

Power Tools & Machine Tools

General Catalog



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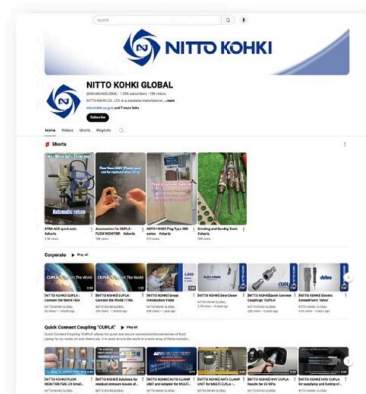
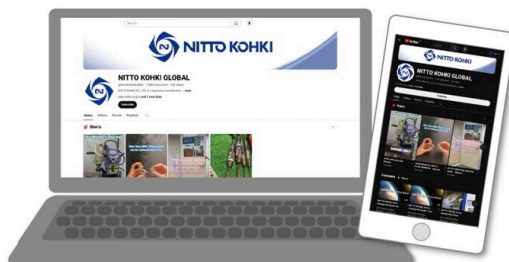
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Green Procurement

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	●	●	●	●	●	●	●	●

- Automatic Feed Control Function is activated by pushing the Rod Handles towards the body and manual feed is not required.
- The feed in the first stage of cutting operation is automatically slow to ensure a smooth drilling.
- 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.
- The feed speed is continuously monitored and updated proportionally to the load on the cutter.
- 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.
- The drill will not start until the magnetic field is active.
- 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.
- 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.
- 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.
- 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.
- While the drill motor is running, if no load is applied within 10 seconds, the drill will stop automatically to save the battery.
- 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



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

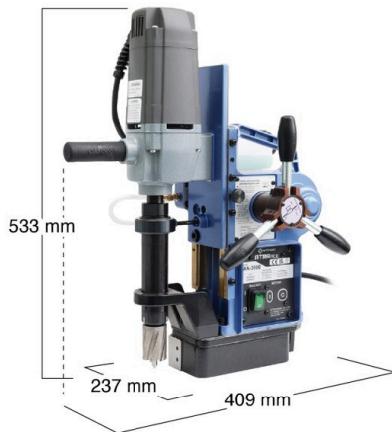
BORING

Portable Magnetic Base Drilling Machine

ATRA ACE auto

Model **WA-3500** 

• 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



YouTube



Specifications

Model		WA-3500		WA-5000	
Power Source (Single Phase)		110 - 120 V AC, 50/60 HZ	220 - 240 V AC, 50/60 Hz	110 - 120 V AC, 50/60 HZ	220 - 240 V AC, 50/60 Hz
Electric Drill	Rated Power Consumption	W	1100	1150	
	Rated Current	A	10.2	5.1	
	No-load Speed	min ⁻¹ (rpm)	950	350 / 650	
Magnet Power Consumption		W	34	75	
Hole Capacity mm	Cutter	Hole Diameter	Plate Thickness	Hole Diameter	Plate Thickness
	One-touch Type JETBROACH 25L	-	-	12 to 17	9 to 25
	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
Min. Plate Thickness for Magnet Adhesion		mm	9	9	
Max. Stroke		mm	83	107	
Magnet Holding Power		N(kgf)	7056 (720)	9800 (1000)	
Magnet Dimensions		mm	92 (W) x 213 (L)	101 (W) x 201 (L)	
Power Cord Length		m	3	3	
Mass (Weight)		kg	20	23	
Accessories Included		• Carry Case • Cutting Oil 0.5L • Pilot Pin 08035 • Side Handle • 3 mm Hex Socket Screw Key • 8 x 10 mm Spanner • Guard • Chain		• 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 Accessories

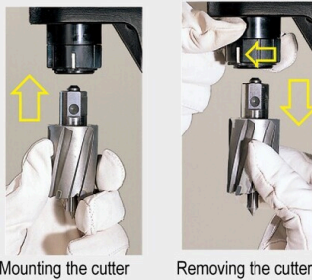
Ref. No.	PN	Description	Sales Unit	Applicable Model	
				WA-3500	WA-5000
1	TB05186	Chip Breaker Ass'y	1 set	●	●
2	TB01507	Cutting Oil 2L	1 piece	●	●
3	TB04374	Supporting Magnet Ass'y	1 set	●	●
4	TB02536	Sleeve 6.5 for Triangle Shank Drill Bit	1 piece	●	●
5	TB07696	Pipe Attachment Ass'y	1 set	●	●
		One-touch 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	●	●



BORING

One-touch Cutter Replacement

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



Mounting the cutter

Removing the cutter

Coolant into the Heart of the Cut

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



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.

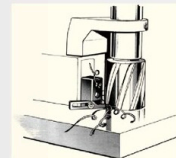
Magnet Open-circuit Sensor

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.



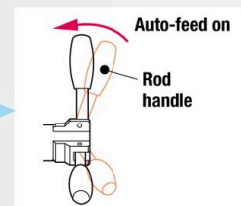
New drill control prevents cutters from breaking

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.



Load Sensor

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

Variable Automatic Feed

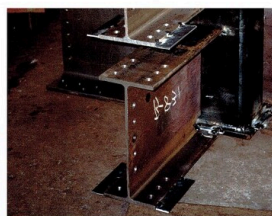
The feed speed is continuously monitored and updated proportionally to the load on the cutter.

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.



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									
35 mm	18.5 TK01251									08035
	19 TK01252									
	19.5 TK01253									
	20 TK01254									
	20.5 TK01255									
	21 TK01256									
	21.5 TK01257									
	22 TK01258									
	22.5 TK01259									
	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	
06025	PN : TK01167
08025	PN : TK01486
06050	PN : TK01166
08050	PN : TK01488
08035	PN : TK01487
08075	PN : TJ17436
12075	PN : TA9A207

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



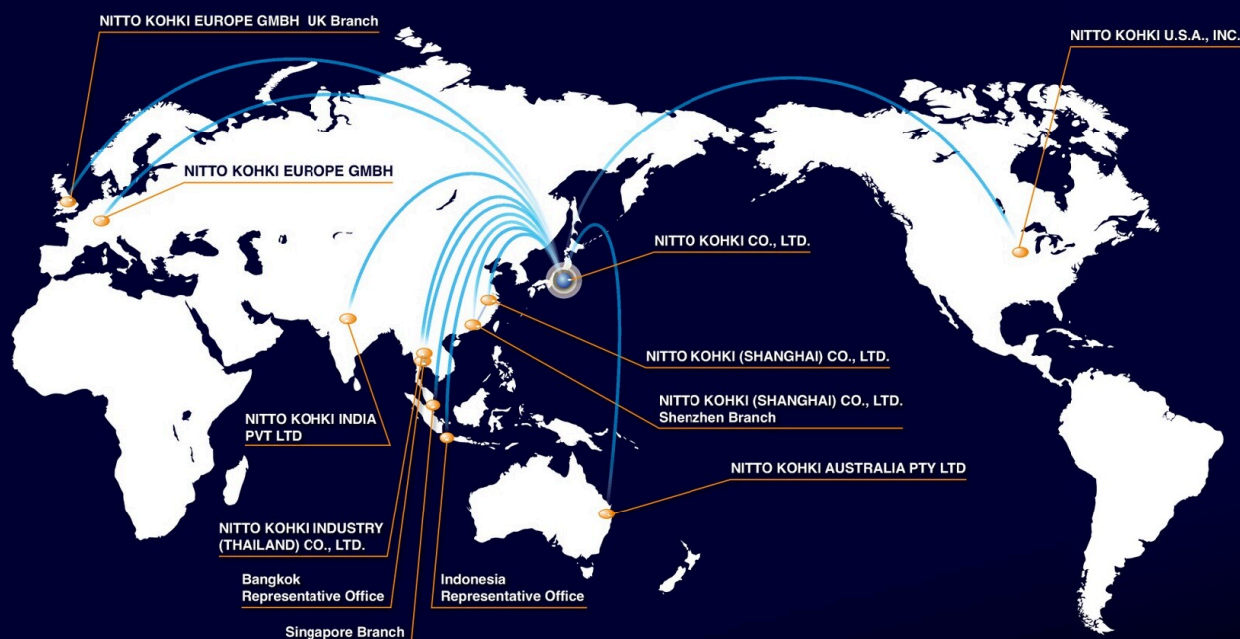
Specifications		M.T.No.3							M.T.No.4
Morse Taper No.	M.T.No.2	M.T.No.3							M.T.No.4
Model	BHM-02035	BHM-03050							BHM-13075 BHM-14075
PN	TB00390	TB00392							TB00352 TB00354
Cutter	HBO-25L	JBO-35L	HBO-25L	HBO-50L	JBO-35L	JBO-50L	JBO-50L(W)	JBS-75L	
Cutter Diameter	12 - 17 dia.	17.5 - 35 dia.	17.5 - 40 dia.	12 - 17 dia.	17.5 - 52 dia.	12 - 18 dia.	19 - 52 dia.	17.5 - 40 dia.	18 - 35 dia.
Pilot Pin	06025	08025	08035	06025	08025	06050	08050	08035	08050
	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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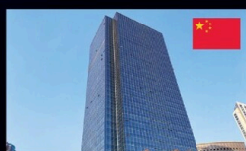
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UK Branch



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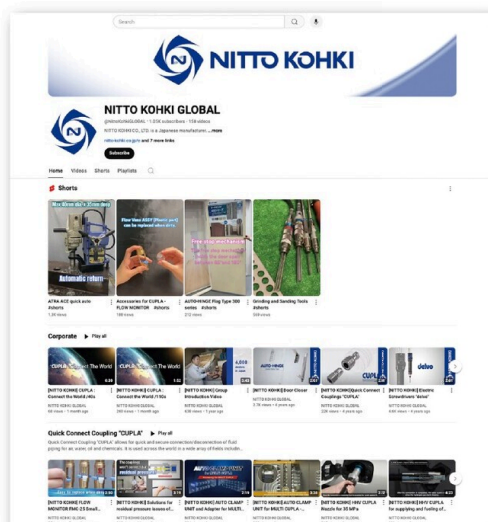


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<https://www.youtube.com/c/NittoKohkiGLOBAL>



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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