

## Z5150A,Z5163B,Z5180B Box Type Drilling Machine

Box type vertical drilling machine is universal general purpose machine used for drilling, reaming, spot facing, counter boring, boring and tapping operation etc. The automatic reversing function and inching feed make it very convenient for machining blind holes and hole depth setting. They boast high efficiency, high rigidity, high accuracy, low noise, centralized operation, full speed range and easy maintenance.

For model Z5163B and Z5180B, the base can be used as worktable. Thus, high workpiece can be machined with the main worktable dismantled.

Z5140B with fortified spindle can be used for boring operation directly. With centrifugal frictional clutch set in the main drive system, the reversing shock is minimized, functioning torque overload protection. This machine has the function of tool-withdrawal by push rod.

Main specification		Z5150A	Z5140B	Z5163B	Z5180B
Max.drilling dia.	mm	50	40	63	80
Max. feed resistance	N	16000	16000	30000	30000
Max.permissible spindle torque	N.m	350	350	800	800
Power of main motor	kw	3	3	5.5	5.5
Throat distance (Distance from spindle center line to guideway surface)	mm	335	335	375	375
Spindle travel	mm	250	240	250	250
Spindle taper	no	5	4	5	6
Spindle box travel ( manual)	mm	200	200	250	250
Spindle speed range(steps)	r/min	31.5-1400/12	31.5-1400/12	40-570/9	40-570/9
Feed rates (steps)	mm/rev	0.056-1.8/9	0.056-1.80/9	0.11-0.78/6	0.11-0.78/6

Max.travel of worktable	mm	300	300	300	300
Max. worktable size	mm	560x480	560x480	650*550	650x550
Max. distance from spindle nose to worktable surface	mm	750	800	850-1280	820-1250
Overall dimension	mm	109x90.5x253.5	1090x905x2530	986*1470*2797	986x1470x2797
Net weight/gross weight	kg	1250/2050	1250/1700	2600/3200	2700/3200
Packing dimension	cm	266x112x144	266x112x144	285*111*194	285x111x194