



# Z SERIES

The explanation, diagram and technical parameter are varying with continuous technology development without further notice. (20130905-FT13-0143)



# Z

## Z SERIES RADIAL DRILLING MACHINE



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# Z RADIAL DRILLING MACHINE

## Efficient, Economic, & Reliable



Reliable



Rapid



Easy



Our mousetrap, the Z-series drilling machine embodies more than a half century of technological and ergonomic refinement. For simple drilling work that must be done quickly, accurately, and with minimal fuss the Z-series cannot be beat.



### Easy to Operate

Optimized controls for easy adjustments to spindle rotation direction, drilling depth, RPM, and neutral point



### Clamp Pump

Guarantees all parts of the hydraulic clamp operate reliably



### Automatic Lubrication

Worry-free lubrication of all vital surfaces



### Vertical Clamp

The hydraulic square-jaw chuck design is simple and reliable

### Sample Work Pieces:



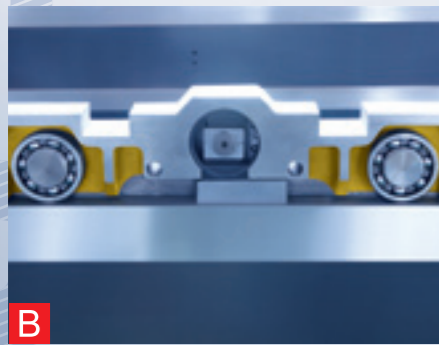
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## RADIAL DRILLING MACHINE

### Efficient, Economic, & Reliable



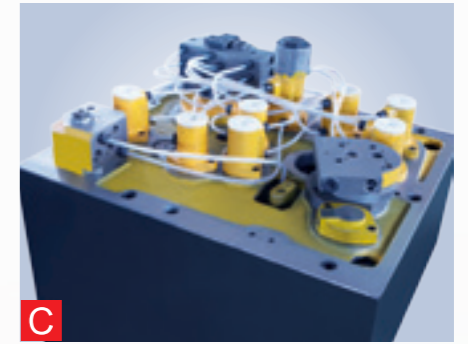
**A**  
Hydraulic system cutaway



**B**  
Spindle head hydraulic clamps



1.78m



**C**  
Variable-speed drive and spindle speed selector cutaway



**D**  
Spindle gearbox



Spindle rapid-stop brake assembly



Spindle rotation direction switch

# Z

## RADIAL DRILLING MACHINE

### MAIN SPECIFICATIONS

Item	Unit	Z3040×12/1	Z3040×16/1	Z3050×12/1	Z3050×16/1	Z3050×18/1	Z3063×20/1	Z3080×25	Z3010 0×31	Z30125×40	Z3140A	Z3150	Z3340	Z3350	Z3363	Z3380	Z33100×40	Z33125×40A	Z3540	Z3550	
Max Drilling Diameter	mm	40	40	50	50	50	63	80	10 0	125	40	50	40	50	63	80	100	125	40	50	
Distance between spindle axis and column	Max	mm	1250	1600	1250	1600	1800	2000	2500	31 50	4000	1600	1600	1600	1600	2000	2500	3150	4000	1600	1600
	Min	mm	350	350	350	350	350	450	500	57 0	600	850	850	350	350	450	500	570	600	850	850
Distance between spindle axis and worktable	Max	mm	1250	1250	1220	1220	1220	1600	2000	25 00	2500										
	Min	mm	350	350	320	320	320	400	550	75 0	750										
Spindle travel	mm	315	315	315	315	315	400	450	50 0	560	315	315	315	315	400	450	500	560	315	315	
Spindle taper (Mohs)	No.	4#	4#	5#	5#	5#	5#	6#	6 #	Metric 80	4#	5#	4#	5#	5#	6#	6#	Metric 80	4#	5#	
Spindle speed range	r/min	25-2000	25-2000	25-2000	25-2000	25-2000	20-1600	16-1250	8-1 000	6.3-800	1 6-1250	16-1250	25-2000	25-2000	20-1600	16-1250	8-1000	6.3-800	16-1250	16-1250	
Spindle speed steps		16	16	16	16	16	16	16	2 2	22	16	16	16	16	16	16	22	22	16	16	
Spindle feed range	mm	0.04-3.2	0.04-3.2	0.04-3.2	0.04-3.2	0.04-3.2	0.04-3.2	0.04-3.2	0.06 -3.2	0.06-3.2	0.06-1	0.06-1	0.04-3.2	0.04-3.2	0.04-3.2	0.04-3.2	0.06-3.2	0.06-3.2	0.06-1	0.06-1	
Spindle feed steps		16	16	16	16	16	16	16	1 6	16	9	9	16	16	16	16	16	16	9	9	
Worktable dimensions	mm	630×500×500	630×500×500	630×500×500	630×500×500	630×500×500	800×630×500	1000×800×560	1250×8 00×630	1250×800×630											
Spindle headstock travel	mm	900	1250	900	1250	1450	1550	2000	25 80	3400	750	750	1250	1250	1550	2000	2580	3400	750	750	
Spindle maximum torque	Nm	400	400	500	500	500	980	1568	24 50	3136	392	490	400	500	980	1568	2450	3136	392	490	
Main motor power	kW	3	3	4	4	4	5.5	7.5	1 5	18.5	3	4	3	4	5.5	7.5	15	18.5	3	4	
Swing arm lifting distance	mm	580	580	580	580	580	800	1000	12 50	1250	900	900	580	580	800	1000	1250	1250	900	900	
Slide block travel	mm												2000	2000	4000	4000	4000	4000	2000	2000	
Machine weight	kg	3000	3500	3000	3500	3550	7000	11000	20 000	28500	4500	4500	6000	6000	16800	18500	22000	42000	7200	7200	
Machine dimensions	mm	2150×1070×2840	2500×1070×2840	2150×1070×2840	2500×1070×2840	2700×1070×2840	3080×1250×3205	3730×1400×4075	4650×16 30×4525	4960×2000×4950	3058 ×1240×2620	3058×1240×2620	4400×1150×2900	4400×1150×2900	7300×1450×3655	7300×1450×4425	7300×1540×4855	7900×2200×5625	4350×1710×3020	4350×1710×3020	