas	For 5 mm ID	

S		Socket	
SH type (H	ose barb)		
S22SH	For Oxygen	For 1/4", 5/16"	m-
S33SH	For Fuel Gas	For 5/16" , 3/8"	
S32SH*	For Fuel Gas	For 1/4" , 5/16"	
SH type (H	ose barb of smal	ler diameters)	
S225SH	For Oxygen	For 5 mm ID	
S335SH	For Fuel Gas	For 5 mm ID	
			Mile Time
SF type (Fe	male thread for	torch connection)	
S22SF	For Oxygen	For oxygen gauge side	Win Company
S33SF	For Fuel Gas	For fuel gas gauge side	
S23SF*	For Oxygen	For oxygen gauge side	
S33SF*	For Fuel Gas	For fuel gas gauge side	
SM type (M	lale thread)		
S22SM	For Oxygen	For Rc 1/4	WW-CT-000
S33SM	For Fuel Gas	For Rc 3/8	
SN type (N	ut type for small	diameter hose)	
S22SN	For Oxygen	For 5 mm ID	MI - 1 - 1
S33SN	For Fuel Gas	For 5 mm ID	
1	1	1	1

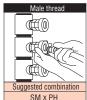
Specifications

• Available hose sizes are ø5 mm x ø11.2 mm, ø5 mm x ø11.5 mm and ø5 mm x ø11.8 mm. *Made-to-order item.

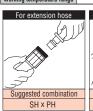
opecincations			
Body material	Socket : Brass (chrome-plated)	Plug: Steel (chrome-plated)	
Size	1/4", 5/16", 3/8"		
Working pressure	0.7 MPa		
Pressure resistance	1.0 MPa		
Seal material	NBR		
Working temperature range	-20°C	+80°C	













Technologies that Respond to the Needs of the Times



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