

Power Tools & Machine Tools

General Catalog















Product Line

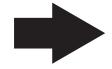
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Nitto Kohki has made every effort in developing "Environmental Improvement Plans" through the implementation of ISO14001, to execute environmentally conscious business activities on a company-wide basis. As a part of our ongoing commitment to the environment,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

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









You can also view this on your smartphone or tablet.

www.youtube.com/c/NittoKohkiGLOBAL

High-End Features of ATRA ACE Drilling Machines

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

Ref. No.	Features	QA-4000	QA-6500	WA-3500	WA-5000	W0J-3200	A0-5575A	L0-3550	CLA-2720	ARA-100A
1	Auto-feed		•	•	•	_	_	_	_	_
2	Slow Start Mechanism		•	•	•	_	_	_	_	_
3	Step Feed	•	•	_	_	_	_	_	_	_
4	Variable Automatic Feed			•		_	_	_	_	_
5	Load Sensor		•	•		_	_	_	_	_
6	Magnet Open-circuit Sensor			•		•	•		•	•
7	Fail-safe Restart		•	•		•	•		•	•
8	Built-in Motion Sensor		•	•	•	_	•	_	•	•
9	Overload Stop		•	•	•	•	•	•	•	•
10	Cycle Stop		•	•	•	_	_	_	_	_
11	Unique Battery Conservation	_	_	_	_	_	_	_	•	_
12	One-touch Cutter Replacement		•	•	•	•	•	•	•	•

- **1.** Automatic control & feed are activated by simply pushing the feed handle to engage the clutch.
- 2. The feed speed is reduced for the first few seconds after boring begins to ensure a smooth cut through the mill scale.
- 3. When the cutter has become dull or it cuts through difficult materials, the load sensor will automatically activate the Step Feed Program to help penetrate material. When working on deep holes or large diameter holes, the Step Program will also help to reduce swarf build up around the cutter as the waste material will break off with each Step cycle.
- **4.** The feed speed is continuously monitored and updated proportionally to the load on the cutter.
- 5. QA-4000/QA-6500: The sensing system responds to driling forces on the cutter for the optimum cutting condition.

WA-3500/ WA-5000: The dual sensing system responds to both drilling and feeding forces on the cutter for the optimum cutting condition.

- **6.** The drill will not start until the magnetic field is active.
- **7.** QA-4000/QA-6500/WA-3500/WA-5000/WOJ-3200/AO-5575A/LO-3550/ARA-100A: The drill will not re-start even if power is re-supplied after accidental shutdown. Drilling can only be continued after turning on the drill switch.

CLA-2720: If the battery pack is replaced/removed whilst both the magnet and the drill motor switch are in the on position, the drill will not operate until both switches are reset.

8. QA-4000/QA-6500/WA-3500/WA-5000: If any lateral movement or excess vibration is detected, both the drill and the feed motor stop.

AO-5575A/CLA-2720/ARA-100A: If any lateral movement or excess vibration is detected, the drill motor stops.

9. QA-4000/QA-6500/WA-3500/WA-5000: When an excessive load is applied to the cutter, both the drill and the feed motor will stop automatically.

WOJ-3200/A0-5575A/L0-3550/CLA-2720/ARA-100A: When an excessive load is applied to the cutter, the drill motor will stop automatically.

10. QA-4000/QA-6500: After the cut has finished, a detector responds to the reduction in load, the drill retracts quickly and then both the drill and feed motor automatically stop.

WA-3500/WA-5000: After the cut has finished, a detector responds to the reduction in load and both the drill and the feed motor automatically stop.

- 11. While the drill motor is running, if no load is applied within 10 seconds, the drill will stop automatically to save the battery.
- 12. Replacement is quick and easy with our unique push fit self-centering cutter system.

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

ATRA ACE Specifications









CLA-2720

LO-3550

WA-3500

WA-5000

	Specifications			V								-101	
	Model Power Source (Single Phase)		CLA-	2720	L0-3550	WA-	3500		WA-5	5000			
			Batt (18 V		220 - 240 V AC, 50/60 Hz	110 - 120 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz		20 V AC, 60 Hz	220 - 24 50/6			
	(Single Phase) Rated Power Consumption W Rated Current A		-	-	800	11	00		11!	50			
	Ele	Rated Currer	nt A	-	-	3.3	10.2	5.1	10	0.8	5.	.4	
		No-load Spec	ed min ⁻¹ (rpm)	43	30	950	95	50		350 /	650		
	Ma	gnet Power (Consumption W	1	8	35	3	4		7	5		
		Max. Hole Di	ameter _{mm}	2	7	35	3	5		50	0		
		Max. Plate TI	hickness mm	2	0	50	5	0		7	5		
7		One-touch Type	Hole Diameter mm	12 to 17	17.5 to 27	12 to 35	17.5	to 35	12 to 17	17.5 to 40	12 to 50	17.5 to 50	
		JETBROACH	Plate Thickness mm	6 to 12	6 to 20	6 to 50	9 to	50	9 to 25	9 to 35	9 to 50	9 to 75	
	Hole Capacity	Side-lock Type	Hole Diameter mm	-	-	-	-	-		-			
į	Hole	JETBROACH	Plate Thickness mm	-	-	-	-	-		-			
i		One-touch Type	Hole Diameter mm	12 to 15	16 to 27	-	14 to	o 35		14 to	50		
		HI-BROACH	Plate Thickness mm	6 to 12	6 to 20	-	9 to	25		9 to	50		
		Twist Drill	Hole Diameter mm	-	-	-	-	-		-			
	Ma	ıx. Stroke	mm	6	0	80	8	3		10	17		
	Ma	gnet Holding	Power N(kgf)	5500	(561)	5500 (561)	7056	(720)		9800 (1000)		
	l	gnet Dimens		65 x	126	65 x 145	92 x	213		101 x	201		
		erall dimensingth) x (width) x		199 x 15	51 x 290	339 x 112 x 316	409 x 23	37 x 530		425 x 23	37 x 604		
	Po	wer Cord Len	igth m	-	-	3	3	3		3	1		
	Mass (Weight) kg		7	7	8.7	2	0		2	3			
	Fe	eding		Mar	nual	Manual	Autor	matic		Autor	matic		
	Pa			7		9	1			1			
	*Th	a baight is the dima	ncion from the curface of	the worknings to t	he highest part of	the machine when	the tip of the Dilet [lin ic touching the	worknings with the	cuttor of the machi	no'c mayimum can	acity attached	

^{*}The height is the dimension from the surface of the workpiece to the highest part of the machine when the tip of the Pilot Pin is touching the workpiece with the cutter of the machine's maximum capacity attached.

ATRA ACE Specifications







WOJ-3200

AO-5575A

QA-4000

QA-6500

ARA-100A

WOJ-	-3200	A0-5	575A	QA-4	4000	QA-6500	ARA-100A
110 - 120 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz		110 - 120 V AC, 50/60 Hz 220 - 240 V AC, 50/60 Hz		220 - 240 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz
9!	50	95	50	68	30	1010	1800
8.6	4.3	4.	.3	6.1	3.0	4.5	8.2
8.	70	52	20	7!	50	400/750	110 - 210 /330 - 660
38	30	5	0	5	0	75	80
3	2	5	5	4	0	65	100
5	60	7	5	3	5	50	75
12 t	o 32	12 to 17	17.5 to 55	17.5	to 40	17.5 to 65	17.5 to 50
9 to	50	9 to 50	9 to 75	9 to	35	9 to 50	13 to 75
	-	-	-	-		-	50 to 100
	-	-	-	-	-	-	13 to 75
	-	12 to	o 50	14 to 15	16 to 18	18 to 35	17.5 to 35
	-	9 tc	50	9 to 12 9 to 25		9 to 25	13 to 50
Max	c. 13	-	-	-		-	Max. 32
1:	30	10	05	7	5	88	296
9000	(918)	10000	(1020)	6664	(680)	9800 (1000)	17000 (1733)
99 x	177	86 x	170	82 x	100 x 200	110 x 220	
318 x 196 x 420 432 x 197 x 493		407 x 2°	15 x 424	455 x 215 x 534	570 x 274 x 623		
3 3		4	5	5	5		
13 17.5		18	3.5	26	30		
Manual Manual		nual	Automatic		Automatic	Manual	
1	3	1	3	1	5	15	5
1							

Portable Magnetic Base Drilling Machine

ATRA ACE manual feed

Model ARA-100A €€

• Max. 100 mm dia. x 75 mm deep

The versatile drilling machine with top-class power

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



Specifi	catio	ns				
Model				ARA-100A		
Power So	urce (S	Single Phase)		220 - 240 V AC, 50/60 Hz		
Electric	Rated	Power Consumption	ı W	1800		
Drill	Rated	Current	А	8	.2	
	No-lo	ad Speed r	min ⁻¹ (rpm)	110 - 210 / 330 - 660		
	Morse	Taper No.		M	T3	
	Rated	Duty	min	3	30	
Magnet P	ower C	onsumption	W	3	30	
Hole	Cutte	r		Hole Diameter	Plate Thickness	
Capacity	One-t	ouch Type JETBROA	CH 35L	17.5 to 40	13 to 35	
mm	One-t	ouch Type JETBROA	CH 50L	17.5 to 50	13 to 50	
	One-t	ouch Type JETBROA	CH 75L	17.5 to 50	13 to 75	
	JETBI	ROACH 75L		50 to 100	13 to 75	
	One-t	ouch Type HI-BROAC	H 25L	17.5 to 35	13 to 25	
	One-t	ouch Type HI-BROAC	H 50L	18 to 35	13 to 50	
	Twist	Drill		Max. 32	mm dia.	
Max. Stro	ke		mm	2	96	
Magnet H			N(kgf)	17000	(1733)	
Magnet Dimensions mm		mm	110	x 220		
Cutter Position Straight Front to Back mm		20				
Adjustment Swivel angle			30°			
Power Cord Length m			5			
Mass (We	ight)		kg	3	30	

Accessories Included

- Pilot Pin 12075
- Side Handle
- 2.5 mm Hex. Socket Screw Key
- 5 mm Hex. Socket Screw Key
- 6 mm Hex. Socket Screw Key • 8 mm Hex. Socket Screw Key
- Drill Drift

- 7 x 8 mm Spanner
- · Safety Chain
- Guard
- Oil Tank
 Oil Tank
- Oil Tank Bracket

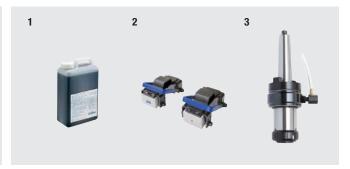
 Rod Handle
- Holder MT03075 Side Lock

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

Slow Starting Function

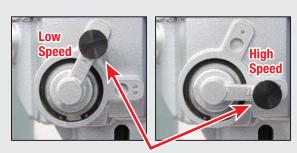
Slow speed at the beginning of boring will securely set a hole cutting position.



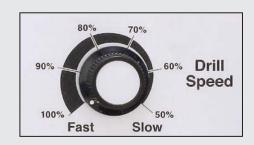


Two speed electric drill with speed adjustment

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



Shift Lever



Load Indication and LED Condition

Load Indication

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

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

Automatic Stop Function

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

Built-in Motion Sensor

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

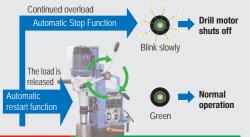


Blinking red

Automatic Restart Function

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





Fail-safe Restart

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

Magnet Open-circuit Sensor

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



Red

Features

Reversible Feed Handles



Feed handles can be positioned on the right or left hand side for ease of drilling.

When changing the feed handle position, oil tank is required to be positioned opposite to the feed handles.

Drilling Position Adjustment



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

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



Mounting the cutter

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



Removing the cutter

Turn the sleeve counterclockwise. The cutter will come off.



Available in the market

Twist Drill Bit Morse taper sleeve MT3 MT3

MT3 Morse taper shank drill bit can be directly installed.

Use Morse taper sleeve MT3 for other sizes than MT3

Drill chuck Arbor MT3 Straight **Drill Bit** Drill Chuck

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

Portable Magnetic Base Drilling Machine

ATRA ACE manual feed

Model CLA-2720 C€

• Max. 27 mm dia. x 20 mm deep



powered by a rechargeable lithium-ion battery. • Weighs only 7 kg with battery installed · Compact size allows drilling in tight spots

Compact and cordless operation,



290 mm

Model				CLA-2720			
Voltage			18 V DC				
Battery Pa	ack (Li	thium-ion Battery)	NBL18006 (18V 4.0 Ah)			
No-load S	peed	min ⁻¹	(rpm)	43	30		
Hole	Cutte	r		Hole Diameter	Plate Thickness		
Capacity	One-t	ouch Type JETBROACH 2	25L	12 to 17	6 to 12		
mm	One-t	ouch Type JETBROACH 3	35L	17.5 to 27	6 to 20		
	One-t	ouch Type HI-BROACH 2	25L	12 to 15	6 to 12		
				16 to 27	6 to 20		
Magnet H	olding	Power	V(kgf)	5500	5500 (561)		
Magnet D	imensi	ons	mm	65 x	126		
Cutter Pos	sition	Pivot Side to Side	mm	1	10		
Adjustment Straight Front to Back mm		10					
Mass (Weight) kg			7*				
				*Including Battery Pac	k and Feed Handle		

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

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

Accessories Included

- · Carry Case
- Cutting Oil 0.5L
- Oiler No.3013
- Tube 4 x 7 mm, 1 m Long
- Handle
- Battery Charger
- · 2 pieces of Battery Pack 18V NBL18006

- 3 mm Hex. Socket Screw Key
- 4 mm Hex. Socket Screw Key
- Hex. Socket Head Cap Screw 5 x 12 · Hex. Socket Head Set Screw 8 x 28
- Spanner 8 x 10
- Guard
- · Safety Strap

TOP-LEVEL SAFETY

Highly Sensitive Sensor Equipped

199 mm

Side slip and inclination detected by a built-in sensor

Self-check Function

The machine checks for faults itself

Highly Advanced Energy-Saving

Magnetic Force Control Function

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

Soft Start Function

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

Automatic Drill Stop and Warning Function

Unnecessary operations are eliminated.



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

Optional Accessories Ref. No. PN Description Sales Unit TB01507 Cutting Oil 2L TB09657 Oil Tank Ass'y TB04374 Supporting Magnet Ass'y 3 TB07696 Pipe Attachment Ass'y 1 piece TB09824 Battery Pack 18 V 5 TB09825 Battery Charger TQ14333 Guard One-touch Type JETBROACH 25L, 35L One-touch Type HI-BROACH 25L



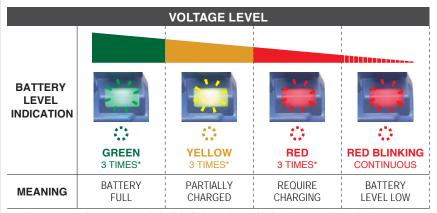
Reversible Feed Handle

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



CLA-2720 LED Indication Light Safety Features

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





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

ELECTRIC CURRENT OF THE ELECTRIC DRILL Efficient Load Caution **MOTOR** LOAD **INDICATION GREEN YELLOW RED RED BLINKING** WHITE BLINKING MOTOR STOPPED **MEANING** LIGHT LOAD MEDIUM LOAD **OVERLOAD** BY OVERLOAD

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

SLIDE SLIP DETECTION



When a slide slip is detected, the blue light will flash and the Motor will stop automatically.



"NO LOAD" DETECTION



While the electric drill is running, if no load is applied for 7 seconds, the green light will flash. After another 3 seconds without load, the electric drill will be stopped automatically.



MOTOR NOT ACTIVATED IN TIME GREEN
BLINKING

After the Magnet switch is turned on, if the Motor switch is not turned on within 10 seconds, the green light will flash.

Chip Breaker

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



Powered by Lithium-ion Battery

Using the Lithium-ion battery it takes about 90 minutes for a full charge.

Sufficient charge (95%) can be achieved in just 45 minutes.





Drilling Position Adjustment

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



Portable Magnetic Base Drilling Machine

ATRA ACE manual feed

Model **LO-3550 C€**

• Max. 35 mm dia. x 50 mm deep

Chip Breaker



Compact, light weight, low profile design gives you greater hole making mobility

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

Model				LO-3550			
Power So	urce (S	Single Phase)	220 - 240 V	AC, 50/60 Hz			
Electric	Electric Rated Power Consumption W			80	00		
Drill	Rated	Current	Α	3	.3		
	No-lo	ad Speed min	⁻¹ (rpm)	9!	50		
Hole	Cutte	r		Hole Diameter	Plate Thickness		
Capacity	One-touch Type JETBROACH 25L			12 to 17	6 to 25		
mm	One-t	ouch Type JETBROACH	35L	17.5 to 35	6 to 35		
	One-touch Type JETBROACH 50L			12 to 35	6 to 50		
Magnet H	olding	Power	N(kgf)	5500	5500 (561)		
Magnet D	imensi	ons	mm	65 x	145		
Cutter Pos	sition	Pivot Side to Side	mm	1	0		
Adjustment Straight Front to Back mm			mm	10			
Power Cord Length m				3			
Mass (Weight) kg				8.7*			
				*Evoluding Dowo	r Cord and Sub Han		

*Excluding Power Cord and Sub Handle

Accessories Included

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

S) MITTO KOHKI		Optional A	Accessories	
		Ref. No.	PN	Description
	1	1	TB01507	Cutting Oil 2L
	//	2	TQ10581	Oiler No.3013
	(3)	3	TB01098	Tube 4 x 7 x 3000 Ass'y
TV TV		4	TB07306	Lubrication Adapter Ass'y
0	This chip breaker prevents the cutter	5	TB04374	Supporting Magnet Ass'y
	from becoming jammed with metal shavings.	6	TB07696	Pipe Attachment Ass'y
	3	*50L for sta	acked plates	One-touch Type JETBROACH 2

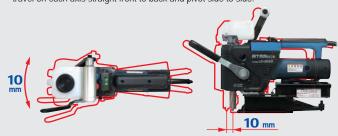
Optional <i>I</i>	Accessories		
Ref. No.	PN	Description	Sales Unit
1	TB01507	Cutting Oil 2L	
2	TQ10581	Oiler No.3013	
3	TB01098	Tube 4 x 7 x 3000 Ass'y	
4	TB07306	Lubrication Adapter Ass'y	1 piece
5	TB04374	Supporting Magnet Ass'y	
6 TB07696		Pipe Attachment Ass'y	
*50L for sta	acked plates	One-touch Type JETBROACH 25L, 35L, 50L	





Easy Drilling Position Adjustment

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



Adjustable Feed Handle

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



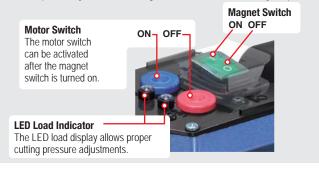
Light Handle Operation

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



Easy-to-use Switch Panel

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



Reversible Feed Handle

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



A Carrying Case Is Provided

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



Optional Accessories for ATRA ACE

Pipe Attachment Ass'y

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

Example of installation on a pipe



Applicable Models when a 35 mm or 50 mm length one touch type JETBROACH CUTTER is used: CLA-2720, WOJ-3200, LO-3550, WA-3500, and QA-4000

Supporting Magnet Ass'y

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



Applicable Models:

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

Portable Magnetic Base Drilling Machine

ATRA ACE auto

Model **WA-3500 C€**

• Max. 35 mm dia. x 50 mm deep

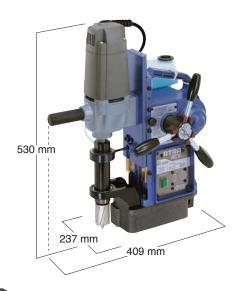
High-performance feed system & high-tech components

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

Model **WA-5000 €**

• Max. 50 mm dia. x 75 mm deep







Specifi	cations					
Model		WA-	3500	WA-	5000	
Power So	urce (Single Phase)	110 - 120 V AC, 50/60 HZ	220 - 240 V AC, 50/60 Hz	110 - 120 V AC, 50/60 HZ	220 - 240 V AC, 50/60 Hz	
Electric	Rated Power Consumption W	1100		11	150	
Drill	Rated Current A	10.2	5.1	10.8	5.4	
	No-load Speed min ⁻¹ (rpm)	9!	50	350	/ 650	
Magnet P	ower Consumption W	3	4	-	75	
Hole	Cutter	Hole Diameter	Plate Thickness	Hole Diameter	Plate Thickness	
Capacity	One-touch Type JETBROACH 25L	-	-	12 to 17	9 to 25	
mm	One-touch Type JETBROACH 35L	17.5 to 35	9 to 35	17.5 to 40	9 to 35	
	One-touch Type JETBROACH 50L	17.5 to 35	9 to 50	12 to 50	9 to 50	
	One-touch Type JETBROACH 75L	-	-	17.5 to 50	9 to 75	
	One-touch Type HI-BROACH 25L	14 to 35	9 to 25	14 to 50	9 to 25	
	One-touch Type HI-BROACH 50L	-	-	14 to 50	9 to 50	
Max. Stro	ke mm	8	3	107		
Magnet H	olding Power N(kgf)	7056	(720)	9800	(1000)	
Magnet D	imensions mm	92 x	213	101	x 201	
Power Co	rd Length m		3		3	
Mass (We	kg	2	0	2	23	
Accessories Included			ex. Socket Screw Key Im Spanner	Carry Case Cutting Oil 0.5L Pilot Pin 08050 Side Handle 3 mm Hex. Socket Screw Key	• 4 mm Hex. Socket Screw Key • 8 x 10 mm Spanner • Guard • Chain • Chip Breaker	

Optional A	ccessories					
Def No	DN	Donovintion.	Colon Umit	Applicable Model		
Ref. No.	PN	Description	Sales Unit	WA-3500	WA-5000	
1	TB05186	Chip Breaker Ass'y	1 piece			
2	TB01507	Cutting Oil 2L	1 piece			
3	TB04374	Supporting Magnet Ass'y	1 piece		•	
4	TB02536	Sleeve 6.5 for Triangle Shank Drill Bit	1 piece			
5	TB07696	Pipe Attachment Ass'y	1 piece			
		One-touch Type JETBROACH 25L	1 piece		•	
		One-touch Type JETBROACH 35L	1 piece		•	
		One-touch Type JETBROACH 50L	1 piece			
		One-touch Type JETBROACH 75L	1 piece		•	
		One-touch Type HI-BROACH 25L	1 piece			
		One-touch Type HI-BROACH 50L	1 piece			



One-touch Cutter Replacement

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





Removing the cutter

Coolant into the Heart of the Cut

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



Improved Bearing Bracket

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



Fail-Safe Protection

Built-in Motion Sensor

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

Fail-safe Restart

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

Magnet Open-circuit Sensor

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

Chip Breaker

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

- Standard accessory for the WA-5000
- Optional accessory for the WA-3500



Two Speed Selection (WA-5000)

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





New drill control prevents cutters from breaking

Slow Start Mechanism

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

Auto-feed

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

Auto-feed on

Rod handle

Load Sensor

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

Variable Automatic Feed

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

Cycle Stop

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

Overload Stop

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









Portable Magnetic Base Drilling Machine

ATRA ACE manual feed

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

Advanced safety system

Model WOJ-3200 C€

• Max. 32 mm dia. x 50 mm deep



• Max. 55 mm dia. x 75 mm deep





Specifi	cations						
Model			WOJ	-3200	AO)-5575A	
Power So	urce (Single Phase)		110 - 120 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz		
Electric	Rated Power Consum	nption W	9	250		950	
Drill	Rated Current	А	8.6	4.3		4.3	
	No-load Speed	min ⁻¹ (rpm)	8	370		520	
Magnet P	ower Consumption	W	38	30		50	
Hole	Cutter		Hole Diameter	Plate Thickness	Hole Diameter	Plate Thickness	
Capacity	One-touch Type JETB	ROACH 25L	12 to 17	9 to 25	12 to 17	9 to 25	
mm	One-touch Type JETB	ROACH 35L	17.5 to 32	9 to 35	17.5 to 40	9 to 35	
	One-touch Type JETB	ROACH 50L	12 to 32	9 to 50	12 to 55	9 to 50	
	One-touch Type JETB	ROACH 75L	=	-	17.5 to 55	9 to 75	
	One-touch Type HI-BI	ROACH 25L	-	-	12 to 50	9 to 25	
	One-touch Type HI-BI	ROACH 50L	=	-	12 to 50	9 to 50	
	Twist Drill		Max. 13	3 mm dia.		-	
Max. Stro	ke	mm	1	30		105	
Magnet H	olding Power	N(kgf)	9000	(918)	100	000 (1020)	
Magnet D	imensions	mm	99:	x 177	3	36 x 170	
Power Co	rd Length	m		3		3	
Mass (We	eight)	kg		13		17.5	
Accessor	ies Included		Carry Case Oil Tank Pilot Pin 08035 Sub Handle 2 pieces of Hex. Socket Head Bolt 5 x 10 mm 3 pieces of Rod Handle	• 3 mm Hex. Socket Screw Key • 4 mm Hex. Socket Screw Key • 6 mm Hex. Socket Screw Key • 8 x 10 mm Spanner • Guard • Safety Strap	Carry Case Cutting Oil 0.5L Pilot Pin 08050 Side Handle 3 mm Hex. Socket Screw Key	• 5 mm Hex. Socket Screw Key • 8 x 10 mm Spanner • Guard • Chain	

Def Ne	DN	Description	Colon Heid	Applicab	le Model
Ref. No.	PN	Description	Sales Unit	W0J-3200	A0-5575A
1	TB07691	Chip Breaker Ass'y	1 piece	•	
2	TB07474	Chip Breaker Ass'y	1 piece		•
3	TQ10581	Oiler No.3013	1 piece	•	
4	TB01098	Tube 4 x 7 x 3000 Ass'y	1 piece	•	
5	TB01507	Cutting Oil 2L	1 piece	•	
6	TB07696	Pipe Attachment Ass'y	1 piece	•	
7	TB04374	Supporting Magnet Ass'y	1 piece	•	
8	TB07690	One-touch Drill Adapter	1 piece	•	
9	TB02536	Sleeve 6.5 for Triangle Shank Drill Bit	1 piece		
		One-touch Type JETBROACH 25L	1 piece	•	
		One-touch Type JETBROACH 35L	1 piece	•	
		One-touch Type JETBROACH 50L	1 piece	•	
		One-touch Type JETBROACH 75L	1 piece		•
		One-touch Type HI-BROACH 25L	1 piece		
*50L for	stacked plates	One-touch Type HI-BROACH 50L	1 piece		•



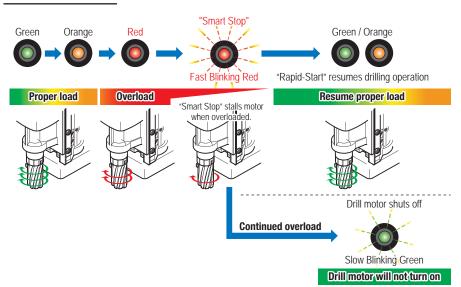
Load Detector with "Smart-Stop/Rapid-Restart" Technology

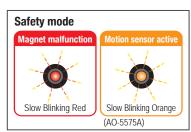
The innovative feature of manual feed ATRA ACE, "Smart-Stop / Rapid-Restart" technology for WOJ-3200 / AO-5575A

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

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

LED load indicator







LED load indicator

One-Touch Cutter Replacement

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





Reversible Feed Handle

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



Chip Breaker (Optional)

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



WOJ-3200

AO-5575A

Body Height Adjustment (WOJ-3200)

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





One-Touch Drill Adapter (WOJ-3200)

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



*Twist drills are not provided with the one-touch drill adapter.

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



Portable Magnetic Base Drilling Machine

ATRA ACE quick auto

Model QA-4000 Non-CE

• Max. 40 mm dia. x 35 mm deep

Fully automatic drilling for increased productivity and reduced cost

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

Model QA-6500 Non-CE

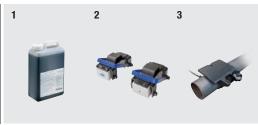
• Max. 65 mm dia. x 50 mm deep





Specifi	cations					
Model			QA-	-4000	QA	-6500
Power So	urce (Single Phase)		110 - 120 V AC, 50/60 HZ	220 - 240 V AC, 50/60 Hz	220 - 240 V	AC, 50/60 Hz
Electric	Rated Power Consump	tion W	(580	1	010
Drill	Rated Current	Α	6.1	3.0		4.5
	No-load Speed	min ⁻¹ (rpm)	-	750	400) / 750
Magnet P	ower Consumption	W		50		75
Hole	Cutter		Hole Diameter	Plate Thickness	Hole Diameter	Plate Thickness
Capacity	One-touch Type JETBR	OACH 35L	17.5 to 40	9 to 35	17.5 to 40	9 to 35
mm	One-touch Type JETBR	OACH 50L	-	-	17.5 to 65	9 to 50
	One-touch Type HI-BRO	DACH 25L	14 to 15	9 to 12	101.05	0.1.05
			16 to 18	9 to 25	18 to 35	9 to 25
Max. Stro	ke	mm		75		88
Magnet H	olding Power	N(kgf)	666	4 (680)	9800	(1000)
Magnet D	imensions	mm	82	x 172	100	x 200
Power Co	rd Length	m	4	5		5
Mass (We	eight)	kg	1	18.5		26
Accessor	ies Included		Oil Tank Cutting Oil 0.5L Pilot Pin 08035 Side Handle 3 mm Hex. Socket Screw Key	4 mm Hex. Socket Screw Key 8 x 10 mm Spanner Chain Tool Box	Oil Tank Cutting Oil 0.5L Pilot Pin 08050 Side Handle 3 mm Hex. Socket Screw Key	4 mm Hex. Socket Screw Key 8 x 10 mm Spanner Chip Stopper Chain Tool Box

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



Automatic Return

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

Self Feeding & Load Detection

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



Built-in Motion Sensor

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

Step Feed

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

Limit Switch

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

Chip Breaker

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



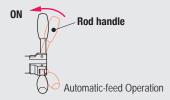
Automatic-feed Hole-cutting Procedure



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



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





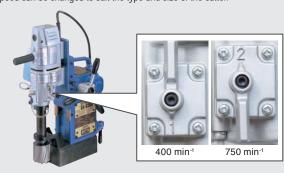
Slow start mechanism cuts smoothly through the mill scale. Then, speed and feed rate is controlled by the sensors to achieve efficient drilling.



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

Two Speed Selection (QA-6500)

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



One-touch Cutter Replacement

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



Mounting the cutter



Removing the cutter

Annular Cutters

JETBROACH CUTTERS & HI-BROACH CUTTERS

BROACH CUTTERS are far better than twist drills

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

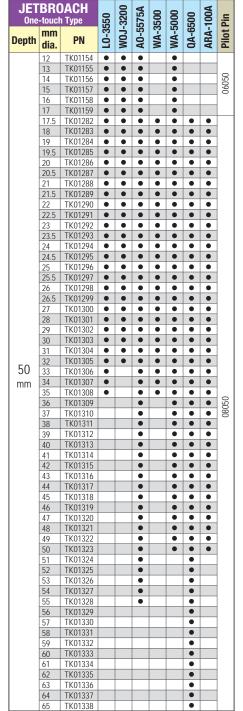


Specific	cations			90 mm(17.5 - 65 × 50L)	For stacked plates.		
		HI-BROACH One-touch Type/25L	HI-BROACH One-touch Type/50L	JETBROACH One-touch Type/25,35,50L	JETBROACH One-touch Type/50L(W)	JETBROACH One-touch Type/75L	JETBROACH Side lock Type/75L
		25L: 12 - 52 dia.	-	25L: 12 - 17 dia.	-	-	-
	Hole Diameter	-	-	35L: 17.5 - 40 dia.	-	-	-
	note Diameter	-	50L: 12 - 52 dia.	50L: 12 - 65 dia.	50L(W): 18, 22, 24 - 26.5,	-	-
Hole		-	-	-	28, 32, and 35 dia.	75L: 17.5 - 55 dia.	75L: 50 - 100 dia.
Capacity		25L: 25	-	25L: 25	-	-	-
mm	Plate Thickness	-	-	35L: 35	-	-	-
	Plate Hilckness	-	50L: 50	50L: 50	50L(W): 50	-	-
		-	-	-	-	75L: 75	75L: 75
Feed Spee	ed mm/rev			0.02	- 0.1		
Circumfer	ential Speed m/min	15 - 35 (r	nild steel)		35 - 50 (m	nild steel)	

		ACH	,5A	90	90	0	0	.50	DA D	_
One		1 Type	22	32	20	물	23	-27	무	Pin
Depth	mm dia.	PN	A0-5575A	WA-3500	WA-5000	QA-4000	QA-6500	CLA-2720	ARA-100A	Pilot
	12	TK00698	•					•		
	13	TK00699	•					•		
	14	TK00700	•	•	•	•		•		06025
	15	TK00701	•	•	•	•		•		9
	16	TK00702	•	•	•	•		•		
	17	TK00703	•	•	•	•		•		
	17.5	TK01391	•	•	•	•		•	•	
	18	TK01392	•	•	•	•	•	•	•	
	19	TK01393	•	•	•		•	•	•	
	19.5	TK01394	•	•	•		•	•	•	
	20	TK01395	•	•	•		•	•	•	
	21	TK01396	•	•	•		•	•	•	
	21.5	TK01397	•	•	•		•	•	•	
	22	TK01398	•	•	•		•	•	•	
	22.5	TK01399	•	•	•		•	•	•	
	23	TK01400	•	•	•		•	•	•	
	23.5	TK01401	•	•	•		•	•	•	
	24	TK01402	•	•	•		•	•	•	
	24.5	TK01403	•	•	•		•	•	•	
	25	TK01404	•	•	•		•	•	•	
	26	TK01405	•	•	•		•	•	•	
	27	TK01407	•	•	•		•	•	•	
25	28 29	TK01408 TK01409	•	•	•		•		•	
l mm	30	TK01409	•	•	•		•		•	
	31	TK01410	•	•	•		•		•	
	32	TK01411	•	•	•		•		•	08025
	33	TK01412	•	•	•		•		•	88
	34	TK01413	•	•	•		•		•	
	35	TK01414	•	•	•		•		•	
	36	TK01415	•		•					
	37	TK01417	•		•					
	38	TK01417	•		•					
	39	TK01419	•		•					
	40	TK01420	•		•					
	41	TK01421	•		•					
	42	TK01422	•		•					
	43	TK01423	•		•					
	44	TK01424	•		•					
	45	TK01425	•		•					
	46	TK01426	•		•					
	47	TK01427	•		•					
	48	TK01428	•		•					
	49	TK01429	•		•					
	50	TK01430	•		•					
	51	TK01431								
	52	TK01432								1

		ACH 1 Type	75A	000	00A	Ë
Depth	mm dia.	PN	A0-5575A	WA-5000	ARA-100/	Pilot Pin
	12	TK00721	•			
	13	TK00722	•			
	14	TK00723	•	•		100
	15	TK00724	•	•		99
	16	TK00725	•	•		
	17	TK00726	•	•		
	18 19	TK00727 TK00728	•	•	•	
	20	TK00728	•	•	•	
	21	TK00729	•	•	•	
	22	TK00730	•	•	•	
	23	TK00731	•	•	•	
	24	TK00733	•	•	•	
	25	TK00734	•	•	•	
	26	TK00735	•	•	•	
	27	TK00736	•	•	•	
	28	TK00737	•	•	•	
	29	TK00738	•	•	•	
	30	TK00739	•	•	•	
50	31	TK00740	•	•	•	
mm	32	TK00741	•	•	•	
111111	33	TK00742	•	•	•	
	34	TK00743	•	•	•	0
	35	TK00744	•	•	•	805
	36 37	TK00745 TK00746	•	•		Ö
	38	TK00746	•	•		
	39	TK00747	•	•		
	40	TK00740	•	•		
	41	TK00750	•	•		
	42	TK00751	•	•		
	43	TK00752	•	•		
	44	TK00753	•	•		
	45	TK00754	•	•		
	46	TK00755	•	•		
	47	TK00756	•	•		
	48	TK00757	•	•		
	49	TK00758	•	•		
	50	TK00759	•	•		
	51	TK00760				
	52	TK00761				

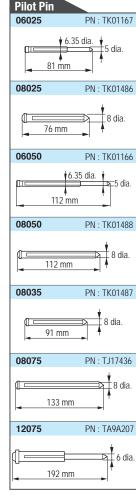
		DACH	0	500	,5A	90	8	0	0	20	YO(_
Depth	mm dia.	n Type PN	LO-3550	WOJ-3200	A0-5575A	WA-3500	WA-5000	QA-4000	QA-6500	CLA-2720	ARA-100A	Pilot Pin
	12	TK01148	-	•	•	_	•			•		
	13	TK01140	•	•	•		•			•		1
25	14	TK01147	•	•	•		•			•		2
mm	15	TK01151	•	•	•		•			•		06025
1111111	16	TK01151	•	•	•		•			•		0
	17	TK01153	•	•	•		•			•		1
	17.5	TK01133	•	•	•	•	•	•	•	•	•	
	18	TK01250	•	•	•	•	•	•	•	•	•	
	18.5	TK01250	•	•	•	•	•	•	•	•	•	1
	19	TK01251	•	•	•	•	•	•	•	•	•	
	19.5	TK01253	•	•	•	•	•	•	•	•	•	
	20	TK01254	•	•	•	•	•	•	•	•	•	1
	20.5	TK01255	•	•	•	•	•	•	•	•	•	1
	21	TK01256	•	•	•	•	•	•	•	•	•	1
	21.5	TK01257	•	•	•	•	•	•	•	•	•	1
	22	TK01258	•	•	•	•	•	•	•	•	•	1
	22.5	TK01259	•	•	•	•	•	•	•	•	•	
	23	TK01260	•	•	•	•	•	•	•	•	•	1
	23.5	TK01261	•	•	•	•	•	•	•	•	•	
	24	TK01262	•	•	•	•	•	•	•	•	•	1
	24.5	TK01263	•	•	•	•	•	•	•	•	•	1
35	25	TK01264	•	•	•	•	•	•	•	•	•	
l .	25.5	TK01265	•	•	•	•	•	•	•	•	•	08035
mm	26	TK01266	•	•	•	•	•	•	•	•	•	=
	26.5	TK01267	•	•	•	•	•	•	•	•	•	
	27	TK01268	•	•	•	•	•	•	•	•	•	1
	28	TK01269	•	•	•	•	•	•	•		•	1
	29	TK01270	•	•	•	•	•	•	•		•	1
	30	TK01271	•	•	•	•	•	•	•		•	1
	31	TK01272	•	•	•	•	•	•	•		•	1
	32	TK01273	•	•	•	•	•	•	•		•	1
	33	TK01274	•		•	•	•	•	•		•	1
	34	TK01275	•		•	•	•	•	•		•	
	35	TK01276	•		•	•	•	•	•		•	1
	36	TK01277			•		•	•	•		•	1
	37	TK01278			•		•	•	•		•	
	38	TK01279			•		•	•	•		•	1
	39	TK01280			•		•	•	•		•	
	40	TK01281			•		•	•	•		•	



JET One 50L(W) fo	920	W0J-3200	A0-5575A	ARA-100A	Pin		
Depth	mm dia.	PN	L0-3550	W0J	A0-5	ARA-	Pilot Pin
	18	TK01068	•	•	•	•	
	22	TK00622	•	•	•	•	
	24	TK00623	•	•	•	•	
	24.5	TK00631	•	•	•	•	
50	25	TK00624	•	•	•	•	08020
mm	26	TK00625	•	•	•	•	8
	26.5	TK00632	•	•	•	•	
	28	TK00626	•	•	•	•	
	32	TK00627	•	•	•	•	
	35	TK00628	•		•	•	

		DACH	.5A	90	PO	_
One		1 Туре	22	20	무	Ξ
Depth	mm dia.	PN	A0-5575A	WA-5000	ARA	Pilot Pin
	17.5	TK01350	•	•	•	
	18	TK01351	•	•	•	
	19	TK01352	•	•	•	
	20	TK01353	•	•	•	
	21	TK01354	•	•	•	
	22	TK01355	•	•	•	
	23	TK01356	•	•	•	
	24	TK01357	•	•	•	
	24.5	TK01358	•	•	•	
	25	TK01359	•	•	•	
	26	TK01360	•	•	•	
	26.5	TK01361	•	•	•	
	27	TK01362	•	•	•	
	28	TK01363	•	•	•	
	29	TK01364	•	•	•	
	30	TK01365	•	•	•	
	31	TK01366	•	•	•	
	32	TK01367	•	•	•	
	33	TK01368	•	•	•	
75	34	TK01369	•	•	•	2
	35	TK01370	•	•	•	307
mm	36	TK01371	•	•	•	õ
	37	TK01372	•	•	•	
	38	TK01373	•	•	•	1
	39	TK01374	•	•	•	
	40	TK01375	•	•	•	1
	41	TK01376	•	•	•	1
	42	TK01377	•	•	•	
	43	TK01378	•	•	•	
	44	TK01379	•	•	•	
	45	TK01380	•	•	•	
	46	TK01381	•	•	•	1
	47	TK01382	•	•	•	1
	48	TK01383	•	•	•	
	49	TK01384	•	•	•	1
	50	TK01385	•	•	•	1
	51	TK01386	•			1
	52	TK01387	•			1
	53	TK01388	•			1
	54	TK01389	•			1
	55	TK01390	•			

		DACH k Type	100A	Jin
Depth	mm dia.	PN	ARA-1	Pilot F
	50	TK01433	•	_
	51	TK01434	•	
	52	TK01435	•	
	53	TK01436	•	
	54	TK01437	•	
	55	TK01438	•	
	56	TK01439	•	
	57	TK01440	•	
	58	TK01441	•	
	59	TK01442	•	
	60	TK01443	•	
	61	TK01444	•	
	62	TK01445	•	
	63	TK01446	•	
	64	TK01447	•	
	65	TK01448	•	
	66	TK01449	•	
	67	TK01450	•	
	68	TK01451	•	
	69	TK01452	•	
	70	TK01453	•	
	71	TK01454	•	-
	72 73	TK01455	•	
	74	TK01456 TK01457	•	
75	75	TK01457	•	2075
mm	76	TK01456	•	120
	77	TK01459	•	
	78	TK01461	•	
	79	TK01462	•	
	80	TK01463	•	
	81	TK01464	•	
	82	TK01465	•	
	83	TK01466	•	
	84	TK01467	•	
	85	TK01468	•	
	86	TK01469	•	
	87	TK01470	•	
	88	TK01471	•	
	89	TK01472	•	
	90	TK01473	•	
	91	TK01474	•	
	92	TK01475	•	
	93	TK01476	•	
	94	TK01477	•	
	95	TK01478	•	
	96	TK01479	•	
	97	TK01480	•	
	98	TK01481	•	
	99	TK01482	•	
1	100	TK01483	•	

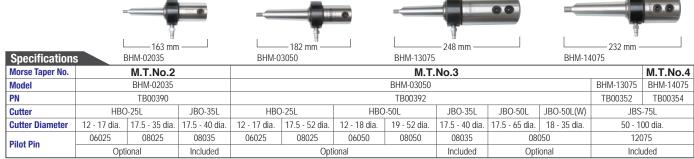


Sales Unit: 1 Piece

BROACH HOLDERS

Industrial cutters for faster and better finished holes

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



Portable Double-Acting Hydraulic Puncher

SELFER ACE

Double acting hydraulic system allows automatic and inching (manual mode) operation. *CE model is available without auto-return function.

· Applicable for both mild steel and stainless steel punching

Model HS11-1624 Non-CE/ CE

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



Model **HS07-1624** Non-CE/ CE*

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

YouTube Model HS06-1322 Non-CE/ CE*

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

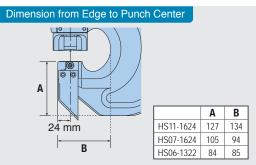




Specific	ations								
Model				HS11	-1624	HS07	7-1624	HS0	6-1322
Max. Throa	t Depth		mm	11	0		70		60
Punching	Material			Mild Steel	Stainless Steel	Mild Steel	Stainless Steel	Mild Steel	Stainless Steel
Capacity	Max. Pun	ching Thickness	* mm	16	6	16	6	13	6
	Max. Pun	ching Diameter	mm		2	4			22
Hole Makin	ıg time	Punching Time	sec.		11	.8			7.9
		Returning Time	sec.		5	.7			3.4
Allowable I	Max. Press	ure MPa (I	kgf/cm²)			68.69	5 (700)		
Max. Outpu	ıt		kN (tf)		464	(47)		36	7 (37)
Ram Stroke	е		mm		2	5			21
Mass (Weig	ght)		kg	3	0	2	5.5	2	20.5
Accessorie	s Included			D Punch 22 (Installed) D Die 22 (Installed) Sub Handle Ultra-high Pressure Ho	Hose Cord AsChip Guard ASpanner12 mm Spanr	ss'y • 5 mm Hex. 5 • Tool Box	Socket Screw Key Socket Screw Key		

^{*}Mild steel: Maximum punching thickness must be calculated by the equation 0.8 x punching diameter.

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





HYDRAULIC PUMP for SELFER ACE





Specifications			
Model		HPD)-05
Power Source (Single Phase)		115 V / 2	30 V AC
Max. Output Pressure	MPa (kgf/cm²)	68.65	(700)
Output		50 Hz	60 Hz
At No-load	L/min	1.20	1.44
At 68.65 MPa	L/min	0.55	0.66
Motor		0.4 k	W 4P
Reservoir Capacity	L	4.	0
Discharge Port		Rc	3/8
Electro-Magnetic Valve		4 way 3 po	sition valve
Mass (Weight)	kg	32	5

*CE model is available without auto-return function.

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

Portable Single-Acting Hydraulic Puncher

SELFER HA Type

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

Will punch both round and oblong holes

Model HA11-1624 Non-CE

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



Model HA07-1624 Non-CE

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

Model HA06-1322 Non-CE

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

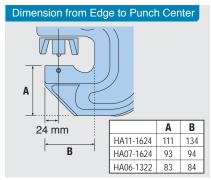




Model			HA11-1624		HA07-1624	HA06-1322
Max. Throa	t Depth	mm	110		70	60
unching	Material			•	Mild Steel	
apacity	Max. Punching Th	ickness*1 mm		16		13
	Max. Punching Dia	ameter mm		24		22
Hole Makin	g Time*2	sec.		16.5		10.5
Allowable N	Max. Pressure	MPa (kgf/cm²)			68.65 (700)	
/lax. Outpu	t	kN (tf)		431 (44)		304 (31)
Ram Stroke)	mm		25		21
Mass (Weig	jht)	kg	35.5		28.5	21.5
Accessorie	s Included	·	• D Die 22 (Installed) • Sp	ose Cord Ass'y Danner mm Hex. Socket Sci	• Tool Box ew Kev	

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

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





HYDRAULIC PUMP for SELFER HA Type

Model SC-05 Non-CE

Single-acting



Specifications			
Model		S	C-05
Power Source (Single Phas	se)	115 V	/ 230 V AC
Max. Output Pressure	MPa (kgf/cm²)	68.	65 (700)
Output		50 Hz	60 Hz
At No-load	L/min	1.20	1.44
At 68.65 MPa	L/min	0.55	0.66
Motor		0.4	kW 4P
Reservoir Capacity	L		4.0
Discharge Port		F	Rc 3/8
Mass (Weight)	kg		27.5

Electrically Operated Hydraulic Puncher

HANDY SELFER

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

Model **E25-0615** Non-CE

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



Model **E55-0619** Non-CE

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

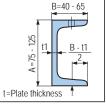


Specific	auons						
Model			E25	-0615	E55	5-0619	
Power Sou	rce (Single Phase)		220 - 240 V	AC, 50/60 Hz	110 - 120 V AC, 50/60 Hz	220 - 240 V AC, 50/60Hz	
Max. Throa	nt Depth	mm		25	55		
Motor	Rated Power Consumption	W	3	305		670	
	Rated Current	Α	-	1.4	6.0	3.0	
Punching	Material			Mild	Steel		
Capacity	Max. Punching Diameter	mm		15		19	
	Max. Punching Thickness	mm		6		6	
Punching t	time sec (single	pass)		4		2	
Power Core	d Length	m		2	.4		
Mass (Wei	ght)	kg	-	7.0		14	
Accessorie	es Included		E Punch 15 (Installed) E Die 15A E Die 15B (Installed) Sub Handle 2.5 mm Hex. Socket Screw Key	4 mm Hex. Socket Screw Key 10 x 12 mm Spanner Auxiliary Oil 40 cc Tool Box Spanner 8	EL Punch 18 (Installed) EL Die 18A EL Die 18B (Installed) Sub Handle 3 mm Hex. Socket Screw Key 4 mm Hex. Socket Screw Key	• 5 mm Hex. Socket Screw Key • 10 x 12 mm Spanner • Stand Ass'y • Auxiliary Oil 40 cc • Tool Box	

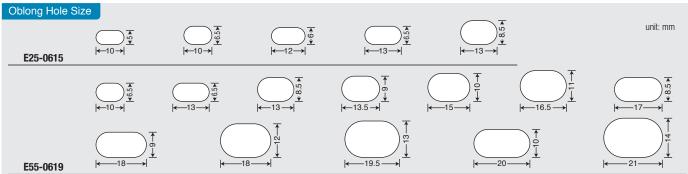
Optional Accessory (E25-0615)						
PN	Description	Sales Unit				
TB00800	Stand Ass'y	1 piece				

Die Selection				
F Die and Fl Die	Punching Th	Punching Thickness (mm)		
E Die and EL Die	Mild Steel	Stainless Steel	Model	
Round Hole E Die A (for Thin Sheets)	2 to 3.2	Max. 3	F25-0615	
Round Hole E Die B (for Thick Sheets)	4 to 6	Max. 4	E20-0010	
Round Hole EL Die A (for Thin Sheets)	2 to 3.2	Max. 3		
Round Hole EL Die B (for Thick Sheets)	4 to 6	Max. 4	E55-0619	
Round Hole EL Die C (for Channel Iron)	7 to 8	-		

Punching Capac	ity in Ch	annel Iro	on (E55-0	0619)			
Punching Dia. Size	10 OD	11 OD	12 OD	13 OD	14 OD	15 OD	16 OD
75 x 40 t7	0	0	0	0	0	0	0
100 x 50 t7.5	0	0	0	0	0	0	-
125 x 65 t8	0	0	0	0	0	-	-







Punches & Dies for SELFER Puncher

FOR HS06-1322/HS07-1624/HS11-1624/HA06-1322/HA07-1624/HA11-1624 **Oblong hole D Punch** Oblong hole D Die **Oblong hole Jig** Size TK01512 D Punch 16 x 8 TK01544 D Die 16 x 8 TK01694 Jig 16 x 8 TK01513 D Punch 18 x 9 TK01545 D Die 18 x 9 TK01695 Jig 18 x 9 TK01514 D Punch 20 x 10 D Die 20 x 10 TK01546 TK01696 Jig 20 x 10 TK01515 D Punch 22 x 11 TK01516 D Punch 24 x 12 TK01547 D Die 22 x 11 TK01697 Jiq 22 x 11 TK01548 D Die 24 x 12 TK01698 Jig 24 x 12 TK01517 D Punch 25 x 9* TK01518 D Punch 25 x 12* TK01549 D Die 25 x 9 D Die 25 x 12 TK01699 Jig 25 x 9 TK01550 TK01700 Jig 25 x 12 TK01519 D Punch 25 x 14* TK01551 TK01520 D Punch 25 x 18* TK01552

D Die 25 x 14

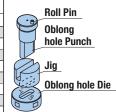
D Die 25 x 18

TK01701

TK01702

Jig 25 x 14

Jia 25 x 18



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

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

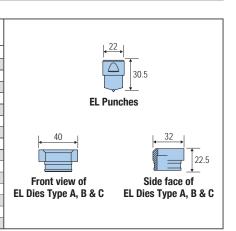
FOR HSO	6-1322/HS07-162	4/HS11-1624	4/HA06-1322/H	A07-1624	I/HA1
Round	l hole D Punch	Round	l hole D Die		
PN	Size	PN	Size		
TK01489	D Punch 8	TK01521	D Die 8		
TK01490	D Punch 9	TK01522	D Die 9	7	
TK01491	D Punch 10	TK01523	D Die 10		ŀ
TK01492	D Punch 11	TK01524	D Die 11	7	(
TK01493	D Punch 12	TK01525	D Die 12		
TK01494	D Punch 13	TK01526	D Die 13	7	
TK01495	D Punch 14	TK01527	D Die 14		
TK01496	D Punch 14.5	TK01528	D Die 14.5		
TK01497	D Punch 15	TK01529	D Die 15		DΙ
TK01498	D Punch 16	TK01530	D Die 16	7	
TK01499	D Punch 17	TK01531	D Die 17		
TK01500	D Punch 17.5	TK01532	D Die 17.5	7	
TK01501	D Punch 18	TK01533	D Die 18		1.
TK01502	D Punch 19	TK01534	D Die 19	7	ľ
TK01503	D Punch 20	TK01535	D Die 20		E
TK01504	D Punch 20.5	TK01536	D Die 20.5	7	
TK01505	D Punch 21	TK01537	D Die 21		
TK01506	D Punch 21.5	TK01538	D Die 21.5	7	
TK01507	D Punch 22	TK01539	D Die 22		
TK01508	D Punch 23	TK01540	D Die 23		
TK01509	D Punch 23.5	TK01541	D Die 23.5	. TA000	าวร
TK01510	D Punch 24	TK01542	D Die 24	• TA990	
TK01511	D Punch 25	TK01543	D Die 25	requir	eu I

FOR FEE OCTO

Round	hole E Punch		d hole E Die for thin sheets)		d hole E Die or thick sheets)
PN	Size	PN	Size	PN	Size
TK01553	E Punch 4	TK01571	E Die 4A	-	-
TK01554	E Punch 5	TK01572	E Die 5A	TK01584	E Die 5B
TK01555	E Punch 5.5	TK01573	E Die 5.5A	TK01585	E Die 5.5B
TK01556	E Punch 6	TK01574	E Die 6A	TK01586	E Die 6B
TK01557	E Punch 6.5	TK01575	E Die 6.5A	TK01587	E Die 6.5B
TK01558	E Punch 8	TK01576	E Die 8A	TK01588	E Die 8B
TK01559	E Punch 8.5	TK01577	E Die 8.5A	TK01589	E Die 8.5B
TK01560	E Punch 10	TK01578	E Die 10A	TK01590	E Die 10B
TK01561	E Punch 11	TK01579	E Die 11A	TK01591	E Die 11B
TK01562	E Punch 12	TK01580	E Die 12A	TK01592	E Die 12B
TK01563	E Punch 13	TK01581	E Die 13A	TK01593	E Die 13B
TK01564	E Punch 14	TK01582	E Die 14A	TK01594	E Die 14B
TK01565	E Punch 15	TK01583	E Die 15A	TK01595	E Die 15B
Oblong hole E Punch		Oblong hole E Die (Type A for thin sheets)		Oblong hole E Die (Type B for thick sheets	
PN	Size	PN	Size	PN	Size
TK01566	E Punch 10 x 5	TK01596	E Die 10 x 5A	TK01601	E Die 10 x 5B
TK01567	E Punch 10 x 6.5	TK01597	E Die 10 x 6.5A	TK01602	E Die 10 x 6.5B
TK01568	E Punch 12 x 6	TK01598	E Die 12 x 6A	TK01603	E Die 12 x 6B
TK01569	E Punch 13 x 6.5	TK01599	E Die 13 x 6.5A	TK01604	E Die 13 x 6.5B
TK01570	E Punch 13 x 8.5	TK01600	E Die 13 x 8.5A	TK01605	E Die 13 x 8.5B
E Punches Front view of E Dies Type A 21: over or equal 8 dia. (19: under 8 dia.) Side face of E Dies Type A					
E Dies Type A E Dies Type A 27 21: over or equal 8 dia. (19: under 8 dia.) Front view of E Dies Type B E Dies Type B E Dies Type B					

FUK E5	5-0619				
Oblong	Oblong hole EL Punch		unch Oblong hole EL Die (Type A for thin sheets)		g hole EL Die for thick sheets)
PN	Size	PN	Size	PN	Size
TK01621	EL Punch 10 x 6.5	TK01670	EL Die 10 x 6.5A	TK01682	EL Die 10 x 6.5B
TK01622	EL Punch 13 x 6.5	TK01671	EL Die 13 x 6.5A	TK01683	EL Die 13 x 6.5B
TK01623	EL Punch 13 x 8.5	TK01672	EL Die 13 x 8.5A	TK01684	EL Die 13 x 8.5B
TK01624	EL Punch 13.5 x 9	TK01673	EL Die 13.5 x 9A	TK01685	EL Die 13.5 x 9B
TK01625	EL Punch 15 x 10	TK01674	EL Die 15 x 10A	TK01686	EL Die 15 x 10B
TK01626	EL Punch 16.5 x 11	TK01675	EL Die 16.5 x 11A	TK01687	EL Die 16.5 x 11B
TK01627	EL Punch 17 x 8.5	TK01676	EL Die 17 x 8.5A	TK01688	EL Die 17 x 8.5B
TK01628	EL Punch 18 x 9	TK01677	EL Die 18 x 9A	TK01689	EL Die 18 x 9B
TK01629	EL Punch 18 x 12	TK01678	EL Die 18 x 12A	TK01690	EL Die 18 x 12B
TK01630	EL Punch 19.5 x 13	TK01679	EL Die 19.5 x 13A	TK01691	EL Die 19.5 x 13B
TK01631	EL Punch 20 x 10	TK01680	EL Die 20 x 10A	TK01692	EL Die 20 x 10B
TK01632	EL Punch 21 x 14	TK01681	EL Die 21 x 14A	TK01693	EL Die 21 x 14B
		Roun	d hole FL Die	Roun	d hole Fl. Die

TK01632	EL Punch 21 x 14	TK01681	EL Die 21 x 14A	TK01693	EL Die 21 x 14B			
Round	hole EL Punch	Round hole EL Die (Type A for thin sheets)		I Dilnch III III III III III III III III II			Round hole EL Die (Type C for channel iron)	
PN	Size	PN	Size	PN	Size	PN	Size	
TK01606	EL Punch 6	TK01633	EL Die 6A	TK01648	EL Die 6B	-	-	
TK01607	EL Punch 6.5	TK01634	EL Die 6.5A	TK01649	EL Die 6.5B	-	-	
TK01608	EL Punch 8	TK01635	EL Die 8A	TK01650	EL Die 8B	-	-	
TK01609	EL Punch 8.5	TK01636	EL Die 8.5A	TK01651	EL Die 8.5B	-	-	
TK01610	EL Punch 10	TK01637	EL Die 10A	TK01652	EL Die 10B	TK01663	EL Die 10C	
TK01611	EL Punch 11	TK01638	EL Die 11A	TK01653	EL Die 11B	TK01664	EL Die 11C	
TK01612	EL Punch 12	TK01639	EL Die 12A	TK01654	EL Die 12B	TK01665	EL Die 12C	
TK01613	EL Punch 13	TK01640	EL Die 13A	TK01655	EL Die 13B	TK01666	EL Die 13C	
TK01614	EL Punch 14	TK01641	EL Die 14A	TK01656	EL Die 14B	TK01667	EL Die 14C	
TK01615	EL Punch 15	TK01642	EL Die 15A	TK01657	EL Die 15B	TK01668	EL Die 15C	
TK01616	EL Punch 16	TK01643	EL Die 16A	TK01658	EL Die 16B	TK01669	EL Die 16C	
TK01617	EL Punch 17	TK01644	EL Die 17A	TK01659	EL Die 17B	-	-	
TK01618	EL Punch 18	TK01645	EL Die 18A	TK01660	EL Die 18B	-	-	
TK01619	EL Punch 18.5	TK01646	EL Die 18.5A	TK01661	EL Die 18.5B	-	-	
TK01620	EL Punch 19	TK01647	EL Die 19A	TK01662	EL Die 19B	-	-	



NITTO KOHKI Tools for Professional Use

	Chamfering	Scaling & Chipping	Grinding & Sanding	Flat Sanding
Machining & Molding	0	•	•	•
Sheet-metal Working	•	•	•	•
Welding	•	0	•	
Painting	•		•	
Steel Fabricating & Can Manufacturing	•	•	•	•
Molding & Die-casting	•	•	•	•
Bridges & Ship Building		•	•	•
Plant Construction & Piping		•	•	•
Wood Working & Art			•	•
Automotive & Painting	•	•	•	0
Construction		0	•	
© : Best Suited	P27 MINI BEVELER	P32 AUTO CHISEL	MYTON	P43 FREE SANDER
	P27 - 29 CIRCUIT BEVELER P28 - 30	P33 SUPER KELEN P34 JET CHISEL	P37 - 38 BELTON P39 - 42	P44 LINE SANDER P44 ORBITAL SANDER P45 PALM ORBITAL SANDER



Guide for Selecting Portable Chamfering Tools

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





HAND BEVELER Model **HB-15B**

• Mild steel: 15C

MINI BEVELER Model EMB-0307C

- Mild steel: 7C, 4R
- Stainless steel: 3C, 4R

MINI BEVELER Model MB-03A

• Mild steel: 3C, 3R

CIRCUIT BEVELER Model **ECB-0203**

• Mild steel: 3C, 3R

• Stainless steel: 1.5C, 2R

For further information, see the following pages.

P27 for Model HB-15B P27 for Model EMB-0307C P28 for Model MB-03A P28 for Model ECB-0203









Specifications			ELEC	CTRIC	
Model Power Source (Single Phase)		HB-15B	EMB-0307C	MB-03A	ECB-0203
		220 - 240 V AC 50/60 Hz 110 - 120 V AC 50/60 Hz	220 - 240 V AC 50/60 Hz 110 - 120 V AC 50/60 Hz	220 - 240 V AC 50/60 Hz	220 - 240 V AC 50/60 Hz
Rated Power Consum	otion W	910	900	430	450
Duty Cycle	min	Cont	inuous	3	30
No-load Speed	min ⁻¹ (rpm)	2750 (220 - 240 V) 3340 (110 - 120 V)	12700 (220 - 240 V) 13300 (110 - 120 V)	11000	10000
Chamfering Capacity Mild Steel Up to 15 mm Chamfer Up to 7 mm Chamfer Up to 3 mm Chamfer (Initial chamfer is 7 mm.) 2, 3, 4 mm Radius 2 and 3 mm F					
	Stainless Steel	-	Up to 3 mm Chamfer 2, 3, 4 mm Radius	-	Up to 1.5 mm Chamfer 2 mm Radius
Chamfer Angle		15°	- 45°	45°	
Mass (Weight)	kg	14	3.9	2	2.5
Optional Accessories		TA9A728 Pipe Plate Ass'y for Pipe Outer Edge Beveling (Pipe O.D. 125 to 800 mm)	• TB02539 Attachment for Pipe Outer Edge Beveling (Pipe O.D. 80 to 200 mm) *Pipe O.D. more than 200 mm can be	TA9A594 Inner Head Ass'y for Pipe Inner Edge Beveling (Minimum Inner Pipe Diameter : 100 mm)	TB03097 Plate Ass'y for Straight Edge Beveling
			chamfered with the standard accessory.		TB02862 Dust Box Ass'y Used with TB03097 Plate Ass'y
					TB02857 Guide Sleeve 24 mm Dia. Ass'y

MINI BEVELER Model AMBL-0307 (Lever) Model AMB-0307 (Ring)

- Mild steel: 7C, 4R
- Stainless steel: 3C, 4R

CIRCUIT BEVELER

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

CIRCUIT BEVELER Model CB-02

• Mild steel: 2C, 2R

CIRCUIT BEVELER Model CBR-03

• Mild steel: 3R

For further information, see the following pages.

P29 for Model AMBL-0307/AMB-0307

P29 for Model CB-01 P30 for Model CB-02

P30 for Model CBR-03









	· ·			
		PNEU	MATIC	
	AMBL-0307/AMB-0307	CB-01	CB-02	CBR-03
MPa (kgf/cm²)		0.6	(6)	
Load) m³/min	0.9	0.15	0.4	0.65
min ⁻¹ (rpm)	14000	28000	15000	12000
Mild Steel	Up to 7 mm Chamfer	Up to 1 mm Chamfer	Up to 2 mm Chamfer	3 mm Radius
	2, 3, 4 mm Radius	1 mm Radius	2 mm Radius	3 IIIIII KauluS
Stainless Steel	Up to 3 mm Chamfer	Un to 0.E mm Chamfar *		
	2, 3, 4 mm Radius	op to 0.5 mm Chamler	_	
Aluminum	-	Up to 1 mm Chamfer *	-	
	15° - 45°	45°		-
kg	2.9	0.5	1.8	2
	• TB02539 Attachment for Pipe Outer Edge Beveling (Pipe O.D. 80 to 200 mm)	TB09143 Plate Ass'y for Straight Edge Beveling TB09140 Guide Plate 78 Ass'y	TB02437 Thin Plate Attachment Ass'y (Minimum thickness 1.2 mm)	-
		for More Stable Operation		
	Load) m³/min min¹(rpm) Mild Steel Stainless Steel Aluminum	MPa (kgf/cm²) Load) m³/min 0.9 min¹(rpm) 14000 Mild Steel Up to 7 mm Chamfer	AMBL-0307/AMB-0307 CB-01	MPa (kgt/cm²) 0.6 (6) Load) m³/min 0.9 0.15 0.4 min¹(rpm) 14000 28000 15000 Mild Steel Up to 7 mm Chamfer Up to 1 mm Chamfer Up to 2 mm Chamfer 2, 3, 4 mm Radius Up to 3 mm Chamfer Up to 0.5 mm Chamfer* - Aluminum - Up to 1 mm Chamfer* - kg 2.9 0.5 1.8 * TB02539 Attachment for Pipe Outer Edge Beveling (Pipe O.D. 80 to 200 mm) * TB09143 Plate Ass'y for Straight Edge Beveling * TB02437 Thin Plate Attachment Ass'y (Minimum thickness 1.2 mm)

Portable Chamfering Tools

HAND BEVELER

Model HB-15B C€



Chamfering up to 15C

- Ideal for plate, pipe, and tube chamfering for welding preparation
- Chamfer width up to 15 mm at 45° angle using multiple passes
- Indexable inserts have four working edges for good economy
- Finishes a surface so fine that post-sanding is unnecessary
- · Column R-section can be chamfered with optional attachment
- · High speed cutting action minimizes material hardening



	330 mm (115 326 mm (230
220 mm	
	WA!



Specifications					
Model		HB-15B			
Power Source (Single Phase)		110 - 120 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz		
Rated Power Consumption W		91	10		
Rated Current	Α	10.5	4		
Duty Cycle	ty Cycle min		Continuous		
No-load Speed	min-1(rpm)	3350	2750		
Chamfering Capacity (Mild	Steel)	Up to 15 mm Chamfer *			
Chamfer Angle		15° - 45°			
Power Cord Length m		5			
Mass (Weight)	kg	15			
*Man Chambain Canadh f		1. 70			

*Max. Chamfering Capacity for one - cut is 7C

Accessories Included

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

Chamfer Ang	le and	Width	
0	Mild Ste	eel(mm)	
Chamfer Angle α	Х	Υ	Chamfer X
45°	15	15	μα
30°	9	15.5	Straight
15°	4	15.4	

Handy Electric Chamfering Tool

Chamfering steel plates

MINI BEVELER

Model EMB-0307C C€

□ Double insulation

Designed to chamfer stainless and mild steel

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



Mild Steel

3C 4R Stainless Steel

- **Specifications** Model EMB-0307C 110 - 120 V AC, 50/60 Hz | 220 - 240 V AC, 50/60 Hz Power Source (Single Phase) **Rated Power Consumption** W 900 **Rated Current** 3.9 Α **Duty Cycle** min Continuous No-load Speed 13300 12700 min-1(rpm) **Chamfering Capacity** Mild Steel Up to 7 mm Chamfer or 2, 3, 4 mm Radius Up to 3 mm Chamfer or 2, 3, 4 mm Radius Stainless Steel **Chamfer Angle** 15° - 45° 4.0 **Power Cord Length** m Mass (Weight) kg 3.9
- *115 V available on request.

Accessories Included

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

Chamfer Angl	e, Wid	th and	l Radii	us			
	Milo	d Steel(r	nm)	Stainl	ess Stee	l(mm)	
Chamfer Angle $lpha$	Χ	Υ	Z	Х	Υ	Z	Chamfer X
45°	7	7	9.9	3	3	4.2	ν α
30°	3.8	6.6	7.6	2.2	3.8	4.4	//z
15°	1.5	5.6	5.8	1	3.8	3.9	Straight

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

Handy Electric Chamfering Tool

MINI BEVELER

Model MB-03A Non-CE

Double insulation

Compact and light for speed chamfering

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



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

Accessories Included

- Indexable Insert 9.525 R2 (Installed)
- Indexable Insert 9.525

Mild Steel

- 3 mm Hex. Socket Screw Key 4 mm Hex. Socket Screw Key
- · Spanner T-9F
- Hex. Nut
- 2 pieces of Hex. Socket Set Screw 8 x 25

Cham	Chamfer Angle, Width and Radius						
Mild Ste	eel(mm)					Mild Steel(mm)	
Х	Υ	Chamfer	Х		Radius	2, 3	Radius
3	3		-45°∕				
		, Y	Stra	aight			Round

Electric Radial Chamfering Tool

CIRCUIT BEVELER

Model ECB-0203 C€

☐ Double insulation



Smoothly chamfering straight and curved edges

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



Specifications			
Model		ECB-0203	
Power Source (Single	Phase)	220 - 240 V AC, 50/60 Hz	
Rated Power Consump	otion W	450	
Rated Current	Α	2.1	
Duty Cycle	min	30	
No-load Speed	min ⁻¹ (rpm)	11000	
Chamfering Capacity	Mild Steel	Up to 3 mm Chamfer or 2* and 3 mm Radius	
	Stainless Steel	Up to 1.5 mm Chamfer or 2* mm Radius	
Chamfer Angle		45°	
Power Cord Length m		2.5	
Mass (Weight)	kg	2.5	

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

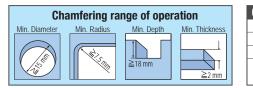
Accessories Included

- · Indexable Insert with Hole 12.7 (Installed) Indexable Insert Set Screw 4 x 7 (Installed)
- Indexable Insert with Hole 12.7
- Indexable Insert Set Screw 4 x 7
- Sub Handle · Grip Guard

- · Ball Bearing 687zz
- 5 mm Hex Socket Screw Key
- 8 x 10 mm Spanner
- Spanner T-150
- Gauge C3

Chamfering straight edges

Chamfering curved edges



Chamfe	er Angle	, Width a	and Rad	ius						
Mild Ste	el(mm)	Stainless	Steel(mm)					Mild Steel	Stainless Steel	
Χ	Υ	Χ	Y	Chamfer	X			(mm)	(mm)	Radius
3	3	1.5	1.5		45°		Radius	2, 3	2	
				Y	Stra	night				Round
						Ĭ				

CHAMFERING

Pneumatic Chamfering Tool

MINI BEVELER

Model AMBL-0307 C€

Lever switch type

Model AMB-0307 Non-CE Ring switch type









Ideal for chamfering plate, pipe, tube and other profiles

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

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

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

Chamter Ang	le, Wi	dth ar	id Kad	dius			
Observation Asserts	Milo	Mild Steel(mm)			ess Stee	l(mm)	
Chamfer Angle $lpha$	Χ	Υ	Z	Χ	Υ	Z	Chamfer X
45°	7	7	9.9	3	3	4.2	ι α
30°	4	7	8.1	2.2	3.8	4.4	//z
15°	22	8	83	1	3.8	3.9	Straight

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

Pneumatic Radial Chamfering Tool

CIRCUIT BEVELER

Model CB-01 C€



Ideally suited for chamfering machine and mold component parts

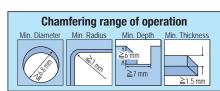
- Only requires a 6.8 mm diameter hole for chamfering
- Two 3-sided indexable inserts provide a cost effective way to get a smooth, chatter free finish
- · Aluminum and stainless steel can also be processed with optional indexable insert



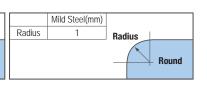
Model		CB-01
Air Pressure	MPa (kgf/cm²)	0.6 (6)
Air Consumption (No-	load) m³/min	0.15
Free Speed	min ⁻¹ (rpm)	28000
Chamfering Capacity	Mild Steel	Up to 1 mm Chamfer or 1 mm Radius
	Stainless Steel*	Up to 0.5 mm Chamfer
	Aluminum*	Up to 1 mm Chamfer
Chamfer Angle		45°
Minimum Workpiece T	Thickness mm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

- 2 pieces of Indexable Insert 8.4 (Installed)
- · 2 pieces of Indexable Insert Set Screw (Installed)
- 2 pieces of Indexable Insert Set Screw
- 2 mm Hex. Socket Screw Key for Chamfering Adjustments
- · Spanner T-6F for Replacement of Indexable Insert

• Bushing R 1/4 x NPT 1/4



					Width	gle and	fer Anç	Cham
1	-		ım(mm)	Aluminu	Steel(mm)	Stainless	eel(mm)	Mild Ste
	Х	Chamfer	Υ	Χ	Υ	Х	Υ	Χ
	_45°/	1	1	1	0.5	0.5	1	1
aight	Stra	Y						



Pneumatic Radial Chamfering Tool

CIRCUIT BEVELER

Model CB-02 C€



Uniquely designed to chamfer circular, elliptical and straight line profiles

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



Model		CB-02
Air Pressure	MPa (kgf/cm²)	0.6 (6)
Air Consumption (No-load)	m³/min	0.4
Free Speed	min ⁻¹ (rpm)	15000
Chamfering Capacity		Up to 2 mm Chamfer or 2 mm Radius
Chamfer Angle		45°
Inlet Size		Rc 1/4
Mass (Weight)	kg	1.8

Accessories Included

- Indexable Insert 9.525 (Installed)
- Indexable Insert 9.525
- Adjustment GaugeSpanner T-9F

Shipbuilding

materials prior to coating

- Protective Cap
- Hook Spanner 58-65
- Bushing R 1/4 x NPT 1/4

Chamfering range of operation					
Min. Diameter	Min. Radius	Min. Depth	Min. Thickness		
	The state of the s	<u></u> ≧20 mm	<u></u> ≧10 mm		

ı	Chamfer Angle, Width and Radius							
Γ	Mild Ste	eel(mm)					Mild Steel(mm)	
	Χ	Υ	Chamfer	X		Radius	2	Radius
	2	2	1,	- 45°				
			↓ ¥	Stra	aight			Round
L								

Pneumatic Radial Chamfering Tool

CIRCUIT BEVELER

Model CBR-03 CE





· Radius chamfering on steel materials used in seawater ballast tanks and double-side skin bulk carrier production • Dual cutting head with 4 radius surfaces per tip and a quick-change base *PSPC stands for Performance Standard for Protective Coatings regulated by International Marine Organization.

For bridge and shipbuilding applications

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

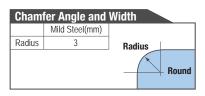
• Meets or exceeds PSPC* requirements on surface preparation of steel

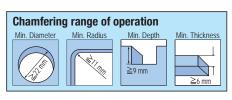
Specifications		
Model		CBR-03
Air Pressure MP	a (kgf/cm²)	0.6 (6)
Air Consumption (No-load)	m³/min	0.65
Free Speed	min ⁻¹ (rpm)	12000
Chamfering Capacity		3 mm Radius
Minimum Workpiece Thickne	ss mm	6
Inlet Size		Rc 1/4
Mass (Weight)	kg	2

- 2 pieces of Indexable Insert 12.7 R3 (Installed)
- · 2 pieces of Indexable Insert Set Screw (Installed)

Spanner T-15D

Indexable Insert Set Screw

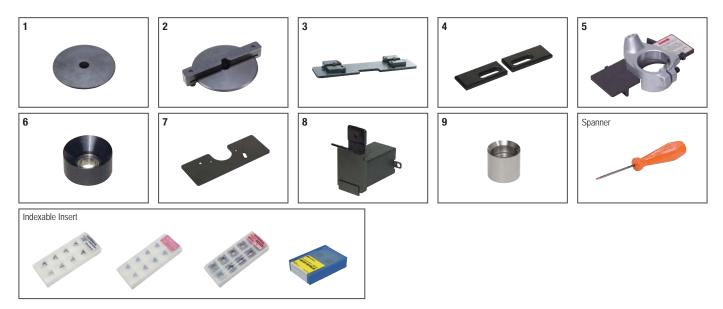




Optional Beveler Accessories

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

Ref. No.2: Requires use of TB09140 Guide Plate 78 Ass'y Ref. No.3: Capacity 125 to 800 mm O.D. Ref. No.4: Capacity 80 to 200 mm O.D. Ref. No.5: Capacity Minimum 100 mm I.D. Ref. No.6: For chamfering R2 Ref. No.7: Used with Plate Ass'y for Straight Line Use Ref. No.8: Used with Plate Ass'y for Straight Line Use





TB09140 Guide Plate 78 Ass'y for More Stable Operation



TB09143 Plate Ass'y for Straight Edge Use

Pneumatic Chipping Hammer

AIR CHIPPER

Removes weld spatter quickly and easily

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

Model ACH-16 €



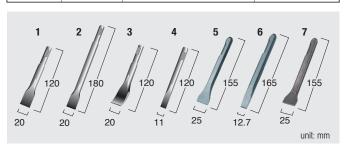




Specifications			
Model		ACH-16	CH-24
Air Pressure	MPa (kgf/cm²)	0.6	(6)
Air Consumption (No-load)	m³/min	0.15	0.2
Strokes per Minute	min ⁻¹	6000	4000
Shank Size	mm	10.5 Round	12.7 Square
Inlet Size		Rc	3/8
Mass (Weight)	kg	0.9	1.7
Accessories Included		 TO03431 Flat Chisel (Installed) Bushing R 3/8 x NPT 3/8 Hose Nipple R 3/8 x 3/8 	TP15166 Curved Flat Chisel (Installed) Bushing R 3/8 x NPT 3/8 Hose Nipple R 3/8 x 3/8

Optional Chisels for Air Chipper ACH-16					
Ref. No.	PN	Description	Sales Unit		
1	TQ03431	Flat Chisel 20 x 120			
2	TQ03452	Flat Chisel 20 x 180	1 piece		
3	TQ03453	Curved Flat Chisel 20 x 120	1 piece		
4	TQ03549	Flat Chisel 11 x 120			

Optional Chisels for Air Chipper CH-24							
Ref. No.	PN	Description	Sales Unit				
5	TP15233	Flat Chisel 25 x 155					
6	TP15234	Straight Flat Chisel 12.7 x 165	1 piece				
7	TP15166	Curved Flat Chisel 25 x 155					





Air Hammer

AUTO CHISEL

Model **A-300 C€**

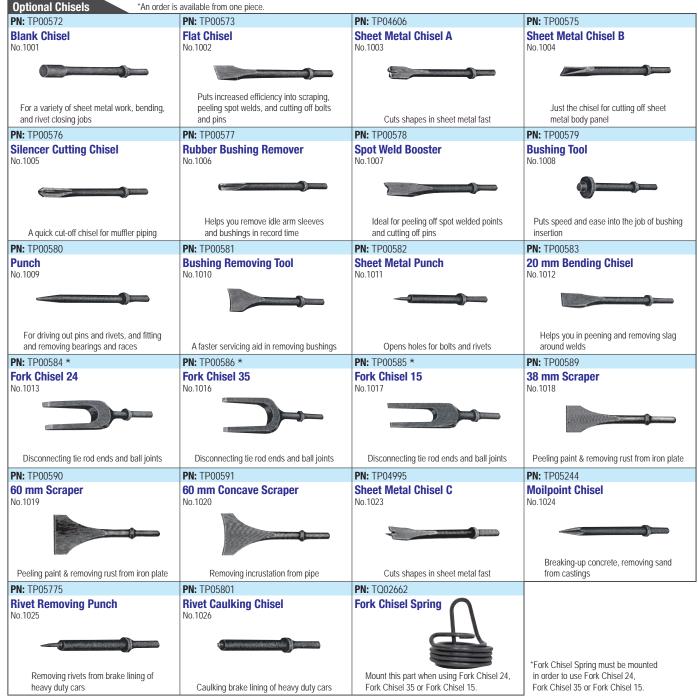


A special spool valve inside grip assures excellent durability

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

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

^{*}Chisels are not included as standard.



Pneumatic Scaler

SUPER KELEN

Industrial and shipboard pneumatic scalers

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

Model S-250 Non-CE







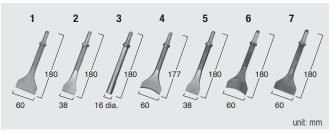




Model		S-250	S-500	S-1000	
Air Pressure	MPa (kgf/cm²)		0.6 (6)		
Air Consumption (No-load	n³/min	0.27			
Strokes per Minute	min ⁻¹	2500			
Shank Size	mm	12.7			
Inlet Size			Rc 1/4		
Mass (Weight)	kg	4.1	4.7	6.1	
Accessories Included			No. 2005 38 mm Bend Scraper (Installed) Hose Lock Nut M16 Hose Nipple 3/8		



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



Needle Scaler

JET CHISEL

Powerful scaling with multi-needles

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

Model JC-16 C€

• Lightweight model

Model JEX-24 C€

• Universal model

Model **JEX-28 C€**

Heavy-duty model

Model JEX-2800A €

• Reduced vibration model



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

Model AJC-16 C€

• Slim model

Model JT-16 C€

Small and lightweight model



YouTube

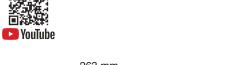
Model JT-20 C€

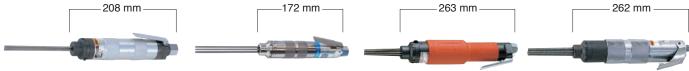
Medium duty model



• Reduced vibration model

Model **JEX-20 C€**





Specifications						
Model		AJC-16	JT-16	JT-20	JEX-20	
Air Pressure MPa (kgf/cm²		0.6 (6)				
Air Consumption (No-load)	m³/min	0.07	0.16	0.2	0.2	
Strokes per Minute	min ⁻¹	6000	6000	4000	4000	
Inlet Size			Rc	3/8		
Mass (Weight)	kg	0.98	0.8	2.4	2.75	
Accessories Included		3 pieces of 3 mm x 180 mm Needles (Installed) 3 pieces of 3 mm x 180 mm Needles Bushing R 3/8 x NPT 3/8 Hose Nipple R 3/8 x 3/8	6 pieces of 3 mm x 180 mm Needles (Installed) 6 pieces of 3 mm x 180 mm Needles Bushing R 3/8 x NPT 3/8 Hose Nipple R 3/8 x 3/8	12 pieces of 3 mm x 180 mm Needles (Installed) 12 pieces of 3 mm x 180 mm Needles Bushing R 3/8 x NPT 3/8 Hose Nipple R 3/8 x 3/8	12 pieces of 3 mm x 180 mm Needles (Installed) 12 pieces of 3 mm x 180 mm Needles Bushing R 3/8 x NPT 3/8 Hose Nipple R 3/8 x 3/8	

Electric Needle Scaler

JET CHISEL

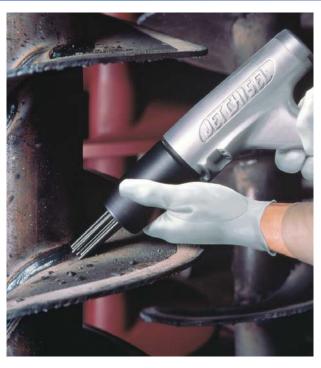
Model **EJC-32A C€**



Powerful 300 watt double insulated motor

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

Specifications					
Model		EJC-32A			
Power Source (Single Ph	ase)	110 - 120 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz		
Rated Power Consumption	on W	300			
Rated Current	Α	2.8	1.4		
Duty Cycle	min	30			
Strokes per Minute	min ⁻¹	30	00		
Power Cord Length	m	n 5			
Mass (Weight)	kg	4	.5		



Shot Peening Effect

Reinforcement of a welded part with the shot peening effect increases strength by imparting residual stress to the surface of the workpiece through the high speed impact of the needles. Highly suitable for effective reinforcement of deteriorated welded parts.



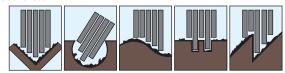
Full Automatic System - Excludes EJC-32A

The only unit of it's kind on the market without springs. This means no springs to break...no irregular power... and the advantage of low air consumption.



Self-Adjusting Needles

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



Combine	ation of Needle and Needle Supporter	Model								
GUIIDIIIa	ation of Needle and Needle Supporter	JC-16	JEX-24	JEX-28	JEX-2800A	AJC-16	JT-16	JT-20	JEX-20	EJC-32A
2 mm	Number of Needles Required	29 pcs.	53 pcs.	66 pcs.	66 pcs.	7 pcs.	15 pcs.	29 pcs.	29 pcs.	32 pcs.
2 111111	Needle Supporter PN	TP00290	TP02244	TP01499	TP01499	TQ05210	TQ15316	TP00338	TP00338	TP16475
3 mm	Number of Needles Required	-	23 pcs.	28 pcs.	28 pcs.	3 pcs.	6 pcs.	12 pcs.	12 pcs.	15 pcs.
3 111111	Needle Supporter PN	-	TP02245	TP01461	TP01461	TQ04554	TQ15315	TP00337	TP00337	TP16301
4 mm	Number of Needles Required	-	-	14 pcs.	14 pcs.	-	-	-	-	-
4 111111	Needle Supporter PN	-	-	TP01462	TP01462	-	-	-	-	-

Material	Nee	dle	PN	Colon Unit					Model				
Material	Diameter	Length	PN	Sales Unit	JC-16	JEX-24	JEX-28	JEX-2800A	AJC-16	JT-16	JT-20	JEX-20	EJC-32A
		150 mm	TB11053	100 pcs./set		•		•					•
	2 mm	180 mm	TB11054	100 pcs./set		•		•	•		•	•	•
		300 mm	TB11057	50 pcs./set		•		•		•	•		•
		500 mm	TB11060	50 pcs./set		•		•					• •
	3 mm	180 mm	TB11055	100 pcs./set		•		•	•	•		•	•
Steel		300 mm	TB11058	50 pcs./set		•		•			•	•	•
	3 111111	500 mm	TB11061	50 pcs./set				•	•				
		800 mm	TB11063	50 pcs./set		•		•					•
		180 mm	TB11056	50 pcs./set				•					
	4 mm	300 mm	TB11059	50 pcs./set				•					
		500 mm	TB11062	50 pcs./set				•					
Stainless	2 mm	180 mm	TB10878	30 pcs./set	•	•		•		•	•		
Steel	3 mm	180 mm	TB10877	30 pcs./set		•	•	•		•	•	•	



Optional Needles

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

GRINDING & SANDING

Pneumatic Grinder

MYTON

Heavy-duty grinders for tough applications

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

Model MYG-40 €

• For Grinding Wheel 100 mm

• Powerful type

Model MYG-25 C€

- For Grinding Wheel 58 mm
- Compact and lightweight type









Model MG-40 C€

- Lever switch type
- Depressed center wheel 100 mm



YouTube

Model MG-40 Non-CE

- Ring switch type
- Depressed center wheel 100 mm





Specifications							
Model		MYG-25	MYG-40	MG-40 Lever Type	MG-40 Ring Type		
Air Pressure	MPa (kgf/cm²)		0.6	(6)			
Air Consumption	m³/min	0.42 (No-load)	0.50 (No-load) 0.69 (Load)	0.50 (N	lo-load)		
Free Speed min ⁻¹ (rpm		19000	13000				
Depressed Center Grinding Wheel mi		58	100				
Inlet Size		Rc 1/4	Rc 3/8 Rc 1/				
Mass (Weight)	kg	0.6	1.5	1.6	1.4		
Accessories Included		• 5 mm Hex. Socket Screw Key • 19 mm Single Ended Spanner • Grinding Wheel GS #80 x 58 • Bushing R 1/4 x NPT 1/4	5 mm Hex. Socket Screw Key 6 mm Hex. Socket Screw Key Bushing R 3/8 x NPT 3/8	5 mm Hex. Socket Screw Key 6 mm Hex. Socket Screw Key Spanner 19 Bushing R 3/8 x NPT 3/8	5 mm Hex. Socket Screw Key 6 mm Hex. Socket Screw Key Spanner 19 Bushing R 1/4 x NPT 3/8		

Model MYG-50 C€

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

Model MYG-70 C€ Lever switch type

- For Grinding wheel 180 mm
- Heavy grinding type

Model MYG-70 Non-CE

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







Model		MYG-50	MYG-70 Lever Type	MYG-70 Ring Type		
Air Pressure	MPa (kgf/cm²)		0.6 (6)			
Air Consumption	m³/min	0.75 (No-load)	0.70 (No-load) 0.95 (Load)		
Free Speed min ⁻¹ (rpm		11000	76	00		
Depressed Center Grinding Wheel mr		125	180			
Inlet Size			Rc 3/8			
Mass (Weight)	kg	2.5 (with	handle)	2.4 (with handle)		
Accessories Included		Handle (anti-vibration type) Handle (anti-vibration type) Handle (screw Key) Handle (anti-vibration type) Handle (anti-vibration type) Handle (anti-vibration type)	 Handle 6 mm Hex. So 10 mm Hex. S Bushing R 3/8 	ocket Screw Key		

GRINDING & SANDING

Pneumatic Sander

MYTON

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

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

Model MYS-20 C€

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



Model MYS-40 C€

- For Abrasive disc 100 mm
- Light sanding type



Model MYS-70 Non-CE

• Ring switch type
• For Abrasive disc 180 mm



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Model		MYS-20	MYS-40	MYS-70
Air Pressure	MPa (kgf/cm²)		0.6 (6)	•
Air Consumption (No-load	d) m³/min	0.42	0.45	0.90
Free Speed	min ⁻¹ (rpm)	19000	13700	7600
Abrasive Disc		1", 1-1/2" and 2"	100 mm	180 mm
Inlet Size		Rc	1/4	Rc 3/8
Mass (Weight)	kg	0.6	1.1	2.4
Accessories Included		2 pieces of 14 mm Single Ended Spanner Bushing R 1/4 x NPT 1/4 1" Disc Sanding Pad 1-1/2" Disc Sanding Pad 2" Disc Sanding Pad Assortment of Sample Abrasive Discs Contains: 2 each of #60, #80, #100 and #120 1" Abrasive Disc 2 each of #60, #80, #100 and #120 1-1/2" Abrasive Disc 2 each of #60, #80, #100 and #120 2" Abrasive Disc	5 mm Hex. Socket Screw Key 6 mm Hex. Socket Screw Key Bushing R 1/4 x NPT 1/4	Handle 11 mm Single Ended Spanner 10 mm Hex. Socket Screw Key

Grinding	Wheels for MYTON I	MYG-25	
PN	Description	Sales Unit	Appearance
TB11078	GS#46 x 58 mm	E non last	
TB11079	GS#60 x 58 mm	5 pcs./set	TO THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUM
TB11077	GS#80 x 58 mm	10 pcs./set	
TB11080	GS#100 x 58 mm	E poo loot	
TB11081	GS#120 x 58 mm	5 pcs./set	

Flap Dis	cs for MYTON MYG-25		
PN	Description	Sales Unit	Appearance
TB11229	Myton Disc Z Z#40 x 58		- MATTER
TB11230	Myton Disc Z Z#60 x 58		The state of the s
TB11231	Myton Disc Z Z#80 x 58	5 pcs./set	
TB11232	Myton Disc Z Z#100 x 58		
TB11233	Myton Disc Z Z#120 x 58		
TB11234	Myton Disc SA A#40 x 58		- introd
TB11235	Myton Disc SA A#60 x 58		10-
TB11236	Myton Disc SA A#80 x 58	5 pcs./set	
TB11237	Myton Disc SA A#100 x 58		600
TB11238	Myton Disc SA A#120 x 58		Designed for curve sanding.
*Please us	e commercially available con	nsumables for	MYG-40/MYG-70

^{*}Please use commercially available consumables for MYG-40/MYG-70.

	Abrasive	e Discs and Disc Pads f	or MYTON N	MYS-20		
	PN	Description	Sales Unit	Abrasive Disc	Disc Pad	Sales Unit
	TB10986	Abrasive Disc 1" x #40			TQ14384	
	TB10987	Abrasive Disc 1" x #60			1" Disc	
	TB10988	Abrasive Disc 1" x #80		OD.	Sanding Pad	
	TB10989	Abrasive Disc 1" x #100	2E noo loot	mi		1 1 1 1 1 1 1 1
1	TB10990	Abrasive Disc 1" x #120	25 pcs./set	\$		1 piece
	TB10991	Abrasive Disc 1" x #180		0		
٦	TB10992	Abrasive Disc 1" x #240				
+	TB10993	Abrasive Disc 1" x #320				
	TB10994	Abrasive Disc 1-1/2" x #40			TQ14383	
	TB10995	Abrasive Disc 1-1/2" x #60			1-1/2" Disc	
	TB10996	Abrasive Disc 1-1/2" x #80		The second	Sanding Pad	
	TB10997	Abrasive Disc 1-1/2" x #100	2E noo loot	myte		1 51000
\dashv	TB10998	Abrasive Disc 1-1/2" x #120	25 pcs./set	a minis	1	1 piece
	TB10999	Abrasive Disc 1-1/2" x #180		0		
	TB11000	Abrasive Disc 1-1/2" x #240				
	TB11001	Abrasive Disc 1-1/2" x #320				
	TB11002	Abrasive Disc 2" x #40			TQ14382	
g.	TB11003	Abrasive Disc 2" x #60			2" Disc	
	TB11004	Abrasive Disc 2" x #80		toold.	Sanding Pad	
	TB11005	Abrasive Disc 2" x #100	25 pcs./set	myron		1 piece
	TB11006	Abrasive Disc 2" x #120	25 pcs./set			i piece
	TB11007	Abrasive Disc 2" x #180				
	TB11008	Abrasive Disc 2" x #240				
	TB11009	Abrasive Disc 2" x #320				

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

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

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



Pneumatic Belt Sander

BELTON

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

- Quick belt change
- Rear exhaust system



BELTON-10 Model B-10CL CE

• Belt size 10 mm (W)

BELTON-20 Model **B-20CL** CE

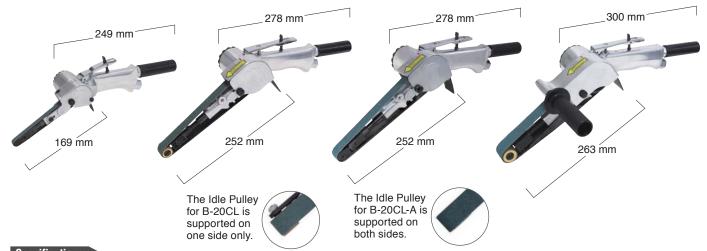
• Belt size 20 mm (W)

BELTON-20 Model B-20CL-A CE

• Belt size 20 mm (W)

BELTON-30 Model **B-30CL** CE

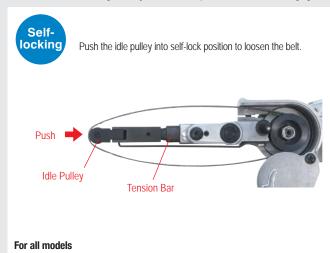
• Belt size 30 mm (W)

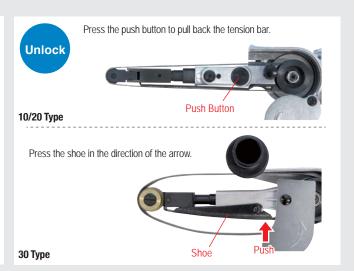


Specifications						
Model		B-10CL	B-20CL	B-20CL-A	B-30CL	
Air Pressure	MPa (kgf/cm²)		0.6	(6)		
Air Consumption (No-load)	m³/min	0.4	0.	48	0.82	
Free Speed	min ⁻¹ (rpm)	17000	18	000	15000	
Belt Speed	m/min	1120	27	2770		
Belt Size	mm	10 x 330	20 x	30 x 540		
Inlet Size			Rc			
Mass (Weight)	kg	0.9	1.6	1.5	2.4	
Accessories Included		2 pieces of Abrasive Belt Z#60 x 10 mm (1 piece installed) Abrasive Belt Z#80 x 10 mm Abrasive Belt Z#100 x 10 mm Abrasive Belt Z#120 x 10 mm 1.5 mm Hex. Socket Screw Key 4 mm Hex. Socket Screw Key Bushing R 1/4 x NPT 1/4	installed) Z#60 x 20 mm (1 piece installed) Abrasive Belt Z#80 x 20 mm Abrasive Belt Z#100 x 20 mm Abrasive Belt Z#120 x 20 mm Abrasive Belt Z#120 x 20 mm rew Key 2.5 mm Hex. Socket Screw Key 4 mm Hex. Socket Screw Key		2 pieces of Abrasive Belt Z#60 x 30 mm (1 piece installed) Abrasive Belt Z#80 x 30 mm Abrasive Belt Z#100 x 30 mm S mm Hex. Socket Screw Key Handle Assy Bushing R 1/4 x NPT 1/4	

Easy belt change

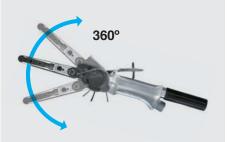
Abrasive belt can be changed easily. *Rotate and open the cover when changing.





Adjustable angle for efficient operation

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



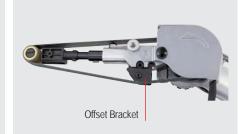
Belt Speed Adjustment

Belt speed can be easily adjusted by turning the adjust valve with a screwdriver.



Curved surface grinding

Curved surface grinding is possible by using the Offset Bracket (Optional).



Abrasive Belt for BELTON-10

Belt Size : 6 mm x 330 mm (W x L)				
Grit		PN		
GIIL	Zirconia (Z)	Alumina (AA)		
#40	-	-		
#60	TB10924	-		
#80	TB10925	-		
#100	TB10926	-		
#120	TB10927	-		
#180	TB10928	-		
#240	TB10929	-		
#400	-	TB10941		
Sales Unit 50 pcs./set	on the same of the			

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

Abrasive Belt for BELTON-10

Belt Size : 10 mm x 330 mm (W x L)					
C-::1	PN				
Grit	Zirconia (Z)	Alumina (AA)	Ceramic (CE)		
#40	-	-	TB10943		
#60	TB10904	-	TB10944		
#80	TB10905	-	TB10945		
#100	TB10906	-	TB10946		
#120	TB10907	-	TB10947		
#180	TB10908	-	-		
#240	TB10909	-	-		
#400	-	TB10936	-		
Sales Unit 50 pcs./set	Canada Ca		To the same of the		

Abrasive Belt for BELTON-20

Belt Size : 20 mm x 520 mm (W x L)					
Grit	PN				
GIIL	Zirconia (Z)	Alumina (AA)	Ceramic (CE)		
#40	TB10910	-	TB10948		
#60	TB10911	-	TB10949		
#80	TB10912	-	TB10950		
#100	TB10913	-	TB10951		
#120	TB10914	-	TB10952		
#180	TB10915	-	-		
#240	TB10916	-	-		
#320	-	TB10937	-		
#400	-	TB10938	-		
Sales Unit 20 pcs./set			E GOTON		

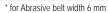
Abrasive Belt for BELTON-30

Augustic Bolt for Ballion Sc						
Belt Size : 30 mm x 540 mm (W x L)						
Grit	PN					
GIIL	Zirconia (Z)	Alumina (AA)	Ceramic (CE)			
#40	TB10917	-	TB10953			
#60	TB10918	-	TB10954			
#80	TB10919	-	TB10955			
#100	TB10920	-	TB10956			
#120	TB10921	-	TB10957			
#180	TB10922	-	-			
#240	TB10923	-	-			
#320	-	TB10939	-			
#400	-	TB10940	-			
Sales Unit 20 pcs./set			article.			

Optional Parts

				Appli		icable Mode	l
Ref. No.	PN	Description	Sales Unit	B-10CL		B-20CL B 20C	B-30CL
				6 mm	10 mm	B-20CL-A	D-300L
1	TB09997	Offset Bracket 10 Ass'y	1 set				
2	TB10192	Offset Bracket 20 Ass'y	1 set			•	
3	TB08150	Offset Bracket 30 Ass'y	1 set				
4	TB09938	Finger Pad Ass'y	1 set			•	
5	TB09996	Bracket 6 Ass'y	1 set	•			
6	TP14770	Shoe 6	1 piece	•			
7	TB10160	Idle Pully Bracket Ass'y	1 set			•	
8	TB10191	Convex Shoe	1 piece			•	
-	TB08337	Idle Pully Ass'y (Steel) for B-20CL-A	1 set			•	
-	TB08387	Idle Pully Ass'y (Steel) for B-20CL	1 set			•	







Pneumatic Belt Sander

BABY BELTON

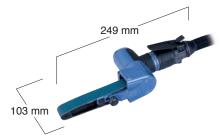
Ideal for deburring, chamfering, bead grinding, and polishing applications

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



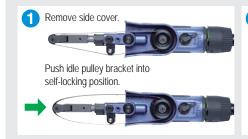
BABY BELTON-20
Model BB-20 CE

• Belt size 20 mm (W)

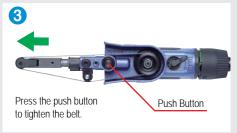


Specifications				
Model		BB-10B Lever Type	BB-10B Ring Type	BB-20
Air Pressure	MPa (kgf/cm²)		0.6 (6)	
Air Consumption (No-load)	m³/min		0.2	0.43
Free Speed	min ⁻¹ (rpm)	1:	7000	16000
Belt Speed	m/min	1	120	1100
Belt Size	mm	10	x 330	20 x 330
Inlet Size			Rc 1/4	
Mass (Weight)	kg	0.55	0.5	0.8
Accessories Included		Abrasive Belt Z#100 x 10 mm (Installed) Abrasive Belt Z#120 x 10 mm Abrasive Belt Z#180 x 10 mm Abrasive Belt Z#240 x 10 mm 1.5 mm Hex. Socket Screw Key Bushing R 1/4 x NPT 1/4 Offset Bracket Ass'y	Abrasive Belt Z#100 x 10 mm (Installed) Abrasive Belt Z#120 x 10 mm Abrasive Belt Z#180 x 10 mm Abrasive Belt Z#240 x 10 mm Abrasive Belt Z#240 x 10 mm Socket Screw Key Bushing R 1/4 x NPT 1/4 Offset Bracket Ass'y	Abrasive Belt Z#60 x 20 mm (Installed) Abrasive Belt Z#120 x 20 mm Abrasive Belt Z#240 x 20 mm 2.5 mm Hex. Socket Screw Key 3 mm Hex. Socket Screw Key Shoe Dust Cover Bushing R 1/4 x NPT 1/4

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

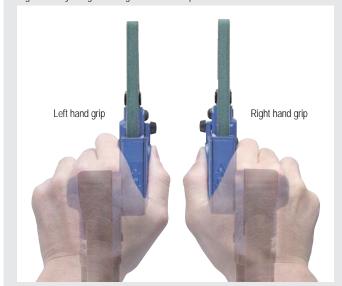






The throttle lever can be turned by 180 degrees.

Ergonomically designed for right or left hand operator convenience



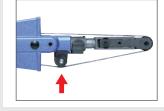
Sanding for curved surfaces

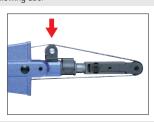
Curved surface sanding is possible by using the offset bracket.



The offset bracket can be positioned up or down.

Push-in offset bracket pulley allows the following use.





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

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

Controlling the chip splash direction





Adjusting FR Valve

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





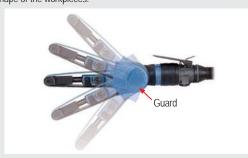
FR Valve

Forward (right)

Reverse (left)

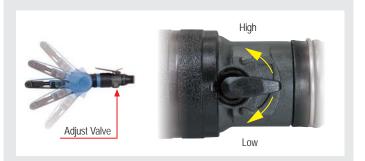
Guard position is adjustable (BB-20)

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



Belt Speed Adjustment (BB-20)

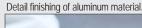
Belt speed can be easily adjusted by turning the adjust valve without a tool.



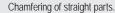
Ideal for deburring, chamfering, bead grinding, and polishing applications

Deburring of die cast parts.





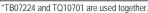






Optional Parts

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





Abrasive Belt for BABY BELTON-10

ABIGSIVE DEIL IOI DADT DELIGIT TO					
Belt Size : 10 mm x 330 mm (W x L)					
Grit	PN				
Grit	Zirconia (Z)	Alumina (AA)	Ceramic (CE)		
#40	-	-	TB10943		
#60	TB10904	-	TB10944		
#80	TB10905	-	TB10945		
#100	TB10906	-	TB10946		
#120	TB10907	-	TB10947		
#180	TB10908	-	-		
#240	TB10909	-	-		
#400	-	TB10936	-		
			- Cit		
Sales Unit			-		

Abrasive Belt for BABY BELTON-20								
	Belt Size : 20 mm x 330 mm (W x L)							
Grit								
unt	Zirconia (Z)	Alumina (AA)	Ceramic (CE)	Non-woven				
#40	-	-	-	-				
#60	TB10930	-	TB10958	-				
#80	TB10931	-	TB10959	-				
#100	TB10932	-	TB10960	-				
#120	TB10933	-	TB10961	-				
#180	TB10934	-	-	TB11047 A-M Equivalent to #180				
#240	TB10935	-	-	-				
#320	-	-	-	TB11046 A-VF Equivalent to #320				
#400	-	TB10942	-	TB11048 S-SF Equivalent to #400				
	20 pcs./set	20 pcs./set	20 pcs./set	5 pcs./set				
Sales Unit			Total Control of the					

Pneumatic Sander

COMPACT MULTI SANDER

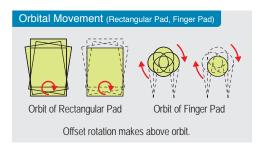
Model CMX-20 C€



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

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





Dual Action Movement (2" Round Pad)



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

Speed Adjustment



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

Pad Replacement



Pad replacement can easily be made with the included spanner 10 and 4 mm hex. socket screw key.

In case of 2" round pad, only the spanner 10 is used. Use a suitable pad in accordance with the work area or area to be sanded.

Specifications

Model		CMX-20
Air Pressure	MPa	0.6
Air Consumption (No load)	m³/min	0.15
Orbit Diameter	mm	2
Mass (Weight)	kg	0.53 (without pad)

The rectangular pad comes mounted to the tool.

Accessories Included

- · 2 pieces of 2" Velcro Abrasive Paper #80
- 2 pieces of 2" Velcro Abrasive Paper #120
 2 pieces of 2" Velcro Abrasive Paper #180
- 2 pieces of 26 x 50 mm Velcro Abrasive Paper #80
- 2 pieces of 26 x 50 mm Velcro Abrasive Paper #120
- 2 pieces of 26 x 50 mm Velcro Abrasive Paper #180
- 5 pieces of 16 mm Self Adhesive Abrasive Paper #80
- 5 pieces of 16 mm Self Adhesive Abrasive Paper #120 5 pieces of 16 mm Self Adhesive Abrasive Paper #180
- 2" Round Pad
- 16 mm Finger Pad 4 mm Hex. Socket Screw Key • Bushing R 1/4 x NPT 1/4
- · Ultra-thin Wrench SNT1012
- Tool Box

Optional Accessories

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



Accessory Sanding Pad

Free Speed min ⁻¹ 13000 14500	13000
Paper Size mm 26 × 50 50 dia.	16 dia.

Rectangular Pad



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



2" Round Pad

16 mm Finger Pad

Handy Pneumatic Sander

FREE SANDER

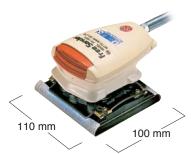
Super lightweight, low-vibration design

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

Model FS-50A €€



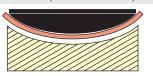




Specifications				
Model		FS-50A	FS-100C	
Air Pressure MP	a (kgf/cm²)	0.6 (6)		
Air Consumption (No-load)	m³/min	0.14	0.2	
Free Speed	min ⁻¹ (rpm)	15000	20000	
Orbit Diameter	mm	1.2	1.5	
Pad Size	mm	75 x 82	110 x 100	
Paper Size	mm	70 x 114	114 x 140	
Inlet Size		Ro	: 1/8	
Mass (Weight)	kg	(0.5	
Accessories Included		Air Hose H Ass'y 5 pieces of Sanding Paper #180	• 5 pieces of Sanding Paper #240 • Bushing R 1/4 x NPT 1/4	

Round-Pad for FS-100C

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



Optiona	Accessor	ries		
Ref. No.	PN	Description	Sales Unit	Model
1	TA99828	Rubber Pad	1 5000	FS-50A
2	TB02240	Dust Collector	1 piece	FS-50A
3	TA9A367	Rubber Pad		
4	TA91474	Round Pad	1 piece	
5	TB02235	Dust Collector		
6	TA9A265	Sanding Paper #100		
	TA9A266	Sanding Paper #120		FS-100C
	TA9A267	Sanding Paper #150		F3-100C
	TA9A268	Sanding Paper #180	200 pcs./set	
	TA9A269	Sanding Paper #240		
	TA9A270	Sanding Paper #280		
	TA9A271	Sanding Paper #320		



Pneumatic Reciprocating Sander

LINE SANDER

Ideal for inline and grain sanding applications

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

Model LS-10 C€



Specifications		
Model		LS-10
Air Pressure MPa	(kgf/cm ²)	0.6 (6)
Air Consumption (No-load)	m³/min	0.11
Free Speed	min ⁻¹	4000
Stroke Length	mm	4
Pad Size	mm	55 x 103
Paper Size	mm	57 x 140
Inlet Size		Rc 1/8
Mass (Weight)	kg	0.75
Accessories Included		Air Hose E Ass'y Block Rubber Pad Base Plate A Ass'y 5 pieces of Sanding Paper #240 5 pieces of Sanding Paper #320 Bushing R 1/4 x NPT 1/4



Special Sanding Pad

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



Abrasive Paper

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

	11"——			
	1/8			
့ ၂				
\perp				

Optional Accessories

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







Pneumatic Compact Sander

ORBITAL SANDER

Model OSV-60A CE

Heavy-duty and powerful with adjustable speed regulator

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



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



Random orbital action creates a professional finish

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



Pneumatic Compact Sander

PALM ORBITAL SANDER

Model APS-125 CE Model APS-150 CE



Random orbital action creates a professional finish

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



Ergonomic lightweight design

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

Applications

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

Specifications				
Model		APS-125	APS-150	
Air Pressure MI	Pa (kgf/cm²)	0.6	(6)	
Air Consumption (No-load)	m³/min	0.4	15	
Free Speed	min ⁻¹ (rpm)	10000		
Orbit Diameter mm		5		
Paper Size mm		125 (5")	150 (6")	
Pad Type		Leather or Velcro with 5 holes	Velcro with 6 holes	
Inlet Size		Rc ·	1/4	
Mass (Weight) kg		0.69	0.72	
Accessories Included		• 17 mm Single Ended Spa • Bushing R 1/4 x NPT 1/4	nner	

For Self Vacuum & Central Vacuum

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

Self Vacuum



Optional parts required for adding Self Vacuum function

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

Central Vacuum



Optional parts required for adding Central Vacuum function

TQ04682 Ejector LQ02848 P Tapping Screw **Pneumatic Die Grinder**

AIR SONIC

Ideal for most deburring, finishing and grinding applications

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





Specifications			
Model		L-25B	L-35C
Air Pressure	MPa (kgf/cm²)	0.6	6 (6)
Air Consumption (No-load)	m³/min	0.4	0.35
Free Speed	min ⁻¹ (rpm)	27000	37500
Chuck Size	mm		6
Inlet Size		Rc	1/4
Mass (Weight)	kg	0.6 (without hose)	0.45 (without hose)
Accessories Included		• 14 mm Single Ended Spanner • Mounted Wheel No.2 • Mounted Wheel No.3 • Chuck Pin • Bushing R 1/4 x NPT 1/4	2 pieces of 14 mm Single Ended Spanner Mounted Wheel 13 x 13 x 6 x 38 Bushing R 1/4 x NPT 1/4



Optional Accessory					
PN	Description	Sales Unit			
TP02806	Chuck Sleeve 6 x 3 mm	1 piece			
A mounted wheel or rotary burr with 3 mm shaft can be installed on L-25B and L-35C by using the chuck sleeve 6 x 3.					





Pneumatic Die Grinder

AIR SONIC



High speed rotation 56500 rpm

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

Chaoifications

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

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

Portable Precision Finishing File

SUPER HAND

Fast, efficient filing, sanding and deburring tools

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







Specifications Model		SH-100A	ASH-900		
Air Pressure	MPa (kgf/cm²)		0.6 (6)		
Air Consumption (No-load)	m³/min	0.24	0.13		
Stroke Speed	min ⁻¹	3700	6300		
Stroke Length	mm		9		
File shank Size	mm	6.3	5.0		
Inlet Size		Rc 1/4			
Mass (Weight)	kg	1.1 0.5			
Accessories Included		Rat Tail File SF-10 Triangular Taper File SF-11 Half Round File SF-12 Flat File SF-13 3 mm Hex. Socket Screw Key Bushing R 1/4 x NPT 1/4 Air Hose E Ass'y	 Rat Tail File SF-10 Triangular Taper File SF-11 Half Round File SF-12 Flat File SF-13 2.5 mm Hex. Socket Screw Key Bushing R 1/4 x NPT 1/4 		

Optional Accessories
Sales Unit: 5 pcs./set
Rat Tail File SF-10
PN: TB11095
Triangular Taper File SF-11
PN: TB11096
Half Round File SF-12
PN: TB11097 105
Flat File SF-13 PN: TB11098 105

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



Portable Precision Finishing File

SUPER HAND LIGHT





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

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

Specifications			Optional Accessories
Model		SHL-40	Sales Unit: 3 pcs./set
Air Pressure	MPa (kgf/cm²)	0.6 (6)	Rat Tail File LF-10
Air Consumption (No-load)	m³/min	0.07	
Stroke Speed	min ⁻¹	9000	PN: TB11092
Stroke Length	mm	4	Triangular Taper File LF-11
File shank Size	mm	3.0	3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,
Inlet Size		Rc 1/4	PN: TB11094
Mass (Weight)	kg	0.4	Half Round File LF-12
Accessories Included		Flat File LF-13 2 mm Hex. Socket Screw Key Bushing R 1/4 x NPT 1/4	PN: TB11093 80 Flat File LF-13

Portable Fine Finishing File

MICRO AIR HAND

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

· Fine reciprocating motion best for precision parts filing



Specifications				
Model		MAH-05	MAH-16	
Air Pressure MP	a (kgf/cm²)	0.6 (6)		
Air Consumption (No-load)	m³/min	0.0	07	
Stroke Speed	min ⁻¹	22000	11000	
Stroke Length	mm	0.5	2.2	
File Shank Size mm		3		
Inlet Size		Rc	1/4	
Mass (Weight)	kg	.g 0.37		
Accessories Included		Flat End Diamond File Round End Diamond File 2 mm Hex. Socket Screw Bushing R 1/4 x NPT 1/4		

Optional A	Accessories	
PN	Description	Sales Unit
TB11105	Flat End Diamond File	5 pcs./set
TB11106	Round End Diamond File	5 pcs./set
TB11107	Triangular End Diamond File	5 pcs./set
TB11108	Half-round End Diamond File	5 pcs./set
TB07506	Vice Holder*	1 set

Mounting Examples

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



BURR CUTTER

Model BC-005 C€







For deburring machined holes

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

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

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

Compatibility table between chuck and countersink shank diameter						
Chuck	Appearance*	Countersink Shank Diameter (mm)	Overall Length of Chuck (mm)			
Chuck 6		6	49.5			
Chuck 8		8	49.5			
Chuck 10		10	49.5			
Chuck 12		12	60			

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

CUTTING/DRILLING

Pneumatic Hacksaw

SUPER SAW

Model SSW-110 €



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

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



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

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

Pneumatic Hand Drill

AIR DRILL

The power and performance you need to drill deeper and faster

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

Model ADR-65 €



Model ADR-100 CE



Reversible Change rotation direction by turning the v	alve as indicated.	
	Forward	Reverse
	Variable speed Turn the speed to change the l	I control nut

Model		ADR-65	ADR-100
Air Pressure MF	Pa (kgf/cm²)	0	.6 (6)
Air Consumption (No-load)	m³/min	0.55	0.67
Free Speed	min ⁻¹ (rpm)	2900	2000
Max. drilling Capacity	mm	6.5	10.0
Inlet Size		F	Rc 1/4
Mass (Weight)	kg	0.8	1.1
Accessories Included		Drill chuck (Installed) Chuck Handle Bushing R 1/4 x NPT 1. CUPLA 30SH	/4

Optional Accessory				
PN	Description	Sales Unit		
TQ10969	Hanger	1 piece		

SPRING BALANCER series



Spring balancer improves work safety and efficiency

Our spring balancers offer a simple cost effective solution to take the strain out of handling tools thus improving work safety and efficiency. The balancer range covers 0.5 to 70 kg tool capacity with a maximum cable length of 2 meters.

Specifica	tions				
Model		TW-00	TW-0	TW-3	TW-5
Capacity	kg	0.5 - 1.5	0.5 - 1.5	1.0 - 3.0	2.5 - 5.0
Stroke	m	0.5	1.0	1.3	1.3
Weight	kg	0.2	0.5	1.4	1.5
Model		TW-9	TW-15	TW-22	TW-30
Capacity	kg	4.5 - 9.0	9.0 - 15.0	15.0 - 22.0	22.0 - 30.0
Stroke	m	1.3	1.3	1.5	1.5
Weight	kg	3.4	3.8	7.2	7.6
Model		TW-40	TW-50	TW-60	TW-70
Capacity	kg	30.0 - 40.0	40.0 - 50.0	50.0 - 60.0	60.0 - 70.0
Stroke	m	1.5	1.5	1.5	1.5
Weight	kg	9.8	10.4	11.6	11.8

HOSE REEL BALANCER series





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

RETRACTOR series



Handy knob for easy tension adjustment

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

Vibration Level, Sound Pressure Level, and Sound Power Level

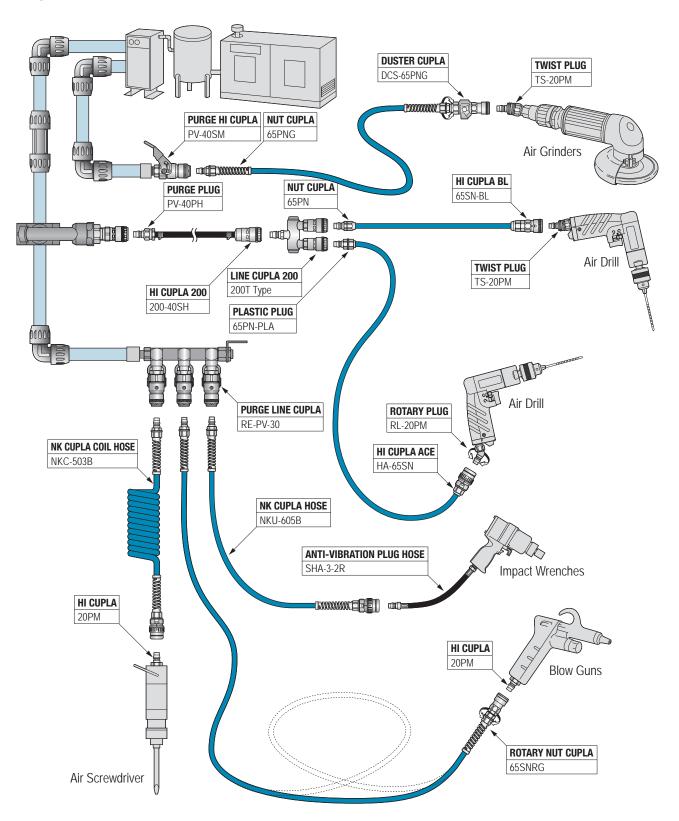
Figures may vary depending on applications

Series	Model	Vibration Level m/s ²	Measurement Point	Vibration Standard	Sound Pressure Level dB(A)	Sound Power
AIR CHIPPER (Pneumatic)	ACH-16	66	Grip	EN 28927-9	86	97
	CH-24	100	Grip	LIN 20721-7	87	98
IR SONIC (Pneumatic)	AL-55A	0.8	Grip		71	82
	L-25B	7.2	Grip	ISO28927-12	76	87
	L-35C	3.1	Grip		76	87
UTO CHISEL (Pneumatic)	A-300	≧ 30	_	EN 28927-9	97	108
ELTON (Pneumatic)	B-10CL	<u>= 30</u> ≦2.5	Grip	211207277	78	89
Eron (Fricamatic)	B-20CL	= 2.5 ≤ 2.5	Grip		81	92
	B-20CL-A	≦2.5	Grip		80	91
	B-30CL	≦2.5	Sub Handle		86	97
	BB-10B Lever Type	≦2.5	Grip L	ISO 20643	79	90
		≦ 2.5	Grip R	100 200 10		
	BB-10B Ring Type	≦2.5	Grip L		79	90
		≦2.5	Grip R		17	70
	BB-20	≦2.5	Grip L		0.5	0.4
		≦2.5	Grip R		85	96
VELER (Pneumatic)	AMB-0307	4.1	Grip			
TVELETT (Fricalitatio)	ANNE 0307	6.3	Knob		87	98
	AMPL 0207					
	AMBL-0307	4.1	Grip		87	98
		6.3	Knob	EN ISO 20643		
	CB-01	≦ 2.5	Grip	LIV 130 20043	88	99
	CB-02	4.1	Grip		74	85
	CBR-03	≦2.5	Grip		04	
		3.4	Handle		81	92
VELER (Electric)	ECB-0203	7.0	Grip			
	202 0200	7.0	Knob		83	84
	EMD 02070					
	EMB-0307C	8.3	Grip		88	99
		3.7	Knob	EN 60745-1		
	HB-15B	≦2.5	Grip	255/10 /	64	75
		4.6	Handle		U4	/3
	MB-03A	5.9	Grip		80	91
		6.6	Knob		80	91
URR CUTTER (Pneumatic)	BC-005	4.2	Grip	EN 20643	89	100
OMPACT MULTI SANDER (Pneumatic		≦2.5	Grip	E14 200 10	76	87
REE SANDER (Pneumatic)	FS-50A	2.7	Grip	EN 28927-3	77	88
TEE SANDER (Fliedillatic)				EIN 20921-3		
	FS-100C	≦2.5	Grip		85	96
T CHISEL (Pneumatic)	AJC-16	4.8	Grip		84	95
	JC-16	8.3	Grip		81	92
		11.5	Needle Guide		01	,,,
	JEX-20	9.0	Grip		92	103
	JEX-24	10.5	Grip			
		28	Needle Guide		93	104
	JEX-28	15.0	Grip	EN ISO 28927-9		
	JEA-20		<u> </u>		96	107
	.=	17.5	Needle Guide			
	JEX-2800A	11.5	Grip		94	105
		14.5	Needle Guide		71	100
	JT-16	9.5	Grip		92	103
	JT-20	15.5	Grip		91	102
T CHISEL (Electric)	EJC-32A	16.0	Grip			
(=:::::::::::::::::::::::::::::::::::::	230 0271	15.0	Handle	EN 60745-2-6	85	96
NE SANDER (Pneumatic)	LS-10	6.0		EN 20442	70	00
ICRO AIR HAND (Pneumatic)	MAH-05		Grip	EN 20643	78	89
ICHO AIR HAND (PREUMATIC)		≦2.5	Grip	EN 28927-8	64	75
	MAH-16	≦2.5	Grip		64	75
YTON (Pneumatic)	MG-40 Lever	5.9	Grip	ISO 28927-1	86	97
	MG-40 Ring	6.0	Grip	100 20721-1	84	95
	MYG-25	≦2.5	Grip	ISO 20643	82	93
	MYG-40	4.2	Grip		94	105
	MYG-50	4.5	Grip			
		4.2	Handle		92	103
	MYG-70 Lever	3.2	Grip	ISO 28927-1		
	INITO-10 LEVEL	8.2	Handle	100 20721-1	92	103
	MVC 70 D:					
	MYG-70 Ring	3.2	Grip		92	103
		8.2	Handle			
	MYS-20	3.3	Grip		82	93
	MYS-40	≦ 2.5	Grip		82	93
	MYS-70	≦2.5	Grip			
		<u>≤</u> 2.5	Handle		89	100
RBITAL SANDER (Pneumatic)	OSV-60A	4.6	Grip	ISO 28927-3		
ional campen (Flieumanc)	00 V 00 N	7.2	<u> </u>		89	100
I M ODDITAL CANDED (D	ADC 10F		Supporting Section		70	
LM ORBITAL SANDER (Pneumatic		5.5	Grip		78	89
	APS-150	7.4	Grip		81	92
JPER HAND (Pneumatic)	ASH-900	4.8	Grip		62	73
•	SH-100A	6.8	Grip	EN 28927-8	76	87
	SHL-40	≦2.5	Grip		71	81
PER KELEN (Pneumatic)	S-250	<u>⇒</u> 2.5	Grip		101	112
FER RELEIN (Prieumatic)					101	112
	S-500	29	Grip		100	111
		17.0	Supporting Section	EN 28927-9		
	S-1000	58	Grip		99	110
			0 " 0 "		77	110
		81	Supporting Section			

QUICK CONNECT COUPLINGS FOR PNEUMATIC TOOLS

CUPLA

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



QUICK CONNECT COUPLINGS FOR PNEUMATIC TOOLS

HI CUPLA



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

Specifications			
Body material	Steel (Chrome-plated)	Brass	Stainless steel
Working pressure	1.5 MPa (15 kgf/cm²)	1.0 MPa (10 kgf/cm ²)	1.5 MPa (15 kgf/cm ²)
Seal material	Nitrile rubber / Fluoro rubber		

HI CUPLA 200



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

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

NUT CUPLA







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

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

HI CUPLA ACE



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

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

ROTARY PLUG



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

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

FULL-BLOW CUPLA



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

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

QUICK CONNECT COUPLINGS FOR PNEUMATIC TOOLS

LINE CUPLA





- Just push in the plug into socket for simple and secure connection
- Choose from the 2-outlet type (Model 200T), the 5-outlet straight type (Model 200L) and the 5-outlet star type (Model 200S) to suit your application

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

HI CUPLA BL





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

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

PURGE PLUG



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

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

ANTI-VIBRATION PLUG HOSE



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

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

PURGE HI CUPLA



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

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

ROTARY LINE CUPLA



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

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

Nitto Kohki's Labor Saving Products

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

Professional Tools for Assembling High-Technology Goods

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

Jelvo Brushless Type C series (DLV45C)



- Torque range: 0.6 4.5 Nm
- Speed: 100 1200 min-1
- Machine screw size: 3.0 6.0 mm
- Current controlled torque system
- · Build-in screw counting function
- Thirty different torque setting can be set on a single screwdriver.

Jelvo Brushless Type C series (DLV04C/DLV10C)



- Torque range: 0.05 1.0 Nm
- Speed: 100 1000 min⁻¹
- Machine screw size: 1.2 4.0 mm
- Current controlled torque system
- Build-in screw counting function

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



- Torque range: 0.4 7.0 Nm
- Speed: 160 2000 min⁻¹
- Machine screw size: 2.6 8.0 mm
- Automatic speed control function
- · Setting with the Remote Controller
- · Build-in screw counting function

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



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

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

Nitto Kohki's Labor Saving Products

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

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

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

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

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



Piezoelectric Pump

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



DC Diaphragm Liquid Pump

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



AC Linear Free Piston Blower

- · Linear blowers for aeration
- · Low noise and easy maintenance







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).

Model		el Prod. No. Description			Page Model			Prod. No.	Description	Page
A-300		090600001	AUTO CHISEL	33	J	JC-16		060100001	JET CHISEL	35
ACH-16		091800001	AIR CHIPPER	32		JEX-20		060900001	JET CHISEL	35
ADR-100		160700020	AIR DRILL	49		JEX-24		060300001	JET CHISEL	35
ADR-65		160700030	AIR DRILL	49		JEX-28		060500001	JET CHISEL	35
AJC-16		061100001	JET CHISEL	35		JEX-2800A		060500100	JET CHISEL	35
AL-55A		184500001	AIR SONIC	46		JT-16		061200001	JET CHISEL	35
AMB-0307		135400001	MINI BEVELER	29		JT-20		061000001	JET CHISEL	35
AMBL-0307		135600001	MINI BEVELER	29	L	L-25B		180800001	AIR SONIC	46
AO-5575A	220 - 240 V	016815001	ATRA ACE	13		L-35C		184100001	AIR SONIC	46
APS-125	NVL5H	074903001	PALM ORBITAL SANDER	45		LO-3550	220 - 240 V	018000401	ATRA ACE	9
APS-125	NVV5H	074900001	PALM ORBITAL SANDER	45		LS-10	220 210 1	170300001	LINE SANDER	44
APS-150	NVV6H	075000001	PALM ORBITAL SANDER	45	M	MG-40	Lever	075619001	MYTON	37
ARA-100A	220 - 240 V	016810401	ATRA ACE	5		MG-40	Ring	075619092	MYTON	37
ASH-900	220 240 V	111400001	SUPER HAND	47		MAH-05	King	111000001	MICRO AIR HAND	48
B-10CL		101850001	BELTON	39		MAH-16		111100001	MICRO AIR HAND	48
B-20CL		101860001	BELTON	39		MB-03A	230 V	130500201	MINI BEVELER	28
B-20CL-A		101900001	BELTON	39		MYG-25	230 V	075615001	MYTON	37
B-30CL		101900001	BELTON	39		MYG-40		075613001	MYTON	37
BB-10B	Lever	101910001	BABY BELTON	41		MYG-50		075621008	MYTON	37
BB-10B BB-10B	Ring	101910001	BABY BELTON	41		MYG-70	Lever	075612092	MYTON	37
	Killy			41		MYG-70		075612092		37
BB-20		101700012	BABY BELTON				Ring		MYTON	
BC-005		136505101	BURR CUTTER	48		MYS-20		075610001	MYTON	38
BHM-02035		TB00390	BROACH HOLDER	18		MYS-40		075611001	MYTON	38
BHM-03050		TB00392	BROACH HOLDER	18	0	MYS-70	Japanese	075618000	MYTON	38
BHM-13075		TB00352	BROACH HOLDER	18			440 40014	074400001	ORBITAL SANDER	45
BHM-14075		TB00354	BROACH HOLDER	18	Q		110 - 120 V	015700101	ATRA ACE	15
CB-01		136503001	CIRCUIT BEVELER	29		QA-4000	220 - 240 V	015700401	ATRA ACE	15
CB-02		135200001	CIRCUIT BEVELER	30	-	QA-6500	220 - 240 V	015800401	ATRA ACE	15
CBR-03		136502000	CIRCUIT BEVELER	30	К	RW-0		169000141	RETRACTOR	50
CH-24		091500001	AIR CHIPPER	32		RW-3		169000151	RETRACTOR	50
CLA-2720	220 - 240 V	016811401	ATRA ACE	7		RW-5		169000161	RETRACTOR	50
CMX-20		075608001	COMPACT MULTI SANDER	43	S	S-1000		090300010	SUPER KELEN	34
E25-0615	220 - 240 V	155500401	HANDY SELFER	21		S-250		090100010	SUPER KELEN	34
E55-0619	110 - 120 V	155300101	HANDY SELFER	21		S-500		090200010	SUPER KELEN	34
E55-0619	220 - 240 V	155300501	HANDY SELFER	21		SC-05	115 V	151000601	PUMP	20
ECB-0203	220 - 240 V	135800300	CIRCUIT BEVELER	28		SC-05	230 V	151000401	PUMP	20
EJC-32A	110 - 120 V	065200101	JET CHISEL	36		SH-100A		110500001	SUPER HAND	47
EJC-32A	220 - 240 V	065200301	JET CHISEL	36		SHL-40		111500001	SUPER HAND LIGHT	47
EMB-0307C	110 - 120 V	136002400	MINI BEVELER	27		SSW-110		110800101	SUPER SAW	49
EMB-0307C	220 - 240 V	136020300	MINI BEVELER	27	T	TW-0		169000021	SPRING BALANCER	50
FS-100C		080900001	FREE SANDER	44		TW-00		169000011	SPRING BALANCER	50
FS-50A		080600001	FREE SANDER	44		TW-06R		169002101	RECTRACTOR	50
HA06-1322		155700001	SELFER	20		TW-1R		169000131	RECTRACTOR	50
HA07-1624		155800001	SELFER	20		TW-3		169000031	SPRING BALANCER	50
HA11-1624		155900001	SELFER	20		TW-5		169000041	SPRING BALANCER	50
HB-15B	110 - 120 V	131000102	HAND BEVELER	27		TW-9		169000051	SPRING BALANCER	50
HB-15B	220 - 240 V	131000201	HAND BEVELER	27		TW-15		169000061	SPRING BALANCER	50
HPD-05	115 V	152500601	PUMP	19		TW-22		169000071	SPRING BALANCER	50
HPD-05	230 V	152500401	PUMP	19		TW-30		169000081	SPRING BALANCER	50
HPD-05 CE	115 V	152500602	PUMP	19		TW-40		169000091	SPRING BALANCER	50
HPD-05 CE	230 V	152500402	PUMP	19		TW-50		169000101	SPRING BALANCER	50
HS06-1322		152100001	SELFER ACE	19		TW-60		169000111	SPRING BALANCER	50
HS06-1322 CE		152100003	SELFER ACE	19		TW-70		169000121	SPRING BALANCER	50
HS07-1624		152200001	SELFER ACE	19	W	WA-3500	110 - 120 V	017400111	ATRA ACE	11
HS07-1624 CE		152200001	SELFER ACE	19		WA-3500	220 - 240 V	017400111	ATRA ACE	11
HS11-1624		152300001	SELFER ACE	19		WA-5000	110 - 120 V	018100102	ATRA ACE	11
HS11-1624 CE	•	152300001	SELFER ACE	19		WA-5000	220 - 240 V	018100301		11
HS11-1624 CE HW-0									ATRA ACE	
		169000171	HOSE REEL BALANCER	50		WOJ-3200	110 - 120 V	016600101	ATRA ACE	13
HW-3		169000181	HOSE REEL BALANCER	50		WOJ-3200	220 - 240 V	016600300	ATRA ACE	13

Power Tools & Machine Tools















www.nitto-kohki.co.jp/network/id/









www.nitto-kohki.co.jp/network/th/









NITTO KOHKI CO., LTD.

Head Office

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

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

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



Overseas Affiliates / Offices

NITTO KOHKI U.S.A., INC.

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

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

For CUPLA

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

Tel: +1-630-924-8811 Fax: +1-630-924-0808 www.nittokohki.com/

NITTO KOHKI EUROPE GMBH

Gottlieb-Daimler-Str. 10, 71144 Steinenbronn, Germany Tel: +49-7157-989555-0 Fax: +49-7157-989555-40 www.nitto-kohki.eu/

NITTO KOHKI EUROPE GMBH UK Branch

Unit A5, Langham Park Industrial Estate, Maple Road, Castle Donington, Derbyshire DE74 2UT, United Kingdom Tel: +44-1332-653800 Fax: +44-1332-987273 www.nitto-kohki.eu/

NITTO KOHKI CO., LTD. Bangkok Representative Office

2 Jasmine Building, 22nd Floor, Soi Prasarnmitr(Sukhumvit23), Sukhumvit Road, North Klongtoey, Wattana, Bangkok 10110, Thailand Tel: +66-2612-7388

Thai www.nitto-kohki.co.jp/network/th/ Vietnamese www.nitto-kohki.co.ip/network/vi/

NITTO KOHKI CO., LTD. India Liaison Office

14th Floor, Tower 5B, DLF Epitome, DLF Cyber City, Phase 3, Gurugram, Haryana 122002, India Tel: +91-124-460-7701 www.nitto-kohki.co.jp/network/

NITTO KOHKI CO., LTD. Singapore Branch

18, Kaki Bukit Road 3, #02-12, Entrepreneur Business Centre, Singapore 415978 Tel: +65-6227-5360 Fax: +65-6227-0192 www.nitto-kohki.co.jp/network/

NITTO KOHKI CO., LTD. Indonesia Representative Office

Centennial Tower 35th Floor Jl. Jend. Gatot Subroto Kav. 24-25, Jakarta 12930, Indonesia Tel: +62-21-2953-9500 www.nitto-kohki.co.jp/network/id/

NITTO KOHKI AUSTRALIA PTY LTD

77 Brandl Street, Eight Mile Plains, Queensland 4113, Australia Tel: +61-7-3340-4600 Fax: +61-73340-4640 www.nitto-australia.com.au/

NITTO KOHKI (SHANGHAI) CO., LTD.

Room1506. Suite C. Orient International Plaza No.85 Loushanguan Road, Shanghai 200336, China Tel: +86-21-6415-3935 Fax: +86-21-6472-6957 www.nitto-kohki.cn/

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

Room 708, Building 1, Wanting Building, No. 2009 Baoyuan Road, Baoan District, Shenzhen, Guangdong 518102, China Tel: +86-755-8375-2185 Fax: +86-755-8375-2187 www.nitto-kohki.cn//

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