

# Nitto Kohki's MAGHAIN 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 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).

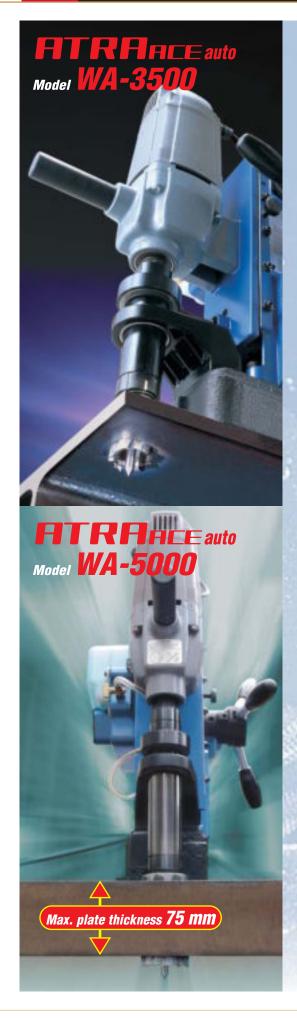
# **CONTENTS**

	Manufacturing	Steel Fabricating	Welding	Metal Casting & Forging	AUTOMOTIVE & SHIP BUILDING	Construction	Page
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
BORING ATRA ACE manual feed (WOJ-3200)	Speedy, high precision hole drilling	Speedy, high precision hole drilling			Drilling holes in steel	Drilling holes in shaped steel	5
BORING ATRA ACE manual feed (A0-5575)	Speedy, high precision hole drilling	Speedy, high precision hole drilling			Drilling holes in steel	Drilling holes in shaped steel	6
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
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
BORING ATRA MASTER	Precision boring of flanges	Drilling	Initial boring for sheet cutting by welder	Home boring for jig attachment	Various boring	Bring of shaped steel, drilling at elevated site	8
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
PUNCHING SELFER ACE HS SERIES & HYDRAULIC PUMP	Hole punching on steel plates	Punching bolt holes on steel plates	_	_	Punching holes on ship frameworks	On-site punching holes on shaped steels	11
PUNCHING SELFER HA SERIES & HYDRAULIC PUMP	Hole punching on steel plates	Punching bolt holes on steel plates	_	_	Punching holes on ship frameworks	On-site punching holes on shaped steels	12
PUNCHING PUNCHES & DIES FOR SELFER	Speedy, easy hole punching on steel sheets	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 colums	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, delve Chring Palancer Lineau	Malay F	у: Г.	oo Diete	Cuala			17

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

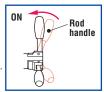
The feed speed is reduced for the first few seconds after boring begins to ensure a smooth cut through the mill scale.

#### 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

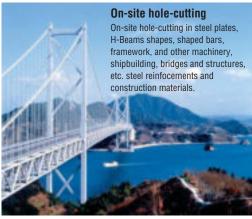
After the cut has finished, a detector responds to the reduction in load and both the drill and the feed motor automatically stop.

#### 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.











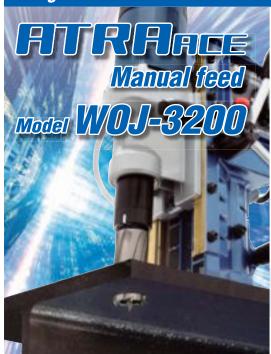




#### **Specifications**

ohermin	ationo						
Model		WA-:	3500	WA-	WA-5000		
Power S	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	110 - 120 V AC, 50/60 Hz   220 - 240 V AC, 50/60 Hz	
	Rated Power Consump	tion W	1,1	00	1,150		
Electric Drill	Rated Current	А	10.2	5.1	10.8	5.4	
	No Load Speed	min <sup>-1</sup> (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 x	216	101 >	( 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. Guarantee Guarantee Guarantee	ry : 1 pc. ard Ass'y : 1 set	Pilot Pin 08050 A3: 1 pc. Chain Ass'y: 1 set Side Handle Ass'y: 1 set 3 mm / 4 mm Hex Socket So 8 x 10 mm Spanner: 1 pc. Cutting Oil 0.5 L: 1 can Plastic Case: 1 pc. Gua	crew Key : each 1 pc. rd Ass'y : 1 set	
Option	al Accessories			JETBROACH One-touch Type 50L TB01507 Cutting Oil 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**

oherii	ications				
Model			WOJ-3200		
Power S	Source (Single Phase		220 - 240 V AC, 50/60 Hz		
	Rated Power Consump	otion W	950		
Electric Drill	Rated Current A		4.	.3	
	No Load Speed min	<sup>-1</sup> (rpm)	87	70	
Magnet	Power Consumption	W	7	0	
Hole-cu	tting Capacity	Cutter	Hole Diameter	Plate Thickness	
One-tou	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	13		
Stand	Standard Accessories		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 Spanne: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.

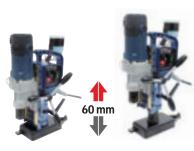
#### **Optional** One-Touch Adapter

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



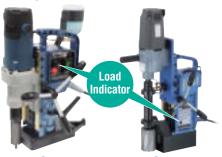
#### **Body Height Adjustment**

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** 

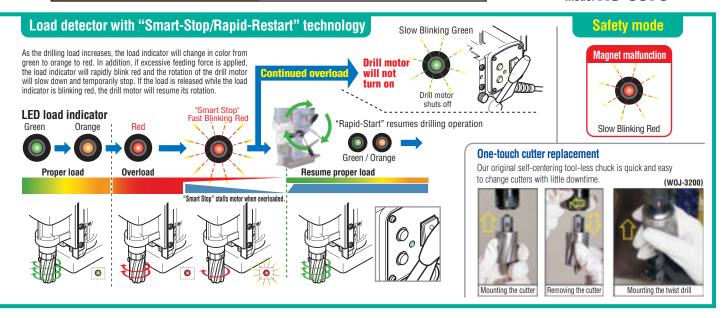
This new feature is a breakthrough in the Manual drill industry. Formerly only found on high end Nitto Kohki Automatic drills, this technology displays the current drill status via the LED Load Indicator. Customers will experience a cutting edge drill management system designed solely around saving time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



Model			A0-5575			
Power So	ource (Single Phase)		220 - 240 V AC, 50/60 Hz			
Rated Power Consumption W			1,1	50		
Drill		А	5.	4		
		min <sup>-1</sup> (rpm)	350 / 650			
Magnet 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	18			
Standard Accessories			Pilot Pin 08050 A3:1 pc. • 3 mm Hex Socket Screw Key:1 pc. • Cutting 0il 0.5 L:1 cal     Chain Ass y:1 set			
Option		use genuine Nitto utters & coolant.	JETBROACH One-touch Type 25 mm, 35 mm, 50 mm, 75 mm 2 L per can			



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

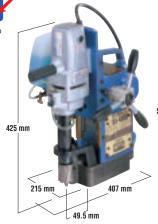
#### Self feeding & Load detection

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	Rated Current A		6.1	3.0	4	.5
5	No Load Speed min <sup>-1</sup> (rpm)		75	50	400	/ 750
Magnet F	Power Consumption	W	5	0	7	5
Hole-cut	Hole-cutting Capacity Cutter		Hole Diameter	Plate Thickness	Hole Diameter	Plate Thickness
One-toud	h type JETBROACH 35L		17.5 to 40 mm	9 to 35 mm	17.5 to 40 mm	9 to 35 mm
One-toud	h type JETBROACH 50L		_	_	17.5 to 65 mm	9 to 50 mm
One tour	sh tuno UI DDOACU 251		14 to 15 mm	9 to 12 mm	18 to 35 mm	9 to 25 mm
One-tout	th type HI-BROACH 25L		16 to 18 mm	9 to 25 mm	<del>_</del>	_
Magnet I	Holding Power	N (kgf)	6,664 (680)		9,800 (1,000)	
Magnet I	Dimensions	mm	82 x	172	100 x 200	
Mass (W	Mass (Weight) kg		18.5		2	6
Mass (Weight) kg  Standard Accessories		- Pilot Pin 08035 A2 : 1 pc. • Chain : 1 pc - 3 mm Hex Sockel Screw Key : 1 pc 4 mm Hex Sockel Screw Key : 1 pc 8 x 10 mm Spanner : 1 pc Cutting 0il 0.5 L : 1 can • Tool box : 1 pc Side Handle : 1 pc. • Oil Tank Ass'y : 1 set.		Pilot Pin 08050 A3 :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.     *Cutting Oil 0.5 L:1 can    *Tool box:1 pc.     *Chip Stopper:1 pc.    *Side Handle:1 pc.     *Oil Tank Ass'y: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.

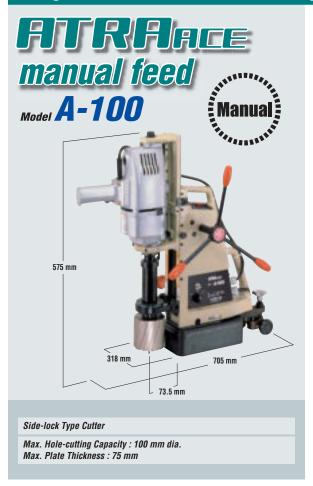
#### Chip Breaker

Chip breaker prevents swarf and chip nesting.

#### BORING

#### Designed to use Jetbroach Carbide Tipped Annular Cutters





# The largest capacity drilling machine in the Nitto Kohki line.

#### **Specifications**

Model	Model			100	
Power S	Power Source (Single Phase)			AC, 50/60 Hz	
	Rated Power Consumpti	on W	1,600		
Electric Drill	Rated Current A		7	.4	
	No Load Speed min <sup>-1</sup> (rpm)		33	30	
Magnet Power Consumption W		W	8	0	
Hole-cut	ting Capacity	Cutter	Hole Diameter	Plate Thickness	
Side-Loc	k type JETBROACH 75L		50 to 100 mm 13 to 75 mn		
Magnet	Holding Power	N (kgf)	17,640 (1,800)		
Magnet	Dimensions	mm	130 × 256		
Mass (W	eight)	kg	50		
Standard Accessories		Pilot Pin 12075:1 pc. • Chain:1 pc mm / 2.5 mm / 3 mm / 4 mm / 5 mm / 6 mm / 8 mm Hex Socket Screw Key: each 1 pc. 7 x 8 mm Spanner:1 pc. Cutting 0il 0.5 L:1 can • Tool box:1 pc. Oil Cap Ass'y:1 set. • Rod Handle:3 pcs.			

#### 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.







ATRA MASTER Madel **M-250B** 

ATRA MASTER

Model **M-320** 



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

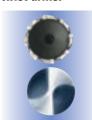
N.B.: The electric drill and drill mount fixture do not come with ATRA MASTERs.

#### JETBROACH CUTTERS & HI-BROACH CUTTERS

#### **BROACH CUTTERS** are far better than twist drills:

- No dead point
- Peripheral cutting
- ullet 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		INDU-23L	17.5 - 35 dia.	08025 (PN TJ12696)	Ориона	
	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	HBO-50L	12 - 18 dia.	06050 (PN TK01166)	Optional	
	-		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	
		JBO-50L	17.5 - 65 dia.	08050 (PN TJ16019)	Optional	
	BHM-13075	JBO-50L(W)	18 - 35 dia.	(114 1310019)		
	TB00352		E0 100 die	12075		
	BHM-14075 TB00354	JBS-75L	50 - 100 dia.	(PN TA9A207)	Standard	
M.T.No.4	232 mm					

	-BRO e-toucl	ACH	75	00	00	00	00
	G-LUUGI	Гуре	-55	A-3500	-50	40	.65
mm dia.	Depth	PN	A0-5575	WA	WA	QA-4000	θ
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					

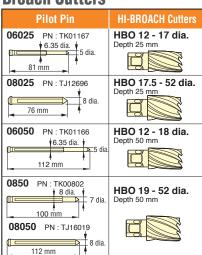
HI.	-BRC e-toucl	ACH	22	8
Un	e-touci	туре	22	50
mm dia.	Depth	PN	A0-	× ×
12		TK00721	•	
13		TK00722	•	
14		TK00723	•	•
15		TK00724	•	•
16		TK00725	•	•
17		TK00726	•	•
18		TK00727	•	•
19		TK00728	•	•
20		TK00729	•	•
21		TK00730	•	•
22		TK00731	•	•
23		TK00732	•	•
24		TK00733	•	•
25		TK00734	•	•
26		TK00735	•	•
27		TK00736	•	-
28		TK00737	•	•
29		TK00738	•	
30	50	TK00739	•	•
31	mm	TK00740	•	
32		TK00741	•	•
33		TK00742	•	•
35		TK00743	•	•
36		TK00744	•	•
		TK00745	•	•
37		TK00746	•	•
38		TK00747	•	•
39 40		TK00748	•	•
41		TK00749	•	•
42		TK00750 TK00751	•	•
43		TK00751	•	•
44		TK00752	•	•
45		TK00754	•	•
46		TK00754	•	•
47		TK00756	•	•
48		TK00757	•	•
49		TK00757	•	•
50		TK00759	•	•
51		TK00760		
52		TK00761		
02		.1100701		

		HI-BROACH One-touch Type / 25L	HI-BROACH One-touch Type / 50L	<b>JETBROACH</b> One-touch Type / 25,35,50L	JETBROACH One-touch Type / 50L(W)	JETBROACH One-touch Type / 75L	<b>JETBROACH</b> 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.	<u> </u>	_	_	
	Hole Diameter mm	<del>-</del>	<del>-</del>	35L : 17.5 - 40 dia.	<del>-</del>	<del>-</del>	_	
	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		_	_	<del>-</del>	28,32, and 35 dia.	<u>—</u>	_	
Capacity		25L : 25	_	25L : 25	_	_	_	
	Plate Thickness mm	<del>-</del>	<del>_</del>	35L : 35	<del>-</del>	<del>-</del>	<del>-</del>	
	i late illickliess illili	_	50L : 50	50L : 50	50L(W): 50	_	_	
		_	_	<del>-</del>	_	75L : 75	75L : 75	
Feed Speed	Feed Speed mm/rev				0.02 - 0.1			
Circumferent	ial Speed m/min	15 - 35 (r	nild steel)		35 - 50 (r	nild steel)		

	TBR( le-touc	DACH h Type	200	.75	000	000	00	00
mm dia.	Depth	PN	0028-LOW	A0-5575	WA-3500	WA-5000	000+-400	QA-6500
12		TK01148	•	•		•		
13		TK01149	•	•		•		
14	25 mm	TK01150	•	•		•		
15	mm	TK01151	•	•		•		
16		TK01152	•	•		•		
17		TK01153	•	•		•		
17.5		TK00301	•	•	•	•	•	•
18		TK00302	•	•	•	•	•	•
19		TK00304	•	•	•	•	•	•
19.5		TK00305	•	•	•	•	•	•
20	ļ	TK00306	•	•	•	•	•	•
20.5		TK00307	•	•	•	•	•	•
21		TK00308	•	•	•	•	•	•
21.5	ļ	TK00309	•	•	•	•	•	•
22		TK00310	•	•	•	•	•	•
22.5		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		•		•	•	•

JE   On 50L (=W)	NOJ-3200	A0-5575		
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



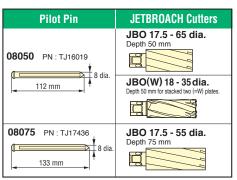
Transport   Tran	JETBROACH One-touch Type		3200	575	A-3500	000	200	
13 14 15 16 17 17.5 18 19 19.5 20 20.5 21.5 21 17K00380 100381 10		Depth	PN	:-rom	A0-5	WA-3	WA-5	QA-6
14			TK01154	•	•		•	
15 16 17 17.5 18 19 19.5 20.5 21 21.5 22 22.5 23 23.5 24 24.5 26 26.5 27 28 29 30 31 31 32 29 30 31 31 32 33 34 35 36 37 38 38 39 40 40 41								
16 17 17.5 18 19 19.5 20 20.5 21 21.5 22 22.5 23.5 24 24.5 26 26.5 27 28 29 30 30 31 31 32 33 30 31 32 33 34 40 40 41					_			
17. 17.5		-						
17.5 18 19 19 19.5 20 20.5 21 1K00382  TK00383  TK00383  TK00384  TK00385  TK00385  TK00386  TK00387  TK00388  TK00387  TK00388  TK00389  TK00390  TK00390  TK00391					_			
19.	17.5			•	•	•	•	•
19.5   TK00383								
20				_		-		
20.5 21 21.5 22 22.5 23 23.5 24 24.5 25 26 26.5 27 28 29 30 31 31 32 33 34 mm TK00401								
21					•			
22 22.5 23 7K00388				•	•	•	•	•
22.5 23 1K00390 1K00391 24 24.5 25 1K00391 1K00393 1K0						_		
23 23.5 24 526 26 26.5 27 7K00392 7K00393 7K00393 7K00395 7K00396 7K00396 7K00396 7K00396 7K00396 7K00396 7K00396 7K00396 7K00396 7K00400					_			
23.5 24 24.5 25 26 26.5 27 28 30 30 31 31 32 33 34 35 36 37 38 39 40 40 41		-						
24		1		_		_		
24.5       TK00393       • • • • • • • • • • • • • • • • • • •		1						
26	24.5			•	•	•		•
26.5 27 28 TK00396 TK00397 TK00398 TK00398 TK00398 TK00400					_			
27 28 29 TK00397 TK00398 TK00400 TK00400 TK00400 TK00400 TK00401 TK00402 TK00402 TK00403 TK00404 TK00405 TK00405 TK00406 TK00407 TK00408 TK00409 TK00409 TK00409 TK00409								
28 29 30 TK00398 TK00400 TK00400 TK00400 TK00401 TK00402 TK00402 TK00403 TK00405 TK00406 TK00406 TK00406 TK00407 TK00407 TK00408 TK00408 TK00409 TK00410 TK00410		-				_		
29 30 TK00400 TK00401 TK00401 TK00402 TK00403 TK00403 TK00404 TK00405 TK00406 TK00406 TK00407 TK00407 TK00408 TK00409 TK00409 TK00410 TK00411		-						
31   TK00401				•	•	•		
TK00402			TK00400		_		•	•
33						_		
34 mm TK00404 • • • • • • 35 TK00405 • • • • • 37 TK00406 • • • • • 38 TK00408 • • • • • • • • • • • • • • • • • • •		En		•	_	_		
35 TK00405								
36 TK00406 • • • • • 37 TK00407 • • • 38 TK00408 • • • • • 40 TK00410 • • • • 41 TK00411 • • • • • • 62 TK00411 • • • • • 63 TK00411 • • • • • 64 TK00411 • 64 TK004								
38 TK00408 • • • • • • • • • • • • • • • • • • •								
39 TK00409 • • • • • • • • • • • • • • • • • • •			TK00407		•		•	•
40 TK00410					_			
41 TK00411 • • •								
	42		TK00411					
<b>43</b> TK00413 • • •					•		•	•
<b>44</b> TK00414 ● ●			TK00414		•		•	•
45 TK00415 • • •								
46     TK00416     ●     ●       47     TK00417     ●     ●		-						
47 48 TK00417 • • • •								
49 TK00419 • • •								
<b>50</b> TK00420 ● ●	50		TK00420		•		•	•
51 TK00442 • •								
52 TK00443 • •								
53 TK00444 • • • • • TK00445 • • • • • • • • • • • • • • • • • •		-			•			•
55 TK00446 • •		1			•			•
56 TK00447								
57 TK00448								•
58 TK00449 •								
59 TK00450 •								
60 TK00451 • TK00607		-						
62 TK00607		1						
63 TK00609 •								
64 TK00610 •		1						•
65 TK00611 •	64							

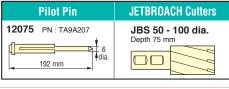
JET One	BRO e-touch	ACH Type	275	8
mm dia.	Depth	PN	A0-5575	WA-50
17.5		TK01036	•	•
18		TK01003	•	•
19		TK01004	•	•
20		TK01005	•	•
21		TK01006	•	•
22		TK01007	•	•
23		TK01008	•	•
24		TK01009	•	•
25		TK01010	•	•
26		TK01011	•	•
27	ļ	TK01012	•	•
28	ļ	TK01013	•	•
29	ŀ	TK01014	•	•
30		TK01015	•	•
31		TK01016	•	•
32		TK01017	•	•
33		TK01018	•	•
34	75	TK01019	•	•
35	mm	TK01020	•	•
36 37	-	TK01021		_
	-	TK01022	•	•
38 39	-	TK01023	•	•
40	-	TK01024 TK01025	•	•
41	ł		•	•
42	1	TK01026 TK01027	•	•
43	ł	TK01027	•	•
44		TK01020	•	•
45		TK01023	•	•
46		TK01031	•	•
47		TK01031	•	•
48		TK01032	•	•
49		TK01034	•	•
50	1	TK01035	•	•
51		TK01112	•	
52	1	TK01113	•	
53	1	TK01114	•	
54	1	TK01115	•	
55	1	TK01116	•	

JET	BRO	ACH	
Sir	le-lock	Tyne	8
mm dia.	Depth	PN	A-10
50		TJ17709	•
51		TJ16651	•
52		TJ16652	•
53		TJ16653	•
54		TJ16654	•
55		TJ16655	•
56		TJ16656	•
57	_	TJ16657	•
58	-	TJ16658	•
59		TJ16659	•
60	-	TJ16660	•
61 62		TJ16661	•
63		TJ16662 TJ16663	•
64	1	TJ16664	•
65	1	TJ16665	•
66	1	TJ16666	•
67	Ī	TJ16667	•
68		TJ16668	•
69		TJ16669	•
70		TJ16670	•
71		TJ16671	•
72	75	TJ16672	•
73	75 mm	TJ16673	•
74		TJ16674	•
75		TJ16675	•
76	_	TJ16676	•
77	-	TJ16677	•
78	-	TJ16678	•
79	-	TJ16679	•
80 81	-	TJ16680	_
82		TJ16681	•
83	1	TJ16682 TJ16683	•
84	1	TJ16684	•
85		TJ16685	•
86	İ	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	1	TJ16699	•

Pilot Pin	JETBROACH Cutters
06025 PN : TK01167	JBO 12 - 17 dia.
	Depth 25 mm
08035 PN: TJ15859	<b>JBO 17.5 - 40 dia.</b> Depth 35 mm
06050 PN: TK01166	JBO 12 - 17 dia.
	Depth 50 mm

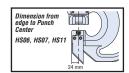








# New design adopted for punching stainless steel. Inching function (manual operation) is available.









#### **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.

Model		HSO	6-1322		HS07-1624			HS11-1624		
Max. Throat Depth	mm	60 70		70		110				
Punching Capacity		for Mild Steel	for Stainless Ste	el fo	or Mild Steel	for Stainl	ess Steel	for Mild Steel	for	Stainless Steel
Max. Punching Thickness	mm	13 6			16	(	3	16		6
Max. Punching Diameter	mm	22 22			24	2	4	24		24
Hole Making Time		Punching <sup>1</sup>	Time 7.9 sec.		Punching Time 11.8 sec.		Punching	Time	11.8 sec.	
Hole Making Time		Returning Time 3.4 sec. Returning Time 5.7 sec.			ec.	Returning Time 5.7 sec.				
Allowable Max. Pressure	MPa (kgf/cm²)	68.65 (700)			68.65 (700)			68.65 (700)		
Max.Output	kN (tf)	367 (37)			464 (47)			464 (47)		
Ram Stroke	mm		21		25			25		
Mass (Weight)	kg	2	20.5		25.5			30		
Standard Accessories		Hose Kit Ass'y: 1 set		t Screw Key : E ner 12 : 1 pc. • Tool Box : 1	Each 1 pc.	Hose Kit Ass'y: 1 set     4 mm / 5 mm Hex. So     Spanner: 1 pc.    Spanner: 1 pc.    Spanner: 1 pc.     Chip Guard Ass'y: 1 s     D Punch / Die 22 mou	cket Scre panner 1: et et • To	ew Key : Each 1 pc. 2 : 1 pc. ool Box : 1 pc.		
Ontional Doute		PN	Part Name	Unit	Model	PN		Part Name	Unit	Model
			Ass'y 5 m	1 set	-	TB02545		rd Ass'y 10 m	1 set	-
Optional Parts			h pressure hose 5 m ord Ass'y 5 m	1 pc. 1 set	HS series	TB02141 TA92729	Foot Switc	,	1 set	HS series
			h pressure hose 10 m	1 pc.	-	TB02142	Hook Clam	- ,	1 set	-

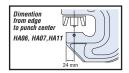


#### **Specifications**

•					
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	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.









**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.

- респисанене										
Model			HA06-1322	HA06-1322 HA07-1624		HA	11-162	24		
Max. Throat Depth	mm		60 70			110				
Punching Capacity			for Mild Steel	for Mild Steel		for	Mild St	eel		
Max. Punching Thickness	mm		13		1	6			16	
Max. Punching Diameter	mm		22		2	4			24	
Hole Making Time			10.5 sec.		16.5	sec.		16.5 sec.		
Allowable Max. Pressure	MPa (kgf/cm²)		68.65 (700)		68.65 (700)		68.65 (700)		0)	
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 : "	Sub Handle Ass'y: 1 set Hose Ord 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		ub Handle Ass'y: 1 set ose Cord Ass'y: 1 set mm Hex. Socket Screw panner: 1 pc. ool box: 1 pc. Punch / Die 22 mounte	,		• 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
Optional Parts		TA96534	Hose Kit Ass'y 5 m	1 set		TA95307		rd Ass'y 10 m	1 set	
		TP05184	Ultra-high pressure hose 5 m	1 pc.	]	TA94386	Foot Switch		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	nn Ass'v	1 set	HA07-1624
		TP05777	Ultra-high pressure hose 10 m	1 pc.				.p.1.00 j	. 501	HA11-1624



#### **Specifications**

Model	SC-05				
Power Source (Single Phase	115 V / 230 V AC				
Max. Output Pressure	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 k	W 4P		
Reservoir Capacity	L	4.0			
Discharge Port		Rc 3/8			
Mass (Weight)	kg	27	7.5		



## 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	Motor Rated Power Consumption W		305	670	670		
MOTOL	Rated Current	Α	1.6	6.0	3.0		
Max. Pu	ınching Diameter	mm	15		19		
Max. Pu	inching Thickness	mm	6	6			
Max. Th	roat Depth	mm	25		55		
Punchin	g Time sec (single	e pass)	4	2			
Power C	Cord	m	2.4	2.4			
Mass (V	Veight)	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. • 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 p.     3 mm Hex. Socket Screw H     4 mm Hex. Socket Screw H     5 mm Hex. Socket Screw H     Stand Ass'y: 1set     Auxiliary Oil: 1 pc.	Key : 1 pc. Key : 1 pc.		
Option	nal Accessory		PN Part Name Sales Unit TB00800 Stand Ass'y 1 set				

#### Selection of Dies

Application	Type of Die	Plate Thick	mess (mm)	Model						
мринсации	Type of Die	Mild Steel	Stainless Steel	Model						
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	A=75~125
100 x 50 t7.5	0	0	0	0	0	0	_	A
125 × 65 t8	0	0	0	0	0	_	_	*
								t=Plate thickness

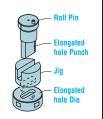
#### Sales Unit : 1 Piece

### **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	Elong	ated hole Jig
PN	Size	PN	Size	PN	Size
TJ13229	D Punch 16 x 8	TJ13238	D Die 16 x 8	TK00455	Jig 16 x 8
TJ13230	D Punch 18 x 9	TJ13239	D Die 18 x 9	TK00456	Jig 18 x 9
TJ13231	D Punch 20 x 10	TJ13240	D Die 20 x 10	TK00457	Jig 20 x 10
TJ13232	D Punch 22 x 11	TJ13241	D Die 22 × 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

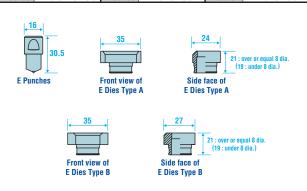
Round	hole D Punch	Round hole D Die		
PN	Size	PN	Size	
TJ10778	D Punch 8	TJ10779	D Die 8	
TJ11088	D Punch 9	TJ11089	D Die 9	
TJ06700	D Punch 10	TJ06701	D Die 10	
TJ06698	D Punch 11	TJ06699	D Die 11	
TJ06696	D Punch 12	TJ06697	D Die 12	
TJ06694	D Punch 13	TJ06695	D Die 13	
TJ06692	D Punch 14	TJ06693	D Die 14	
TJ06611	D Punch 14.5	TJ06612	D Die 14.5	
TJ06690	D Punch 15	TJ06691	D Die 15	
TJ06688	D Punch 16	TJ06689	D Die 16	
TJ06686	D Punch 17	TJ06687	D Die 17	
TJ06609	D Punch 17.5	TJ06610	D Die 17.5	
TJ06684	D Punch 18	TJ06685	D Die 18	
TJ06682	D Punch 19	TJ06683	D Die 19	
TJ06680	D Punch 20	TJ06681	D Die 20	
TJ06607	D Punch 20.5	TJ06608	D Die 20.5	
TJ06678	D Punch 21	TJ06679	D Die 21	
TJ07979	D Punch 21.5	TJ07980	D Die 21.5	
TJ06676	D Punch 22	TJ06677	D Die 22	
TJ06674	D Punch 23	TJ06675	D Die 23	
TJ06566	D Punch 23.5	TJ06569	D Die 23.5	
TJ07748	D Punch 24	TJ07749	D Die 24	•TA99
TJ10061	D Punch 25	TJ10062	D Die 25	requ

#### . . . . .

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	
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	

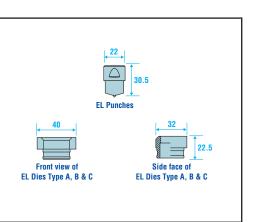
11100 120	E i diloli io	11100200	2 510 1071	THOOTEO	2 510 105
Elongated hole E Punch		Elongated hole E Die (Type A for thin sheets)		Elongated hole E Die (Type B for thick sheets)	
PN	Size	PN	Size	PN	Size
TK00126	E Punch 10 x 5	TK00127	E Die 10 x 5A	TK00128	E Die 10 x 5B
TK00158	E Punch 10 × 6.5	TK00159	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	E Punch 13 x 6.5	TK00153	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
	<u> </u>		<u> </u>		



#### FOR E55-0619

Elongated hole E Punch			ted hole E Die 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	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 × 12B
TK00251	EL Punch 19.5 x 13	TK00263	EL Die 19.5 x 13A	TK00275	EL Die 19.5 x 13B
TK00252	EL Punch 20 x 10	TK00264	EL Die 20 x 10A	TK00276	EL Die 20 x 10B
TK00253	EL Punch 21 x 14	TK00265	EL Die 21 x 14A	TK00277	EL Die 21 x 14B

11(00200	LL I UIIGII Z I A 14	1100200	LL DIG Z I A 14A	1100211	LL DIG Z I A 14D		
Round hole EL Punch (Type A for thin sheets)		Round hole EL Die (Type B for thick sheets)		Round hole EL Die (Type C for channel iron)			
PN	Size	PN	Size	PN	Size	PN	Size
TK00193	EL Punch 6	TK00208	EL Die 6A	TK00222	EL Die 6B	-	_
TK00194	EL Punch 6.5	TK00209	EL Die 6.5A	TK00223	EL Die 6.5B	_	_
TK00195	EL Punch 8	TK00210	EL Die 8A	TK00224	EL Die 8B		_
TK00196	EL Punch 8.5	TK00211	EL Die 8.5A	TK00225	EL Die 8.5B	-	_
TK00197	EL Punch 10	TK00212	EL Die 10A	TK00226	EL Die 10B	TK00235	EL Die 10C
TK00198	EL Punch 11	TK00213	EL Die 11A	TK00227	EL Die 11B	TK00236	EL Die 11C
TK00199	EL Punch 12	TK00214	EL Die 12A	TK00228	EL Die 12B	TK00237	EL Die 12C
TK00200	EL Punch 13	TK00215	EL Die 13A	TK00229	EL Die 13B	TK00238	EL Die 13C
TK00201	EL Punch 14	TK00216	EL Die 14A	TK00230	EL Die 14B	TK00239	EL Die 14C
TK00202	EL Punch 15	TK00217	EL Die 15A	TK00231	EL Die 15B	TK00240	EL Die 15C
TK00203	EL Punch 16	TK00218	EL Die 16A	TK00232	EL Die 16B	TK00241	EL Die 16C
TK00204	EL Punch 17	TK00219	EL Die 17A	TK00233	EL Die 17B	_	_
TK00205	EL Punch 18	TK00220	EL Die 18A	TK00234	EL Die 18B	_	_
TK00278	EL Punch 18.5	TK00279	EL Die 18.5A	TK00280	EL Die 18.5B	ı	_
TK00180	EL Punch 19	TK00181	EL Die 19A	TK00182	EL Die 19B	_	_
							·





# Compact portable models meet your versatile chamfering jobs







Dust box collects swarf and chips

effectively



An optional inner head ass'y allows

chamfering a pipe of inner diameter larger than 100 mm (50R)



#### **Specifications**

Model (Electric Tool)	Model (Electric Tool)		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	Continuous		Continuous	30	30
No-load Speed	min <sup>-1</sup> (rpm)	3,340	2,750	11,000	11,000	11,000
Chamfering Capacity	Mild Steel	OC - 15C (7C per chamfering)		0C - 7C, 2R, 3R, 4R	0C - 3C, 2R, 3R	0C - 3C, *2R, *3R
Citatiliering 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	15		3.9	2.5	2.5
• 4/5/6 mm Hex. Socket Screw Key: each 1 pc. • Spanner 24 × 27 : 1 pc. • Hook spanner 25-28 : 1 pc. • 3 mm 1 Wrench Key: 1 pc. • 1784093 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 25-7 with 50 = 1 pc.  Hex Nut M8: 2 pcs.  8 × 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 × 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.



Chamfering range of operation



CB-02





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	m³/min	0.9	0.4
No-load Speed	min <sup>-1</sup> (rpm)	14,000	13,000
Chamfaring Canacity	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 4 mm Hex. Socket Screw Key: each 1 pc.     Spanner T-15F: 1 pc.     Hex Nut M8: 2 pcs.     **Nex Nut M8: 2 pcs.**      **S x 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.      Hook Spanner 58-65 : 1 pc.

Optional

Uptivilai					
	PN	Description	Sales Unit	Application model	Remarks
REBERG	TA9A093	Indexable Insert 12.7 Ass'y	12 pcs./set	HB-15B	
	TB01159	Indexable Insert 12.7 with hole Ass'y	10 pcs./set	EMB-0307B, AMB-0307, AMBL-0307, ECB-0203	
100	TB01791	Indexable Insert 12.7 Ass'y R2	10 pcs./set	EMB-0307B, AMB-0307, AMBL-0307, ECB-0203	
Mary a large	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	
Man or or Man	TA9A592	Indexable Insert 9.525 Ass'y R2	10 pcs./set	MB-03A, CB-02	
Maria .	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.
43	TA9A594	Inner head Ass'y	1 set	MB-03A	For min. 100 mm dia.
0	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

# **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

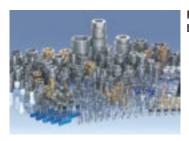
MEDO pumps are unique products featuring a Linear-motor-driven Free Piston System. NITTO KOHKI has made available a complete series of air compressors and suction pumps that incorporate this revolutionary mechanism.

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.



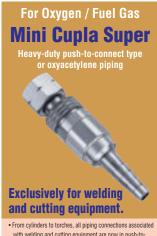
		Plug		
For hose co	nnection	40PH	For 1/2" hose	
17PH	For 1/4" hose	400PH	For 1/2" hose	-
20PH	For 1/4" hose	600PH	For 3/4" hose	
30PH	For 3/8" hose	800PH	For 1" hose	
For female	thread connection	40PM	For Rc 1/2"	_
10PM	For Rc 1/8"	400PM	For Rc 1/2"	The last live
20PM	For Rc 1/4"	600PM	For Rc 3/4"	
30PM	For Rc 3/8"	800PM	For Rc 1"	
For male th	read connection			
20PF	For R 1/4"	400PF	For R 1/2"	200
30PF	For R 3/8"	600PF	For R 3/4"	
40PF	For R 1/2"	800PF	For R 1"	
For male th	read connection ( <sub>[</sub>	parallel threa	d)	
20PFF	For G 1/4"			The Park Street

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
The state of the s	17SH	For 1/4" hose	400SH	For 1/2" hose
Street, Square, Square	20SH	For 1/4" hose	600SH	For 3/4" hose
	30SH	For 3/8" hose	800SH	For 1" hose
	For female t	thread connection	40SM	For Rc 1/2"
	10SM	For Rc 1/8"	400SM	For Rc 1/2"
Section 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				
	200-17SH	For 1/4" hose	200-40SH	For 1/2" hose	
	200-20SH	For 1/4" hose			
	200-30SH	For 3/8" hose			
_	For female	thread connection			
- Chronic I	200-20SM	For Rc 1/4"			
	200-30SM	For Rc 3/8"			
	200-40SM	For Rc 1/2"			
_	For male th	read connection			
- Marriage	200-20SF	For R 1/4"			
	200-30SF	For R 3/8"			
	200-40SF	For R 1/2"			

Socket



- From cylinders to torches, all piping connections associated with welding and cutting equipment are now in push-to-
- connect configurations.

   Chrome-plated body for better corrosion resistance.
- 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

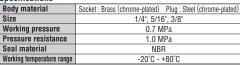
		Plug	P		
PH type (Hos	e barb)				
S22PH	For Oxygen	For 1/4", 5/16"			
S33PH	For Fuel Gas	For 5/16", 3/8"			
S32PH*	For Fuel Gas	For 1/4", 5/16"			
PH type (Hos	e barb of smal				
S225PH	For Oxygen	For 5 mm ID			
S335PH	For Fuel Gas	For 5 mm ID			
			_		
		torch connection)			
S22PF	For Oxygen	For oxygen 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			
(a) -		"			
PN type (Nut S22PN		diameter hose)			
	For Oxygen				
S33PN	For Fuel Gas	For 5 mm ID			
			_		

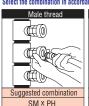
	SH type (Hos	e barb)			
	S22SH	For Oxygen	For 1/4" , 5/16"	-	
	S33SH	For Fuel Gas	For 5/16" , 3/8"	100 to 10	
	S32SH*	For Fuel Gas	For 1/4", 5/16"		
	SH type (Hos				
	S225SH	For Oxygen	For 5 mm ID		
	S335SH	For Fuel Gas	For 5 mm ID		
				Miles Company	
1	SF type (Fem				
	S22SF	For Oxygen	For oxygen gauge side		
	S33SF				
	S23SF*				
	S33SF*	For Fuel Gas	For fuel gas gauge side	1	
	SM type (Ma	le thread)			
	S22SM	For Oxygen For Rc 1/4			
	S33SM	For Fuel Gas	For Rc 3/8		
	SN type (Nut				
	S22SN	For Oxygen	For 5 mm ID		
	S33SN	For Fuel Gas	For 5 mm ID		
		1	I	I	

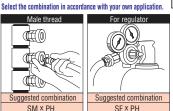
#### **Specifications**

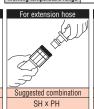
\*Made-to-order item.

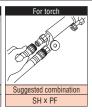
• Available hose sizes are ø5 mm x ø11.2 mm, ø5 mm x ø11.5 mm and ø5 mm x ø11.8 mm.













# Technologies that Respond to the Needs of the Times



#### Overseas Affiliates / Offices

NITTO KOHKI U.S.A., INC.

TEL:+1-630-924-9393 FAX:+1-630-924-0303

NITTO KOHKI EUROPE CO., LTD.

TEL:+44-1-923-239668 FAX:+44-1-923-248815

NITTO KOHKI DEUTSCHLAND GMBH

TEL:+49-7-157-22436 FAX:+49-7-157-22437

NITTO KOHKI AUSTRALIA PTY LTD

TEL:+61-7-3340-4600 FAX:+61-73340-4640

NITTO KOHKI (SHANGHAI) CO., LTD.

TEL:+86-21-6415-3935 FAX:+86-21-6472-6957

NITTO KOHKI (SHANGHAI) CO., LTD. SHENZHEN BRANCH

TEL:+86-755-8375-2185 FAX:+86-755-8375-2187

NITTO KOHKI CO., LTD. SINGAPORE BRANCH

TEL:+65-6227-5360 FAX:+65-6227-0192

NITTO KOHKI CO., LTD.,

BANGKOK REPRESENTATIVE OFFICE

TEL:+66-2-632-0307 FAX:+66-2-632-0308

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



#### **Head Office**

9-4, Nakaikegami 2-chome, Ohta-ku, Tokyo 146-8555 Japan Phone: +81-3-3755-1111 Fax: +81-3-3753-8791

▶ URL : www.nitto-kohki.co.jp/e ▶ E-mail : overseas@nitto-kohki.co.jp

DISTRIBUTED BY