

FREQUENCY CONVERSION RADIAL DRILLING MACHINE

Feature

- Frequency conversion transducer spindle stepless digital readout for the display of speed;
- Strength spindle, with limiting protection for limiting position;
- Electrical box and coolant button is on the right of spindle box;
- Hydraulic pressure clamp; interlock of rocker arm clamping and up down movement; clamping of spindle and spindle box could be simultaneous or separated;
- Trochoid thin oil lubrication;
- With safety protection device;
- At the bottom of lead screw and guide surface can add protection device;
- Importable electrical components with CE, CSA, UL standard;
- Electric box control by PIC;
- Length worktable, supply inclined worktable and quick change collet as optional accessories.

Optional Accessories

Rotation worktable

Quick change collet

Electric control assembly

Electric valve for hydraulic system



Specifications

Model	ZB3070×20	ZB3080×25
Max. drilling diameter (on Medium-carbon steel)	70 mm	Ø80 mm
Max. drilling diameter(on cast iron)	90 mm	Ø105 mm
Max. tapping diameter (on Medium-carbon steel)	M48 mm	M52 mm
Max. tapping diameter (on cast iron)	M56 mm	M60 mm
Max.Distance from spindle to generating line of column	440~2000 mm	450-2550 mm
Distance of horizontal movement for spindle box (manual)	1560 mm	2100 mm
Max.distance between spindle end to the worktable surface of the base	580~1800	400-1620 mm
Max. travel of the spindle	350	400 mm
spindle taper bore	MT.5	MT.6
Spindle speed steps	Stepless	Stepless
Spindle speed range	30~192; 220~1400 r/min	30~220; 192~1400 r/min
Spindle feed steps	8	8
Spindle feed range	0.06~1.35 mm/r	0.06, 0.09, 0.15, 0.23, 0.36, 0.60, 0.90, 1.38 mm/r
Speed of rocker arm up and down movement	1.0 m/min	1m/min
Rotation angle of rocker arm.	±180°	±180
Distance of spindle movement for calibrated dial each revolution	132 mm	151 mm
Power of main motor (transducer motor)	7.5 kw	7.5 kw
Power of motor for rocker arm up and down movement	2.2 kw	2.2 kw
Power of oil pump motor for spindle box, column and rocker arm clamping	1.1 kw	1.1 kw
Weight of machine (without worktable)	6000 kg	7400 kg
Machine dimension (L x W x H)	3055×1200×3325 mm	3590×1250×3530 mm

RADIAL DRILLING AND MILLING MACHINE



■ Rotative worktable



■ Collet and handle of milling cutter



■ Cross worktable



Specifications

Model	ZB3050x14	ZB3060x16
Max. drilling diameter (No.45 steel)	50 mm	62 mm
Max. drilling diameter (HT200 cast iron)	60 mm	72 mm
Max tapping diameter(No.45 steel)	M40 mm	M46 mm
Max tapping diameter(HT200 cast iron)	M46 mm	M52 mm
Distance between column center line to the spindle center line	350~1400 mm	350~1600 mm
Travel distance of the spindle box in horizontal (by manual)	1050 mm	1250 mm
Distance between spindle end face to the machine bottom table	350~1250 mm	350~1250 mm
Max. spindle travel	280 mm	315 mm
Dimension of column	320 mm	350 mm
Spindle taper	MT5	MT5
Steps of spindle speed	step-less	step-less
Spindle speed range	38~275;275~2000 r/min	38~275;275~2000 r/min
Steps of spindle feed	6	8
Range of the spindle feed rate	0.06~0.85 mm/r	0.06~1.00 mm/r
Speed of the arm up and down	1.2 m/min	1.2 m/min
Arm moving angle	±180	±180
Spindle moving distance of each dial revolution	122 mm	122 mm
Main motor power (Frequency conversion motor)	3.0 kw	4.0 kw
Power for the arm up and down motor	1.1 kw	1.5 kw
Power of clamping oil pump for spindle box, column and arm	0.75 kw	0.75 kw
Machine weight (without table)	3200 kg	3800 kg
Machine dimension (L x W x H)	2195x970x2480 mm	2490x1050x2600 mm

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Optional Accessories

Rotation worktable

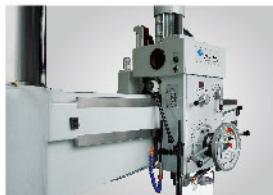
Quick change collet

Electric control assembly

Electric valve for hydraulic system



■ Collet and handle of milling cutter



■ Clamping handle for spindle box, arm and column



Specifications

Model	ZB3040x13	ZB3060AX16
Max. drilling diameter (No.45 steel)	40 mm	62 mm
Max. drilling diameter (HT200 cast iron)	52 mm	72 mm
Max tapping diameter(No.45 steel)	M32 mm	M46 mm
Max tapping diameter(HT200 cast iron)	M40 mm	M52 mm
Distance between column center line to the spindle center line	300~1300 mm	350~1600 mm
Travel distance of the spindle box in horizontal (by manual)	1000 mm	1250 mm
Distance between spindle end face to the machine bottom table	300~1200 mm	350~1250 mm
Max. spindle travel	260 mm	315 mm
Dimension of column	280 mm	350 mm
Spindle taper	MT.4	MT.5
Steps of spindle speed	step-less	step-less
Spindle speed range	54 ~ 340~2150 r/min	38 ~ 275;275~2000 r/min
Steps of spindle feed	4	8
Range of the spindle feed rate	0.10~0.63 mm/r	0.06~1.00 mm/r
Speed of the arm up and down	1.2 m/min	1.2 m/min
Arm moving angle	±180	±180
Spindle moving distance of each dial revolution	122 mm	122 mm
Main motor power (Frequency conversion motor)	2.2 kw	4.0 kw
Power for the arm up and down motor	1.1 kw	1.5 kw
Power of clamping oil pump for spindle box, column and arm	2~0.37 kw	0.75 kw
Machine weight (without table)	2300 kg	3800 kg
Machine dimension (L x W x H)	2070x850x2430mm	2490x1050x2600 mm