

Power Tools & Machine Tools

General Catalog



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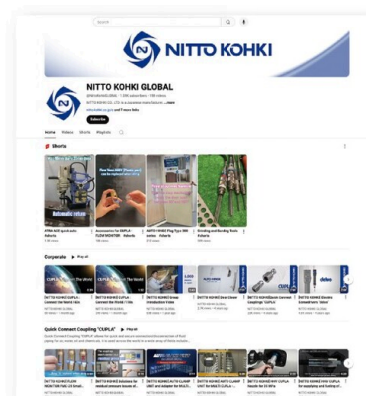
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Green Procurement

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

Nitto Kohki's Official YouTube Global Channel

<https://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	WOJ-3200	AO-5575A	LO-3550	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 Feed Control Function is activated by pushing the Rod Handles towards the body and manual feed is not required.
2. The feed in the first stage of cutting operation is automatically slow to ensure a smooth drilling.
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 drilling forces on the cutter for the optimum cutting condition.
WA-3500/WA-5000: The dual sensing system responds to both drilling and feeding forces on the cutter for the optimum cutting condition.
6. The drill will not start until the magnetic field is active.
7. The drill will not restart even if power is re-supplied after accidental shutdown. Drilling can only be continued after turning on the drill switch.
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/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/AO-5575A/LO-3550/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.

Scan here to see comparison video.
ATRA ACE Auto vs Manual



YouTube

ATRA ACE Specifications



LO-3550



WA-3500



WA-5000

Specifications		LO-3550		WA-3500		WA-5000	
Model		LO-3550		WA-3500		WA-5000	
Electric Drill	Power Source (Single Phase)	220 - 240 V AC, 50/60 Hz		110 - 120 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz	110 - 120 V AC, 50/60 Hz	220 - 240 V AC, 50/60 Hz
	Rated Power Consumption W	800		1100		1150	
	Rated Current A	3.3		10.2	5.1	10.8	5.4
	No-load Speed min ⁻¹ (rpm)	950		950		350 / 650	
Magnet Power Consumption W		35		34		75	
Hole Capacity	Max. Hole Diameter mm	35		35		50	
	Max. Plate Thickness mm	50		50		75	
	One-touch Type JETBROACH	Hole Diameter mm	12 to 35	17.5 to 35		12 to 17	17.5 to 40
		Plate Thickness mm	6 to 50	9 to 50		9 to 25	9 to 35
	Side-lock Type JETBROACH	Hole Diameter mm	—	—		—	
		Plate Thickness mm	—	—		—	
	One-touch Type HI-BROACH	Hole Diameter mm	—	14 to 35		14 to 50	
		Plate Thickness mm	—	9 to 25		9 to 50	
	Twist Drill	Hole Diameter mm	—	—		—	
Max. Stroke mm		80		83		107	
Magnet Holding Power N(kgf)		5500 (561)		7056 (720)		9800 (1000)	
Magnet Dimensions mm		65 x 145		92 x 213		101 x 201	
Overall dimensions * (length) x (width) x (height) mm		339 x 112 x 316		409 x 237 x 530		425 x 237 x 604	
Power Cord Length m		3		3		3	
Mass (Weight) kg		8.7		20		23	
Feeding Method		Manual		Automatic		Automatic	
Page		7		9		9	

*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

Scan here to see comparison video.
ATRA ACE Auto vs Manual



YouTube



WOJ-3200

AO-5575A

QA-4000

QA-6500

ARA-100A

	WOJ-3200		AO-5575A		QA-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
	950		950		680		1010	1800
	8.6	4.3	4.3		6.1	3.0	4.5	8.2
	870		520		750		400/750	110 - 210 /330 - 660
	38	30	50		50		75	80
	32		55		40		65	100
	50		75		35		50	75
	12 to 32		12 to 17	17.5 to 55	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 50		14 to 15	16 to 18	18 to 35	17.5 to 35
	-		9 to 50		9 to 12	9 to 25	9 to 25	13 to 50
	Max. 13		-		-		-	Max. 32
	130		105		75		88	296
	9000 (918)		10000 (1020)		6664 (680)		9800 (1000)	17000 (1733)
	99 x 177		86 x 170		82 x 172		100 x 200	110 x 220
	318 x 196 x 420		432 x 197 x 493		407 x 215 x 424		455 x 215 x 534	570 x 274 x 623
	3		3		4	5	5	5
	13		17.5		18.5		26	30
	Manual		Manual		Automatic		Automatic	Manual
	11		11		13		13	5

Portable Magnetic Base Drilling Machine

ATRA ACE manual feed**Model LO-3550** 

• Max. 35 mm dia. x 50 mm deep

 YouTube**Chip Breaker**

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

**Compact, lightweight, low profile design gives you greater hole making mobility**

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

Specifications

Model		LO-3550	
Power Source (Single Phase)		220 - 240 V AC, 50/60 Hz	
Electric Drill	Rated Power Consumption	W	800
	Rated Current	A	3.3
	No-load Speed	min ⁻¹ (rpm)	950
Hole Capacity mm	Cutter	Hole Diameter	Plate Thickness
	One-touch Type JETBROACH 25L	12 to 17	6 to 25
	One-touch Type JETBROACH 35L	17.5 to 35	6 to 35
	One-touch Type JETBROACH 50L	12 to 35	6 to 50
Min. Plate Thickness for Magnet Adhesion		mm	6
Magnet Holding Power		N(kgf)	5500 (561)
Max. stroke		mm	80
Magnet Dimensions		mm	65 (W) x 145 (L)
Cutter Position Adjustment	Pivot Side to Side	mm	10
	Straight Front to Back	mm	10
Power Cord Length		m	3
Mass (Weight)		kg	8.7*

*Excluding Power Cord and Sub Handle

Accessories Included

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

Optional Accessories

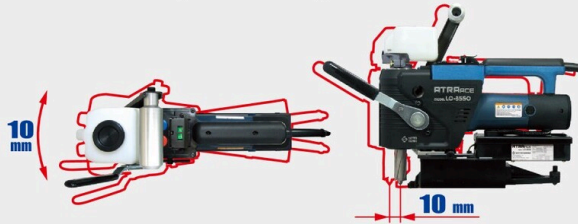
Ref. No.	PN	Description	Sales Unit
1	TB01507	Cutting Oil 2L	1 piece
2	TQ10581	Oil No. 3013	
3	TB01098	Tube 4 x 7 x 3000 Ass'y	1 set
4	TB07306	Lubrication Adapter Ass'y	
5	TB04374	Supporting Magnet Ass'y	
6	TB07696	Pipe Attachment Ass'y	
7	TB11527	Guard	1 piece
*50L for stacked plates		One-touch Type JETBROACH 25L, 35L, 50L	

www.npower.com.vnTài liệu được tổng hợp bởi đội ngũ kỹ thuật của **NPOWER**
Bản quyền nội dung thuộc về **NITTO KOHKI**

BORING

Easy Drilling Position Adjustment

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



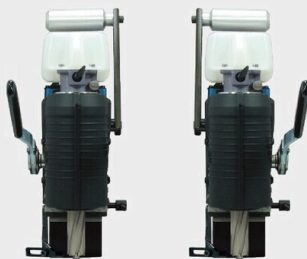
Light Handle Operation

Fast revolution of JETBROACH CUTTER makes less cutting resistance and smooth handling.



Reversible Feed Handle

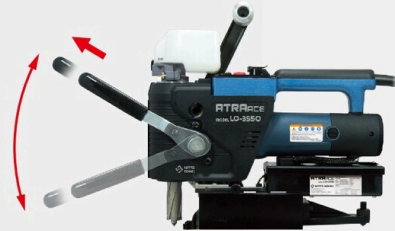
The feed handle can be positioned on the right or left hand side for ease of drilling and mounting in confined spaces.



Adjustable Feed Handle

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

Pull the feed handle to adjust the angle.



Easy-to-use Switch Panel

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

Motor Switch

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

ON OFF

Magnet Switch

ON OFF



LED Load Indicator

The LED load display allows proper cutting pressure adjustments.

A Carrying Case Is Provided

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



Optional Accessories for ATRA ace

Pipe Attachment Ass'y

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

Example of installation on a pipe



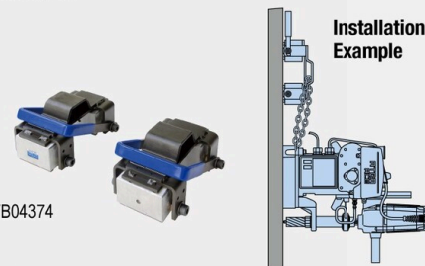
Applicable Pipe Size:
48.6 to 318.5 mm

PN : TB07696

Applicable Models when a 35 mm or 50 mm length one touch type JETBROACH CUTTER is used:
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.



PN : TB04374

Applicable Models:
LO-3550, WA-3500, WDJ-3200, AO-5575A, QA-4000, and QA-6500

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.



Specifications

		HI-BROACH One-touch Type/25L	HI-BROACH One-touch Type/50L	JETBROACH One-touch Type/25,35,50L	JETBROACH One-touch Type/50L(W)	JETBROACH One-touch Type/75L	JETBROACH Side lock Type/75L
Hole Capacity mm	Hole Diameter	25L: 12 - 52 dia.	-	25L: 12 - 17 dia	-	-	-
		-	-	35L: 17.5 - 40 dia.	-	-	-
		-	50L: 12 - 52 dia.	50L: 12 - 65 dia.	50L(W): 18, 22, 24 - 26.5, 28, 32, and 35 dia.	-	-
		-	-	-	75L: 17.5 - 55 dia.	75L: 50 - 100 dia.	
	Plate Thickness	25L: 25	-	25L: 25	-	-	-
		-	-	35L: 35	-	-	-
		-	50L: 50	50L: 50	50L(W): 50	-	-
		-	-	-	-	75L: 75	75L: 75
Feed Speed mm/rev		0.02 - 0.1					
Circumferential Speed m/min		15 - 35 (mild steel)		35 - 50 (mild steel)			

HI-BROACH One-touch Type		ARA-100A	WA-3500	WA-5000	AO-5575A	QA-4000	QA-6500	Pilot Pin
Depth	mm dia. PN							
25 mm	12 TK00698							06025
	13 TK00699							
	14 TK00700							
	15 TK00701							
	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							08025
	24 TK01402							
	24.5 TK01403							
	25 TK01404							
	26 TK01405							
	27 TK01407							
	28 TK01408							
	29 TK01409							
	30 TK01410							
	31 TK01411							
	32 TK01412							
	33 TK01413							
	34 TK01414							
	35 TK01415							
	36 TK01416							
	37 TK01417							
	38 TK01418							
	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							

HI-BROACH One-touch Type		ARA-100A	WA-5000	AO-5575A	Pilot Pin
Depth	mm dia. PN				
50 mm	12 TK00721				06050
	13 TK00722				
	14 TK00723				
	15 TK00724				
	16 TK00725				
	17 TK00726				
	18 TK00727				
	19 TK00728				
	20 TK00729				
	21 TK00730				
	22 TK00731				
	23 TK00732				
	24 TK00733				
	25 TK00734				
	26 TK00735				
	27 TK00736				
	28 TK00737				08050
	29 TK00738				
	30 TK00739				
	31 TK00740				
	32 TK00741				
	33 TK00742				
	34 TK00743				
	35 TK00744				
	36 TK00745				
	37 TK00746				
	38 TK00747				
	39 TK00748				
	40 TK00749				
	41 TK00750				
	42 TK00751				
	43 TK00752				
	44 TK00753				
	45 TK00754				
	46 TK00755				
	47 TK00756				
	48 TK00757				
	49 TK00758				
	50 TK00759				
	51 TK00760				
	52 TK00761				

JETBROACH One-touch Type		ARA-100A	LO-3550	WA-3500	WA-5000	WOJ-3200	AO-5575A	QA-4000	QA-6500	Pilot Pin
Depth	mm dia. PN									
25 mm	12 TK01148									06025
	13 TK01149									
	14 TK01150									
	15 TK01151									
	16 TK01152									
	17 TK01153									
	17.5 TK01249									
	18 TK01250									
	18.5 TK01251									
	19 TK01252									
	19.5 TK01253									
	20 TK01254									
	20.5 TK01255									
	21 TK01256									
	21.5 TK01257									
	22 TK01258									
35 mm	22.5 TK01259									08035
	23 TK01260									
	23.5 TK01261									
	24 TK01262									
	24.5 TK01263									
	25 TK01264									
	25.5 TK01265									
	26 TK01266									
	26.5 TK01267									
	27 TK01268									
	28 TK01269									
	29 TK01270									
	30 TK01271									
	31 TK01272									
	32 TK01273									
	33 TK01274									
	34 TK01275									
	35 TK01276									
	36 TK01277									
	37 TK01278									
	38 TK01279									
	39 TK01280									
	40 TK01281									

Sales Unit: 1 Piece

BORING

JETBROACH One-touch Type			ARA-100A	LO-3550	WA-3500	WA-5000	WOJ-3200	AO-5575A	QA-6500	Pilot Pin
Depth	mm	dia.	PN							
12	TK01154									
13	TK01155									
14	TK01156									
15	TK01157									
16	TK01158									
17	TK01159									
17.5	TK01282									
18	TK01283									
19	TK01284									
19.5	TK01285									
20	TK01286									
20.5	TK01287									
21	TK01288									
21.5	TK01289									
22	TK01290									
22.5	TK01291									
23	TK01292									
23.5	TK01293									
24	TK01294									
24.5	TK01295									
25	TK01296									
25.5	TK01297									
26	TK01298									
26.5	TK01299									
27	TK01300									
28	TK01301									
29	TK01302									
30	TK01303									
31	TK01304									
32	TK01305									
33	TK01306									
34	TK01307									
35	TK01308									
36	TK01309									
37	TK01310									
38	TK01311									
39	TK01312									
40	TK01313									
41	TK01314									
42	TK01315									
43	TK01316									
44	TK01317									
45	TK01318									
46	TK01319									
47	TK01320									
48	TK01321									
49	TK01322									
50	TK01323									
51	TK01324									
52	TK01325									
53	TK01326									
54	TK01327									
55	TK01328									
56	TK01329									
57	TK01330									
58	TK01331									
59	TK01332									
60	TK01333									
61	TK01334									
62	TK01335									
63	TK01336									
64	TK01337									
65	TK01338									

JETBROACH One-touch Type 50L(W) for stacked plates			ARA-100A	LO-3550	WOJ-3200	AO-5575A	Pilot Pin
Depth	mm	dia.	PN				
18	TK01068						
22	TK00622						
24	TK00623						
24.5	TK00631						
25	TK00624						
26	TK00625						
26.5	TK00632						
28	TK00626						
32	TK00627						
35	TK00628						

JETBROACH One-touch Type			ARA-100A	WA-5000	AO-5575A	Pilot Pin
Depth	mm	dia.	PN			
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					
34	TK01369					
35	TK01370					
36	TK01371					
37	TK01372					
38	TK01373					
39	TK01374					
40	TK01375					
41	TK01376					
42	TK01377					
43	TK01378					
44	TK01379					
45	TK01380					
46	TK01381					
47	TK01382					
48	TK01383					
49	TK01384					
50	TK01385					
51	TK01386					
52	TK01387					
53	TK01388					
54	TK01389					
55	TK01390					

JETBROACH Side-lock Type			ARA-100A	Pilot Pin
Depth	mm	dia.	PN	
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	TK01455			
73	TK01456			
74	TK01457			
75	TK01458			
76	TK01459			
77	TK01460			
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			
100	TK01483			

Pilot Pin		PN : TK01167
06025		81 mm
08025		76 mm
06050		112 mm
08050		112 mm
08035		91 mm
08075		133 mm
12075		192 mm

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



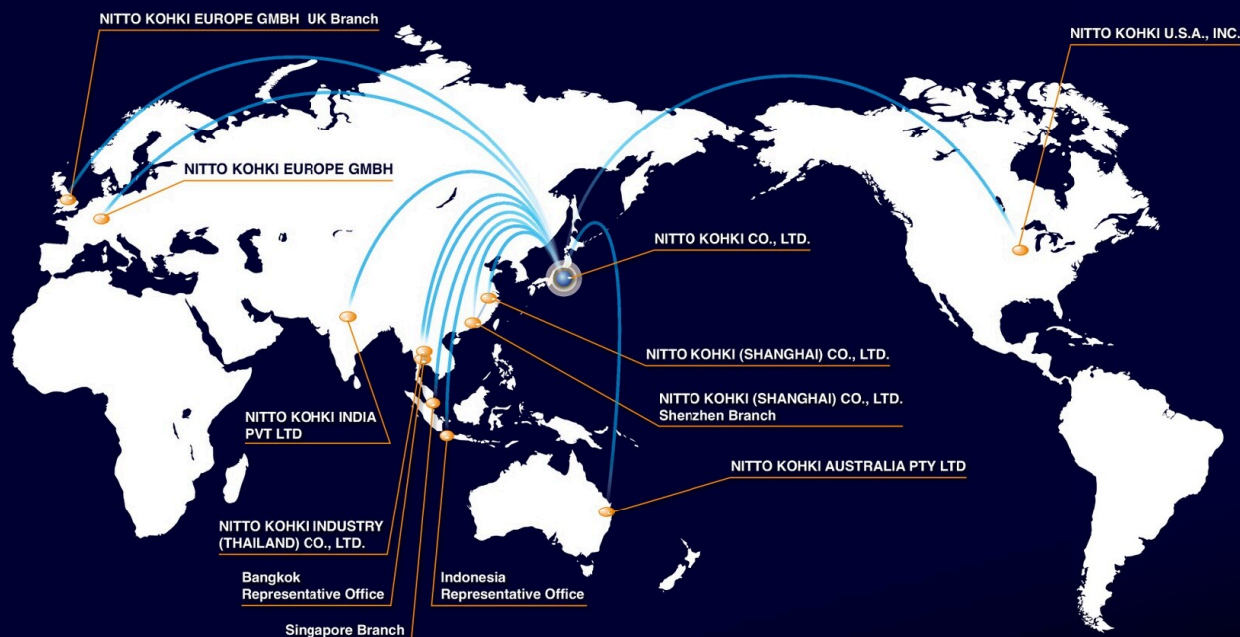
Specifications		M.T.No.3							M.T.No.4
Morse Taper No.	M.T.No.2	M.T.No.3							M.T.No.4
Model	BHM-02035	BHM-03050							BHM-13075
PN	TB00390	TB00392							TB00352
Cutter	HBO-25L	JBO-35L	HBO-25L	HBO-50L	JBO-35L	JBO-50L	JBO-50L(W)	JBS-75L	
Cutter Diameter	12 - 17 dia.	17.5 - 35 dia.	12 - 17 dia.	17.5 - 52 dia.	12 - 18 dia.	19 - 52 dia.	17.5 - 40 dia.	18 - 35 dia.	50 - 100 dia.
Pilot Pin	06025	08025	08035	06025	08025	06050	08050	08035	12075
	Optional	Included	Optional	Included	Optional	Included	Optional	Included	Included

HBO: HI-BROACH One-touch Type

JBO: JETBROACH One-touch Type

JBS: JETBROACH Side-lock Type

NITTO KOHKI's GLOBAL NETWORK



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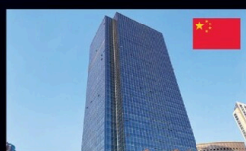
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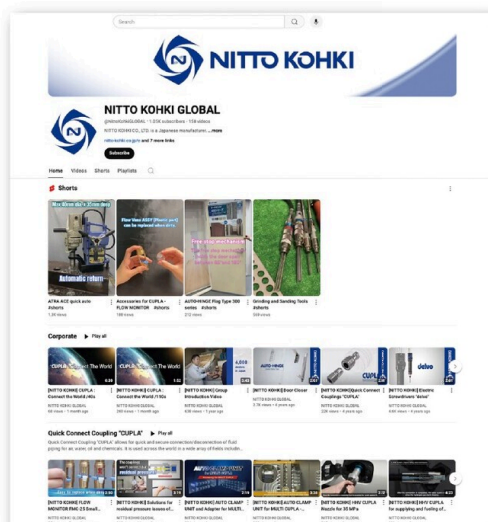
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Safety Guide

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. 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 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 required to complete the job. Always let the tool do the work at the rate for 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 footwear during or around operating tools. Wear a protective hair covering to contain long hair. Do not wear loose clothing 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 lose stability during tool operation and always maintain correct posture.
- Use clamps or a vise to secure the workpiece tightly and eliminate vibration. Never hold the workpiece 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 purposes 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 to ensure they 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 damaged, frayed, cut, or deteriorated power cords or air hoses. Always replace them 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 ensuring all power buttons or levers are 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 tool operation.
- 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.
- Ensure that all machine and power tools are properly grounded at all times (except for double-insulated tools). Always use a GFCI (Ground-Fault-Circuit-Interrupter) to protect the user and surrounding persons from electric shock.
- Be aware of low voltage situations. Improperly gauged extension cords or power cords, when used or shared with other electrical devices, may cause all tools on the line to operate below optimal performance. This condition may result in damage to the machine and/or operator.

Notice for Air Tools

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

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