

TOOLS FOR DRILLING MACHINES



D1 - VISES (D01-D13)



D2 - CHUCKS (D14-D21)



D3 - SLEEVES, ARBORS (D22-D23)



D4 - MULTI-SPINDLE DRILL HEADS (D24-D36)



D5 - TAPPING ATTACHMENT (D36-D38)



D6 - TAPPING MACHINES (D39-D49)



D7 - DIAMOND CORE DRILLING MACHINES (D50-D63)



D8 - MAG. DRILLS (D64-D80)

D “ TOOLS FOR DRILLING MACHINES

QUICK GRIP DRILL PRESS VISES

FEATURES:

- Made of high tensile casting, stress relieved.
- Level actuated locking mechanism, hardened and ground.
- Instant setting by sliding steel bar.
- Recessed jaw plates convenient for leveling of workpiece.

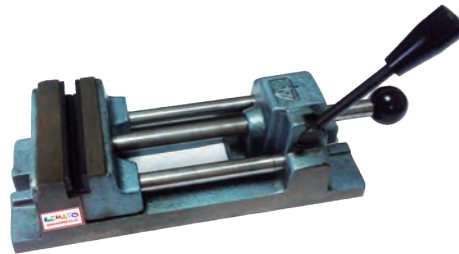


ITEM NO.	JAW WIDTH	JAW OPENING	JAW DEPTH	WEIGHT
54100101	3" (78 mm)	3-1/8" (80 mm)	1" (25 mm)	3.5 kgs (7.7 lbs)
54100102	4" (104 mm)	4-1/2" (115 mm)	1" (25 mm)	6.1 kgs (13.4 lbs)
54100103	6" (156 mm)	6-1/4" (158 mm)	1-1/4" (33 mm)	13.2 kgs (29.1 lbs)
54100104	8" (204 mm)	8-1/4" (210 mm)	1-1/4" (33 mm)	18.7 kgs (41.1 lbs)

QUICK GRIP DRILL VISE, H/V VERSION

FEATURES:

- Made of high tensile casting, stress relieved.
- Level actuated locking mechanism, hardened and ground.
- Instant setting by sliding steel bar.
- Recessed jaw plates convenient for levelling of workpiece.
- Both sides of base are precision ground at right angles for side mounting.



ITEM NO.	JAW WIDTH	JAW OPENING	JAW DEPTH	WEIGHT
54100105	3-1/4" (82 mm)	3" (78 mm)	1" (25 mm)	4.7 kgs (10.4 lbs)
54100106	4-1/4" (106 mm)	4-3/4" (124 mm)	1" (25 mm)	8.0 kgs (17.6 lbs)

QUICK DRILL PRESS VISE



INSTRUCTION:

1. With groove design in jaw, it can clamp plate and small object in upper side, and also clamp round bar in v-groove.
2. With particular structure, it can clamp or release the object quickly and easily.
3. The handle is locked with a ball inside, and easy to take off to replace a longer one for increasing working force.



PARTICULAR STRUCTURE

ITEM NO.	TYPE	SIZE	JAW WIDTH	JAW DEPTH	OPENING	WEIGHT (kgs)	CTN (pc/wt.)	CTN (cuft)
54101384	QDV-0400	4"	4"	1-7/8"	4"	8.2	2 pcs / 17.4 kgs	0.424



QUICK JAW VISE WITH GUIDE RAIL



D1 - VISES

TOOLS FOR DRILLING MACHINES



▲ ITEM NO. 54101516
(with standard accessories)



▲ ITEM NO. 54101516-1
(with standard & optional accessories)

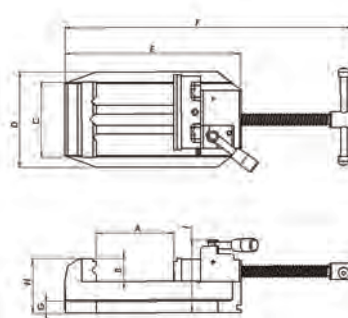


Fig A (application I)

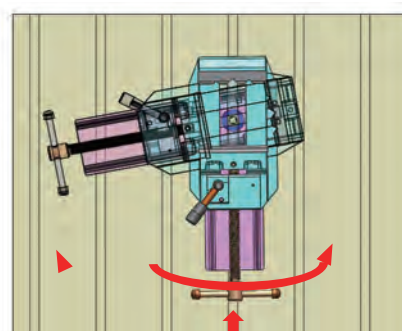
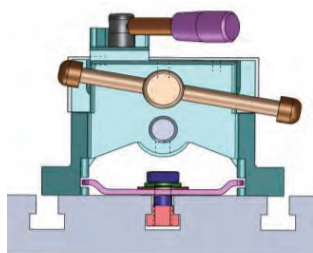
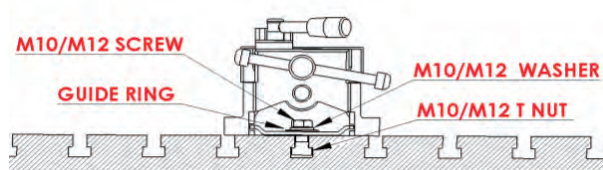
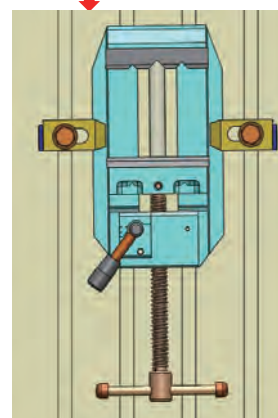
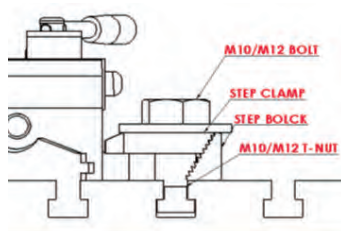
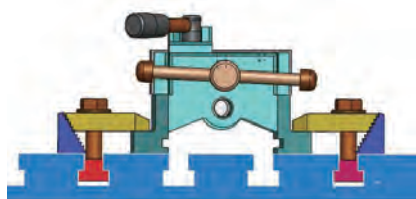


Fig B (application II)



FEATURES:

- Adding guide rail with guide ring to quick jaw vise allows the worker to execute the drilling task at each position freely on the drill machine table against the vise turning-over or lifting risks happening.
- 2 kinds of application are suitable for clamping workpiece on drill machine.
- Application I: use with guide rail (Fig. A)
Standard accessories: Guide ring and guide rail with 1 screw bolt, washer & T-nut each for T slot table 12 & 14 mm
- Application II: use without guide rail (Fig. B)
Optional accessories : Clamp with each pair of bolt, step clamp & step block.
- Slide bar design makes workpiece firmly fixed by jaw pair without any inclined situation of the jaws with hardness HRC 45°~50°
- Designed with solid structure, main body is made of FC15, assemble a pair of heat treated steel jaws.
- Jaw pair and handle are surface treated by black oxide finish.
- Front fixed prismatic jaw with cross V-grooves is designed for clamping workpiece firmly in both vertical & horizontal directions.

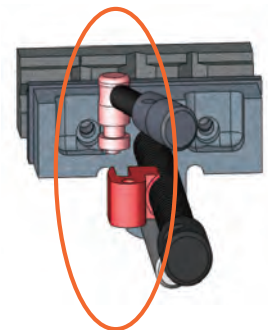
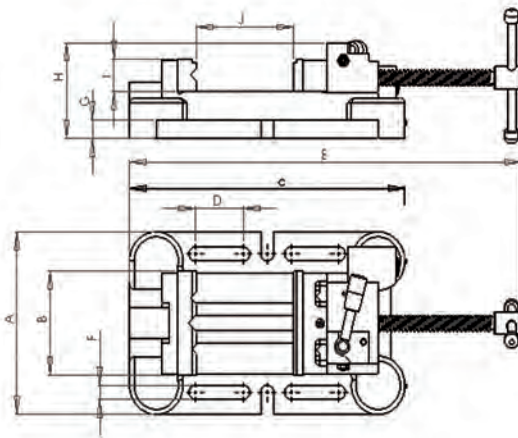
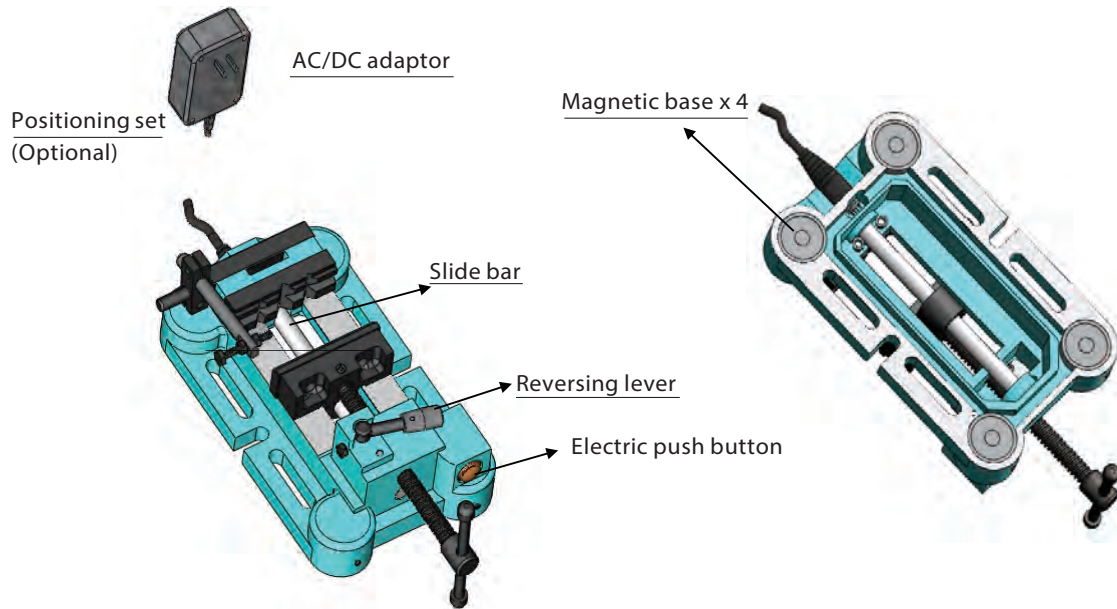
UNIT: mm

ITEM NO.	DESCRIPTION	A	B	C	D	E	F	G	H	I	MAX. CLAMPING FORCE (ton.)	WEIGHT
54101516	4" quick jaw vise with rail	0~104	32	104	134	240	400	16	15	100	1	Vise: 6 kgs; standard accessories: 0.73 kg, (optional accessories: 0.41kg)
54101516-1												

D “TOOLS FOR DRILLING MACHINES



QUICK MAGNETIC JAW VISES



QUICK MOTION MECHANISM

FEATURES:

- Magnetic base is designed for positioning the vise on the working table accurately & promptly.
- The optional position set can help to position workpiece promptly & to process the repeated work very accurately.
- Suitable for clamping workpiece on drill press machine or milling machine.
- Quick motion mechanism design makes clamping and releasing workpiece promptly by swiveling the reversing lever.
- Slide bar design makes workpiece firmly fixed by jaw pair without any inclined situation of the jaws.
- Designed with solid structure, main body is made of FC15, and assembled with a pair of heat treated steel jaws with hardness HRC 45°~50°.
- Jaw pair and handle are surface treated by black oxide finish.
- Front fixed prismatic jaw with cross V-grooves is designed for clamping workpiece firmly in both vertical & horizontal directions.
- For 54101379:
- All sliding surface of each part, base face & jaw pair are grinded for assuring that the flatness as well as the verticality are controlled in 0.05/100 mm accuracy.

* Electrical applied: AC100~240V

UNIT: mm

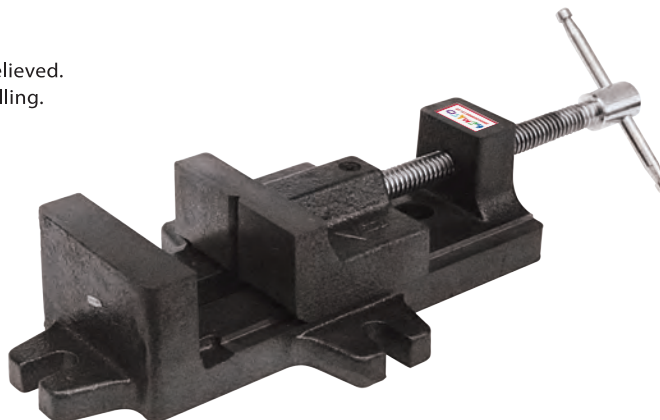
ITEM NO.	MODEL	(AC 100~240V)	A	B	C	D	E	F	G	H	I	J (Min.)	MAX. CLAMPING FORCE (ton.)	WEIGHT (kgs)
54101378	103M-4	4" quick magnetic jaw vise	181	104	300	52	442	14	18	95	32	105	1.0	10
54101379	103M-4G	4" quick magnetic grinding jaw vise	181	104	300	52	442	14	18	95	32	105	1.0	10



UTILITY VISE

FEATURES:

- Made of high tensile casting, stress relieved.
- Rigid construction for drilling and milling.



ITEM NO.	JAW WIDTH	JAW OPENING	JAW DEPTH	WEIGHT
54100109	3-1/2" (90 mm)	4" (102 mm)	1-3/4" (44 mm)	5.6 kgs (12.4 lbs)



DRILL PRESS VISES-PRECISION GROUND JAWS & BASE

FEATURES:

- Fixed jaw-prismatic jaw plate
- Movable jaw-step jaw plate

ITEM NO.	JAW WIDTH	JAW OPENING	JAW DEPTH	WEIGHT
54100110	3-1/4"	3-1/8"	1"	3.6 kgs
54100111	4-1/8"	3-7/8"	1-1/4"	5.6 kgs
54100112	5-1/8"	4-3/4"	1-1/2"	8.2 kgs
54100113	6"	5-3/4"	1-1/2"	11.8 kgs



DRILL PRESS VISES

FEATURES:

- Fixed jaw-prismatic jaw plate
- Movable jaw-step jaw plate

ITEM NO.	JAW WIDTH	JAW OPENING	JAW DEPTH	WEIGHT
54100114	3-1/4"	3-1/8"	1"	3.6 kgs
54100115	4-1/8"	3-7/8"	1-1/4"	5.6 kgs
54100116	5-1/8"	4-3/4"	1-1/2"	8.2 kgs
54100117	6"	5-3/4"	1-1/2"	11.8 kgs



D “ TOOLS FOR DRILLING MACHINES

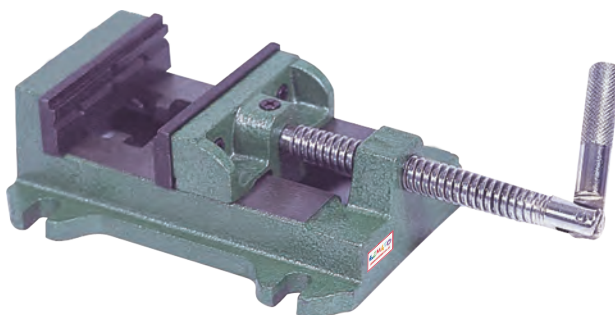


QUICK GRIP DRILL PRESS VISES—CENTRAL SLIDING BAR TYPE

ITEM NO.	JAW WIDTH	JAW OPENING	JAW DEPTH	WEIGHT
54100127	3"	2-3/4"	1-1/16"	2.7 kgs
54100128	4"	3-3/4"	1-3/16"	3.5 kgs
54100129	5"	4-5/8"	1-3/8"	5.8 kgs
54100130	6"	5-5/8"	1-1/2"	8.0 kgs



DRILL PRESS VISES—W/ HARDENED PRISMATIC JAWS



ITEM NO.	JAW WIDTH	JAW OPENING	JAW HEIGHT	CENTER DISTANCE BETWEEN LUGS	N.W.	UNIT: mm
						QTY / CARTON
54100135	80	73	32	120	3.1 kgs	8 sets
54100136	103	98	32	146	4.1 kgs	6 sets
54100137	130	118	38	189	7.7 kgs	4 sets
54100138	155	143	38	214	9.3 kgs	3 sets



DRILL PRESS VISES



ITEM NO.	JAW WIDTH	JAW OPENING	JAW HEIGHT	CENTER DISTANCE BETWEEN LUGS	N.W.	UNIT: mm
						QTY / CARTON
54100139	80	80	32	120	2.9 kgs	8 sets
54100140	103	103	32	146	3.8 kgs	6 sets
54100141	130	130	38	189	7.0 kgs	4 sets
54100142	155	155	38	214	8.6 kgs	3 sets



DRILL PRESS VISES-W/ HARDENED PRISMATIC JAWS



UNIT: mm

ITEM NO.	JAW WIDTH	JAW OPENING	JAW HEIGHT	N.W.	QTY / CARTON
54100143	80	67	32	3.3 kgs	8 sets
54100144	103	80	32	4.3 kgs	6 sets
54100145	130	118	38	8.4 kgs	4 sets
54100146	155	140	38	10.0 kgs	3 sets
54100147	200	200	46	16.0 kgs	1 set



DRILL PRESS VISES



UNIT: mm

ITEM NO.	JAW WIDTH	JAW OPENING	JAW HEIGHT	N.W.	QTY / CARTON
54100148	80	74	32	3.1 kgs	8 sets
54100149	103	100	32	4.0 kgs	6 sets
54100150	130	130	38	7.7 kgs	4 sets
54100151	155	155	38	9.2 kgs	3 sets



DRILL PRESS VISES -W/ HARDENED & GROUND PRISMATIC JAW



▲ High tensile ductile iron FCD45

UNIT: mm

ITEM NO.	JAW WIDTH	JAW OPENING	JAW HEIGHT	N.W.	QTY / CARTON
54100152	105	100	32	5.4 kgs	5 sets
54100153	127	125	38	7.6 kgs	4 sets
54100154	152	150	38	10.1 kgs	3 sets



D1 - VISES

TOOLS FOR DRILLING MACHINES

D “ TOOLS FOR DRILLING MACHINES



DRILL PRESS VISES-W / HARDENED PRISMATIC JAWS



UNIT: mm

ITEM NO.	JAW WIDTH	JAW OPENING	JAW HEIGHT	N.W.	QTY / CARTON
54100155	80	60	32	3.6 kgs	6 sets
54100156	103	80	32	4.6 kgs	5 sets
54100157	130	110	38	8.4 kgs	3 sets
54100158	155	130	38	10.2 kgs	2 sets



DRILL PRESS VISES

FEATURES:

- The fixed jaw with V groove can grasp round bar object tight.
- There are lugs design, which can be tightly fixed on working table, and run in continuous operations with workshop fixtures.



FASTENING



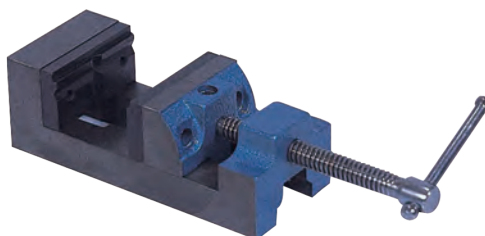
ASSEMBLY



ITEM NO.	TYPE	SIZE	JAW WIDTH	JAW DEPTH	JAW OPENING	WEIGHT (kgs)	CTN (pc/wt.)	CTN (cuft)
54101385	DPV-0400	1-1/2"	1-1/2"	1"	1-1/2"	1.0	20 pcs / 20.0 kgs	0.635
54101386	DPV-0300	3"	3"	1-1/2"	3"	4.1	6 pcs/ 25.2 kgs	0.918
54101387	DPV-0400	4"	4"	1-7/8"	4"	6.2	4 pcs/ 25.6 kgs	1.165
54101388	DPV-0600	6"	6"	1-7/8"	6"	11.7	1 pc/ 12.5 kgs	0.353



STANDARD VISES-W / HARDENED PRISMATIC JAWS



UNIT: mm

ITEM NO.	JAW WIDTH	JAW OPENING	JAW HEIGHT	N.W.	QTY / CARTON
54100161	50	55	32	1.5 kgs	20 sets
54100162	65	67	32	2.3 kgs	16 sets
54100163	75	76	38	3.5 kgs	10 sets
54100164	102	100	38	6.6 kgs	4 sets
54100165	125	130	38	8.8 kgs	3 sets
54100166	150	155	38	10.8 kgs	2 sets



STANDARD VISES

FEATURES:

- The fixed jaw with V groove can grasp round bar object tight.
- Each side has been polished within a tolerance of 0.03mm.
- It can operate at side-based as needed, and also can be assembled with other fixtures.



SIDE



ASSEMBLY



ITEM NO.	TYPE	SIZE	JAW WIDTH	JAW DEPTH	JAW OPENING	WEIGHT (kgs)	CTN (pc/wt.)	CTN (cuft)
54101389	STD-0112	1-1/2"	1-1/2"	1"	1-1/2"	0.8	20 pcs / 17.0 kgs	0.141
54101390	STD-0212	2-1/2"	2-1/2"	1-1/2"	2-1/2"	2.5	8 pcs / 20.8 kgs	0.565
54101391	STD-0300	3"	3"	1-3/4"	3"	4.1	6 pcs / 25.8 kgs	1.165
54101392	STD-0400	4"	4"	1-3/4"	4"	6.6	2 pcs / 14.0 kgs	0.318



STANDARD VISES W/ GROOVED

FEATURES:

- The fixed jaw with V groove can grasp round bar object tight.
- The side grooved design can add the stationary requirement.
- To be assembled with other fixtures as needed.



ITEM NO.	TYPE	SIZE	JAW WIDTH	JAW DEPTH	JAW OPENING	WEIGHT (kgs)	CTN (pc/wt.)	CTN (cuft)
54101393	SVG-0300	3"	3"	1-3/4"	3"	4.0	6 pcs / 25.0 kgs	1.165
54101394	SVG-0400	4"	4"	1-3/4"	4"	6.5	2 pcs / 13.8 kgs	0.318



ANGLE VISES

FEATURES:

- Full 90° adjustment horizontal to vertical.

ITEM NO.	SIZE
54100167	2-1/2"
54100168-1	3"



D “ TOOLS FOR DRILLING MACHINES



ANGLE VISES WITH SWIVEL BASE

FEATURES:

- Full 90° adjustment horizontal to vertical.

ITEM NO.	SIZE
54100170	2-1/2"



ANGLE VISES

FEATURES:

- Full 90° adjustment horizontal to vertical.



UNIT: mm

ITEM NO.	JAW WIDTH	JAW OPENING	JAW HEIGHT	N.W.	QTY / CARTON
54100172	80	75	32	4.2 kgs	6 sets
54100173	103	100	37	6.2 kgs	4 sets



UNIT: mm

ITEM NO.	TYPE	JAW WIDTH	JAW OPENING	N.W. (approx.)	MEAS. CUFT	CARTON LOAD
54101395	3"	80	32	4.2 kgs	0.92	6 sets
54101396	4"	103	37	6.2 kgs	0.87	4 sets



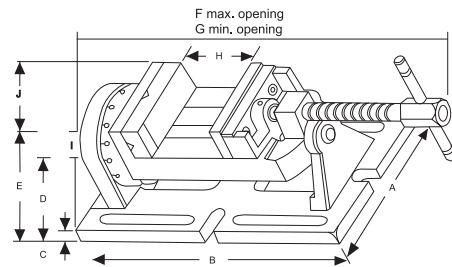
ANGLE VISE-W/ HARDENED PRISMATIC JAWS

FEATURES:

- Vise swivels left & right from 0°~90°.

UNIT: mm

ITEM NO.	JAW WIDTH	JAW OPENING	JAW HEIGHT	WEIGHT
54100177	103	103	38	12.3 kgs



COMPOUND VISES-W/ HARDENED PRISMATIC JAWS



STD TYPE:

UNIT: mm

ITEM NO.	JAW WIDTH	JAW OPENING	JAW HEIGHT	N.W.	QTY / CARTON
54100178	80	90	32	7.8 kgs	2 sets
54100179	103	100	32	10.8 kgs	1 set
54100180	130	128	38	16 kgs	1 set
54100181	155	150	38	22 kgs	1 set
54101111	200	200	46	31 kgs	1 set

LT TYPE: Decrease the altitude from STD TYPE, for users not influenced by altitude, and for more operation ranges.

UNIT: mm

ITEM NO.	SIZE	JAW WIDTH	JAW OPENING	JAW HEIGHT	N.W.	QTY / CARTON
54101397	3"	75	75	32	7.1 kgs	2 sets
54101398	4"	100	100	32	10 kgs	1 set
54101399	5"	125	125	38	13 kgs	1 set
54101400	6"	150	150	38	19.2 kgs	1 set



D1 - VISES

TOOLS FOR DRILLING MACHINES

D “ TOOLS FOR DRILLING MACHINES



2-3/4" UNIVERSAL ANGLE VISE

Holds the work securely in any position.

FEATURES:

- Designed for precision work & delicate repairs.
- Rotates 360° & tilts 90° in either direction.



ITEM NO.	HEIGHT	JAW WIDTH	MAX JAW OPENING	HEAD TILT	HEAD SWIVEL	ADJUSTING SCREW	DEPTH FROM TOP OF JAW TO GUIDE RODS	WEIGHT
54100190	6-1/8"	2-3/4"	2-1/2"	180°	360°	1/16" travel per revolution	1-1/2"	1.8 kgs



CROSS VISES

FEATURES:

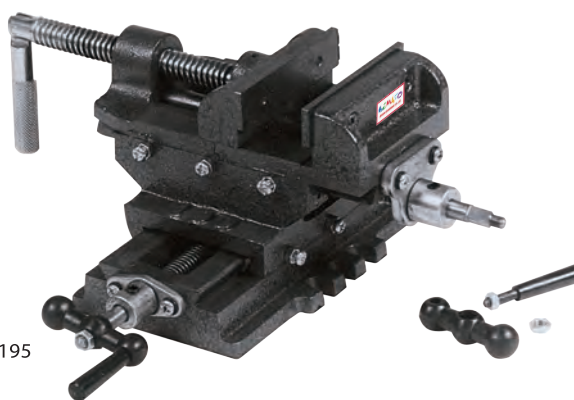
- Accurate machining & assembling.
- Accurate parallelism & squarness on both way.
- Replaceable steel jaws.
- Movable jaw slides on a central bar.

Optional accessory: Prismatic Jaw.

For jaw width of 3", 4", 5", 6" and 8" respectively.

ITEM NO. ARE:

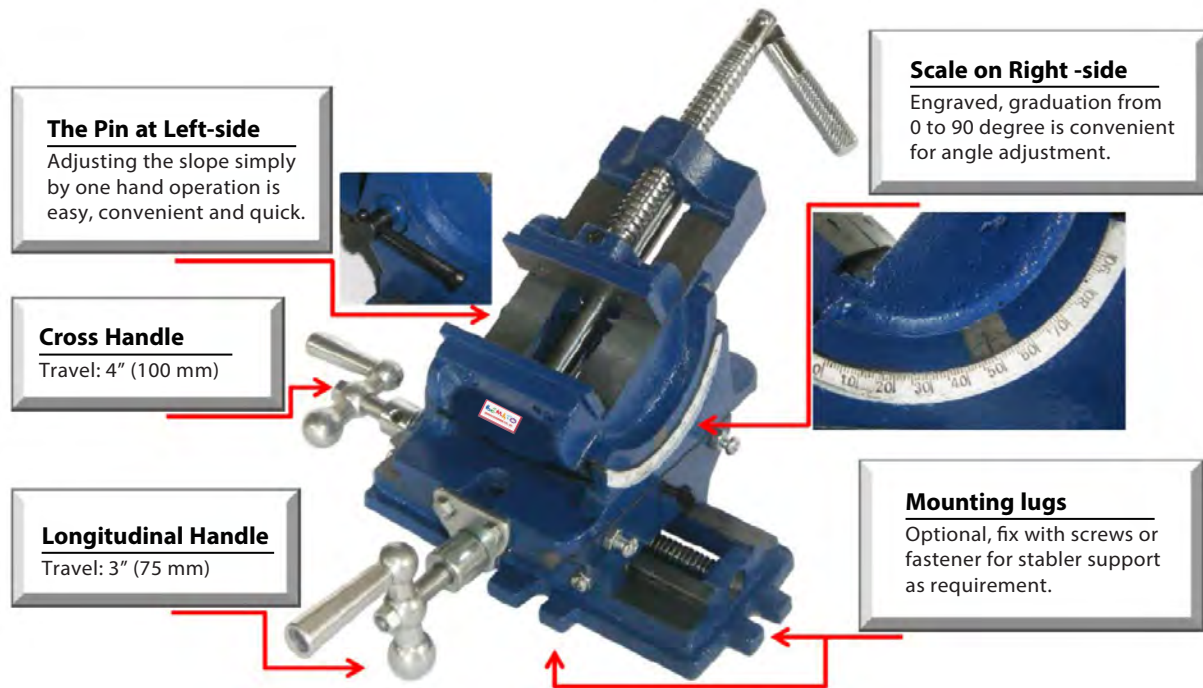
54100191, 54100192, 54100193, 54100194, 54100195



ITEM NO.	SIZE	JAW DEPTH	JAW WIDTH	JAW OPENING	N.W. (Kgs)	LONGITUDINAL TRAVEL	CROSS TRAVEL	PCS/CTN	CFT/CTN
54100182	3"	1-1/16"	3-1/4"	3"	6.3	3-1/4"	3-1/4"	4	1.56
54100183	4"	1-3/8"	4"	4"	9.4	4"	4"	2	1.00
54100184	5"	1-1/2"	5"	5"	13.0	5"	5"	2	1.19
54100185	6"	1-9/16"	6"	6"	16.9	6"	6"	1	0.68
54100186	8"	2"	8"	8"	29	8"	8"	1	1.40



ANGLE CROSS VISES



FEATURES:

1. Suitable for drilling, tapping and light cutting machine for precision positioning operation.
2. The semi-curve design, only one hand to reverse the pin on the left-side, and in conformity with the scale on the right-side to adjust the slope and to be fixed. Angle adjustment is from 0 to 90 degrees. Simple, convenient and fast operation can increase work efficiency.
3. Cross-slide design and rotating handle can be horizontally or vertically adjusted. The button shims are used to fix horizontally or vertically adjustment of the position.
4. The mounting lugs can be fixed by screws or other fasteners to increase the clamping force.

SPECIFICATIONS:

ITEM NO.	SIZE	JAW WIDTH	JAW DEPTH	JAW OPENING	WORKING FORCE	LONGITUDINAL TRAVEL
54101381	3"	3"	1-1/4"	3-1/4"	800 lbs	3"
54101382	4"	4"	1-1/4"	4-1/4"	1,000 lbs	4"

CROSS TRAVEL	ROTATING	L x H x H (cm)	WEIGHT	CTN (pcs/wt.)	CTN MEAS. (cm) (cbm)
4"	90 deg.	33.5 x 33.0 x 14.5	8.0 kgs	2 pcs / 18.0 kgs	26.0 x 25.5 x 15.0 (0.010)
5"	90 deg.	35.5 x 35.0 x 15.5	11.5 kgs	1pcs / 12.5 kgs	27.0 x 27.5 x 16.0 (0.012)

ANGLE ADJUSTMENT:



HORIZONTAL FIXED
(0 DEGREE)



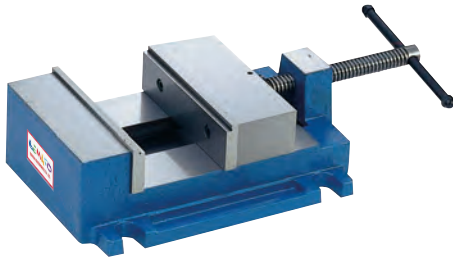
VERTICAL FIXED
(90 DEGREE)



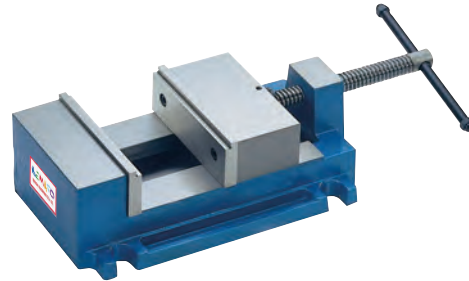
D “TOOLS FOR DRILLING MACHINES



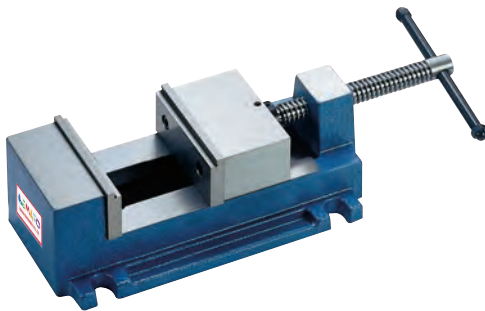
HEAVY DUTY HIGH PRECISION DRILL PRESS VISE WITH LOCK DOWN JAW MECHANISM



▲ ITEM NO. 54100187



▲ ITEM NO. 54100189

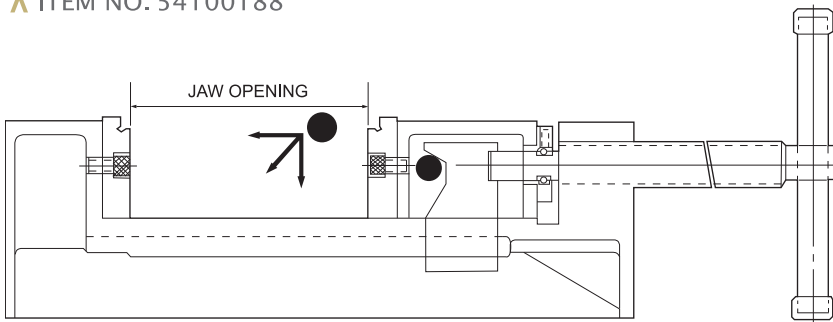


▲ ITEM NO. 54100188

- Surface of vise bed parallel to bottom of vise body within 0.03mm jaw plate to sliding ways square within 0.03mm.

FEATURES:

- Lock down jaw mechanism, eliminates jaw lifting and workpiece tilting.
- High tensile ductile iron (FCD 45).
- Vise bottom and sliding ways are precision ground.
- Step jaw plates are hardened to HRC 52 and precision ground.
- Precision lead screw supported by steel balls design for smooth movement.



UNIT: mm

ITEM NO.	JAW WIDTH	JAW HEIGHT	JAW OPENING	G.W.
54100187	100	43	90	6.2 kgs
54100188	130	44	100	8.4 kgs
54100189	160	44	105	10.4 kgs



UNIVERSAL ROTARY VISE



UNIT: mm

ITEM NO.	TYPE	JAW WIDTH	JAW OPENING	JAW WEIGHT	N.W. (approx.)	MEAS. CUFT	CARTON LOAD
54101401	4"	103	100	38	13.4 kgs	0.9	2sets



KEY TYPE DRILL CHUCKS



- Suitable for heavy duty & extra heavy duty.
- For milling machine, lathe, drill machine & wood working machine.

UNIT: mm

ITEM NO.	TYPE	CLAMPING CAPACITY (mm / inch)	FEMALE TAPER DIN or JACOBS	FEMALE THREAD (inch)	Ø	LENGTH OPEN B	CLOSED A	WT (g)	KEY SIZE	QTY PCS/ CU-FT	N.W/G.W (kgs)
54100501	4H	0.5-4 1/64"-5/32"	JO		22	29	35	80	T1	200/0.8	16/17
54100502	5H	0.5-6	5D		27.5	33	43	100	T2A	200/0.8	20/21
54100503			J1		32	40	50				
54100504	6H	0.5-6.5 1/64"-1/4"	B10	3/8"-24	32	40	50	190	T2	75/0.8	14/15
54100505			ø5.5 x 90°		32	40	50				
54100506			J25		38	50.5	64				
54100507		1-10	B12		38	50.5	64				
54100508	10H	1/32"-3/8"	ø5.5 x 90°	3/8"-24	38	50.5	64	290	S2	75/0.8	21/22
54100509			ø6.5 x 90°	1/2"-20	38	50.5	64				
54100510			J1		38	50.5	64				
54100511			J25		47	65	81				
54100512		1-13	J6		47	65	81				
54100513	13H	1/32"-1/2"	B16	1/2"-20	47	65	81	520	T5	50/0.8	26/27
54100514			J33		47	65	81				
54100515			ø6.5 x 90°		47	65	81				
54100516			J6		56	78	96				
54100517		1-16	J3		56	78	96				
54100518	16H	1/32"-5/8"	B16		56	78	96	800	T7	32/0.8	26/27
54100519			B18		56	78	96				
54100520		3-19	B22		67.5	89	126				
54100521	19H	1/8"-3/4"	J3		67.5	89	126	1570	T8	20/0.8	31/32
54100522			J6		52	69	82				
54100523	13XH	1-13 1/32"-1/2"	B16		52	69	82	770	T7	30/0.8	25/26
54100524			J33		52	69	82				
54100525	19XH	1-19	J4		69	94	132	1700	T8	20/0.8	34/35

• EXTRA HEAVY DUTY

✓ MATERIAL ANALYSIS TABLE

PART NO.	PART NAME	MATERIAL	HEAT TREATMENT
1	BODY	JIS S45C SAE 1045	35-45HRC
2	CASE	JIS S20C SAE 1020	36-40HRC
3	JAW	JIS S45C SAE 1045	45-49HRC
4	NUT	JIS SCr4 SAE 5140	56-58HRC

✓ RUNOUT & TORQUE INSPECTION TABLE

UNIT: mm

TYPE	Ød	L	L1	MAX RUNOUT	TORQUE (kg-cm)
4H	4	60	40	0.15	18
5H	6	80	60	0.15	20
6.5H	6	90	70	0.15	45
10H	9	110	85	0.15	75
13H	12	140	110	0.15	85
16H	15	150	120	0.15	250
19H	18	150	120	0.15	300
13XH	12	140	110	0.15	190
19XH	18	150	120	0.15	300

• PLEASE REFER TO THE DRAWING ON NEXT PAGE.



D2 - CHUCKS

TOOLS FOR DRILLING MACHINES

D “ TOOLS FOR DRILLING MACHINES



KEY TYPE DRILL CHUCKS



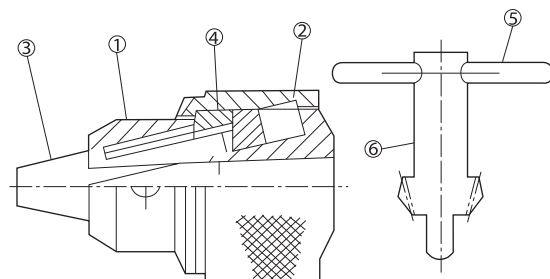
- High precision and durable.
- The nuts and jaws are made by AISI-E52100 (bearing steel) and heat treated to keep its durable precision.
- Precision ground taper hole.

UNIT: mm

ITEM NO.	TYPE	CLAMPING CAPACITY (mm / inch)	FEMALE TAPER DIN or JACOBS	Ø	LENGTH OPEN B	CLOSED A	WT (g)	KEY SIZE	QTY PCS/ CU-FT	N.W/G.W (kgs)
54100529	G-6H	0.5-6.5	J1	32	40	50	200	P1	75/0.8	14 / 15
54100530		1/64"-1/4"	B10	32	40	50	200	P1	75/0.8	14 / 15
54100531	G-10XH	0.5-10 1/64"-3/8"	J2S	41.5	50.5	64	390	P2	40/0.8	16 / 17
54100532	G-13XH	0.5-13 1/64"-1/2"	J6	56	69	82	800	P6	32/0.8	21 / 22
54100533			B16	56	69	82	800	P6	32/0.8	21 / 22
54100534			J33	56	69	82	800	P6	32/0.8	21 / 22
54100535	G-16XH	1-16 1/32"-5/8"	J3	65	78	96	1000	P7	15/0.8	15 / 16
54100536	G-19XH	1-19 1/8"-3/4"	J4	74	89	126	2150	P7	15/0.8	32 / 33

V MATERIAL ANALYSIS TABLE

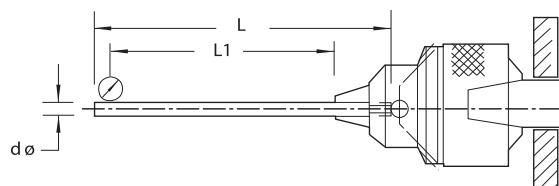
PART NO.	PART NAME	MATERIAL	HEAT TREATMENT
1	BODY	JIS S45C SAE 1045	35-45HRC
2	CONICAL SLEEVE	JIS S20C SAE 1020	36-40HRC
3	JAWS	JIS SUJ2 SAE 52100	54-56HRC
4	NUT	JIS SCr4 SAE 5140	56-58HRC
5	KEY	JIS S20C SAE 1020	
6	PINION	JIS S20C SAE 1020	43-47HRC



V RUNOUT & TORQUE INSPECTION TABLE

UNIT: mm

TYPE	Ød	L	L1	MAX RUNOUT	TORQUE (kg-cm)
G6H	6	90	70	0.08	50
G10XH	9	110	85	0.08	100
G13XH	12	140	110	0.08	210
G16H	15	150	120	0.08	260
G19XH	18	150	120	0.08	300
G25XH	24	180	140	0.08	400





KEY TYPE BALL BEARING CHUCKS



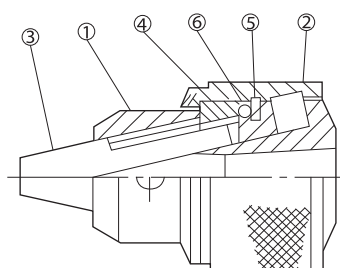
- Heavy duty.
- By using anti-thrust bearing to increase the gripping power for high speed drilling.
- All parts hardened and precision ground.

UNIT: mm

ITEM NO.	TYPE	CLAMPING CAPACITY (mm / inch)	FEMALE TAPER DIN or JACOBS	Ø	LENGTH OPEN B	CLOSED A	WT (g)	KEY SIZE	QTY PCS/ CU-FT	N.W/G.W (kgs)
54100537	10BXH	1-10 1/32"-1/2"	J2S	45	56	64	390	P4	40/0.8	16/17
54100538	13BXH	1-13	J6	62	75	95	1200	P6	22/0.8	27/28
54100539		1/32"-1/2"	J33	62	75	95	1200	P6		
54100540	16BXH	1-16 1/32"-5/8"	J3	65	81	101	1500	P7	15/0.8	22/23
54100541	19BXH	1-19 1/8"-3/4"	J4	74	100	130	2150	P7	15/0.8	32/33

V MATERIAL ANALYSIS TABLE

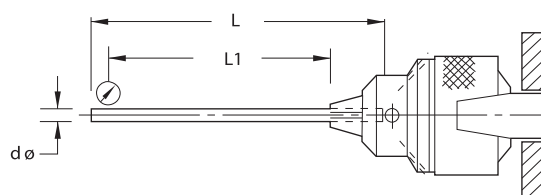
PART NO.	PART NAME	MATERIAL	HEAT TREATMENT
1	BODY	JIS S45C SAE 1045	35-45HRC
2	CASE	JIS S20C SAE 1020	36-40HRC
3	JAWS	JIS SUJ2 SAE 52100	54-56HRC
4	NUT	JIS SCr4 SAE 5140	56-58HRC
5		JIS SUJ2 SAE 52100	60 ±2HRC
6	BALL		



V RUNOUT & TORQUE INSPECTION TABLE

UNIT: mm

TYPE	Ød	L	L1	MAX RUNOUT	TORQUE (kg-cm)
10BXH	9	110	85	0.08	170
13BXH	12	140	110	0.08	270
16BXH	15	150	120	0.08	300
19BXH	18	150	120	0.08	400



D2 - CHUCKS

TOOLS FOR DRILLING MACHINES

D “TOOLS FOR DRILLING MACHINES



KEY TYPE DRILL CHUCKS

FEATURES:

- Tremendously enhance gripping power than traditional key type drill chucks.
- Very easy and convenient for drill bits changeover.
- Eliminates "lose key" problems.
- Protected from impact damage, light weight and rust-free by its high quality engineering plastic body.
- 100% inspection for every chuck, quality guaranteed.

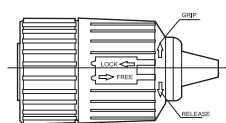


UNIT: mm

ITEM NO.	TYPE	CLAMPING CAPACITY (mm / inch)	FEMALE TAPER DIN or JACOBS	FEMALE THREAD (inch/metric)	Ø	LENGTH OPEN B	CLOSED A	WT (g)	QTY PCS/ CU-FT	N.W/G.W (kgs)
54100543	10KS	1-10	Ø5.5 x 90°	3/8" - 24	40	55	65	160	60/0.6	9/10
54100544		1/32"~3/8"	Ø6.5 x 90°	1/2" - 20						

FEATURES:

- To be used for electric tools and impact electric drills.
- To protect from the loose-grip during drilling.
- To be used in the reverse drive.



UNIT: mm

ITEM NO.	TYPE	CLAMPING CAPACITY (mm / inch)	FEMALE TAPER DIN or JACOBS	FEMALE THREAD (inch/metric)	Ø	LENGTH OPEN B	CLOSED A	WT (g)	QTY PCS/ CU-FT	N.W/G.W (kgs)
54100547	13KSL	1.5-13	Ø5.5 x 90°	3/8"-24	42.5	65	78	290	60/0.8	17/18
54100548		1/32"-1/2"	Ø6.5 x 90°	1/2"-20						



CHUCK KEYS

ITEM NO.	TYPE	D	L (mm)	WEIGHT (g)
54100549	CK0"	1/8"	33	20
54100550	CK1"	5/32"	35	25
54100551	CK2"	1/4"	43	60
54100552	CK3"	5/16"	55	80
54100553	CK4"	3/8"	74	180
54100554	CK30"	15/64"	43	40
54100555	CK32"	1/4"	50	60



ITEM NO.	TYPE	D	L (mm)	WEIGHT (g)
54100556	T1"	3"	35	20
54100557	T2"	4"	42	40
54100558	T3"	5.5"	44	45
54100559	T4"	6"	45	55
54100560	T5"	6.5"	45	50
54100561	T6"	7"	45	50
54100562	T7"	8"	50	80
54100563	T8"	9.5"	65	150
54100564	T9"	11"	100	320



ITEM NO.	TYPE	D	L (mm)	WEIGHT (g)
54100565	P1"	4"	42	40
54100566	P2"	5.5"	44	45
54100567	P3"	6"	45	55
54100568	P4"	6.5"	45	50
54100569	P5"	7"	45	50
54100570	P6"	8"	50	80
54100571	P7"	9.5"	65	150





DRILL DRIFTS



1. All have been heat treatment to extend the lifetime & increase work efficiency.
2. According to din standard to produce.
3. The morse shank can be easily pulled off by the half-automatic morse shank puller.
4. Quick operation, saving time and pressure.

ITEM NO.	LENGTH (mm)	MODEL
54101509	90	K-O
54101510	115	MT1 / MT2
54101511	147	MT2 / MT3
54101512	200	MT3 / MT4
54101513	235	MT4 / MT5
54101514	265	MT5 / MT6



DRILL CHUCK REMOVAL WEDGE



1. All have been heat treatment to extend the lifetime & increase work efficiency.
2. According to din standard to produce.
3. Use tapered chuck removal tool to remove the chucks easily from their mounts
4. Simply match the jacobs taper on the chuck to corresponding tool

ITEM NO.	LENGTH (mm)	MODEL
54101515	210	B16 / J2 / J33. B18 / J6



IMPACT DRILL DRIFT

< ITEM NO. 54100653



FEATURES:

- Drop forged steel, hardened.
- Built-in heavy duty spring for high impact.
- No more hammers.
- Drill can be held while striking out with this impact drill drift.
- Suitable for drills with shanks of MT2, MT3, MT4, MT5.
- N.W.:1.3 kgs
- Overall length 380 mm



D “TOOLS FOR DRILLING MACHINES



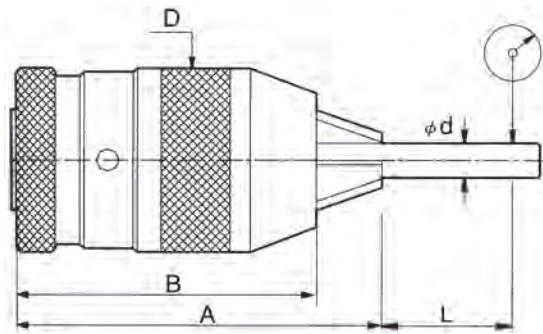
KEYLESS DRILL CHUCKS

V W/ INTEGRATED SHANK

The main-shaft is integrated type, which is much more superior than the traditional design.

FEATURES:

- Extremely rigid construction of integrated shank.
- The accumulative tolerances can be reduced to a minimum.
- Special design for super heavy torque.
- High gripping power with spanner.



ITEM NO.	TYPE	CLAMPING CAPACITY (mm/inch)	HOLE TAPER DIN/JACOBS	BODY DIA (mm)
54100574	INT-13	0.5-13 1/64"-1/2"	R 8	50.5
54100575			JC3/4"	50.5
54100576			JC32 mm	50.5
54100577			MT 4	50.5
54100578			MT 2	50.5
54100579			MT 3	50.5
54100580			JC20 mm	50.5
54100581	INT-16	3-16 1/8"-5/8"	JC25 mm	50.5
54100582			MT 3	56
54100583			JC32 mm	56
54100584			JC20 mm	56
54100585			JC25 mm	56
54100586			MT 4	56
54100587			R 8	56

< RUNOUT & TORQUE

UNIT: mm

TYPE	ϕd	L	MAX RUN OUT	TORQUE (kg-cm)
INT-13	5	55	0.05	400
	10			
	13	75		
INT-16	5	55	0.05	480
	10			
	16	80		



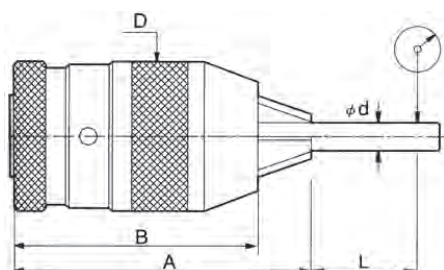
KEYLESS DRILL CHUCKS



▲ SUPER HEAVY DUTY GRIPPING

FEATURES:

- Special design for super heavy torque.
- High gripping power.
- To prevent drill from dropping a spanner is equipped for extra tightening power.
- Suitable for CNC machining centers & milling machines.



▲ HEAVY DUTY

ITEM NO.	TYPE	CLAMPING CAPACITY (mm / inch)	HOLE TAPER DIN/JACOBS	BODY DIA (mm)
54100588	8XHSP	0.5-8 1/64"-5/16"	J2	36
54100589			B10	36
54100590			J1	36
54100591			B12	36
54100592	10XHSP	0.5-10 1/64"-3/8"	J33	43
54100593			J2	43
54100594			B12	43
54100595			B16	43
54100596	13XHSP	0.5-13 1/64"-1/2"	J6	51.5
54100597			J33	51.5
54100598			B16	51.5
54100599			J6	58
54100600	16XHSP	3-16 1/8"-5/8"	B16	58
54100601			B18	58
54100602			J3	58
54100603			SPANNER FOR 8XHSP	
54100604	SPANNER FOR 10XHSP			
54100605	SPANNER FOR 13XHSP & INT-13			
54100606	SPANNER FOR 16XHSP & INT-16			

V RUNOUT & TORQUE

UNIT: mm

TYPE	ød	L	MAX RUN OUT	TORQUE (kg-cm)
8XHSP	3	35	0.05	160
	8	50		
10XHSP	3	35	0.05	260
	10	60		
13XHSP	5	55	0.05	400
	10			
	13	75		
16XHSP	5	55	0.05	480
	10			
	16	80		

ITEM NO.	TYPE	CLAMPING CAPACITY (mm/inch)	HOLE TAPER DIN/JACOBS	BODY DIA (mm)
54100607	6XH	0.5-6.5 1/64"-1/4"	B12	34
54100608			J1	34
54100609			B10	34
54100610	8XH	0.5-8 1/64"-5/16"	J1	34
54100611			B10	34
54100612			B12	34
54100613	10XH	0.5-10 1/64"-3/8"	J2	43
54100614			J33	43
54100615			B12	43
54100616			B16	43
54100617	13XH	0.5-13 1/64"-1/2"	J2	51.5
54100618			J6	51.5
54100619			J33	51.5
54100620			B16	51.5
54100621	16XH	3-16 1/8"-5/8"	J6	58
54100622			B16	58
54100623			B18	58
54100624			J3	58



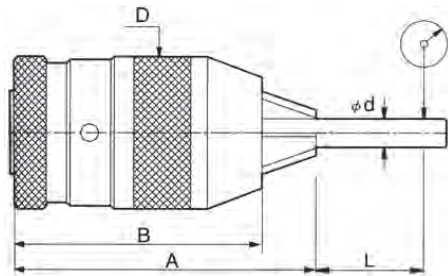
D “TOOLS FOR DRILLING MACHINES



KEYLESS DRILL CHUCKS



< STANDARD DUTY



< LIGHT DUTY

ITEM NO.	TYPE	CLAMPING CAPACITY (mm/inch)	HOLE TAPER DIN/JACOBS	BODY DIA (mm)
54101625	6H	0.5-6.5	J1	34
54101626		1/64"-1/4"	B10	34
54101627	8H	0.5-8	J1	34
54101628		1/64"-5/16"	B10	34
54101629	10H	0.5-10	J2	42.5
54101630			J33	42.5
54101631		1/64"-3/8"	B12	42.5
54101632			B16	42.5
54101633	13H	0.5-13	J6	50.5
54101634			J33	50.5
54101635		1/64"-1/2"	B16	50.5
54101636	16H	3-16 1/64"-5/8"	J6	50.5

V RUNOUT & TORQUE

UNIT: mm

TYPE	ød	L	MAX RUN OUT	TORQUE (kg-cm)
6H	3	35	0.08	75
	6			
8H	8	50	0.08	115
	3			
10H	6	35		
	10	58		
13H	5	55	0.08	175
	10			
	13	75		
16H	5	55	0.08	300
	10			
	16	80		

V RUNOUT & TORQUE

UNIT: mm

TYPE	ød	L	MAX RUN OUT	TORQUE (kg-cm)
8L	3	35	0.20	60
	6			
	8	50		
10L	3	35	0.20	90
	6			
	10	58		
13L	5	55	0.20	125
	10			
	13	75		
16L	5	55	0.20	180
	10			
	16	80		

ITEM NO.	TYPE	CLAMPING CAPACITY (mm / inch)	HOLE TAPER DIN/JACOBS	BODY DIA (mm)
54101639	8L	0-8	J1	34
54101640		0-5/16"	B10	34
54101641			3/8"-24	34
54101642	10L	1-10	J2	34
54101643			3/8"-24	34
54101644		1/32"-3/8"	B12	34
54101645			1/2"-20	34
54101646	13L	1-13	J2	42.5
54101647			J6	42.5
54101648			J33	42.5
54101649		1/32"-1/2"	B16	42.5
54101650			1/2"-20	42.5
54101651		3-16 1/8"-5/8"	B16	50.5
54101652			B18	50.5



DRILL SLEEVES



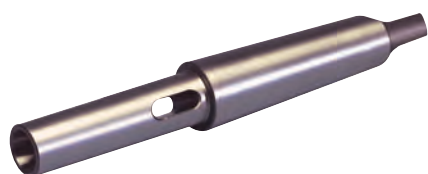
▲ HARDENED AND GROUND THROUGH OUT

ITEM NO.	MT INSIDE x OUTSIDE
54101001	1 x 2
54101002	1 x 3
54101003	2 x 3

ITEM NO.	MT INSIDE x OUTSIDE
54101004	1 x 4
54101005	2 x 4
54101006	3 x 4
54101007	1 x 5
54101008	2 x 5
54101009	3 x 5
54101010	4 x 5
54101011	4 x 6
54101012	5 x 6



MORSE TAPER EXTENSION SOCKETS



▲ MORSE TAPER EXTENSION SOCKETS

- For adapting tools with morse taper shank to machine having smaller or larger or the same morse taper spindle.

ITEM NO.	INSIDE TAPER	OUTSIDE TAPER
54101013	MT 1	MT 1
54101014	MT 1	MT 2
54101015	MT 1	MT 3
54101016	MT 1	MT 4
54101017	MT 1	MT 5
54101018	MT 2	MT 1

ITEM NO.	INSIDE TAPER	OUTSIDE TAPER
54101019	MT 2	MT 2
54101020	MT 2	MT 3
54101021	MT 2	MT 4
54101022	MT 2	MT 5
54101023	MT 3	MT 1
54101024	MT 3	MT 2
54101025	MT 3	MT 3
54101026	MT 3	MT 4
54101027	MT 3	MT 5
54101028	MT 4	MT 2
54101029	MT 4	MT 3
54101030	MT 4	MT 4
54101031	MT 4	MT 5
54101034	MT 5	MT 3
54101035	MT 5	MT 4
54101036	MT 5	MT 5



DRILL CHUCK ARBORS



▲ HARDENED AND GROUND THROUGHOUT

ITEM NO.	MORSE TAPER	JACOBS TAPER
54101041	1	0
54101042	1	1
54101043	1	2
54101044	1	3
54101045	1	4
54101046	1	5
54101047	1	6
54101048	1	33
54101049	2	0
54101050	2	1
54101051	2	2
54101052	2	3
54101053	2	4
54101054	2	5

ITEM NO.	MORSE TAPER	JACOBS TAPER
54101055	2	6
54101056	2	33
54101057	3	1
54101058	3	2
54101059	3	3
54101060	3	4
54101061	3	5
54101062	3	6
54101063	3	33
54101064	4	2
54101065	4	3
54101066	4	4
54101067	4	5
54101068	4	6
54101069	4	33
54101070	5	2
54101071	5	3
54101072	5	4
54101073	5	5
54101074	5	6
54101075	5	33



D “ TOOLS FOR DRILLING MACHINES



DRILL CHUCK ARBORS



▲ MORSE TAPER TO DIN.

ITEM NO.	MORSE TAPER	DIN
54101076	2	B16
54101077	2	B18
54101078	3	B16
54101079	3	B18



R8 SLEEVES



- Hardened & precision ground
- Concentricity: 0.015mm

ITEM NO.	SHANK
52160291	R8 × MT1
52160292	R8 × MT2
52160293	R8 × MT3



DRILL CHUCK ARBORS



▲ R8 TAPER TO JACOB TAPER

ITEM NO.	TAPER	JACOB TAPER	THREADS FOR DRAWBAR
54101080	ISO 30	2	M12 x 1.75
54101081		3	
54101082		4	
54101083		6	
54101084		33	
54101085	ISO 40	2	M16 x 2.0
54101086		3	
54101087		4	
54101088		6	
54101089		33	
54101090	ISO 50	2	M24 x 3.0
54101091		3	
54101092		4	
54101093		6	
54101094		33	
54101095	R8	2	7/16"-20
54101096		3	
54101097		4	
54101098		6	
54101099		33	

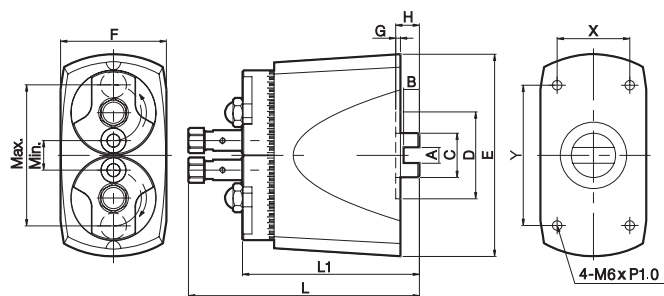


MULTIPLE SPINDLE BORING HEADS FOR METAL

- The helical driving gears give high torque transmission effect.
- The boring head accommodates high running speed up to 5500 RPM.
- The index graduation is machined by CNC equipment, incorporating with the exclusive are graduation theorem, providing extremely accurate spacings between spindles.
- The boring head casings are machined by the advanced CNC machinery for superior drilling accuracy of the boring head.
- Reversible spindle running permits is ideal for both drilling and tapping operations.
- Great drilling capability for steel $\phi 5$ - $\phi 14$ mm.

V 2-SPINDLE BORING HEAD (FOR METAL)

- Adjustable spacing between spindles: $\phi 13.5$ - $\phi 164$ mm.
- Drilling capacity for steel: $\phi 5$ - $\phi 14$ mm
- Reversible spindle running for drilling and tapping operations.



UNIT: mm

ITEM NO.	MODEL	DIMENSIONS												SPACING			WEIGHT (kgs)
		A	B	C	D	E	F	G	H	L1	L	X	Y	MIN	MAX	MAX CAPACITY	
54101112	2C-T5	10	10	28	55	106.5	57	3	15	115	140.5	40	73.8	13.5	73.5	$\phi 5$	3.6
54101113	2C-T7	10	10	28	55	127.5	67	3	15	112	137	46	88.8	18	90	$\phi 7$	4.5
54101114	2C-T8	10	10	28	55	191	109	3	16	120	145	70.7	70.7	25	151	$\phi 6$	8.7
54101115	2C-T10	10	10	28	55	143	82	3	15	114	139	46	88.8	22	106	$\phi 10$	5.5
54101116	2C-T12	10	10	28	55	166	92	3	16	120	145	46	88.8	26	126	$\phi 12$	7.3
54101117	2C-T16	10	10	28	55	211	114	3	16	138	163	70.7	70.7	36	164	$\phi 14$	10.7



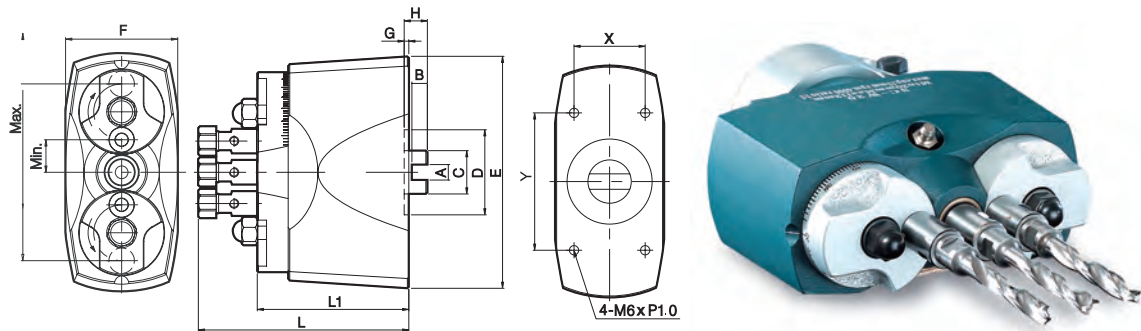
D “ TOOLS FOR DRILLING MACHINES



MULTIPLE SPINDLE BORING HEADS FOR METAL

V 3-SPINDLE (LINEAR) BORING HEAD (FOR METAL)

- Adjustable spacing between spindles: $\varnothing 14$ - $\varnothing 200$ mm.

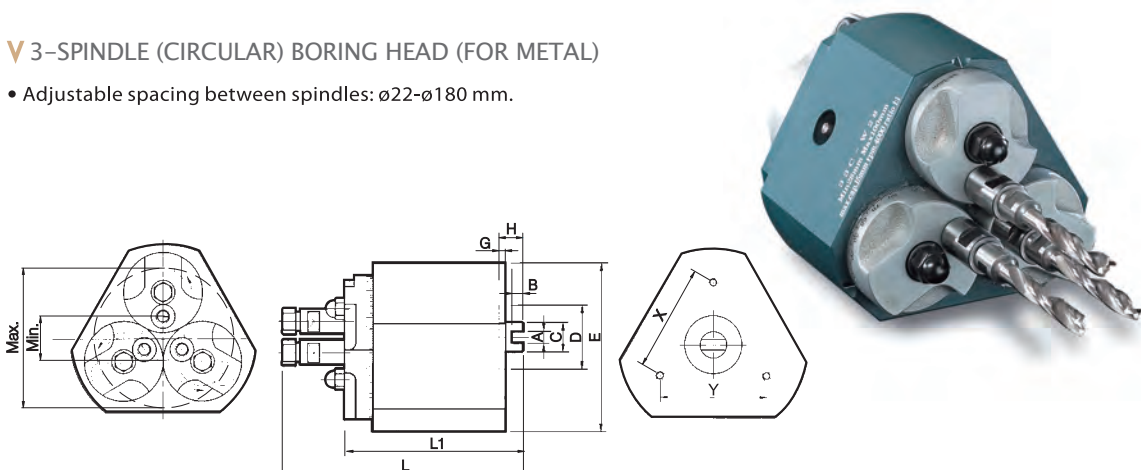


UNIT: mm

ITEM NO.	MODEL	DIMENSIONS												SPACING			WEIGHT (kgs)
		A	B	C	D	E	F	G	H	L1	L	X	Y	MIN	MAX	MAX CAPACITY	
54101118	3C-T5	10	10	28	55	121	58	3	18	107	132	40	73.8	14	88	$\varnothing 5$	3.7
54101119	3C-T7	10	10	28	55	150	71	3	17	112	137	46	88.8	20	112	$\varnothing 7$	4
54101120	3C-T10	10	10	28	55	162	76	3	17	114	139	46	88.8	22	128	$\varnothing 10$	6
54101121	3C-T12	10	10	28	55	191	92	3	15	118.5	143.5	46	88.8	26	152	$\varnothing 12$	8.7
54101122	3C-T16	10	10	28	72	251	114	3	16	141	166	70.7	70.7	36	200	$\varnothing 14$	14.7

V 3-SPINDLE (CIRCULAR) BORING HEAD (FOR METAL)

- Adjustable spacing between spindles: $\varnothing 22$ - $\varnothing 180$ mm.



UNIT: mm

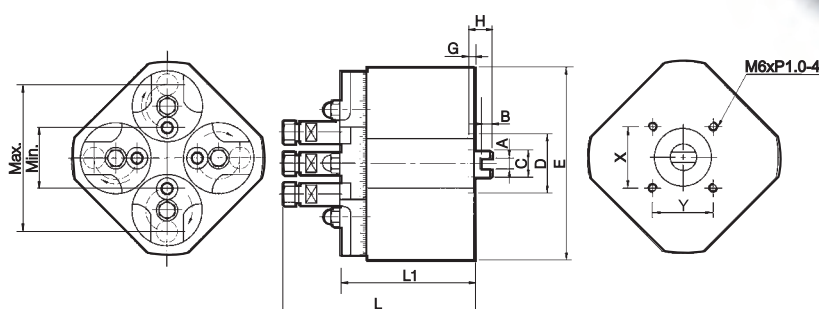
ITEM NO.	MODEL	DIMENSIONS												SPACING			WEIGHT (kgs)
		A	B	C	D	E	G	H	L1	L	X	Y		MIN	MAX	MAX CAPACITY	
54101123	33C-T5	10	10	28	55	110	3	15	116	143	72.7	72.7		$\varnothing 22$	$\varnothing 82$	$\varnothing 5$	4.6
54101124	33C-T7	10	10	28	55	126	3	15	107	132	86.8	86.8		$\varnothing 28$	$\varnothing 100$	$\varnothing 7$	5.6
54101125	33C-T10	10	10	28	55	150	3	15	111	136	86.8	86.8		$\varnothing 32$	$\varnothing 116$	$\varnothing 10$	7.3
54101126	33C-T12	10	10	28	55	177	3	15	119	144	86.8	86.8		$\varnothing 38$	$\varnothing 138$	$\varnothing 12$	10.3
54101127	33C-T16	10	10	28	62	225	3	15	138	163	86.8	86.8		$\varnothing 52$	$\varnothing 180$	$\varnothing 14$	15.5



MULTIPLE SPINDLE BORING HEADS FOR METAL

V 4-SPINDLE (CIRCULAR) BORING HEAD (FOR METAL)

- Adjustable spacing between spindles: $\varnothing 34$ - $\varnothing 206$ mm.
- Drilling capacity for steel: $\varnothing 5$ - $\varnothing 14$ mm
- Reversible spindle running for drilling and tapping operations.

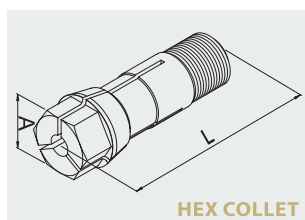


UNIT: mm

ITEM NO.	MODEL	DIMENSIONS											SPACING			WEIGHT (kgs)
		A	B	C	D	E	G	H	L1	L	X	Y	MIN	MAX	MAX CAPACITY	
54101128	4C-T5	10	10	28	55	121	3	15	115	140	70.7	70.7	$\varnothing 34$	$\varnothing 94$	$\varnothing 5$	5.8
54101129	4C-T7	10	10	28	55	145	3	15	117	132	70.7	70.7	$\varnothing 42$	$\varnothing 114$	$\varnothing 7$	7.3
54101130	4C-T10	10	10	28	55	170	3	15	109	134	70.7	70.7	$\varnothing 48$	$\varnothing 132$	$\varnothing 10$	9
54101131	4C-T12	10	10	28	55	192	3	15	118.5	143.5	70.7	70.7	$\varnothing 58$	$\varnothing 158$	$\varnothing 12$	13
54101132	4C-T16	10	10	28	80	260	3	15	145	170	70.7	70.7	$\varnothing 78$	$\varnothing 206$	$\varnothing 14$	21.7

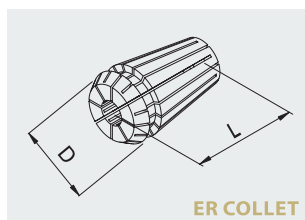
V CORRESPONDING CHART FOR MULTIPLE SPINDLE BORING HEAD AND A WIDE VARIETY OF COLLETS.

UNIT: mm



MODEL	A	L	MAX CAPACITY	APPLICABLE MODEL
C-5	8	31.5	$\varnothing 5$	2C-T5 3C-T5
C-6	10	36	$\varnothing 6$	33C-T5 4C-T5 2C-T7 3C-T7 33C-T7 4C-T7
C-9	14	46	$\varnothing 9$	2C-T8 2C-T10 3C-T10 33C-T10 4C-T10
C-12	17	50	$\varnothing 12$	2C-T12 3C-T12 33C-T12 4C-T12
C-14	21	54	$\varnothing 14$	2C-T16 3C-T16 33C-T16 4C-T16

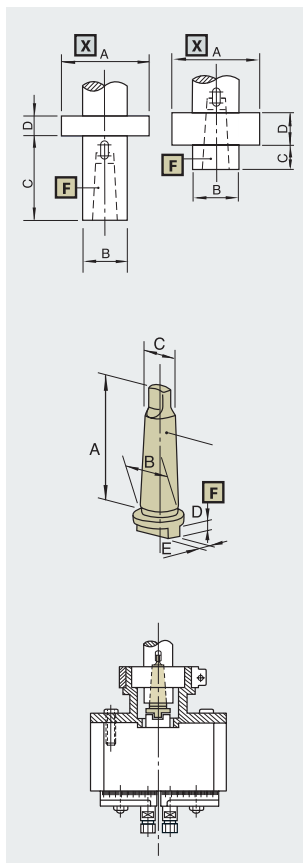
UNIT: mm



MODEL	D	L	MAX CAPACITY	APPLICABLE MODEL
ER-8	8.5	13.5	$\varnothing 5$	2C-T5 3C-T5
ER-11	11.5	18.0	$\varnothing 7$	33C-T5 4C-T5 2C-T7 3C-T7 33C-T7 4C-T7
ER-16	17.0	27.5	$\varnothing 10$	2C-T8 2C-T10 3C-T10 33C-T10 4C-T10
ER-20	21.0	31.5	$\varnothing 13$	2C-T12 3C-T12 33C-T12 4C-T12
ER-25	26.0	34	$\varnothing 16$	2C-T16 3C-T16 33C-T16 4C-T16



D “ TOOLS FOR DRILLING MACHINES



When ordering the boring head for application on a medium or heavy duty drilling machine, please provide the dimensions A, B, C, D. Unit: mm.

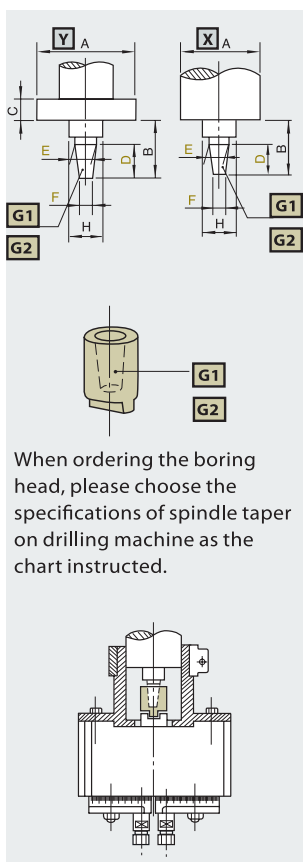
X

A	B	C	D

When ordering the boring head, please choose the specifications of spindle taper on drilling machine as the chart instructed.

Morse taper		UNIT: mm			
F					
NO	1	2	3	4	
A	65.5	80	99	124	
B	12.065	17.780	23.825	31.267	
C	9	14	19.1	25.2	
D			10		
E			10		

An assembly drawing of the boring head fitted onto a medium or heavy duty drilling machine.



When ordering the boring head for application on a light drilling machine, please provide the dimensions A, B, C, H. Unit: mm.

X

A	B	H

Y

A	B	C	H

Jacobs taper		UNIT: mm				
G1						
NO	JT1	JT2	JT3	JT6	JT33	
D	16.669	22.225	30.958	26.2	25.400	
E	9.754	14.199	20.599	17.170	15.850	
F	8.469	12.386	18.951	15.852	14.237	

DIN taper		UNIT: mm				
G2						
NO	B10	B12	B16	B18	B22	
D	14.5	18.5	24	32	40.5	
E	10.094	12.065	15.733	17.780	21.793	
F	9.4	11.1	14.5	16.2	19.8	

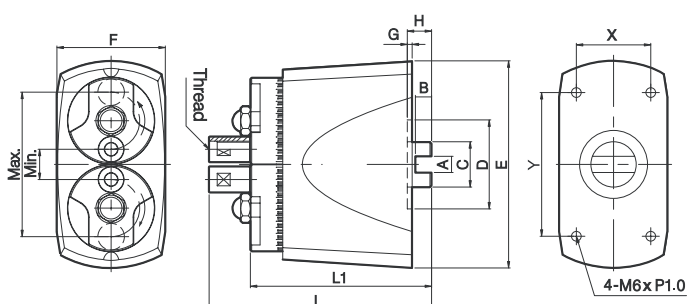
An assembly drawing of the boring head fitted onto a light drilling machine.



MULTIPLE SPINDLE BORING HEADS FOR WOOD

V 2-SPINDLE BORING HEAD (FOR WOOD)

- Adjustable spacing between spindle: 13.5-164 mm.
- Great drilling capacity for wood $\varnothing 10$ - $\varnothing 50$ mm.
- The boring head accommodates high running speed up to 6000 RPM.
- Exclusively designed with arc theorem.
- Graduation adjustment for the desired size between two spindles.
- Ideal for application for general home products, assembly toys, etc.
- Suited for fitting on general boring machines.

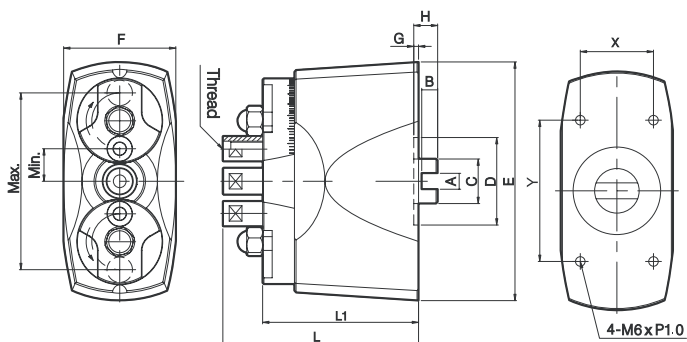


UNIT: mm

ITEM NO.	MODEL	DIMENSIONS												SPACING			SPINDLE	
		A	B	C	D	E	F	G	H	L1	L	X	Y	MIN	MAX	MAX	CAPACITY	TYPE
54101133	2C-W13	10	10	28	55	106.5	57	3	15	115	140.5	40	73.8	13.5	73.5		Ø10	M8×1.25, M10×1.5
54101134	2C-W18	10	10	28	55	127.5	67	3	15	112	137	46	88.8	18	90		Ø15	M8×1.25, M10×1.5
54101135	2C-W25	10	10	28	55	191	109	3	16	120	145	70.7	70.7	25	151		Ø15	M8×1.25, M10×1.5
54101136	2C-W22	10	10	28	55	143	82	3	15	114	139	46	88.8	22	106		Ø20	M8×1.25, M10×1.5
54101137	2C-W26	10	10	28	55	166	92	3	16	120	145	46	88.8	26	126		Ø30	M8×1.25, M10×1.5
54101138	2C-W36	10	10	28	55	211	114	3	16	138	163	70.7	70.7	36	164		Ø50	M8×1.25, M10×1.5
54101139	2C-W19	10	10	28	55	127.5	67	3	15	112	137	46	88.8	3/4"	3 1/2"		Ø5/8"	7/16"×14
54101140	2C-W254	10	10	28	55	191	109	3	15	120	145	70.7	70.7	1"	5 3/4"		Ø5/8"	7/16"×14

V 3-SPINDLE (LINEAR) BORING HEAD (FOR WOOD)

- Adjustable spacing between spindle: 14-200 mm.



UNIT: mm

ITEM NO.	MODEL	DIMENSIONS												SPACING				SPINDLE TYPE
		A	B	C	D	E	F	G	H	L1	L	X	Y	MIN	MAX	MAX	CAPACITY	
54101141	3C-W14	10	10	28	55	121	58	3	18	107	132	40	73.8	14	88		Ø10	M8×1.25, M10×1.5
54101142	3C-W20	0	10	28	55	150	71	3	17	112	137	46	88.8	20	112		Ø15	M8×1.25, M10×1.5
54101143	3C-W22	0	10	28	55	162	76	3	17	114	139	46	88.8	22	128		Ø20	M8×1.25, M10×1.5
54101144	3C-W26	0	10	28	55	191	92	3	15	118.5	143.5	46	88.8	26	152		Ø30	M8×1.25, M10×1.5
54101145	3C-W36	0	10	28	72	251	114	3	15	141	166	70.7	70.7	36	200		Ø50	M8×1.25, M10×1.5



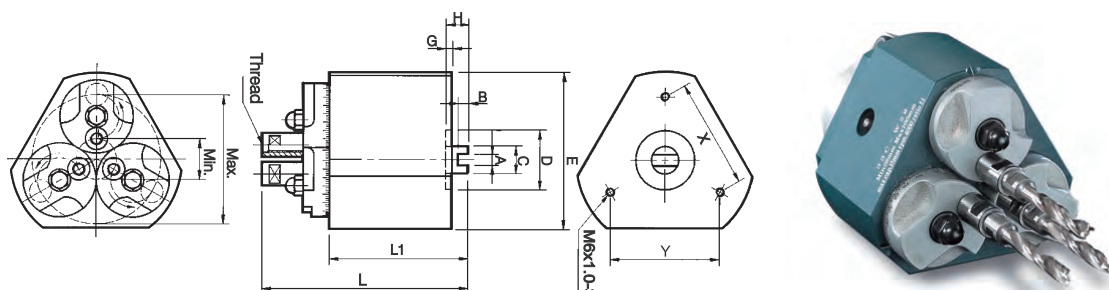
D “TOOLS FOR DRILLING MACHINES



MULTIPLE SPINDLE BORING HEADS FOR WOOD

V 3-SPINDLE (CIRCULAR) BORING HEAD (FOR WOOD)

- Adjustable spacing between spindles: $\varnothing 22$ - $\varnothing 180$ mm.

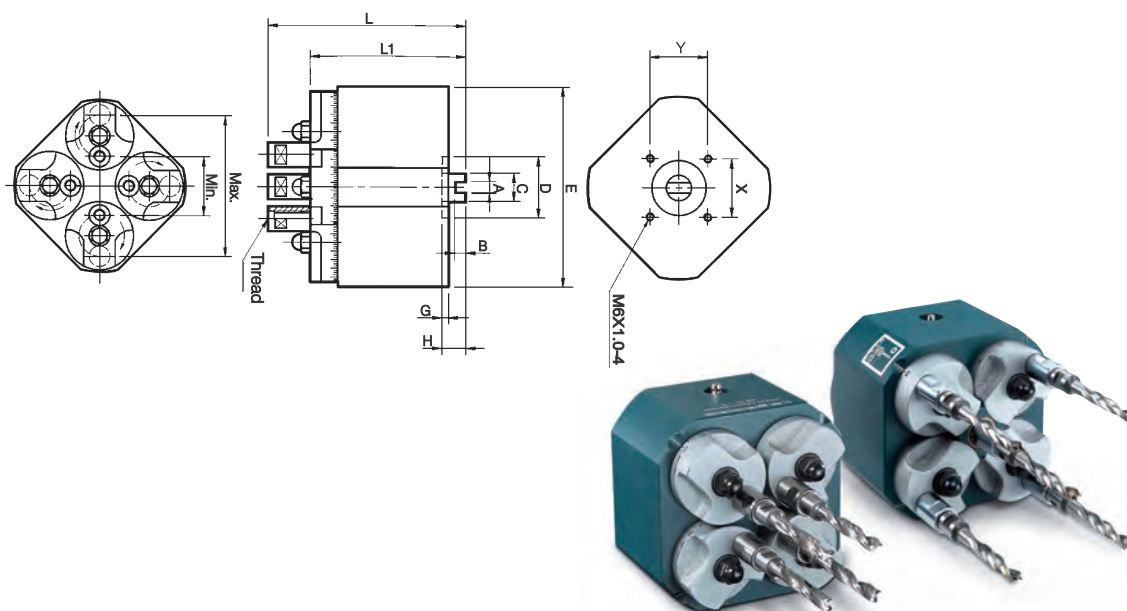


UNIT: mm

ITEM NO.	MODEL	DIMENSIONS												SPACING			SPINDLE TYPE
		A	B	C	D	E	G	H	L1	L	X	Y	MIN	MAX	MAX CAPACITY		
54101146	33C-W22	10	10	28	55	110	3	15	116	143	72.7	72.7	Ø22	Ø82	Ø10	M8 × 1.25, M10 × 1.5	
54101147	33C-W28	10	10	28	55	126	3	15	107	132	86.8	86.8	Ø28	Ø100	Ø15	M8 × 1.25, M10 × 1.5	
54101148	33C-W32	10	10	28	55	150	3	15	111	136	86.8	86.8	Ø32	Ø116	Ø20	M8 × 1.25, M10 × 1.5	
54101149	33C-W38	10	10	28	55	177	3	15	119	144	86.8	86.8	Ø38	Ø138	Ø30	M8 × 1.25, M10 × 1.5	
54101150	33C-W52	10	10	28	62	225	3	15	138	163	86.8	86.8	Ø52	Ø180	Ø50	M8 × 1.25, M10 × 1.5	

V 4-SPINDLE (CIRCULAR) BORING HEAD (FOR WOOD)

- Adjustable spacing between spindles: $\varnothing 34$ - $\varnothing 206$ mm.



UNIT: mm

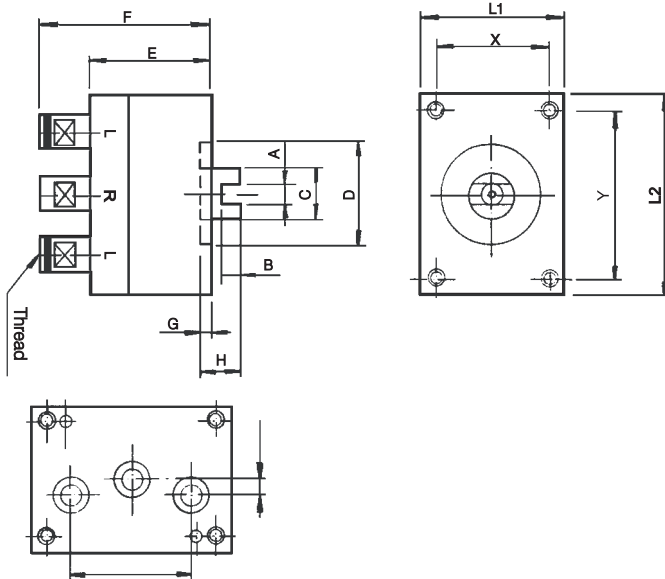
ITEM NO.	MODEL	DIMENSIONS											SPACING			SPINDLE TYPE
		A	B	C	D	E	G	H	L1	L	X	Y	MIN	MAX	MAX CAPACITY	
54101151	4C-W34	10	10	28	55	121	3	15	115	140	70.7	70.7	Ø34	Ø94	Ø10	M8 × 1.25, M10 × 1.5
54101152	4C-W42	10	10	28	55	145	3	15	117	132	70.7	70.7	Ø42	Ø114	Ø15	M8 × 1.25, M10 × 1.5
54101153	4C-W48	10	10	28	55	170	3	15	109	134	70.7	70.7	Ø48	Ø132	Ø20	M8 × 1.25, M10 × 1.5
54101154	4C-W58	10	10	28	55	192	3	15	118.5	143.5	70.7	70.7	Ø58	Ø158	Ø30	M8 × 1.25, M10 × 1.5
54101155	4C-W78	10	10	28	80	260	3	15	145	170	70.7	70.7	Ø78	Ø206	Ø50	M8 × 1.25, M10 × 1.5
54101156	5C-W20	10	10	28	55	145	3	15	117	132	70.7	70.7	Ø40	Ø112	Ø15	M8 × 1.25, M10 × 1.5



MULTIPLE SPINDLE BORING HEADS FOR WOOD

✓ SINGLE APPLICATION HINGE BORING HEAD

- The boring head accommodates high running speed up to 5500 RPM.
- Specify single or double-application model when ordering.
- Suitable for mass production of various brands of door latches.



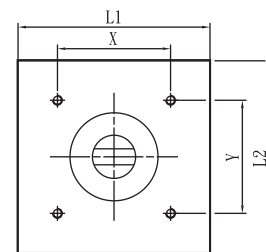
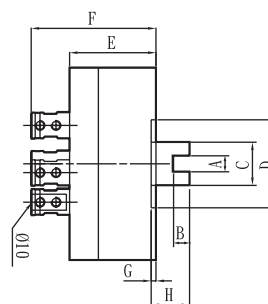
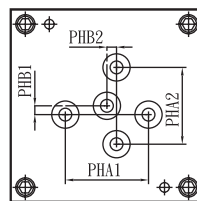
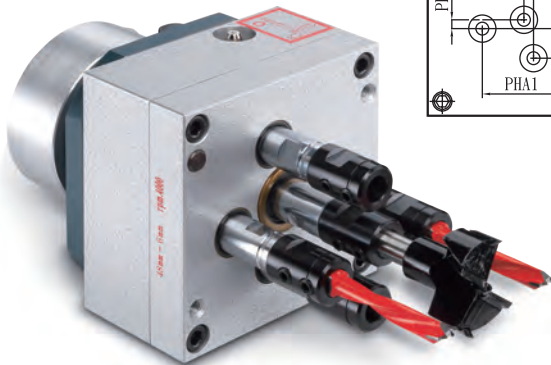
- When order, please show hinge specification.

ITEM NO.	MODEL	DIMENSIONS												SPINDLE TYPE	WEIGHT (kgs)
		A	B	C	D	E	F	G	H	L1	L	X	Y		
54101157	HINGE	10	10	28	55	53	77	3	24	62	90	46	74	M8 x 1.25 M10 x 1.5 Ø10	2.8

UNIT: mm

NO.	MODEL	PHA	PHB
1	HETTICH I	52	5.5
2	HETTICH II	48	-7.5
3	HETTAL	52	6
4	GRASS I	42	11
5	GRASS II	48	-2.5
6	SALICE I	38	7.5
7	SALICE II	48	6
8	MEPLA	48	9
9	HEINZE	52	5.5
10	PRAMETA	52	5.5
11	BLUM	45	9.5

✓ DOUBLE APPLICATION HINGE BORING HEAD



- When order, please show hinge specification.

ITEM NO.	MODEL	DIMENSIONS												SPINDLE TYPE	WEIGHT (kgs)
		A	B	C	D	E	F	G	H	L1	L	X	Y		
54101158	HINGE	10	10	28	55	53	77	3	24	120	120	70.7	70.7	M8 x 1.25 M10 x 1.5 Ø10	2.9

UNIT: mm

NO.	MODEL	PHA	PHB
1	HETTICH I	52	5.5
2	HETTICH II	48	-7.5
3	HETTAL	52	6
4	GRASS I	42	11
5	GRASS II	48	-2.5
6	SALICE I	38	7.5
7	SALICE II	48	6
8	MEPLA	48	9
9	HEINZE	52	5.5
10	PRAMETA	52	5.5
11	BLUM	45	9.5



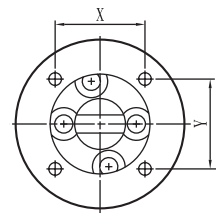
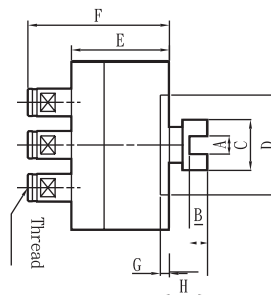
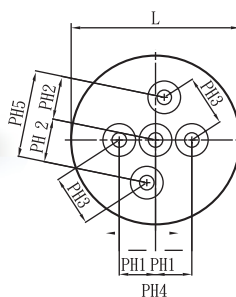
D “ TOOLS FOR DRILLING MACHINES



MULTIPLE SPINDLE BORING HEADS FOR WOOD

V 5-SPINDLE BORING HEAD (FOR WOOD)

- Great drilling capacity for wood $\varnothing 13$ - $\varnothing 15$ mm.



UNIT: mm

ITEM NO.	MODEL	DIMENSIONS											SPACING					MAX CAPACITY	SPINDLE TYPE
		A	B	C	D	E	F	G	H	L	X	Y	PH1	PH2	PH3	PH4	PH5		
54101159	5B-16	10	10	28	55	53	77	3	24	83	45.5	45.5	16	20	25	32	40	$\varnothing 13$	M8 $\times$ 1.25, M10 $\times$ 1.5
54101160	5B-17	10	10	28	55	53	77	3	24	83	45.5	45.5	17	22	32	34	44	$\varnothing 13$	M8 $\times$ 1.25, M10 $\times$ 1.5
54101161	5B-20	10	10	28	55	53	77	3	24	93	49.5	49.5	20	24	28	40	48	$\varnothing 15$	M8 $\times$ 1.25, M10 $\times$ 1.5
54101162	5B-32	10	10	28	55	53	77	3	24	93	49.5	49.5	20	25	32	40	50	$\varnothing 15$	M8 $\times$ 1.25, M10 $\times$ 1.5
54101163	5B-25	10	10	28	55	60	75	3	31	108	64	64	1"	1 1/4"	1/2"	2"	2 1/2"	$\varnothing 15$	M8 $\times$ 1.25, M10 $\times$ 1.5 7/16" $\times$ 14

V SPECIAL BORING HEAD

- The boring head accommodates high running speed up to 4500 RPM.
- To meet specific machining requirement, custom specifications are available according to customer's drawing or sample.
- Extensive manufacturing experience combined with a wide variety of parts to upgrade machining efficiency and quality.



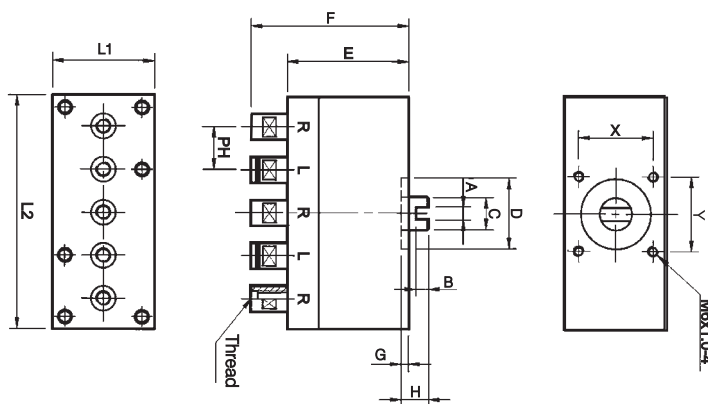


MULTIPLE SPINDLE BORING HEADS FOR WOOD A SERIES-THREAD DRILLS TYPE



V LINE BORING HEAD (FOR WOOD)

- Great drilling capacity for wood $\varnothing$ 15- $\varnothing$ 20 mm.
- Various hole distances for choice.
- The boring head accommodates high running speed up to 6500 RPM.
- Ideal for mass boring application for general furniture, cabinets, assembly toys, etc.
- Suited for fitting on general boring machines.



																	UNIT: mm
ITEM NO.	MODEL	DIMENSIONS											SPACING		SPINDLE TYPE	WEIGHT (kgs)	
		A	B	C	D	E	F	G	H	L1	L	X	Y	PH			MAX CAPACITY
54101164	3L-20	10	10	28	55	53	77	3	24	62	90	46	74	20 mm × 3	Ø15	M8 × 1.25, M10 × 1.5	2.9
54101165	3L-22	10	10	28	55	53	77	3	24	62	90	46	74	22 mm × 3	Ø15	M8 × 1.25, M10 × 1.5	2.9
54101166	3L-25	10	10	28	55	53	77	3	26	62	90	46	74	25 mm × 3	Ø15	M8 × 1.25, M10 × 1.5	2.9
54101167	3L-30	10	10	28	55	53	77	3	24	62	120	46	88.8	30 mm × 3	Ø20	M8 × 1.25, M10 × 1.5	2.5
54101168	3L-32	10	10	28	55	53	77	3	24	62	120	46	88.8	32 mm × 3	Ø20	M8 × 1.25, M10 × 1.5	2.5
54101169	3L-38	10	10	28	55	53	77	3	24	62	145	46	88.8	38 mm × 3	Ø20	M8 × 1.25, M10 × 1.5	3.6
54101170	5L-20	10	10	28	55	53	77	3	24	62	120	46	88.8	20 mm × 5	Ø15	M8 × 1.25, M10 × 1.5	2.4
54101171	5L-22	10	10	28	55	53	77	3	24	62	120	46	88.8	22 mm × 5	Ø15	M8 × 1.25, M10 × 1.5	2.4
54101172	5L-25	10	10	28	55	53	77	3	24	62	145	46	88.8	25 mm × 5	Ø15	M8 × 1.25, M10 × 1.5	3.8
54101173	5L-30	10	10	28	55	53	77	3	26	62	176	46	88.8	30 mm × 5	Ø20	M8 × 1.25, M10 × 1.5	3.2
54101174	5L-32	10	10	28	55	53	77	3	24	62	176	46	88.8	32 mm × 5	Ø20	M8 × 1.25, M10 × 1.5	3.2
54101175	7L-32	10	10	28	55	53	77	3	24	62	245	46	88.8	32mm × 7	Ø15	M8 × 1.25, M10 × 1.5	4
54101176	9L-32	10	10	28	55	53	77	3	24	62	308	46	88.8	32 mm × 9	Ø15	M8 × 1.25, M10 × 1.5	4.5
54101177	11L-32	10	10	28	55	53	77	3	24	62	365	46	88.8	32 mm × 11	Ø15	M8 × 1.25, M10 × 1.5	5
54101178	15L-32	10	10	28	55	53	77	3	24	62	495	46	88.8	32 mm × 51	Ø15	M8 × 1.25, M10 × 1.5	6.8
54101179	21L-32	10	10	28	55	53	77	3	24	62	685	46	88.8	32 mm × 11	Ø15	M8 × 1.25, M10 × 1.5	8.5

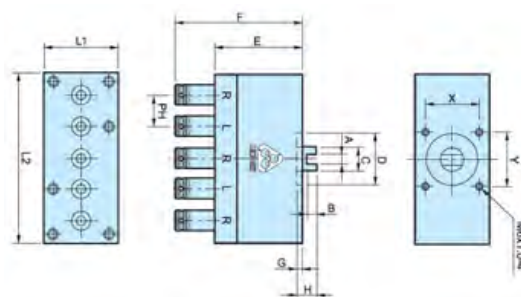
UNIT: mm



D “TOOLS FOR DRILLING MACHINES

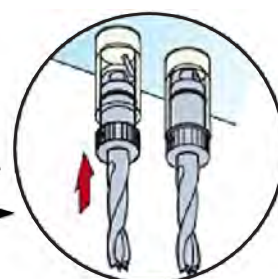


MULTIPLE SPINDLE BORING HEADS FOR WOOD B SERIES-ROUND QUICK ADAPTORS TYPE



- Great drilling capacity for wood Ø15 - Ø20 mm.
- Various hole distances for choice.
- The boring head accommodates high running speed up to 4500 RPM.
- Ideal for mass boring application for general furnitures, cabinets assembly toys, etc.
- Suited for fitting on general boring machines.

An assembly drawing of the QUICK ADAPTOR TYPE

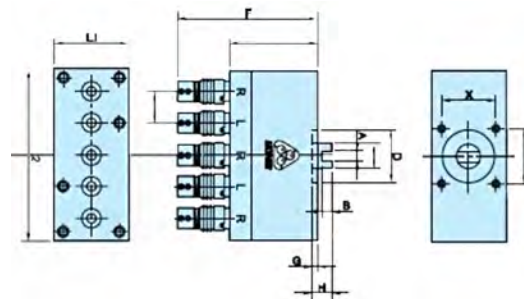


UNIT: mm

ITEM NO.	MODEL	DIMENSIONS												SPACING		THREAD	WEIGHT (kgs)
		A	B	C	D	E	F	G	H	L1	L2	X	Y	PH	MAX CAPACITY		
54101402	3L-20	10	10	28	55	53	77	3	24	62	90	46	74	20 mm × 3	Ø15	M8×1.25, M10×1.5	2.9
54101403	3L-22	10	10	28	55	53	77	3	24	62	90	46	74	22 mm × 3	Ø15	M8×1.25, M10×1.5	2.9
54101404	3L-25	10	10	28	55	53	77	3	26	62	90	46	74	25 mm × 3	Ø15	M8×1.25, M10×1.5	2.9
54101405	3L-30	10	10	28	55	53	77	3	24	62	120	46	88.8	30 mm × 3	Ø20	M8×1.25, M10×1.5	2.5
54101406	3L-32	10	10	28	55	53	77	3	24	62	120	46	88.8	32 mm × 3	Ø20	M8×1.25, M10×1.5	2.5
54101407	3L-38	10	10	28	55	53	77	3	24	62	145	46	88.8	38 mm × 3	Ø20	M8×1.25, M10×1.5	3.6
54101408	5L-20	10	10	28	55	53	77	3	24	62	120	46	88.8	20 mm × 5	Ø15	M8×1.25, M10×1.5	2.4
54101409	5L-22	10	10	28	55	53	77	3	24	62	120	46	88.8	22 mm × 5	Ø15	M8×1.25, M10×1.5	2.4
54101410	5L-25	10	10	28	55	53	77	3	24	62	145	46	88.8	25 mm × 5	Ø15	M8×1.25, M10×1.5	3.8
54101411	5L-30	10	10	28	55	53	77	3	26	62	176	46	88.8	30 mm × 5	Ø20	M8×1.25, M10×1.5	3.2
54101412	5L-32	10	10	28	55	53	77	3	24	62	176	46	88.8	32 mm × 5	Ø20	M8×1.25, M10×1.5	3.2
54101413	7L-32	10	10	28	55	53	77	3	24	62	245	46	88.8	32mm × 7	Ø15	M8×1.25, M10×1.5	4
54101414	9L-32	10	10	28	55	53	77	3	24	62	308	46	88.8	32 mm × 9	Ø15	M8×1.25, M10×1.5	4.5
54101415	11L-32	10	10	28	55	53	77	3	24	62	365	46	88.8	32 mm × 11	Ø15	M8×1.25, M10×1.5	5
54101416	15L-32	10	10	28	55	53	77	3	24	62	495	46	88.8	32 mm × 15	Ø15	M8×1.25, M10×1.5	6.8
54101417	21L-32	10	10	28	55	53	77	3	24	62	685	46	88.8	32 mm × 21	Ø15	M8×1.25, M10×1.5	8.5

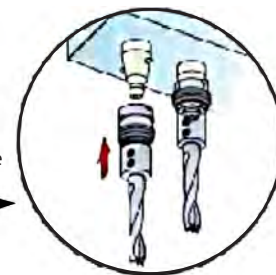


MULTIPLE SPINDLE BORING HEADS FOR WOOD C SERIES-TAPER QUICK ADAPTORS TYPE



- Great drilling capacity for wood Ø20 mm.
- Various hole distances for choice.
- The boring head accommodates high running speed up to 4500 RPM.
- Ideal for mass boring application for general furnitures, cabinets assembly toys, etc.
- Suited for fitting on general boring machines.

An assembly drawing of the
QUICK ADAPTOR TYPE

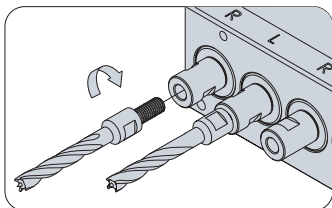


																UNIT: mm
ITEM NO.	MODEL	DIMENSIONS										SPACING		WEIGHT (kgs)		
		A	B	C	D	E	F	G	H	L1	L2	X	Y		PH	MAX CAPACITY
54101418	3L-30	10	10	28	55	53	97.5	3	24	62	120	46	88.8	30mm x 3	Ø20	2.5
54101419	3L-32	10	10	28	55	53	97.5	3	24	62	120	46	88.8	32mm x 3	Ø20	2.5
54101420	5L-30	10	10	28	55	53	97.5	3	24	62	175	46	88.8	30mm x 5	Ø20	3.2
54101421	5L-32	10	10	28	55	53	97.5	3	24	62	175	46	88.8	32mm x 5	Ø20	3.2
54101422	7L-32	10	10	28	55	53	97.5	3	24	62	245	46	88.8	32mm x 7	Ø15	4
54101423	9L-32	10	10	28	55	53	97.5	3	24	62	308	46	88.8	32mm x 9	Ø15	4.5
54101424	11L-32	10	10	28	55	53	97.5	3	24	62	365	46	88.8	32mm x 11	Ø15	5
54101425	15L-32	10	10	28	55	53	97.5	3	24	62	495	46	88.8	32mm x 15	Ø15	6.8
54101426	21L-32	10	10	28	55	53	97.5	3	24	62	685	46	88.8	32mm x 21	Ø15	8.5

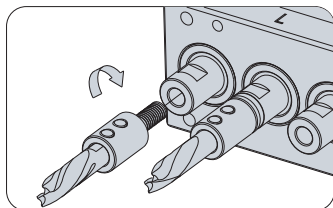


D “TOOLS FOR DRILLING MACHINES

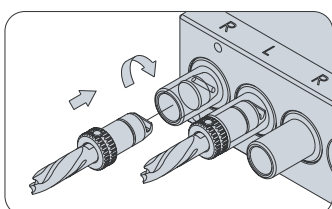
QUICK CHUCKS FOR LINE BORING HEAD



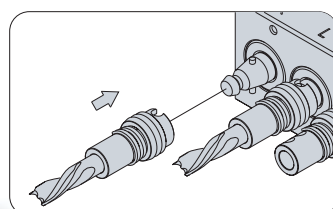
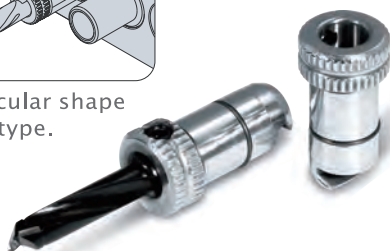
▲ A SERIES: Thread drills type.
PH≥13



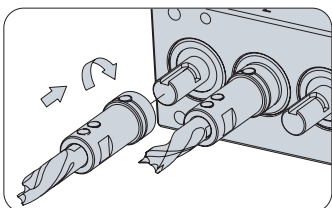
▲ A SERIES: Threaded spindle combined with chuck type.
PH≥16



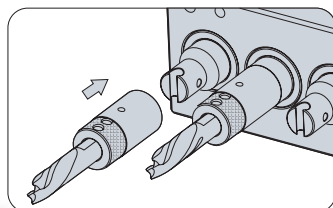
▲ B SERIES: Circular shape quick chuck type.
PH≥20



▲ C SERIES: Conic shape quick chuck type.
PH≥28



▲ D SERIES: Cylindrical shape quick chuck type.
PH≥28



▲ E SERIES: Conic shape quick chuck type.
PH≥28(E1)
PH≥20(E2)



FIX BRACKETS



▲ VERTICAL QUILL TYPE
ITEM NO. 54101180



▲ ADJUSTABLE VERTICAL QUILL TYPE
ITEM NO. 54101181

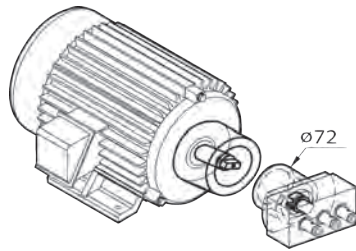


▲ HORIZONTAL BORING UNIT
ITEM NO. 51010182
ITEM NO. 51010183

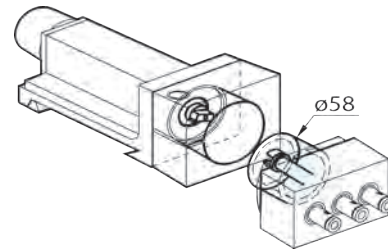




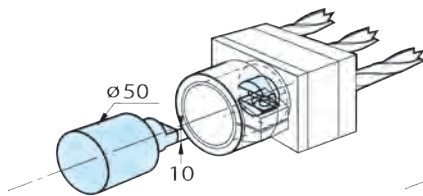
BORING HEADS ARE SUITABLE FOR VARIOUS BORING MACHINES



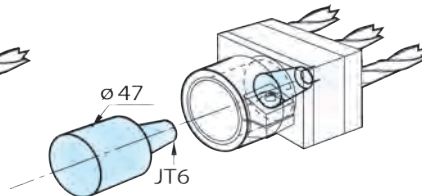
▲ NO: 4 CDH Series



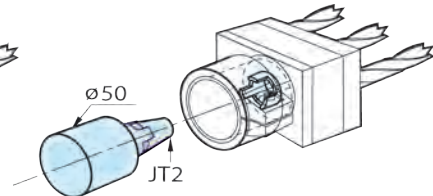
▲ NO: 5 CDVL Series



▲ NO: 1 HS, BH, MD Series



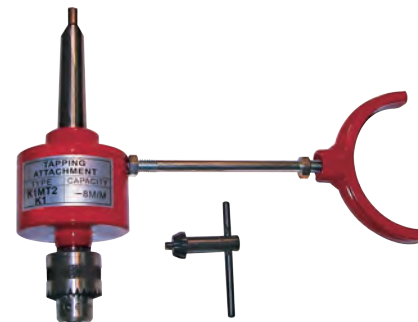
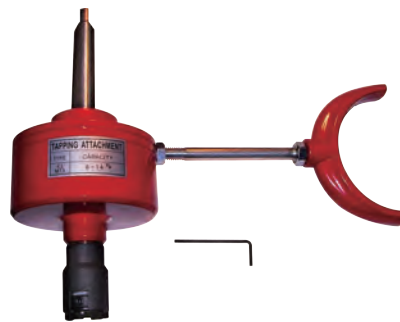
▲ NO: 2 LGD-13 Series



▲ NO: 3 DB-50 MS Series



REVERSIBLE TAPPING ATTACHMENTS FOR DRILLING & MILLING MACHINE



▲ ITEM NO. 54101427
(QUICK CHANGE
TAPPING CHUCK-OPT)

UNIT: mm

ITEM NO.	TYPE	TAPPING CAPACITY	SHANK	TO WORK WITH DRILLING MACHINE	WEIGHT (kgs)	PACKING	SPEED
54101184	K1	Ø3-8	1/2"	drilling machine must equipped with drill chuck capacity 13mm	0.9	✓ 90 × 90 × 190	1:1
54101185	K1-MT2	Ø3-8	MT-2	drilling machine must equipped with MT-2 hole	1	✓ 90 × 90 × 240	1:1
54101186	K2	Ø5-10	1/2"	drilling machine must equipped with drill chuck capacity 13mm	1.6	✓ 100 × 100 × 210	1:1
54101187	K2-MT2	Ø5-10	MT-2	drilling machine must equipped with MT-2 hole	1.7	✓ 100 × 100 × 260	1:1
54101188	K3-MT3	Ø6-14	MT-3	others like MT-3 shank boring hole drilling machine N.T. available	3.1	✓ 125 × 125 × 300	1:1
54101189	K4-MT3	Ø12-25	MT-3	other like MT-3 shank boring hole drilling machine N.T. available	5.5	✓ 160 × 160 × 360	1:1

- K1 Type used chuck to fix the tap.
- K2, K3, K4 Type used the sliding plate of the square sharp.
- Hole to fix the tap.



D “ TOOLS FOR DRILLING MACHINES



RATCHET T TAP WRENCHES (RATCHET TYPE)

▼ Replaceable hardened jaws



▲ ITEM NO. 54101830~1

< ITEM NO. 54101428~9

UNIT: mm

ITEM NO.	HAND TAP RANGE		LENGTH		G.W (kg)
54101428	#0-1/4"	3-6	3-3/4"	90	0.19
54101429	1/4"-1/2"	6-12	4-3/8"	110	0.32
54101430	#0-1/4"	3-6	9-7/8"	250	0.28
54101431	1/4"-1/2"	6-12	11-7/8"	300	0.46



T TAP WRENCHES (PLAIN TYPE)

▼ Replaceable hardened jaws



UNIT: mm

ITEM NO.	HAND TAP RANGE		LENGTH		G.W (kg)
54101432	#0-1/4"	3-6	2-3/4"	70	0.13
54101433	1/4"-1/2"	6-12	3-3/8"	85	0.26



TAP WRENCHES

UNIT: mm



ITEM NO.	HAND TAP RANGE		LENGTH		G.W (kg)
54101434	#0-1/4"	2-6	7"	175	0.1
54101435	1/16"-3/8"	2-10	9"	225	0.22
54101436	5/32"-1/2"	5-13	11"	275	0.33
54101437	5/32"-3/4"	6-19	15"	380	0.6
54101438	1/4"-1-1/8"	10-25	19"	480	1.47
54101439	1/2"-1-3/8"	14-32	30"	760	2.45
54101440	3/4"-1-5/8"	20-38	40"	1000	3.8
54101441	1"-2-1/2"	28-50	54"	1350	-

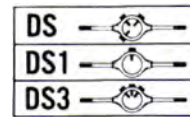


1/4", 3/8", 1/2", 3/4" – TAP WRENCH SET

ITEM NO. 54101441-1 (4PCS/SET)



DIE STOCKS



UNIT: mm

ITEM NO.	TYPE	DIE O.D.		LENGTH		G.W (kg)
54101442	DS-16	5/8"	16	5"	130	0.08
54101443	DS-20	13/16"	20	6-1/4"	155	0.10
54101444	DS-25	1"	25	9"	225	0.17
54101445	DS-33	1-5/16"	33	11"	285	0.26
54101446	DS-38	1-1/2"	38	13"	330	0.41
54101447	DS-50	2"	50	17"	430	0.76
54101448	DS-63	2-1/2"	63	28"	700	1.70
54101449	DS-75	3"	75	30"	770	2.73
54101450	DS-100	4"	100	40"	1000	-

UNIT: mm

ITEM NO.	TYPE	DIE O.D.		LENGTH		G.W (kg)
54101451	DS1-16	5/8"	16	5"	130	0.08
54101452	DS1-20	13/16"	20	6-1/4"	155	0.10
54101453	DS1-25	1"	25	9"	225	0.17
54101454	DS1-33	1-5/16"	33	11"	285	0.26
54101455	DS1-38	1-1/2"	38	13"	330	0.41
54101456	DS1-50	2"	50	17"	430	0.76
54101457	DS1-63	2-1/2"	63	28"	700	1.70
54101458	DS1-75	3"	75	30"	770	2.73
54101459	DS1-100	4"	100	40"	1000	-

UNIT: mm

ITEM NO.	TYPE	DIE O.D.		LENGTH		G.W (kg)
54101460	DS3-16	5/8"	16	5"	130	0.08
54101461	DS3-20	13/16"	20	6-1/4"	155	0.10
54101462	DS3-25	1"	25	9"	225	0.17
54101463	DS3-33	1-5/16"	33	11"	285	0.26
54101464	DS3-38	1-1/2"	38	13"	330	0.41
54101465	DS3-50	2"	50	17"	430	0.76
54101466	DS3-63	2-1/2"	63	28"	700	1.70
54101467	DS3-75	3"	75	30"	770	2.73
54101468	DS3-100	4"	100	40"	1000	-



D5 - TAPPING ATTACHMENT

TOOLS FOR DRILLING MACHINES

D “ TOOLS FOR DRILLING MACHINES



AIR TAPPING MACHINES

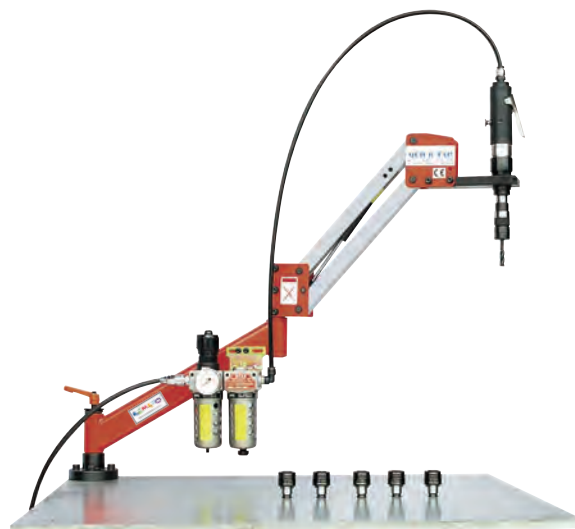
VAQ TYPE

STANDARD ACCESSORIES:

- Air tapping spindle
- Stretch arm
- Table mounting column
- Air unit
- Choose any six safety clutch tapping adapters
- Slanted arm

ITEM NO.	FOR TAP	SPEED (RPM)	WORK RANGE	WEIGHT (kgs)
54101198	M2~M8	700	Rmax 950 mm Rmin 100 mm	16
54101199	M3~M12	400		16
54101200	M3~M16	300		24

ITEM NO.	FOR TAP	SPEED (RPM)	WORK RANGE	WEIGHT (kgs)
54101201	M3~M20	150 / 400	Rmax 1000 mm Rmin 100 mm	25
54101202	M3~M22	120 / 300		25
54101203	M3~M24	100 / 300		25
54101204	M3~M27	70 / 220		25
54101205	M3~M30	40 / 200		25



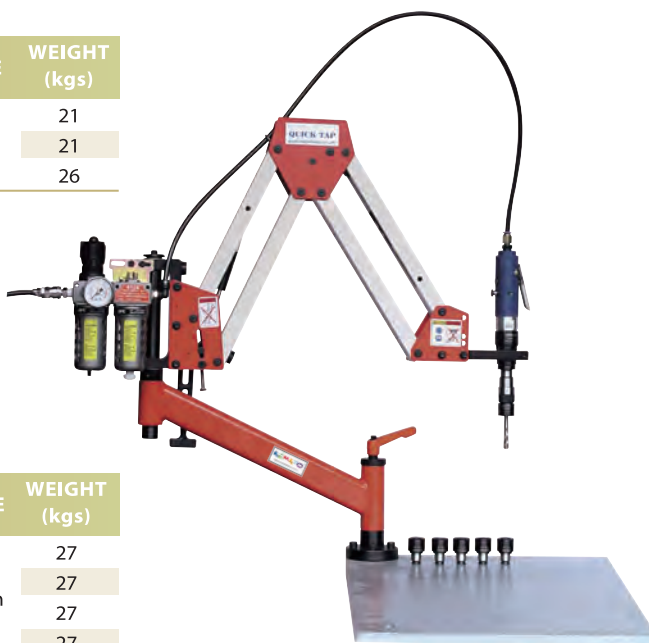
VAS TYPE/II

STANDARD ACCESSORIES:

- Air tapping spindle
- Stretch arm
- Table mounting column
- Air unit
- Choose any six safety clutch tapping adapters
- Slanted arm, increases 500 mm in length

ITEM NO.	FOR TAP	SPEED (RPM)	WORK RANGE	WEIGHT (kgs)
54101206	M2~M8	700	Rmax 1400 mm Rmin 200 mm	21
54101207	M3~M12	400		21
54101208	M3~M16	300		26

ITEM NO.	FOR TAP	SPEED (RPM)	WORK RANGE	WEIGHT (kgs)
54101209	M3~M20	150 / 400	Rmax 1400 mm Rmin 200 mm	27
54101210	M3~M22	120 / 300		27
54101211	M3~M24	100 / 300		27
54101212	M3~M27	70 / 220		27
54101213	M3~M30	40 / 200		27





AIR TAPPING MACHINES

VAT TYPE/I

STANDARD ACCESSORIES:

- Air tapping spindle
- Stretch arm
- Table mounting column
- Air unit
- Choose any six safety clutch tapping adapters

ITEM NO.	FOR TAP	SPEED (RPM)	WORK RANGE	WEIGHT (kgs)
57100542	M2~M8	700	Rmax 1600 mm Rmin 500 mm	20
57100543	M3~M12	400		20
57100544	M3~M16	300		25

ITEM NO.	FOR TAP	SPEED (RPM)	WORK RANGE	WEIGHT (kgs)
54101214	M3~M20	150 / 400	Rmax 1600 mm Rmin 500 mm	36
54101215	M3~M22	120 / 300		36
54101216	M3~M24	100 / 300		36
54101217	M3~M27	70 / 220		36
54101218	M3~M30	40 / 200		36



VAT TYPE/II

STANDARD ACCESSORIES:

- Air tapping spindle
- Stretch arm
- Table mounting column
- Air unit
- Choose any six safety clutch tapping adapters
- Slanted arm, increases 500 mm in length

ITEM NO.	FOR TAP	SPEED (RPM)	WORK RANGE	WEIGHT (kgs)
54101219	M2~M8	700	Rmax 1900 mm	23
54101220	M3~M12	400	Rmin 200 mm	23

ITEM NO.	FOR TAP	SPEED (RPM)	WORK RANGE	WEIGHT (kgs)
54101221	M3~M16	300	Rmax 1900 mm Rmin 200 mm	27

ITEM NO.	FOR TAP	SPEED (RPM)	WORK RANGE	WEIGHT (kgs)
54101222	M3~M20	150 / 400	Rmax 1900 mm Rmin 200 mm	38
54101223	M3~M22	120 / 300		38
54101224	M3~M24	100 / 300		38
54101225	M3~M27	70 / 220		38
54101226	M3~M30	40 / 200		38



D6 - TAPPING MACHINES

TOOLS FOR DRILLING MACHINES

D “ TOOLS FOR DRILLING MACHINES



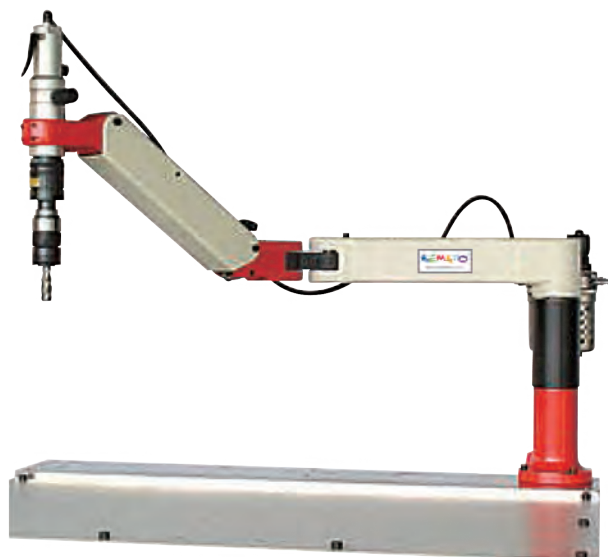
AIR TAPPING MACHINES

VAR TYPE (CE)

STANDARD ACCESSORIES

- Pneumatic tapping spindle
- Stretch arm
- Table mounting column
- Air unit
- Choose any six safety clutch
- Tapping adapters

ITEM NO.	FOR TAP	SPEED (RPM)	WORK RANGE	WEIGHT (kgs)
54101469	M3~M16	300	Rmax 1100 mm Rmin 250 mm	35
54101470	M3~M20	150 / 400		35
54101471	M3~M22	120 / 300		35
54101472	M3~M24	100 / 300	Rmax 1100 mm Rmin 250 mm	35
54101473	M3~M27	70 / 220		35
54101474	M3~M30	40 / 200		35



AIR AE HYDRAULIC SPECIAL ACCESSORIES OF TAPPING MACHINES

ITEM NO.	MODEL	WEIGHT (kgs)
54101227	AQ.AS.AT (08-90°)	2
54101228	AQ.AS.AT (12-90°)	2

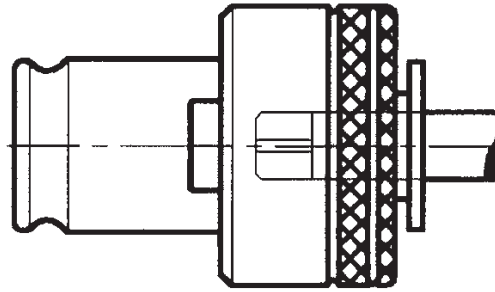
ITEM NO.	MODEL	WEIGHT (kgs)
54101229	AQ.AS.AT (16-90°)	2
54101230	AQ.AS.AT (20-90°)	2
54101231	AQ.AS.AT (22-90°)	2
54101232	AQ.AS.AT (24-90°)	2
54101233	AQ.AS.AT (27-90°)	2
54101234	AQ.AS.AT (30-90°)	2

- 90° and various degree tapping device.





TAP SHANK DIMENSIONS (CE)



D6 - TAPPING MACHINES

TOOLS FOR DRILLING MACHINES

V JIS UNIT: mm

METRIC	UNC	DIA Ø	SQUARE
M2		3	2.5
M3		4	3.2
M4	M4.5	5	4
M5	M5.5	5.5	4.5
M6	W 1/4	6	4.5
	W 5/16	6.1	5
M8	M7	6.2	5
M10	M9	7	5.5
M11	W 7/16	8	6
M12		8.5	6.5
	W 1/2	9	7
M14	M15	10.5	8
	W 5/8	12	9
M16		12.5	10
M17		13	10
M18	W 3/4	14	11
M20		15	12
M22	W 7/8	17	13
M24	M25	19	15
M26	M27	20	15
M28		21	17
	W 1 1/8	22	17
M30		23	17
M32	W 1 1/4	24	19
M33		25	19
M34	M35	26	21
M36	M38	28	21
M39	M40	30	23
M42	W 1 5/8	32	26
M45	W 1 3/4	35	26
M48	W 1 7/8	38	29

PT	PF		
1/8	1/8	8	6
1/4	1/4	11	9
3/8	3/8	14	11
1/2	1/2	18	14
	5/8	19	15
3/4	3/4	23	17
	7/8	24	19
1	1	26	21
	1 1/8	28	21
1 1/4	1 1/4	32	26
1 3/8	1 3/8	35	26
1 1/2	1 1/2	38	29

V DIN UNIT: mm

DIMENSION DIA x SQUARE	DIN 352	DIN 371
	M1	M1
	M1.1	M1.1
2.5 × 2.1	M1.2	M1.2
	M1.4	M1.4
	M1.6	M1.6
	M1.8	M1.8
	M2	M2
2.8 × 2.1	M2.2	M2.2
	M2.5	M2.5
3.5 × 2.7	M3	M3
4 × 3	M3.5	M3.5
4.5 × 3.4	M4	M4
	M5	M5
	M6	M6
	M8	
7 × 5.5	M10	
8 × 6.2		M8
9 × 7	M12	
10 × 8		M10
11 × 9	M14	
12 × 9	M16	
14 × 11	M18	
16 × 12	M20	
18 × 14.5	M22	
	M24	
20 × 16	M27	
22 × 18	M30	
25 × 20	M33	
28 × 22	M36	
	M39	
32 × 24	M42	
	M45	
36 × 29	M48	
40 × 32	M52	
	M56	
40 × 35	M60	

V ISO UNIT: mm

DIMENSION DIA x SQUARE	METRIC
2.24 × 1.8	M3
2.5 × 2.0	M3.5
	M2
2.8 × 2.24	M2.2
	M2.5
3.15 × 2.5	M4
	M3
3.55 × 2.8	M4.5
	M3.5
4 × 3.15	M5
	M4
4.5 × 3.55	M6
	M5
5 × 4	M8
6.3 × 5	M6
8 × 6.3	M10
9 × 7.1	M12
10 × 8	M10
11.2 × 9	M14
12.5 × 10	M16
	M18
14 × 11.2	M20
16 × 12.5	M22
18 × 14	M24
20 × 16	M27
	M30
22.4 × 18	M33
25 × 20	M36
	M39
28 × 22.4	M42
	M45
31.5 × 25	M48
	M52
35.5 × 28	M56
	M60
40 × 31.5	M64

V ANSI (USA) UNIT: inch

DIMENSION SHANK SQUARE	MUCH. SCREW SIZE NO.	NOMINAL FACTIONAL DIAMETER INCHES
0.141	0.110	0
0.141	0.110	1
0.141	0.110	2
0.141	0.110	3
0.141	0.110	4
0.141	0.110	5
0.141	0.110	6
0.168	0.131	8
0.194	0.152	10
0.220	0.165	12
0.255	0.191	14
0.318	0.238	
0.381	0.286	
0.323	0.242	
0.367	0.275	
0.429	0.322	
0.480	0.360	
0.542	0.406	
0.590	0.442	
0.652	0.489	
0.697	0.523	
0.760	0.570	
0.800	0.600	
0.895	0.672	
0.896	0.672	
1.021	0.766	
1.021	0.766	
1.108	0.831	
1.108	0.831	
1.233	0.925	
1.233	0.925	
1.305	0.979	
1.430	1.072	
1.519	1.139	
1.644	1.233	
0.3125	0.234	1/16 NPT
0.4375	0.328	1/8 NPT
0.5625	0.421	1/4 NPT
0.700	0.531	3/8 NPT
0.6875	0.515	1/2 NPT
0.9063	0.679	3/4 NPT
1.125	0.843	1" NPT
1.3125	0.984	1 1/4 NPT
1.500	1.125	1 1/2 NPT

D “TOOLS FOR DRILLING MACHINES



PNEUMATIC TAPPING TOOLS



▲ ITEM NO. 54101235
Pneumatic Various Degree Tapping Hand Tool



▲ ITEM NO. 54101236
Pneumatic Chuck Tapping Hand Tool



▲ ITEM NO. 54101237
Pneumatic Torsional Tapping Hand Tool

ITEM NO.	FOR TAP	SPEED (RPM)	SPINDLE TYPE	MAX. AIR CONSUMPTION (Nm ³ /min)	AIR HOSE SIZE (mm)	WEIGHT (kgs)	PARTS
54101235	M2~M12	250	HTP / B12	0.4	9.5	2.5	Wrench
54101236	M2~M12	250	CAP10 / B12	0.4	9.5	2.5	Wrench
54101237	M2~M12	250	TH1 / B12	0.4	9.5	4	W / 6pcs Torsional Collets+ Wrench



ELECTRIC TAPPING MACHINE

▼ DMR TYPE (CE)

STANDARD ACCESSORIES

- Electric tapping spindle
- Parallel arm
- Table mounting column
- Choose any six safety clutch tapping adapters
- Electric-controlled device

OPTIONAL DEVICE

- 90° and various degree tapping device
- Cast iron work cart



UNIT: mm

ITEM NO.	FOR TAP	SPEED (RPM)	WORK RANGE RMAX RMIN	VOLTAGE	ELECTRIC MOTOR	WEIGHT (kgs)
54101475	M3~M16	0~300 / 0~60	1100 250	220V Single-PHASE	0.4 kw	35 / 40



ELECTRIC TAPPING MACHINES

V DMT TYPE (CE)

STANDARD ACCESSORIES

- Electric tapping spindle
- Parallel arm
- Slanted arm
- Table mounting column
- Choose any six safety clutch tapping adapters
- Electric-controlled device

OPTIONAL DEVICE

- 90° and various degree tapping device
- Cast iron work cart



UNIT: mm

ITEM NO.	FOR TAP	SPEED (RPM)	WORK RANGE		VOLTAGE	ELECTRIC MOTOR	WEIGHT (kgs)
			RMAX	RMIN			
54101238	M3~M16	0~400 / 0~130	1500	200	220V Single-PHASE	0.4 kw	35 / 40
54101476	M3~M24	0~350 / 0~110	1500	200		0.6 kw	35 / 40

V DMT TYPE (CE)

STANDARD ACCESSORIES

- Electric tapping spindle
- Parallel arm
- Table mounting column
- Choose any six safety clutch tapping adapters
- Electric-controlled device

OPTIONAL DEVICE

- 90° and various degree tapping device
- Cast iron work cart



UNIT: mm

ITEM NO.	FOR TAP	SPEED (RPM)	WORK RANGE		VOLTAGE	ELECTRIC MOTOR	WEIGHT (kgs)
			RMAX	RMIN			
54101477	M3~M32	0~350 / 0~70	1500	200	220V Single-PHASE	1.5 kw	60 / 65



D “ TOOLS FOR DRILLING MACHINES



ELECTRIC TAPPING MACHINE

EMAQ TYPE (CE)

STANDARD ACCESSORIES

- Electric tapping spindle
- Parallel arm
- Slanted arm
- Table mounting column
- Choose any six safety clutch tapping adapters
- Electric-controlled device
- Digital readout manual panel
- Depth controller, reverse in automatic

OPTIONAL DEVICE

- 90° and various degree tapping device
- Cast iron work cart



UNIT: mm

ITEM NO.	FOR TAP	SPEED (RPM)	WORK RANGE		VOLTAGE	ELECTRIC MOTOR	WEIGHT (kgs)
			RMAX	RMIN			
54101478	M3~M32	0~300 / 0~60	1000	100	220V Single-PHASE	0.75 kw	60/65

EMT TYPE

STANDARD ACCESSORIES

- Electric tapping spindle
- Parallel arm
- Slanted arm
- Table mounting column
- Choose any six safety clutch tapping adapters
- Electric-controlled device
- Digital readout manual panel
- Depth controller, reverse in automatic

OPTIONAL DEVICE

- 90° and various degree tapping device
- Cast iron work cart



UNIT: mm

ITEM NO.	FOR TAP	SPEED (RPM)	WORK RANGE		VOLTAGE	ELECTRIC MOTOR	WEIGHT (kgs)
			RMAX	RMIN			
54101239	M3~M32	0~300 / 0~60	1900	200	220V Single-PHASE	0.75 kw	65 / 70



HYDRAULIC TAPPING MACHINES



V HMT TYPE

STANDARD ACCESSORIES:

- Hydraulic tapping spindle
- Parallel arm
- Table mounting column
- Choose any six safety clutch tapping adapters
- Work table, 900×630 mm work cart
- Electric motor, hydraulic pump, hydraulic box
- Electric-controlled device

ITEM NO.	FOR TAP	SPEED (RPM)	WORK RANGE	VOLTAGE	ELECTRIC MOTOR	HYDRAULIC PRESSURE	WEIGHT (kgs)
54101240	M3~M22	0~400	Rmax 1600 mm Rmin 200 mm	220 / 380V, 50/60 Hz, 3-PHASE	3 HP	100 kg/cm ²	400 / 500 (N.W. / G.W.)

ITEM NO.	FOR TAP	SPEED (RPM)	WORK RANGE	VOLTAGE	ELECTRIC MOTOR	HYDRAULIC PRESSURE	WEIGHT (kgs)
54101241	M4~M32	0~550 / 0~105	Rmax 1600 mm Rmin 200 mm	220 / 380V, 50/60 Hz, 3-PHASE	3 HP	100 kg/cm ²	400 / 500 (N.W. / G.W.)

ITEM NO.	FOR TAP	SPEED (RPM)	WORK RANGE	VOLTAGE	ELECTRIC MOTOR	HYDRAULIC PRESSURE	WEIGHT (kgs)
54101242	M4~M42	0~400 / 0~75	Rmax 1600 mm Rmin 200 mm	220 / 380V, 50/60 Hz, 3-PHASE	3 HP	100 kg/cm ²	400 / 500 (N.W. / G.W.)



D6 - TAPPING MACHINES

TOOLS FOR DRILLING MACHINES

D “ TOOLS FOR DRILLING MACHINES



HYDRAULIC TAPPING MACHINES

V HMT TYPE

ITEM NO.	FOR TAP	SPEED (RPM)	WORK RANGE	VOLTAGE	ELECTRIC MOTOR	HYDRAULIC PRESSURE	WEIGHT (kgs)
54101243	M8~M50	0~360 / 0~60	Rmax 1600 mm Rmin 200 mm	220 / 380 V, 50/60 Hz, 3-PHASE	5 HP	140 kg/cm ²	400 / 500 (N.W. / G.W.)

ITEM NO.	FOR TAP	SPEED (RPM)	WORK RANGE	VOLTAGE	ELECTRIC MOTOR	HYDRAULIC PRESSURE	WEIGHT (kgs)
54101244	M8~M60	0~360 / 0~60	Rmax 1600 mm Rmin 200 mm	220 / 380 V, 50/60 Hz, 3-PHASE	10 HP	140 kg/cm ²	750 / 850 (N.W. / G.W.)



HYDRAULIC SPECIAL ACCESSORIES OF TAPPING MACHINES



▲ Depth Controller
ITEM NO. 54101245



▲ 90° and Various degree tapping device
ITEM NO. 54101377



HYDRAULIC TAPPING MACHINES

VHM TYPE

STANDARD ACCESSORIES:

- Hydraulic tapping spindle
- Parallel arm
- Table mounting column
- Choose any six safety clutch tapping adapters
- Work cart
- Electric motor, hydraulic pump, hydraulic box
- Electric-controlled device



ITEM NO.	FOR TAP	SPEED (RPM)	WORK RANGE	VOLTAGE	ELECTRIC MOTOR	HYDRAULIC PRESSURE	WEIGHT (kgs)
54101246	M3~M22	0~400	Rmax 1600 mm Rmin 200 mm	220 / 380V, 50 / 60 Hz, 3-PHASE	3 HP	100 kg/cm ²	300 / 400
54101247	M4~M32	0~550 / 0~105			3 HP	100 kg/cm ²	300 / 400
54101248	M4~M42	0~400 / 0~75			3 HP	100 kg/cm ²	300 / 400
54101249	M8~M50	0~360 / 0~60			5 HP	140 kg/cm ²	300 / 400
54101250	M8~M60	0~360 / 0~60			10 HP	140 kg/cm ²	450 / 550



AIR AE HYDRAULIC SPECIAL ACCESSORIES OF TAPPING MACHINES

- Automatic Tap Lubricator System
ITEM NO. 54101251



- ▲ Cobra Lubricator System
ITEM NO. 54101252



D6 - TAPPING MACHINES

TOOLS FOR DRILLING MACHINES

D “TOOLS FOR DRILLING MACHINES

AIR AE HYDRAULIC SPECIAL ACCESSORIES OF TAPPING MACHINES



< Cast Iron Work cart
ITEM NO. 54101253
900×630×900 mm
200 kgs



MAGNETIC TAPPER

✓ ITEM NO. 54101255 (M4~M12)

FEATURES:

- Lightweight, easy to operate and convenient to carry.
- Guide bar design helps to position the tap and holes precisely.
- Even force-delivering during operation prevents the tap from breaking, reducing tool wear and lowering processing cost.
- Quick chuck enables the tap to be loaded and unloaded quickly.
- No maintenance cost for powerful permanent-magnetic base.

✓ Example



DRILL GRINDING ATTACHMENT (M3~M19) (L: 75mm↑)

- A very economical way to grind drills.



< ITEM NO. 54101256



RIG-MOUNTED DIAMOND CORE DRILL MOTORS



D7 - DIAMOND CORE DRILLING MACHINES

TOOLS FOR DRILLING MACHINES

Anti-seize ring to keep core bits from getting stuck on the spindle

Sturdy 4 speed gear box with oil bath lubrication and mechanical clutch

Extra high-efficiency 3500W motor in aluminum housing for better cooling and durability

Tail handle

Quick-replaceable water seals

Built in levels

Advanced motor protection electronics, includes soft-start, overheat and overload protection. The surge function which lets the operator easily know that the motor is near overload conditions.

Quick-release water coupling

Built-in levels



Mounted To The Optional Rig
(See P-D58, 59)



STANDARD ACCESSORIES:

- Water Supply Kit
- PRCD / GFCI Interrupter
- REMARK:110-120V W/O PRCD / GFCI

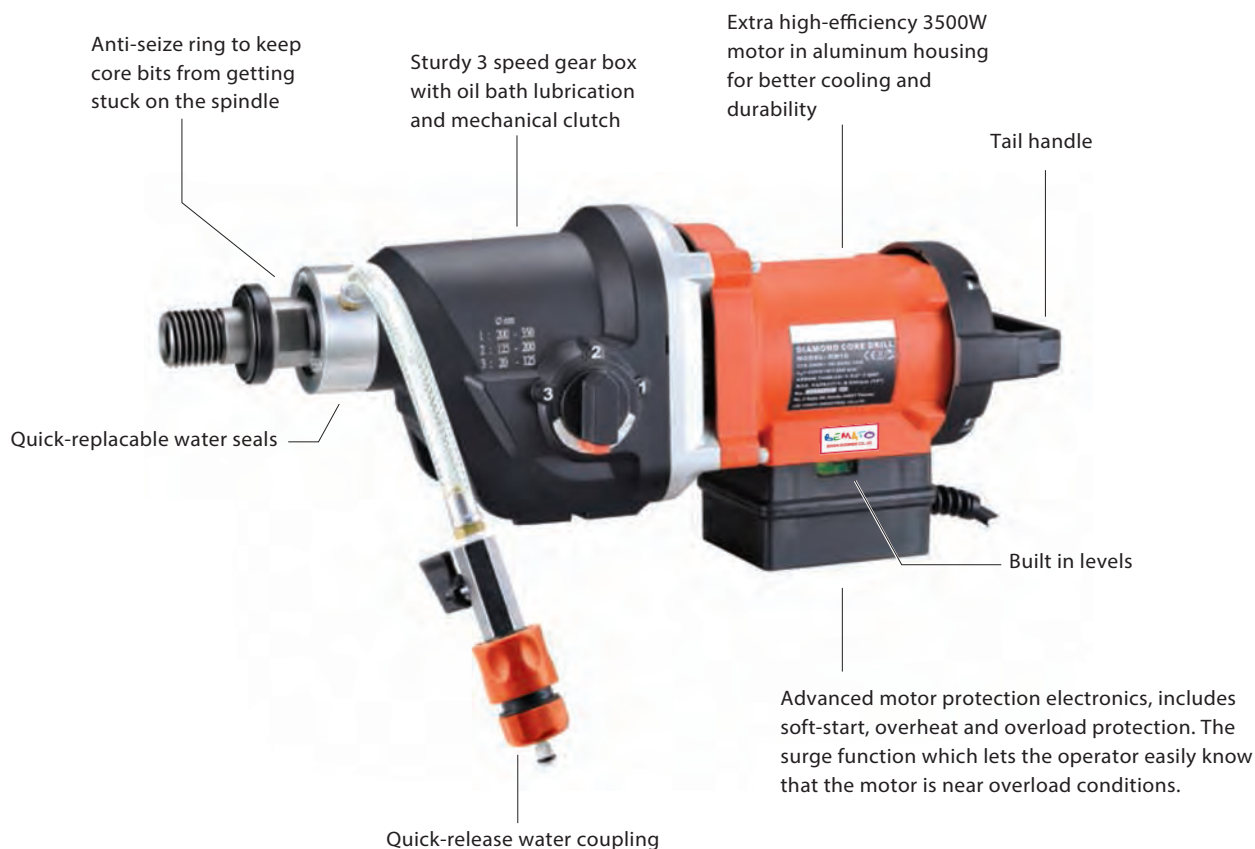
ITEM NO.	54101479
Power Input	110-120V: 2800W (25A), 220-240V: 3500W (16A)
Voltage	110-120V / 50-60Hz, 220-240V / 50-60Hz
No Load Speed	385 / 530 / 975 / 1340 rpm
Rated Load Speed	225 / 300 / 565 / 780 rpm
Drilling Capacity	Ø450 mm
Gear Oil Type	90W
Gear Oil Capacity	500 ml
Spindle Thread	1-1/4" UNC male, 1/2" BSP female
Protection Class	Class I With PRCD / GFCI (110-120V W/O PRCD / GFCI)
Soft Start & Overload Protection	With
Dimensions	550 x 155 x 210 mm
Weight	13.5 kgs (27.8 lbs)

D “ TOOLS FOR DRILLING MACHINES



RIG-MOUNTED DIAMOND CORE DRILL MOTORS

Our all-new **54101479** and **54101480** are the latest in our new premium line of diamond core drilling machines. These are built for the stresses of continuous professional use. The motors are built for extreme durability and super efficiency. These are our most powerful single phase motors. The all-metal construction allows for both improved cooling and increased durability. The relay type switch avoids accidental restarts. The smart electronic motor control includes soft start, current and thermal overload as well as a very useful pulse overload warning system. The oil bath four and three speed gear boxes include a high performance mechanical clutch. The spindle includes an anti-seize ring. If you're a professional and are looking for a serious core drilling motor, then this is the machine for you.



Mounted To The Optional Rig
(See P-D58, 59)

ITEM NO.	54101480
Power Input	110-120V: 2800W (25A), 220-240V: 3500W (16A)
Voltage	110-120V / 50-60Hz, 220-240V / 50-60Hz
No Load Speed	450 / 810 / 1300 rpm
Rated Load Speed	270 / 480 / 780 rpm
Drilling Capacity	Ø350 mm
Gear Oil Type	90W
Gear Oil Capacity	500 ml
Spindle Thread	1-1/4" UNC male, 1/2" BSP female
Protection Class	Class I With PRCD / GFCI
Soft Start & Overload Protection	With
Dimensions	550 x 155 x 210 mm
Weight	12.9 kgs (28.4 lbs)



STANDARD ACCESSORIES:

- Water Supply Kit
- PRCD / GFCI Interrupter
- REMARK: 110-120V W/O PRCD / GFCI





DIAMOND CORE DRILLING MACHINES

- Can drill at any angle from 0 to 45 degrees.
- Can be anchored for use with up to 120 mm bits.
- High output motor for faster drilling.
- Top quality sealed ball bearing construction for long tool life.

- Massive 2200W motor.
- Cool running under industrial use.
- Heavy duty steel pole for accurate drilling.
- Circuit breaker switch for safety.



ITEM NO. 54101363



ITEM NO. 54101364

STANDARD ACCESSORIES (54101363)

- Square washer 3/8"
- Screw 3/8" x 75 mm
- Hex nut 3/8"
- Driving holder 3/8"
- Wrench 14 x 17 mm
- Wrench 27 mm
- Wrench 32 mm
- Anchor 3/8"

STANDARD ACCESSORIES (54101364)

- Wrench 17 x 19 mm
- Wrench 36 mm
- Wrench 45 mm
- Driving holder 1/2"
- Anchor 1/2" x 2
- Bolt 1/2" x 140 mm
- Square washer x 2
- Water collector
- Hex. nut 1/2" x 3

ITEM NO.	54101363	54101364
Power Input	1100W	2200W
Voltage	230V / 50Hz, 110V / 60Hz	230V / 50Hz, 110V / 60Hz
No Load Speed	1000 rpm	800 rpm
Capacity	Bit diameter: 27 mm (1") ~ 120 mm (4-11/16") Effective stroke : 350 mm (13-13/16")	Bit diameter: 27 mm (1") ~ 150 mm (6") Effective stroke: 480 mm (18-7/8")
Angle	0~45°	N/A
Spindle Thread	1-1/4"-7 UNC	1-1/4"-7 UNC
Dimensions	300 x 130 x 565 mm	370 x 200 x 865 mm
Net Weight	7.8 kgs (17.21 lbs)	18 kgs (39.68 lbs)

OPTIONAL ACCESSORY:



Water Collector for
54101363



Water Collector for
54101364

WATER COLLECTOR

Application

54101363
54101364

Part Number

0299-0037-00000-001
0299-0037-00000-002

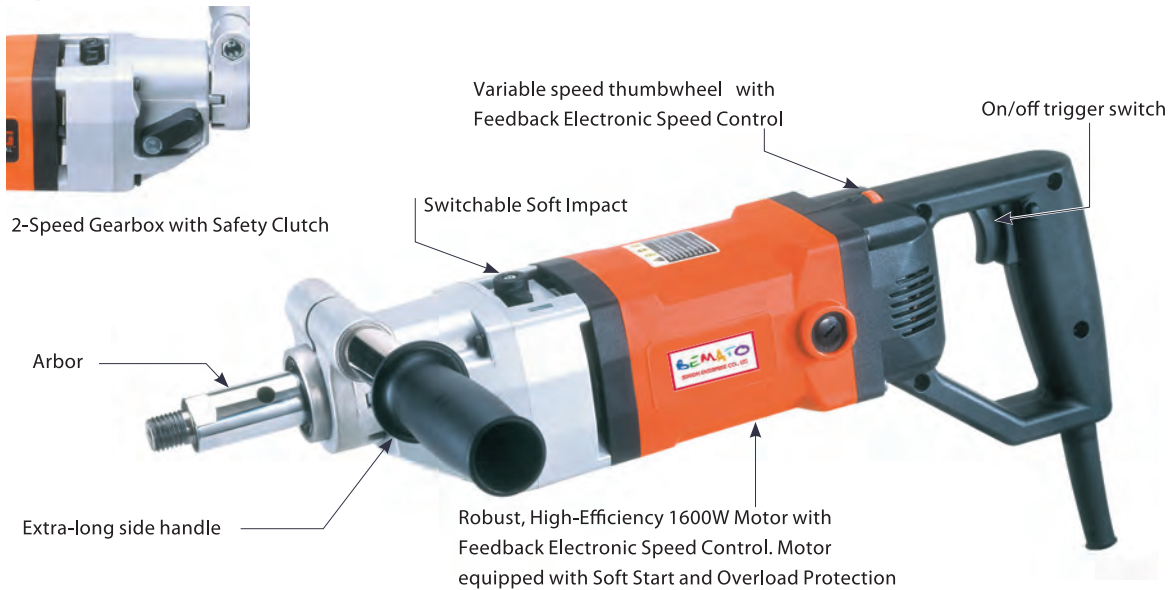


- PRCD / GFCI Interrupter Protection



D “TOOLS FOR DRILLING MACHINES

WET+DRY DIAMOND CORE DRILL



V DRY DRILLING SET-UP (OPTIONAL)

Optional dry drilling vacuum collar with bayonet hose connector for through-the-spindle dust collection.



V WET DRILLING SET-UP (OPTIONAL)

Optional water feed collar with valve and quick-release hose coupling



ITEM NO.	54101367
Power Input	1700W
Voltage	230V / 50Hz, 110V / 60Hz
No Load Low Range Gear	500~1500 rpm
No Load High Range Gear	700~2300 rpm
Gearbox	2 Speed
Capacity (brick)	160 mm
Capacity (concrete)	80 mm
Spindle	M18 or M16
Switchable Soft Impact	With
Soft start & Overload Protection	With
Mechanical Safety Clutch	With
Neck Diameter	43 mm
Net Weight	3.8 kgs (8.36 lbs)

V OPTIONAL VACUUM COLLECTOR PAD

This device adheres to the wall by vacuum cleaner suction and very effectively collects the dust or water right at the source. Various rings are available for different core sizes. The ring set includes 45, 55, 65 and 75 mm. by removing the ring, up to 95 mm is possible. rpm



STANDARD ACCESSORIES:

- Wrench M19/21
- Side handle

OPTIONAL ACCESSORIES:

- Water feed collar w/ valve & coupling
- Dry vacuum collar w/ bayonet connector
- Vacuum collector pad (small, D45, D55, D65, D75)



WET+DRY DIAMOND CORE DRILL



✓ Dry Core Drill Mode



✓ Wet Core Drill Mode

Mounted to the optional
Rig (see p.D58)



ITEM NO.		54101365
Power Input		2200W
Voltage		230V / 50Hz, 110V / 60Hz
No Load	Speed1	400~850 rpm
	Speed2	750~1640 rpm
	Speed3	1550~3450 rpm
Max. Core Bit	On rig	8 in (200 mm)
	By hand	6 in (160 mm)
Available Arbor Thread		Male: 1-1/4"-7 UNC or Female: 1/2" BSP
Neck Diameter		60 mm
Diameter		552 × 110 × 150 mm
Soft start & Overload Protection		with
Net Weight		6.0 kgs (13.2 lbs)

STANDARD ACCESSORIES:

- M32 combination wrench
- Water supply kit
- Side handle
- PRCD interrupter protection

D “ TOOLS FOR DRILLING MACHINES



WET + DRY DIAMOND CORE DRILLS

The **54101481** and **54101482** are very useful and effective single-speed hand-held diamond core drills. All models are equipped with our all new high efficiency 1.8kw motors which include soft start and an effective overload protection system. This system allows the operator to work at peak efficiency. As an added level of safety the single speed gear box has a mechanical slip clutch. There are a number of key options which make this new series capable of different tasks based upon its

FEATURES:

- For dry drilling, the switchable soft percussion function keeps the diamonds sharp and makes dry drilling much more efficient. Note: This function should not be used with wet diamond core bits. These machines may be ordered without this function if it is not needed.
- For wet drilling, there is a water feed set. These machines may be ordered without this option if it is not needed.
- There are a number of spindle threads available. Please specify the spindle thread when ordering.

V Pistol-Handle Model (ITEM NO. 54101482)



V D-Handle Model (ITEM NO. 54101481)



ITEM NO.	54101482	54101481
Power Input	110-120V: 1800W (15.6A), 220-240V: 1800W (7.8A)	
Voltage	110-120V / 50-60Hz, 220-240V / 50-60Hz	
No Load / Full Load Speed	3600 / 2160 rpm	
Percussion Frequency (optional)	56,000 bpm	
Spindle Thread	1/2" BSP female (w/ water feed) or M18 x 2.5 (dry) (Specify when ordering)	
Capacity	80 mm	
Soft Start & Overload Protection	With	
Mechanical Safety Clutch	With	
Protection Class	Class II with PRCD / GFCI	
Dimensions	390 x 90 x 280 mm	450 mm x 90 mm x 210 mm
Neck Diameter	60 mm	60 mm
Net Weight	4.5 kgs (9.92lbs)	4.7 kgs (10.36 lbs)

STANDARD ACCESSORIES

- Side handle
- Water feed assembly
- Percussion selector (Only for dry drilling)
- PRCD / GFCI interrupter

OPTIONAL ACCESSORIES

- Anti-vibration side handle
- SDS pilot drill socket



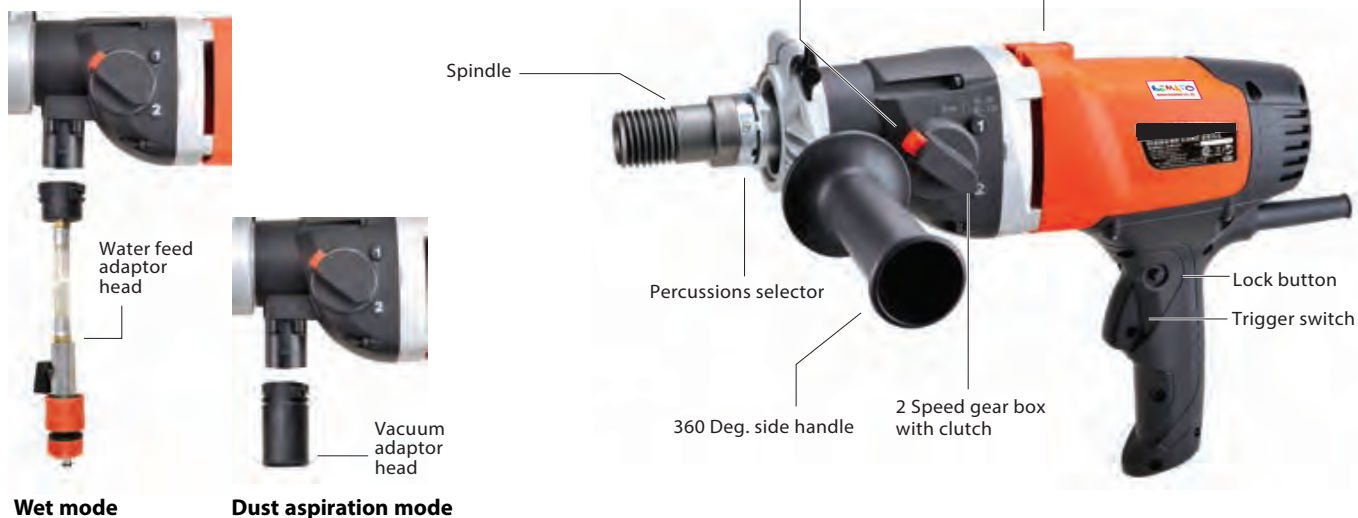
WET + DRY DIAMOND CORE DRILLS

The **54101483** and **54101484** are very useful and effective two-speed hand-held diamond core drills. They are convertible between wet drilling and drilling with dust aspiration. All models are equipped with our all new high efficiency 1.8kw motors which include soft start, thermal protection and our very effective overload protection system. This system allows the operator to work at peak efficiency. As an added level of safety the two speed gear box has a mechanical slip clutch. There are a number of key options which make this new series capable of different tasks

FEATURES:

- For dry drilling, the switchable soft percussion function keeps the diamonds sharp and makes dry drilling much more efficient. **Note:** this function should not be used with wet diamond core bits. These machines may be ordered without this function if it is not needed.
- The convertible arbor port allows quick conversion between water feed and through-the-spindle dust aspiration.
- The water feed adapter head and vacuum adapter head simply fit in the port with a bayonet connection.
- These machines may be ordered without either of the adapter heads if it is not needed.

V Pistol-Handle Model (ITEM NO. 54101484)



V D-Handle Model (ITEM NO. 54101483)



ITEM NO.	54101484	54101483
Power Input	110-120V: 1800W (15.6A), 220-240V: 1800W (7.8A)	
Voltage	110-120V/ 50-60Hz, 220-240V/ 50-60Hz	
No Load / Full Load	Speed 1	1800 / 1080 rpm
	Speed 2	3600 / 2160 rpm
Percussion Frequency (optional)	Speed 1	29,000 bpm
	Speed 2	56,000 bpm
Spindle Thread	1-1/4" UNC male x 1/2" BSP female (w/ water feed) or M18-2.5 or 1/2" BSP (Specify when ordering)	
Capacity	120 mm	
Soft Start & Overload Protection	With	
Mechanical Safety Clutch	With	
Protection Class	Class II with PRCD / GFCI	
Dimensions	450 x 105 x 280 mm	505 x 105 x 210 mm
Neck Diameter	60 mm	60 mm
Net Weight	4.9 kgs (10.8 lbs)	5.0 kgs (11.0 lbs)



STANDARD ACCESSORIES

- Side handle
- Water feed assembly
- Percussion selector (Only for dry drilling)
- PRCD / GFCI interrupter

OPTIONAL ACCESSORIES

- Anti-vibration side handle
- SDS pilot drill socket



D “TOOLS FOR DRILLING MACHINES

WET+DRY DIAMOND CORE DRILL

Our all-new **54101485** and **54101486** are the first in our new premium line of diamond core drilling machines and bring a whole new level of seriousness to the jobsite. No detail was overlooked when we designed these to be the most dependable, heavy-duty and efficient machines possible. The all-new super-performance motors are more efficient than ever before. The motor housing, gear box and gear plate are all made from magnesium alloy for minimal weight and maximum strength. The all-metal construction allows for both improved cooling and increased durability.

The smart electronic motor control includes soft start, current and thermal overload as well as a very useful load indicator light. The tough construction also extends to the three speed oil bath gear box, with mechanical clutch and integrated water feed system. The 60mm mounting neck can also mount into a rig for even larger drilling jobs. The two-in-one spindle offers both 1-1/4" UNC and 1/2" BSP and has a built-in anti-seize ring. For electrical safety we include the PRCD / GFCI interrupter. If you're a professional and you need the best of the best, then look no further.

V Pistol-Handle Model (ITEM NO. 54101486)

Magnesium alloy construction for optimized cooling, durability and light weight



V D-Handle Model (ITEM NO. 54101485)

Magnesium alloy construction for optimized cooling, durability and light weight



ITEM NO.	54101486	54101485
Power Input	110-120V: 1700W (15A), 220-240V: 2000W (8.7A)	
Voltage	110-120V / 50-60Hz, 220-240V / 50-60Hz	
No Load Speed	930 / 1520 / 4270 rpm	
Rated Load Speed	560 / 910 / 2560 rpm	
Capacity	Hand-Held: 80 mm (3") Rig-Mounted: 160 mm (6-1/4")	
Spindle Thread External / Internal	1-1/4" UNC / 1/2" BSP	
Neck Diameter	60 mm	
Soft Start & Overload Protection	With	
Mechanical Safety Clutch	With	
Protection Class	Class I with PRCD / GFCI	
Dimensions	437 x 115 x 289 mm	528 x 106 x 145 mm
Net Weight	6.3 kgs (13.89 lbs)	



STANDARD ACCESSORIES

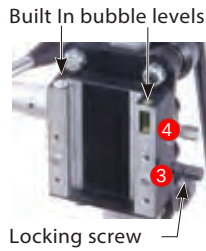
- Side handle
- Water supply kit
- M32 Combination wrench
- PRCD / GFCI interrupter

OPTIONAL ACCESSORIES

- Anti-vibration side handle
- SDS pilot drill socket



OPTIONAL RIGS FOR ITEM NO. 54101365



Built In bubble levels
Locking screw

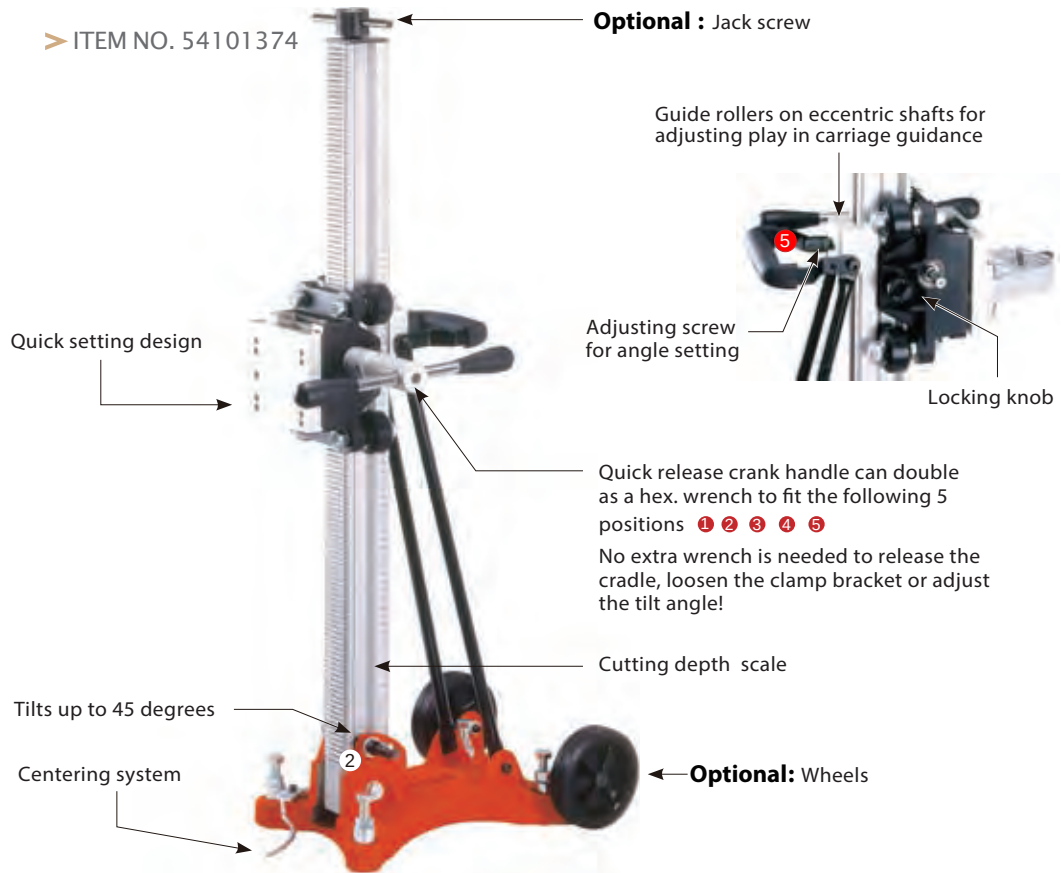


44 mm Clamp bracket



60 mm Clamp bracket

> ITEM NO. 54101374



Dimensions

36 x 24 x 96 cm

Choose either 44mm or 60mm Clamp Bracket when ordering

Application

All hand-held models

Neck Diameter

60 mm

44 mm

STANDARD ACCESSORIES

- Crank handle
- M19 combination wrench
- Mounting spacer (except 54101374-1)
- Quick-release clamp bracket (54101374-1 only)
- 54101374 only: 44 mm or 60 mm clamp bracket (Specify when ordering)

OPTIONAL ACCESSORIES

- Jack screw (except 54101374-1)
- 60 mm clamp bracket (except 54101374-1)
- Wheels (54101374 only)

EXTENSION SPACERS (OPTIONAL)



200 mm



150 mm



100 mm



45 mm



Anchoring Plate



60 mm clamp bracket for mounting hand-held drilling motors. Bolts directly to the standard mounting spacer (Fits all stand models except 54101374-1)

UNIT: mm

ITEM NO.	54101374-1	54101375	54101375-1	54101375-2	54101374
Capacity w/o Extension spacers	Ø170	Ø250	Ø350	Ø350	Ø250
Max. Capacity with Extension spacers	N/A	N/A	Ø500	Ø800	N/A
Effective Stroke	540	660	690	760	615
Dimensions (L x W x H)	330 x 200 x 815	390 x 248 x 970	425 x 245 x 1005	555 x 275 x 1035	360 x 240 x 960
Net Weight (Not Including crank handle)	8.8 kgs (19.4 lbs)	13.5 kgs (29.76 lbs)	18.0 kgs (39.68 lbs)	26.5 kgs (58.42 lbs)	13.5 kgs (29.76 lbs)

PS: 54101375-2 available with 2 m column (1790 mm stroke) or 2.5 m column (2290 mm stroke)

54101375-1 available with 1.6 m column (1390 mm stroke)



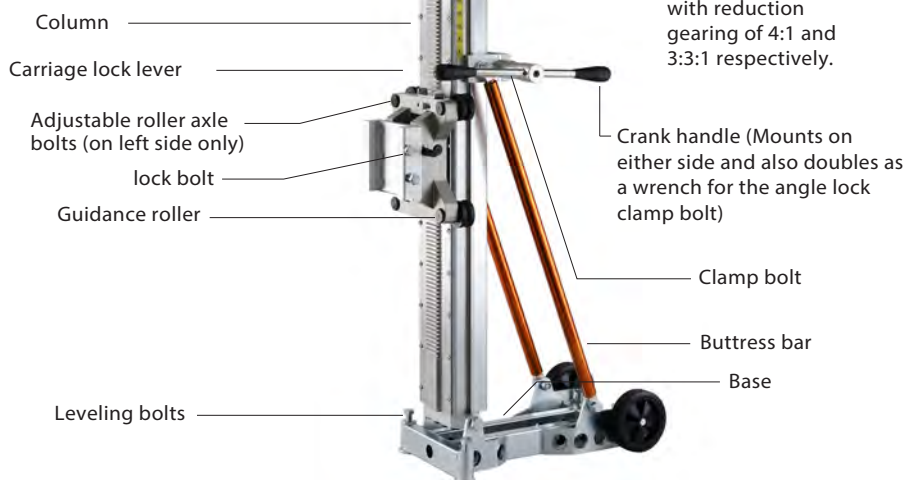
D “TOOLS FOR DRILLING MACHINES

DIAMOND CORE DRILL STANDS

Our premium line of drill stands were created to provide the capabilities required by high capacity operators who need a rig which can remain stable under the most extreme torque loads. The alloy mast with tilt capability and steel base give the most rigid structure possible with the roller carriage providing perfect guidance with zero play. For convenience, the crank handle doubles as a wrench for many of the fasteners and adjusters. The largest stand in the series is conservatively rated for 800mm (32") core bits. This is followed by the 500mm (20"), 250mm (10") and 170mm (6-1/2") versions. In addition to the standard 1:1 crank gearing, the 800mm and 500mm versions also include a second built-in crank spindle with reduction gearing of 4:1 and 3.3:1 respectively. This makes drilling in large sizes a lot easier on the operator. Optional extension spacers are available for larger diameter core bits to maintain clearance between the bit and the stand. Extension spacers in sizes 45, 100, 150 and 200mm are optionally available. These may also be stacked together as needed to achieve the required distance. In addition to the standard mounting spacer, the 250mm stand comes with a clamp bracket for mounting hand-held drilling motors. This part is available as an option for the other stands, as well. The 170mm stand is equipped with our unique quick-release cradle system. It has never been so quick and easy to mount and dismount the motor from the stand!

> ITEM NO. 54101375-2

54101375-2 standard with 1m column
Also available with 2m column (17
mm stroke) or 2.5 m column (229
stroke).



800 mm and 500 mm versions include a second crank spindle with reduction gearing of 4:1 and 3:3:1 respectively.



Mounting spacer standard for 54101375, 54101375-1 & 54101375-2

> ITEM NO. 54101374-1

Patented quick-release cradle makes it super-easy to mount and dismount the motor from the stand



> ITEM NO. 54101375

54101375 includes both 60 mm clamp bracket and standard mounting spacer



Jack screw (Optional)

> ITEM NO. 54101375-1

54101375-1 standard with 900 mm column. Also available with 1.6 m column (1390 mm stroke).



Jack screw (Optional)





VACUUM PUMP

This purpose-built vacuum pump is specifically designed for use with power tools which are anchored by a vacuum base, such as vacuum base diamond core drilling rigs and others.

Traditionally there is always a safety concern due to the possible loss of vacuum during power tool operation. This machine has two powerful safety mechanisms which address this. The first is the warning buzzer which signals whenever the vacuum is less than 0.77 bar. The second is the vacuum-dependant power supply socket. The power tool is plugged into this power supply socket on the vacuum pump. This socket is only energized when the vacuum has achieved the pre-set minimum of 0.77 bar. If for any reason the vacuum is leaking, the power tool will have its power shut off and the warning buzzer will alert the operator.

This pump is also ergonomically designed with perfect weight balance for easy carrying.



Vacuum Tank (Optional)



ITEM NO.	54101487
Power Input	200W
Voltage	110-120V / 50-60Hz, 220-240V / 50-60Hz
Air Flow	30.5 l / min (1.07 cfm)
Max. Vacuum	-0.9 bar (-13 psi)
Protection	IPX4
Dimensions	310 x 238 x 250 mm
Net Weight	6.7 kgs (14.77 lbs)



STANDARD ACCESSORIES

- Air hose 2.5M

OPTIONAL ACCESSORIES

- Vacuum tank (Includes air hose 1M)



D “ TOOLS FOR DRILLING MACHINES

TILE CORE DRILL MACHINE

Our **54101488** is an all-new solution for on-site drilling of tiles which have already been laid. Ideally designed to be used in conjunction with our 54101487 Vacuum Pump, The machine mounts directly to the floor for super fast and accurate drilling up to 100mm holes in even the hardest tiles like porcelain and granite. The vacuum base and stand offer excellent guidance for safe and perfectly aligned drilling. Purpose-built for wet drilling with sintered core bits, the TC100 is equipped with integrated water feed and PRCD / GFCI interrupter. A two speed gear box and adjustable height slide allow a wide range of diamond core bits to be used. A water collector ring with vacuum port is included to minimize mess. It also includes a built-in, spring-loaded centering pointer. Drilling tiles has never been easier.



ITEM NO.	54101488
Power Input	1100W
Voltage	100-120V / 50-60Hz, 220-240V / 50-60Hz
No Load Speed	1000 / 2000 rpm
Capacity	100 mm (4")
Max. Core Bit Length	145 mm
Effective Stroke	110 mm
Spindle Thread	1/2" BSP
Protection Class	Class I with PRCD / GFCI
Net Weight	10.6 kgs (23.37 lbs)

STANDARD ACCESSORIES

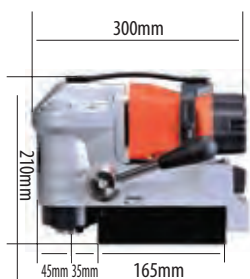
- T-Handle hex key M6
- L-Hex key M2.5
- M8 combination wrench
- M32 open-end wrench
- PRCD / GFCI interrupter
- Vacuum base seal (5 pcs)
- Water collector ring





LOW PROFILE MAGNETIC DRILLING MACHINE

Our incredible new low clearance mag drill can enter spaces impossible to reach with a conventional mag drill. Although the total height is only 198mm without the handle, conventional 35mm length cutters can be used. No need for special cutters.



Good balance for carrying

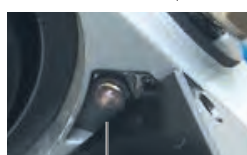


The quick adjustable tool-free lever can be mounted on either side.

Quick release arbor for fast cutter changes.

Annular cutter (Not included)

Pilot pin (Not included)



LED light for work in dark spaces

Motor switch



Magnet switch

ITEM NO.	54101489
Power Input	1100W
Voltage	110-120V / 50-60Hz, 220-240V / 50-60Hz
No / Full Load Speed	650 / 390 rpm
Max. Capacity Dia x Depth of Cut	35 x 35 mm
Weldon Shank	19.05 mm (3/4")
Magnetic Adhesion	15,000 N
Net Weight	10.5 kgs (23.15 lbs)

STANDARD ACCESSORIES

- Safety belt
- Chip guard kit

OPTIONAL ACCESSORIES

- Overload protection



D7 - DIAMOND CORE DRILLING MACHINES

TOOLS FOR DRILLING MACHINES

D “TOOLS FOR DRILLING MACHINES



AUTO-REVERSE TAPPING & CORE DRILL MACHINE



Variable speed



For forward and reverse of switch



Plastic carry case



Double insulation



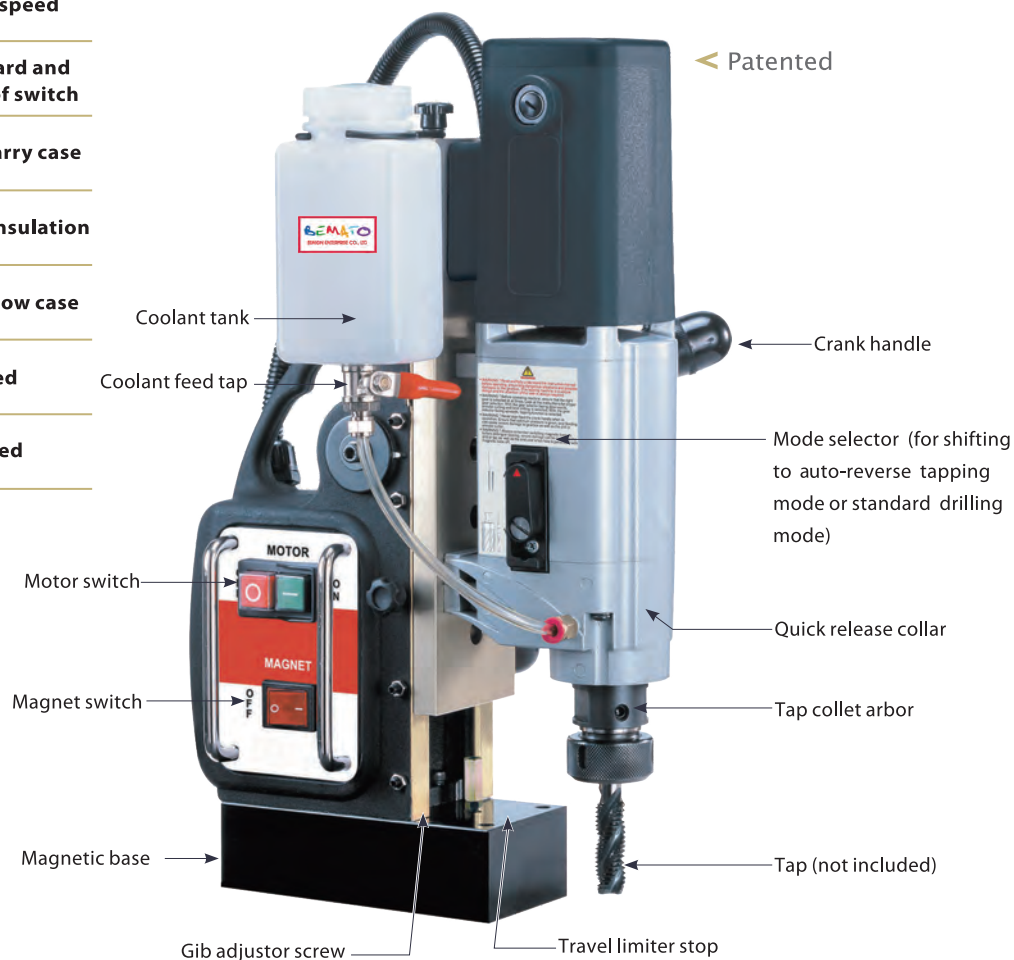
Plastic blow case



Two Speed



Four Speed



STANDARD ACCESSORIES:

- 5 tap collet arbors in sizes: M12, M14, M16, M18 & M20 (DIN376)
- Annular cutter arbor 3/4" (19 mm) weldon shank
- 2.5 mm L-hex key
- 4 mm hex key
- Coolant tank kit
- Safety chain

OPTIONAL ACCESSORIES:

- Other sizes of tap collet arbors
- Annular cutter



- Pilot pin



- Magnetic chip collector

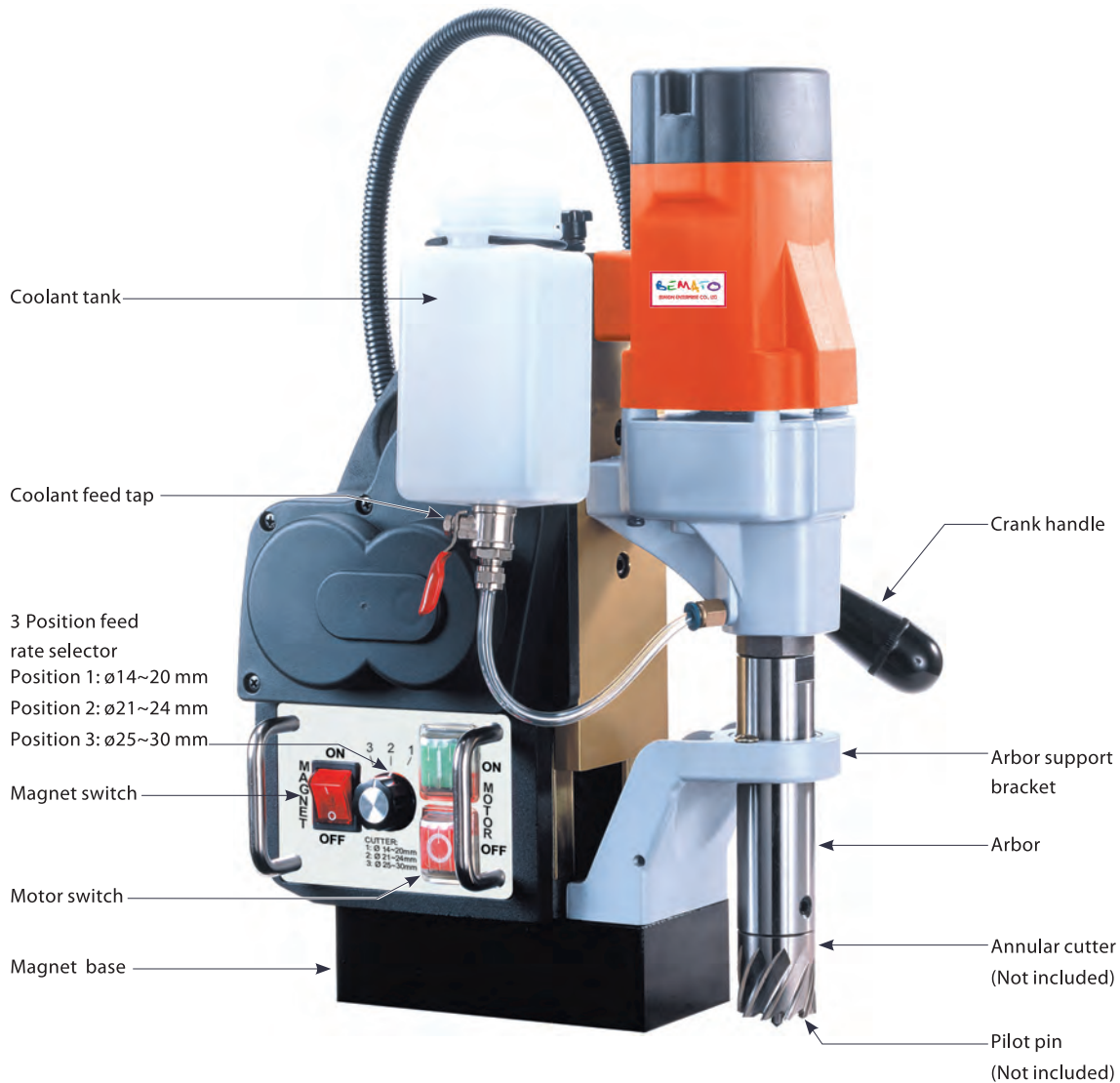


ITEM NO.	54101257
Power Input	1100W
Voltage	230V/50Hz, 110V/60Hz
Drilling Mode No / Full Load	550/330 rpm
Tapping Mode No / Full Load	150/90 rpm
Annular Cutter Arbor	Set screw type, 19 mm weldon shank
Annular Cutters	DIA 35 mm (1-3/8 in.)
Taps	20 mm (13/16 in.)
Twist Drills	13 mm (1/2 in.)
Total Stroke	150 mm (4 in.)
Magnetic Adhesion	15,000 N (3,372 lb-f)
Net Weight	13.7 kgs (30.8 lbs)





SEMI AUTO FEED MAGNETIC DRILLING MACHINE



ITEM NO.	54101258 (Semi Auto)
Power Input	1100W
Voltage	230V / 50Hz, 110V / 60Hz
No / Full Load Speed	620 / 350 rpm
Max. Capacity	Dia x Depth Of Cut (Head Feed)
	35 x 50 mm
	Dia x Depth Of Cut (Auto Feed)
	30 x 45 mm
Max. Capacity	Dia x Depth Of Twist Drill Bit (Head Feed Only)
	13 x 110 mm
	Dia x Depth Of Taps
	NA
Magnetic Adhesion	15,000 N
Net Weight	16.5 kgs (36.3 lbs)

STANDARD ACCESSORIES:

- Wrench M8
- Hex. Key M2.5
- Hex. Key M4
- Chip guard kit
- Coolant tank kit
- Safety chain

OPTIONAL ACCESSORIES:

- Annular cutter
- Pilot pin
- Magnetic chip collector



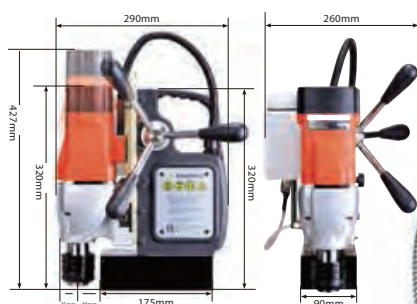
D8 - MAG. DRILLS

TOOLS FOR DRILLING MACHINES

D “TOOLS FOR DRILLING MACHINES

1 SPEED MAGNETIC DRILLING MACHINES

Available in either high or low speed versions, this is our workhorse model. It drills in the size range most commonly required and is rugged and reliable.



Coolant tank

Coolant feed tap

Motor switch

Magnet switch

Magnet base



The quick-adjustable variable height slide allows a variety of tools to be used. Lower for cutters, raise for twist drills.

Spindle

The quick-release arbor makes it quick and tool-free to change cutters and accessories.

Annular cutter (Not included)

Pilot pin (Not included)

OPTIONAL ACCESSORIES:



TWIST DRILLING

A revolution in time savings, the new special weldon shank drill chuck mounts directly into the quick release arbor. This means it now takes just seconds to convert from cutters to twist drills!



Quick release chuck adaptor and 13 mm chuck & chuck key



Annular cutter



Pilot pin



Magnetic chip collector

STANDARD ACCESSORIES

- Wrench M8
- Hex. key M2.5
- Hex. key M4
- T- wrench M6
- Coolant tank kit
- Safety chain
- Chip guard kit

OPTIONAL ACCESSORIES

- Overload protection

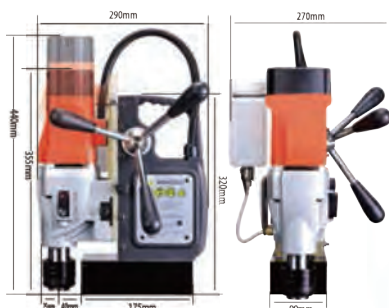


ITEM NO.	54101263 L	54101263 H
Power Input	1100W	
Voltage	110-120V / 50-60Hz, 220-240V / 50-60Hz	
No / Full Load Speed	450 / 270 rpm	730 / 440 rpm
Max Capacity	Dia x Depth Of Cut 35 x 50 mm (1-3/8" x 2")	
	Dia x Depth Twist Drill Bit 13 x 140 mm (1/2" x 5-1/2")	
Magnetic Adhesion	17,000 N	
Net Weight	16 kgs (30.86 lbs)	



2 SPEED MAGNETIC DRILLING MACHINES

Our two speed models give added versatility for maximum torque using a wide range of cutters



The 2-speed gear box allows a wide range of cutters to be used and delivers maximum torque

The quick-release arbor makes it quick and tool-free to change cutters and accessories

Annular cutter (Not included)

Pilot pin (Not included)



Motor switch

Magnet switch

Slide height lock
The quick-adjustable variable height slide allows a variety of tools to be used. Lower for cutters, raise for twist drills. (See 54101263 L)

Magnet base

Gib adjustor screw



TWIST DRILLING

A revolution in time savings, the new special weldon shank drill chuck mounts directly into the quick release arbor. This means it now takes just seconds to convert from cutters to twist drills!

OPTIONAL ACCESSORIES:



Quick release chuck adaptor and 13 mm chuck & chuck key



Annular cutter



Pilot pin



Magnetic chip collector

STANDARD ACCESSORIES

- Wrench M8
- Hex. key M2.5
- Hex. key M4
- T-Wrench M6
- Coolant tank kit
- Safety chain
- Chip guard kit
- Overload protection (54101491)

OPTIONAL ACCESSORIES

- Overload protection (54101490)



ITEM NO.		54101490	54101491
Power Input		1100W	
Voltage		110-120V / 50-60Hz, 220-240V / 50-60Hz	
No / Full Load Speed	Speed 1	450 / 270 rpm	300 / 180 rpm
	Speed 2	730 / 440 rpm	450 / 270 rpm
Max Capacity	Dia x Depth Of Cut	35 x 50 mm (1-3/8" x 2")	50 x 50 mm (2"x2")
	Dia x Depth Twist Drill Bit	13 x 140 mm (1/2" x 5-1/2")	
Magnetic Adhesion		17,000 N	
Net Weight		16 kgs (33.07 lbs)	



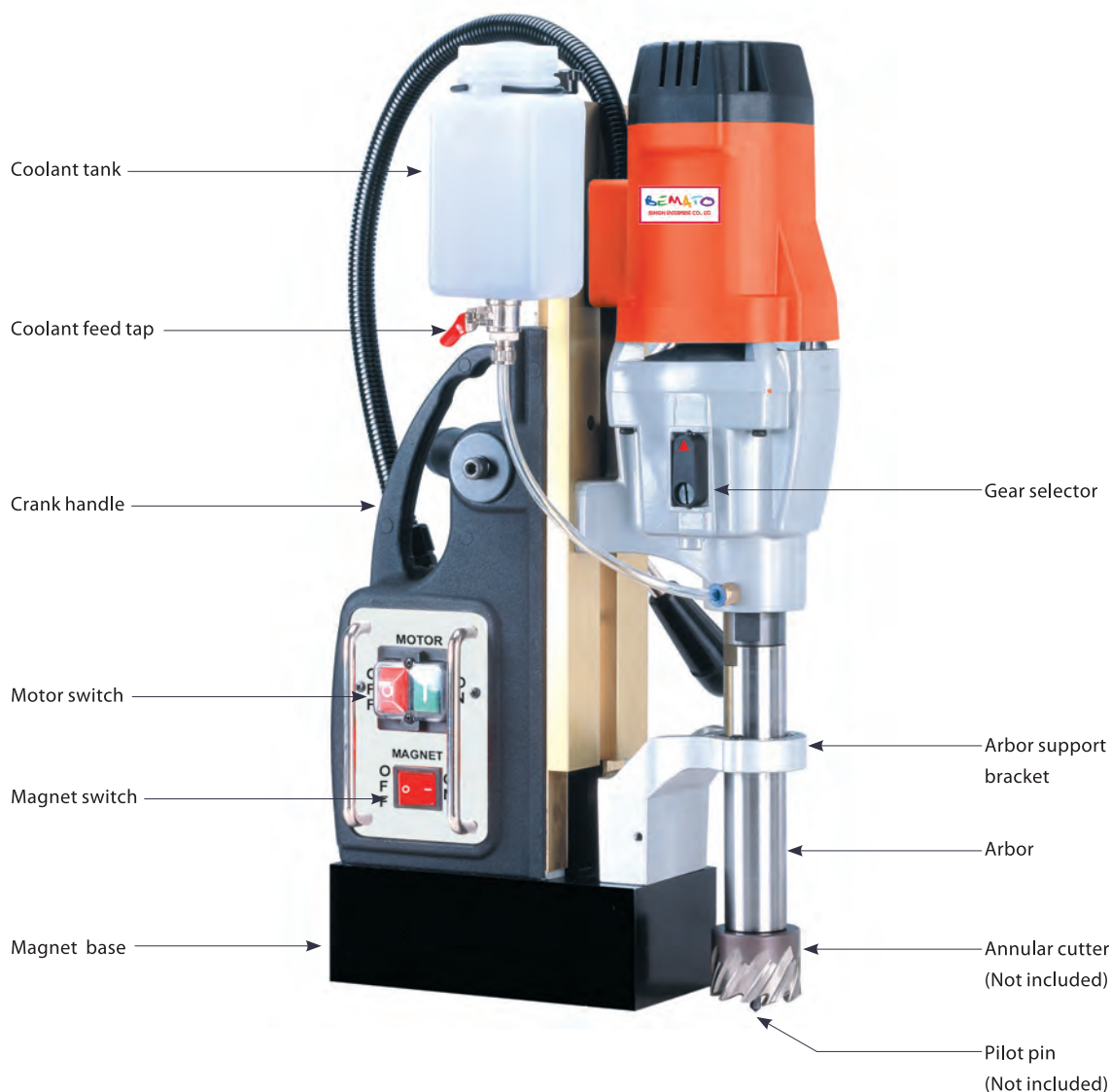
D8 - MAG. DRILLS

TOOLS FOR DRILLING MACHINES

D “TOOLS FOR DRILLING MACHINES



2 SPEED MAGNETIC DRILLING MACHINE



ITEM NO.		54101270 (2 Speed)
Power Input		1800W
Voltage		230V / 50Hz, 110V / 60Hz
No / Full Load Speed	Speed 1	380 / 230 rpm
	Speed 2	500 / 300 rpm
Max Capacity	Dia x Depth Of Cut	50 x 75 mm
	Dia x Depth Twist Drill Bit	16 x 110 mm
	Dia x Depth Of Taps	NA
Magnetic Adhesion		32,000 N
Net Weight		22.9 kgs (50.38 lbs)

STANDARD ACCESSORIES:

- Wrench M8
- Hex. key M2.5
- Hex. key M4
- Chip guard kit
- Coolant tank kit
- Safety chain

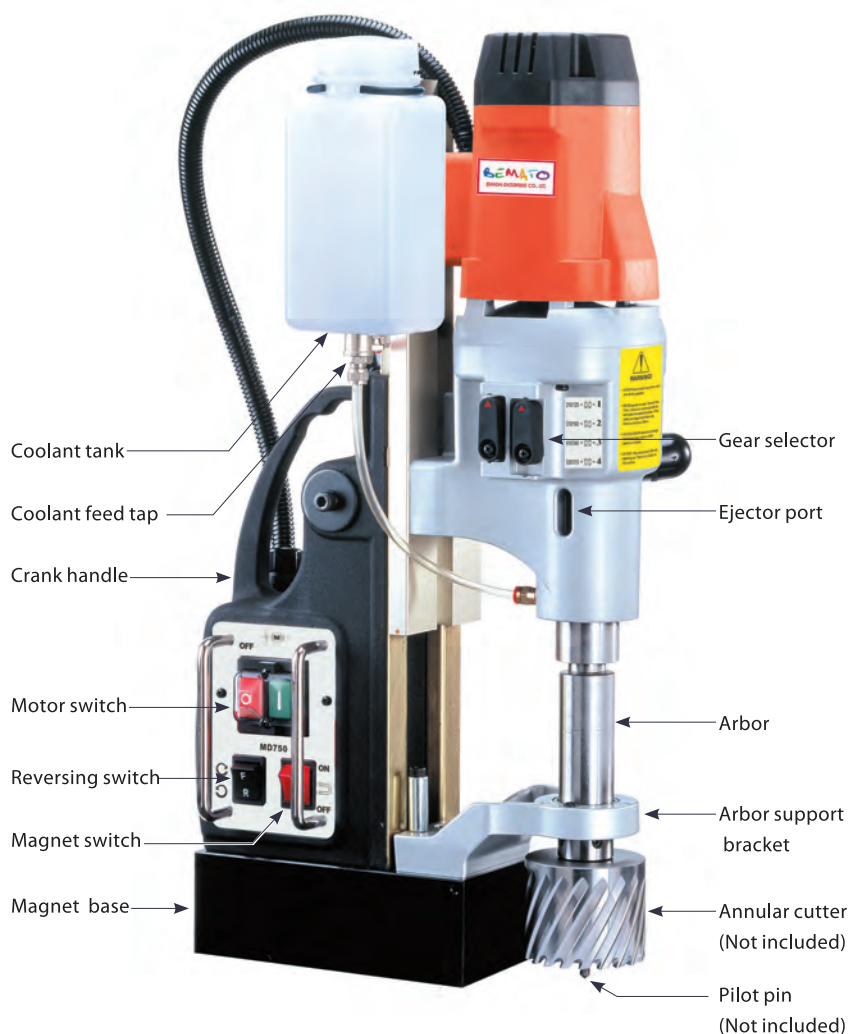
OPTIONAL ACCESSORY:

- Chuck adaptors
- 5/8" (16 mm) chuck & key
- 1/2" (13 mm) chuck & key
- Annular cutter
- Pilot pin
- Magnetic chip collector





4 SPEED MAGNETIC DRILLING MACHINE



V Tapping Mode



MT3 large range tapping chuck & clamp collet (Optional)



MT3 small range tapping chuck & clamp collet (Optional)

ITEM NO.	54101278 (4 Speed)
Power Input	1800W
Voltage	230V / 50Hz, 110V / 60Hz
No / Full Load Speed	Speed 1 150 / 90 rpm
	Speed 2 200 / 120 rpm
	Speed 3 300 / 180 rpm
	Speed 4 380 / 230 rpm
Max Capacity	Dia x Depth Of Cut (Hand Feed) 75 x 50 mm
	Dia x Depth Of MT3 Twist Drill Bit 32 x 150 mm
	Dia x Depth Of MT3 Chuck Adaptor With Twist Drill Bit 16 x 110 mm
	Dia x Depth Of Taps 25.4 x 40 mm
Magnetic Adhesion	32,000 N
Net Weight	24.8 kgs (54.56 lbs)

STANDARD ACCESSORIES:

- Wrench M8
- Hex. key M2.5
- Hex. key M4
- Chip guard kit
- Coolant tank kit
- Safety chain
- Drift

OPTIONAL ACCESSORY:

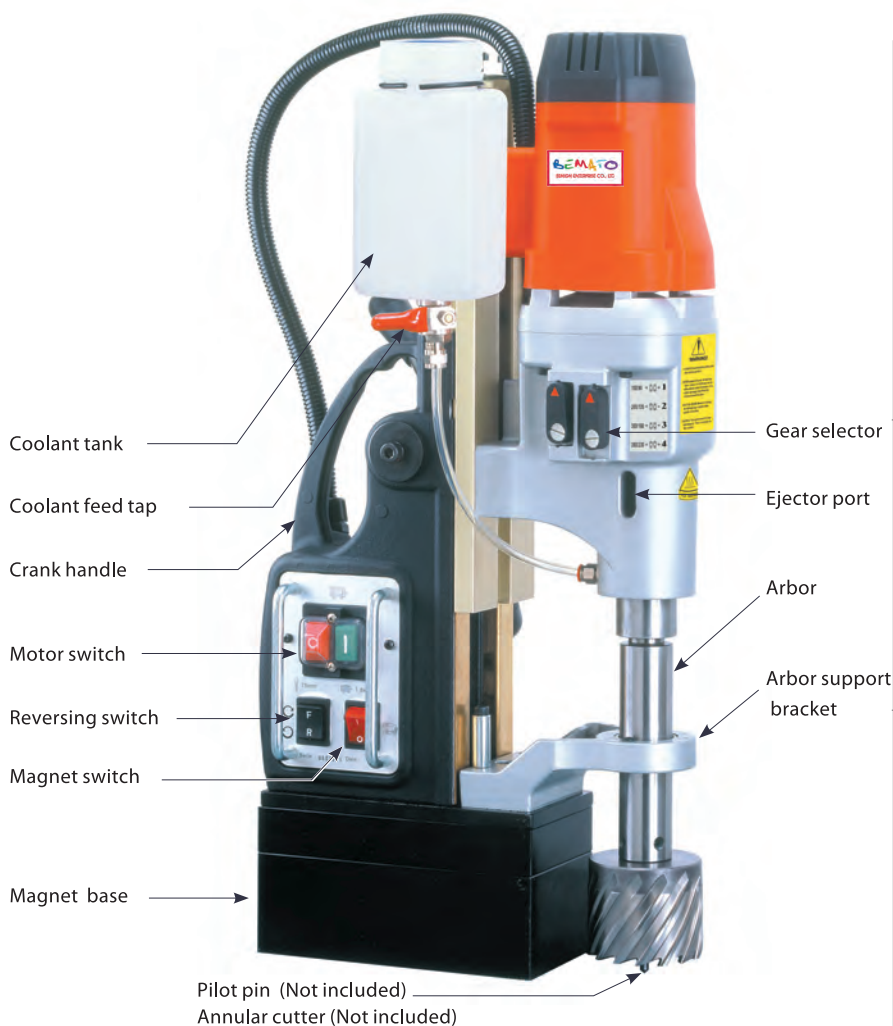
- MT3 chuck adaptor
- 5/8" (16mm) chuck & key
- MT3 tapping adaptor
- Tapping attachment
- Annular cutter
- Pilot pin
- Magnetic chip collector



D “TOOLS FOR DRILLING MACHINES



4 SPEED SWIVEL BASE MAGNETIC DRILLING MACHINE



V Tapping Mode



MT3 large range tapping chuck & clamp collet (Optional)



MT3 small range tapping chuck & clamp collet (Optional)

ITEM NO.		54101287 (4 Speed)
Power Input		1800W
Voltage		230V / 50Hz, 110V / 60Hz
No / Full Load Speed	Speed 1	150 / 90 rpm
	Speed 2	200 / 120 rpm
	Speed 3	300 / 180 rpm
	Speed 4	380 / 230 rpm
Max Capacity	Dia x Depth Of Cut (Hand Feed)	75 x 50 mm
	Dia x Depth Of MT3 Twist Drill Bit	32 x 150 mm
	Dia x Depth Of MT3 Chuck Adaptor With Twist Drill Bit	16 x 110 mm
	Dia x Depth Of Taps	25.4 x 40 mm
Magnetic Adhesion		32,000 N
Net Weight		27 kgs (59.4 lbs)

STANDARD ACCESSORIES:

- Wrench M8
- Hex. key M2.5
- Hex. key M4
- Chip guard kit
- Coolant tank kit
- Safety chain
- Drift
- Wrench M17

OPTIONAL ACCESSORY:

- MT3 chuck adaptor
- 5/8" (16 mm) chick & key
- MT3 tapping adaptor
- Tapping attachment
- Annular cutter
- Pilot pin
- Magnetic chip collector





4 SPEED MAGNETIC DRILLING MACHINE

This is our largest capacity machine yet. It's an amazingly powerful and versatile machine with the very important addition of stepless variable speed with speed stabilization. The feedback circuitry allows maximum power, even when the speed is reduced. Ideal for maximum size cutters. The smart electronics also feature soft start and overload protection. For safety there is an effective mechanical clutch.



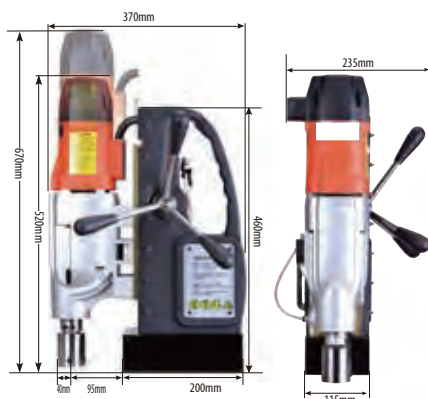
D8 - MAG. DRILLS

TOOLS FOR DRILLING MACHINES

Twist Drilling with Chuck



MT3 chuck adaptor and chuck (Not included)



Motor switch

Reversing switch

Magnet switch

Coolant tank

Stepless variable speed wheel

Super efficiency 2000W motor with smart electronic controls including soft start, overload and variable speed with speed stabilization.

Rugged four speed gear box with mechanical clutch

Gear selector

Ejector port

Through-the-spindle cutting fluid system

Special MT3 high-torque tang drive spindle (still mounts any MT3 accessory)

Twist Drilling



MT3 large range tapping chuck & clamp collet



MT3 small range tapping chuck & clamp collet



Quick release annular cutter arbor



Annular cutter



Pilot pin



Magnetic chip collector



MT3 twist drill bit (Not included)

OPTIONAL ACCESSORIES:

ITEM NO.

54101492

Power Input	110-120V: 1700W, 220-240V: 2000W
Voltage	110-120V/ 50-60Hz, 220-240V/ 50-60Hz
No / Load Speed	Speed 1 35-120 rpm Speed 2 70-220 rpm Speed 3 80-250 rpm Speed 4 140-450 rpm
Max Capacity	Dia x Depth of Cut with 31.7 mm (1-1/4") Weldon Shank Annular Cutter Arbor 120 x 50 mm Dia x Depth of Cut with 19.05 mm (3/4") Weldon Shank Annular Cutter Arbor 120 x 50 mm Dia x Depth of Cut with Quick-Release Arbor 60 x 50 mm Dia x Depth of MT3 Twist Drill Bit 32 x 200 mm Dia x Depth of MT3 Chuck Adaptor with Twist Drill bit 16 x 120 mm Dia x Depth of Taps 32 x 40 mm
Overload Protection	With
Magnetic Adhesion	32,000 N
Net Weight	29.4 kgs (64.82 lbs)

STANDARD ACCESSORIES

- Wrench M8
- Hex key M2.5 & M5
- Chip guard kit
- Coolant tank kit
- Safety chain
- Drift
- 31.75 Annular cutter cet screw Arbor
- 19.05 Annular cutter cet screw arbor

OPTIONAL ACCESSORIES

- MT3 chuck adaptor
- 5/8" (16 mm) chuck & chuck key
- MT3 tapping adaptors
- Tapping attachments
- Quick-release arbor

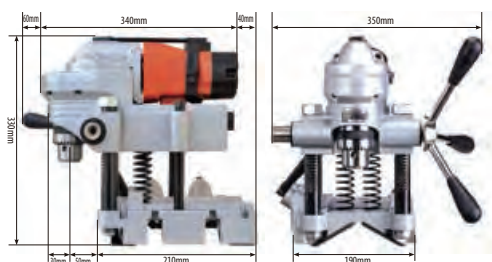


D “TOOLS FOR DRILLING MACHINES



HOLE CUTTING DRILL

Our hole cutting drill has been designed to quickly drill up to 127mm holes in pipes from 1-1/4" to 8-1/4" diameter. Built-in bubble levels for multiple hole alignment. Tool free quick-release handle can be mounted on either side.



Good balance for Carrying

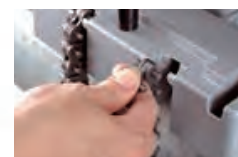


On/off Switch



The quick adjustable tool-free lever can be mounted on either side.

Hole cutter (Not included.)



Chain vise clamping system quickly mounts machine onto 1-1/4" to 8-1/4" diameter pipe (32mm-203mm)



Built-in bubble levels for multiple hole alignment

ITEM NO.	54101493
Power Input	1100W
Voltage	110-120V / 50-60Hz, 220-240V / 50-60Hz
No Load Speed	130 rpm
Max Cutting Capacity (Hole Cutter)	127 mm
Pipe Mounting Capacity	32~203 mm (600 mm w/ optional long chain set)
Drill Chuck Capacity	1~16 mm
Over Load Protection	With
Overall Dimensions	319 x 270 x 302 mm
Net Weight	14.5 kgs (31.9 lbs) Not including crank handle

STANDARD ACCESSORIES

- 16 mm(5/8") Chuck & chuck key
- Crank handle set

OPTIONAL ACCESSORIES

- Long chain set (for pipes up to 600 mm diameter)





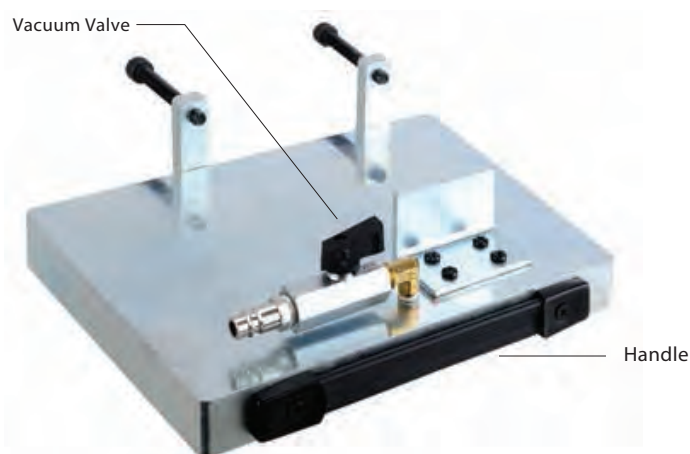
VACUUM BASE ADAPTER

The vacuum base adapter allows any mag drill to drill up to 55 mm holes on surfaces where the magnet's adhesion would not work or would be problematic such as:

- Non-magnetic surfaces such as aluminum, brass, stainless steel, fiberglass, etc.
- Thin steel or even sheet metal where the magnetic force would be insufficient.
- Patterned surfaces with irregularities less than 3mm deep such as diamond plate.

The mag drill attaches magnetically to the vacuum adapter plate and the adapter adheres to the work surface by vacuum force. A vacuum pump must be used which can achieve a minimum of 0.8 bar (26inHg) vacuum and flow of 30 L/min (1 cfm) such as our 54101487 vacuum pump.

Drilling with cutters larger than 55 mm is not recommended with this device.



Vacuum base seal

ITEM NO.	54101494
Minimum Required Vacuum	0.8 bar (26 inHg)
Minimum Required Flow Rate	30 L/min (1 cfm)
Maximum Annular Cutter	55 mm
Dimensions	234 x 209 x 81 mm
Net Weight	5.4 kgs (11.9 lbs)

PIPE VISE (for use with 54101287)

For pipe diameters 32 ~ 203 mm (1-1/4" - 8-1/4")

Part Number 0299-0062-00000-001

PIPE VISE (for use with 54101278)

For pipe diameters 32 ~ 203 mm (1-1/4" - 8-1/4")

Part Number 0299-0062-00000-002



(For vacuum pump, see P-D60)



D8 - MAG. DRILLS

TOOLS FOR DRILLING MACHINES

D “TOOLS FOR DRILLING MACHINES



MAGNETIC DRILLING MACHINES OPTIONAL ACCESSORY SPECIFICATIONS

▼ ITEM NO. 54101278, 54101287, 54101492 TAPPING ATTACHMENTS

◀ MT3 SMALL RANGE TAPPING CHUCK &
SMALL RANGE CLAMP COLLETS (FOR USE WITH ITEM NO. 54101296)



ITEM NO.	DESCRIPTION
54101296	MT3 Small range tapping chuck (For clamp collects 3~15 mm)

▼ Clamp Collets

ITEM NO.	FOR TAP SIZES
54101297	M3, #5, #6
54101298	M4, M4.5, #8
54101299	M5, M5.5, #10
54101300	M6, UNC 1/4
54101301	UNC 5/16
54101302	M7, M8
54101303	M9, M10, UNC 3/8
54101304	M11, UNC 7/16
54101305	M12
54101306	UNC 1/2
54101307	M14, M15, UNC 9/16

◀ MT3 LARGE RANGE TAPPING CHUCK &
LARGE RANGE CLAMP COLLETS (FOR USE WITH NO. 54101308)



ITEM NO.	DESCRIPTION
54101308	MT3 Large range tapping chuck (For clamp collets 7~25 mm)

▼ Clamp Collets

ITEM NO.	FOR TAP SIZES
54101309	M7, M8
54101310	M9, M10, UNC 3/8
54101311	M11, UNC 7/16
54101312	M12
54101313	UNC 1/2
54101314	M14, M15, UNC 9/16
54101315	UNC 5/8
54101316	M16
54101317	M18, UNC 3/4
54101318	M20
54101319	UNC 7/8
54101320	M24, M25

◀ DRILL CHUCKS



ITEM NO.	DESCRIPTION	MOUNT	CLAMPING CAPACITY	APPLICATION
54101321	5/8" chuck (w/ key)	5/8"-16	1~16 mm	ITEM NO. 54101270, 54101278, 54101287, 54101337, 54101492
54101322	1/2" chuck (w/ key)	1/2"-20	1~13 mm	ITEM NO. 54101258, 54101263, 54101270, 54101278, 54101287, 54101338

◀ REPLACEMENT CHUCK KEYS



ITEM NO.	MOUNT
54101323	5/8" chuck key
54101324	1/2" chuck key



MAGNETIC DRILLING MACHINES OPTIONAL ACCESSORY SPECIFICATIONS



D8 - MAG. DRILLS

TOOLS FOR DRILLING MACHINES

< CHUCK ADAPTORS

(to allow mounting of a chuck for twist drilling)



ITEM NO.	54101258, 54101263	MOUNT
54101325	Chuck adaptor for 1/2" chucks (1/2"-20UNF)	M27-3.0

ITEM NO.	54101270 (2 Speed)	MOUNT
54101326	Chuck adaptor for 5/8" chucks (5/8"-16UNF)	M27-3.0
54101327	Chuck adaptor for 1/2" chucks (1/2"-20UNF)	M27-3.0

ITEM NO.	54101278, 54101287, 54101492 (4 Speed)	MOUNT
54101328	Chuck adaptor for 5/8" chucks	MT3 / 5/8"-16
54101329	Chuck adaptor for 1/2" chucks	MT3 / 1/2"-20
54101330	Chuck adaptor for B16 taper mount chucks	MT3 / B16

< PILOT PINS

UNIT: mm

NUMBER	DESCRIPTION	MOUNT
54101331	Pilot Pin for 12-17 mm TCT 35L cutters	TCT x 90L x ø6.34
54101331-1	Pilot Pin for 18-60 mm TCT 35L cutters	TCT x 90L x ø7.98
54101332	Pilot Pin for 12-17 mm TCT 50L cutters	TCT x 106L x ø6.34
54101332-1	Pilot Pin for 18-60 mm TCT 50L cutters	TCT x 108L x ø7.98
54101334	Pilot Pin for 12-100 mm HSS 30L cutters	TCT x 77L x ø6.34
54101333	Pilot Pin for 12-100 mm HSS 50L cutters	TCT x 103L x ø6.34

< MAGNETIC CHIP COLLECTOR

(Push in the plunger to activate magnetic force to collect chips, pull back the plunger to release the chips.)

ITEM NO.	DIMENSIONS
54101335	400 x 25 mm

< CUTTER SET IN CASE (BLACK)

Includes: pilot pin, and 30L cutters in sizes 12, 14, 16, 18, 20 & 22 mm.

< ITEM NO. 54101336

D “ TOOLS FOR DRILLING MACHINES



ELECTRIC MIXER / DRILL



▲ ITEM NO. 54101337



▲ Use hex shank paddles with the chuck or M14 shank paddle with the M14 adaptor (Paddle not included)



▲ ITEM NO. 54101338



▲ Use hex shank paddles with the chuck or M14 shank paddles with the M14 adaptor (Paddle not included)



ITEM NO.	54101337	54101338
Power Input	1100W	1100W
Voltage	230V / 50Hz, 110V / 60Hz	230V / 50Hz, 110V / 60Hz
No / Load Speed	750 rpm	800 rpm
N-M	12.5	12.6
Gear	1speed	1speed
Spindle Thread	1/2"-20 UNF	1/2"-20 UNF
Max. Mixing Paddle Diameter	120 mm (4-11/16")	120 mm (4-11/16")
Drilling Capacity	Steel 13 mm (1/2in.) Wood 35 mm (1-3/8in.)	Steel 13 mm (1/2in.) Wood 35 mm (1-3/8in.)
On / Off Switch	Single speed	Single speed
Net Weight	3.1 kgs (8 lbs)	3.3 kgs (8.3 lbs)

STANDARD ACCESSORIES:

- M14 adaptor
- 13 mm chuck & key

OPTIONAL ACCESSORY:

- Mixing paddles
- Variable speed switch (ITEM NO. 54101338)



PORTABLE ELECTROMAGNETIC DRILL & TAPPING MACHINES -FOR INDUSTRIAL USE



▲ ITEM NO. 54101495



▲ ITEM NO. 54101496

- The revolving speed is changeable when the machine is being operated. The gears are absolutely safe.
- The total maximum height is 570 mm. Design of motor and gear box makes the point gravity center become only 280 mm. As the center of gravity is quite low and hard to be fallen, the magnetic foundation can attain its function and efficiency.
- The distributor disc is located on the top of machine which prevent it from being fallen or destroyed.
- **54101495** with six-step speed variable (max. revolving speed: 756 min revolving speed: 51) depends on the hardness of processed objects and size of hole which makes the operator more comfortable to select the revolving speed.

UNIT: mm

ITEM NO.	54101495	54101496
Drill Capacity	1/4"~1-1/4" Ø6 ~32	5/8"~1-1/2" Ø16 ~38
Tapping Capacity	3/8"~1-1/8" Ø10 ~30	5/8"~1-1/2" Ø16 ~38
Power	230V 3-Phase	230V 3-Phase
HP	2	2-1/2
Speed	756 / 456 / 303 / 186 / 127 / 51 rpm	686 / 404 / 268 / 165 / 165 / 97 / 65 / 38 rpm
Feeding Stroke	100	130
Body Stroke	150	200
Transversal Move	20	20
Turning Degree	330°	330°
Magnetic	135 x 280	155 x 280
Magnetic Force	2500 kgf	3000 kgf
Height	580	730
Torsion Fixture Standard Fitting	7	8
Drill Sleeve Standard Fitting	3	3
Fittings Weight	7 kgs	16 kgs
Machine Weight	70 kgs	100 kgs



D8 - MAG. DRILLS

TOOLS FOR DRILLING MACHINES

D “TOOLS FOR DRILLING MACHINES



PORTABLE ELECTROMAGNETIC AUTOMATIC DRILL & TAPPING MACHINES-FOR INDUSTRIAL USE



▲ ITEM NO. 54101497 (AUTO)



▲ ITEM NO. 54101498



▲ ITEM NO. 54101499

- With circuit protection of breaking for motor, once any wire of three phases power source is broken off, this unit could cut off current to motor to prevent motor from being burn out.
- Drill sleeves, tapping adaptors and borer holder are all with rapid adaptors, very convenient for replacement of cutters.
- Tapping adaptors with torsion control, tap bits are protected from being twisted off.

54101499 comes with drilling force control unit for auto-feeding:

When drill bit is worn out, this unit will drive feeding intermittently or stop feeding. Once feeding becomes difficult while making a hole, please replace a new drill bit or re-sharpen the worn out one in order to protect both drilling tool and machine body from being damaged.

UNIT: mm

ITEM NO.	54101497 (AUTO)	54101498	54101499
Drill Capacity	1/8"~3/4" ø3~20	1/8"~1" ø3~25	1/8"~1" ø3~25
Tapping Capacity	3/16"~5/8" ø5~16	3/8"~7/8" ø10~22	3/8"~7/8" ø10~22
Power	230V 3-Phase	230V 3-Phase	230V 3-Phase
HP	1	1-1/4	1-1/4
Speed	705 / 405 / 100 / 58 rpm	705 / 405 / 100 / 58 rpm	705 / 405 / 100 / 58 rpm
Feeding Stroke	100	100	100
Body Stroke	100	100	100
Transversal Move	15	15	15
Turning Degree	180°	180°	180°
Magnet size	190 x 85	200 x 112	200 x 112
Magnetic Force	900 kgf	1500 kgf	1500 kgf
Height	450	480	500
Torsion Fixture Standard Fitting	5	6	6
Drill Sleeve Standard Fitting	2	3	3
Fittings Weight	3	8	8
Machine Weight	28 kgs	35 kgs	41 kgs

* 3-Phase 380V, 415V, and 440V, are available for requirements of customers.

UNIT: mm

OPTIONAL SPARE PARTS:



BOROCH HOLDER			
BORER HOLE	TO SUITED MODEL	HOLE CAPACITY	WEIGHT
19	54101497	14-25	1 kg
19	54101498	14-30	1 kg
19	54101499	14-30	1 kg
19	54101495	14-50	1.3 kgs
19	54101500	14-50	1.3 kgs
19	54101496	71-110	2.2 kgs
31.8	54101495	71-110	1.7 kgs
31.8	54101496	71-110	1.9 kgs
31.8	54101500	71-110	1.7 kgs



MODEL	WEIGHT
DT-90	0.5 kg



PORTABLE ELECTROMAGNETIC AUTOMATIC DRILL & TAPPING MACHINES-FOR INDUSTRIAL USE



ITEM NO. 54101500

- With circuit protection of breaking for motor, once any wire of three phases power source is broken off, this unit could cut off current to motor to prevent motor from being burn out.
- Drill sleeves, tapping adaptors and borer holder are all with rapid adaptors, very convenient for replacement of cutters.
- Tapping adaptors with torsion control, tap bits are protected from being twisted off.
- **54101500** comes with drilling force control unit for auto-feeding: When drill bit is worn out, this unit will drive feeding intermittently or stop feeding. Once feeding becomes difficult while making a hole, please replace a new drill bit or re-sharpen the worn out one in order to protect both drilling tool and machine body from being damaged.
- **54101500** comes with three intermittent breaking rates for breaking chips: Choose different feeding rates according to different drill bits and material to perform auto-Feeding operation. This device can break chips intermittently and discharge them while auto-feeding is processing, so that chips would not roll on drill bit, easier to discharge chips.
- **54101500** comes with three feeding rates for auto-feeding: Feeding rates are separately 0, 0.15 and 0.25. Please choose suitable rate according to size of drill bit and material of work-piece for drilling.

UNIT: mm

ITEM NO.	54101500 (AUTO)
Drill Capacity	1/4"~1-1/4" Ø6~32
Tapping Capacity	3/8"~1-1/8" Ø10~30
Power	230V 3-Phase
HP	2
Speed	756 / 456 / 303 / 186 / 127 / 51 rpm
Feeding Stroke	100
Body Stroke	150
Transversal Move	20
Turning Degree	330°
Magnet size	135 x 280
Magnetic Force	2500 kgf
Height	620
Torsion Fixture Standard Fitting	7
Drill Sleeve Standard Fitting	3
Fittings Weight	7 kgs
Machine Weight	80 kgs

D “ TOOLS FOR DRILLING MACHINES



PORTABLE ELECTROMAGNETIC/AUTOMATIC DRILL & TAPPING/CUTTING MACHINES-FOR INDUSTRIAL USE

✓ ITEM NO. 54101501 (D&T)



✓ ITEM NO. 54101503 (D&C)



✓ ITEM NO. 54101502 (D&T)



✓ ITEM NO. 54101504 (D&C)



✓ ITEM NO. 54101508 (D&C-AUTO)



✓ ITEM NO. 54101505 (C-AUTO)



✓ ITEM NO. 54101506 (C)



- **Device of cutting force control:**

While cutting on high hardness or problem material of steel, or deep hole drilling results in difficult scrap discharging, cutter would probably be damaged. In such cases, this device would temporarily stop feeding until resistance is reduced or scrap is gradually discharged, cutter could regain feeding again till this hole is perforated. This device could protect cutter from being broken or damaged in such cases.

- **Protective function of device of cutting force control:**

After perforating, even auto-feeding motion is lasting to the end of stroke (operator forgets to lock fixing bolt), under the function of this device both gang gear tube and machine body won't be damaged.

- **Auto step-feeding device:**

While using 54101505 for perforating, this device could discharge scrap step by step automatically.

- **Rapid adaptor design:**

Drill sleeves, borer holder and taper set are all rapid adaptor design, convenient for replacement of cutters and increasing efficiency.

- **Coolant tank:**

It is integrated with machine body, more stable. This could reduce damage resulting from out going impact.

Most suitable for drilling or tapping on heavy workpieces that is difficult to be moved, such as production of machine tools, steel skeleton of building, H type steel, big steel plate and steam furnace..etc.



PORTABLE ELECTROMAGNETIC/AUTOMATIC DRILL & TAPPING/CUTTING MACHINES-FOR INDUSTRIAL USE

UNIT: mm

ITEM NO.	54101501 (D&T)	54101502 (D&T)	54101503 (D&C)	54101504 (D&C)
Power (AC)	110V, 220V	110V, 220V	110V, 220V	110V, 220V
Potor Rated Output	1350W, 1350W	1350W, 1350W	1350W, 1350W	1350W, 1350W
Potor Rated Ampere	12A, 6.5A	12A, 6.5A	12A, 6.5A	12A, 6.5A
Speed	380 / 730 rpm	380 / 730 rpm	380 / 730 rpm	380 / 730 rpm
Drill Capacity	1/8"~7/8", ø3~22	1/8"~1-1/8", ø3~30	1/8"~7/8", ø3~22	1/8"~1-1/8", ø3~30
Feeding Stroke	100	100	100	100
Hole Capacity	-	-	5/8"~1-9/16", ø16~40	5/8"~2", ø16~52
Tapping Capacity	5/16"~1/2", ø8~14	3/8"~3/4", ø10~20	-	-
Body Stroke	100	100	100	100
Turning Degree	180°	180°	180°	180°
Transversal Move	15	15	15	15
Magnet size	180 x 105 x 70	200 x 112 x 78	180 x 105 x 70	200 x 112 x 78
Magnetic Force	900 kgf	1500 kgf	900 kgf	1500 kgf
Height	470	480	470	480
Machine Weight	28 kgs	32 kgs	28 kgs	32 kgs

UNIT: mm

ITEM NO.	54101508 (D&T-AUTO)	54101505 (C-AUTO)	54101506 (C)
Power (AC)	110V, 220V	110V, 220V	110V, 220V
Potor Rated Output	1350W, 1350W	1350W, 1350W	1350W, 1350W
Potor Rated Ampere	12A, 6.5A	12A, 6.5A	12A, 6.5A
Speed	380 / 730 rpm	380 / 730 rpm	380 / 730 rpm
Drill Capacity	1/8"~1-1/8", ø3~30	-	-
Feeding Stroke	100	82	82
Hole Capacity	5/8"~2", ø16~52	5/8"~2", ø16~52	5/8"~2", ø16~52
Tapping Capacity	-	-	-
Body Stroke	100	-	-
Turning Degree	180°	-	-
Transversal Move	15	-	-
Magnet size	200 x 112 x 78	200 x 112 x 78	200 x 112 x 78
Magnetic Force	1500 kgf	1500 kgf	1500 kgf
Height	500	490	480
Machine Weight	36 kgs	32 kgs	27 kgs

