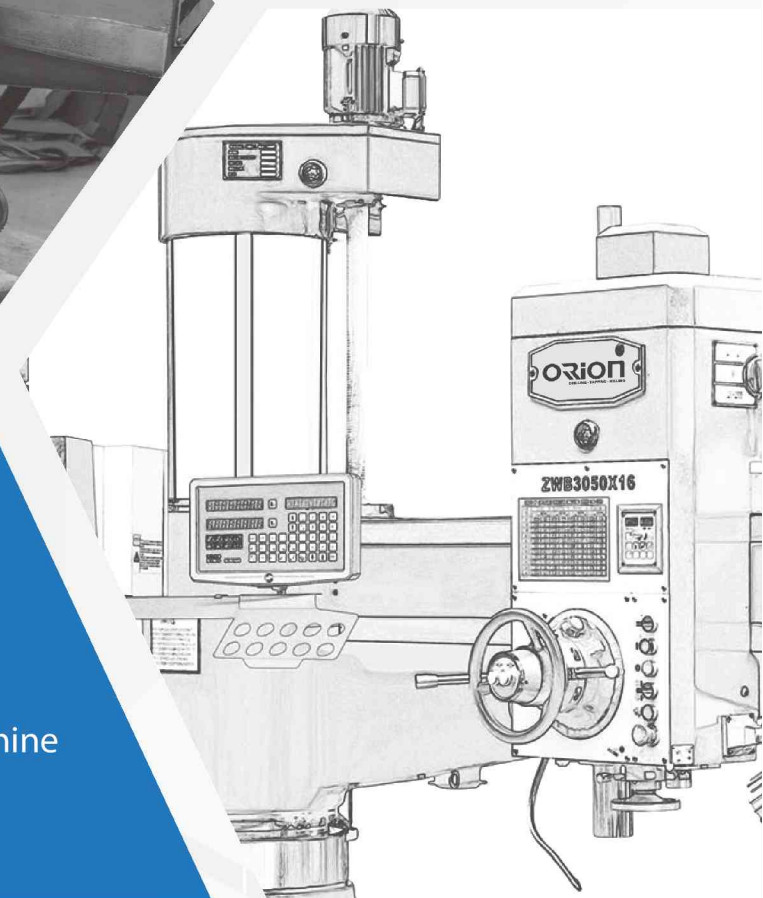


# HEAVY DUTY VERTICAL DRILLING MACHINE



- High Efficiency Vertical Drilling Machine
- Pilar Type Vertical Drilling Machine
- Box Type Vertical Drilling Machine
- Adjustable Multi Spindle Vertical Drilling Machine

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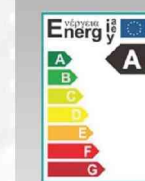
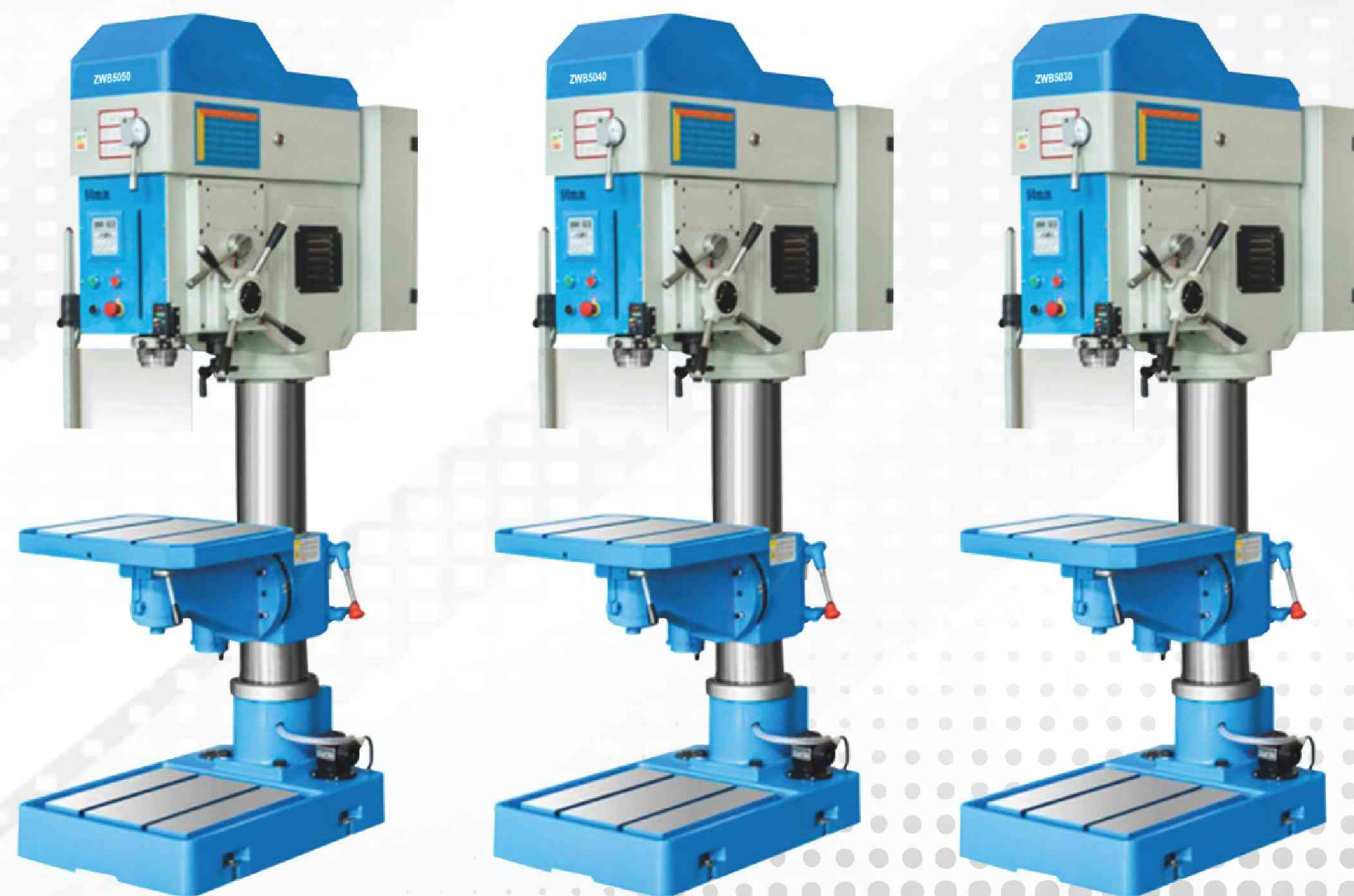
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## ZWB5050/40/30 Intelligent High Vertical Drilling Machine

**NEW**



ZWB5050



ZWB5040



ZWB5030

Model		ZWB5050	ZWB5040	ZWB5030
Max. Drilling capacity	mm	50	40	30
Max. Tapping capacity	mm	M30	M27	M20
Max. Spindle travel	mm	240	180	135
Spindle taper		MT5	MT4	MT3
Diameter of column	mm	180	160	120
Spindle speed	r/min	50-200, 200-2000	50-250, 250-2500	50-300, 300-2500
Rotate angle of worktable along column		± 180°	± 180°	± 180°
Worktable travel	mm	550	550	480
Distance spindle axis to column surface	mm	360	360	320
Availability working area of worktable	mm	470 x 390	470 x 390	420 x 360
Availability working area of base	mm	450 x 460	450 x 460	400 x 390
T-Slot size of worktable		2-14	2-14	2-14
T-Slot size of base		2-18	2-18	2-18
Max. distance spindle nose to table	mm	540	570	40
Max. distance spindle nose to base	mm	1130	1160	1110
Max. torque	N.m	350	200	95
Main motor power	kW	4kW	3kW	2.2kW
Feed motor power	w	90W	90W	90W
Feed speed rate	mm/rate	20-204	18-183	21-213
Coolant pump motor	w	40W	40W	40W
Electromagnetic clutch power	w	32W	24W	21W
N.W/G.W.	kg	845/905	690/745	510/560
Max. external dimension	mm	1055 x 665 x 2150	1045 x 665 x 2095	960 x 500 x 1950
Packing dimension	mm	1170 x 680 x 2390	1170 x 680 x 2330	1100 x 620 x 2260



## PILLAR TYPE VERTICAL DRILLING MACHINE

### Z5050

• **Standard accessories**

Taper sleeve  
Eyelet bolts  
Drill chuck  
Arbor  
Drift

• **Special accessories**

Multi-spindles  
Safety guard  
Angle vice



### Z5040 Pillar Type Vertical Drilling Machine

• **Feature and application**

- New-designed, pleasing appearance, compact construction, wide speed change range, easy to operate.
- Easy operation with its unique worktable, and both motor-drive and manual-operated lifting device.
- The working table can be rotated 180° and can be 45° also, it is reliable and easy job can be done.
- Equipped with coolant system and tapping mechanism.
- Equipped with shortcut and overload protection, its electric system with powerful spindle motor, it designed according to IEC standard.
- Characteristic protection device is safe and reliable. Ideal choice for single piece, small batch and mass production for drilling, counterboring, reaming, tapping, spot facing.



Model		Z5050	Z5040
Max.drilling capacity	mm	50	40
Max.tapping capacity	mm	M30	M27
Diameter of column	mm	180	160
Spindle travel	mm	240	180
Distance spindle axis to column generating line	mm	360	360
Max. Distance spindle nose to table	mm	570	590
Max. Distance spindle nose to base	mm	1160	1180
Spindle taper		MT4 or MT5	MT4
Spindle speeds range	r/min	42~2050	42~2050
Spindle speeds series		12	12
Spindle feeds	mm/r	0.07 0.15 0.26 0.40	0.07 0.15 0.26 0.40
Dimension of worktable surface	mm	550 x 470	550 x 470
Table travel	mm	550	550
Dimension of base table	mm	450 x 440	450 x 440
Overall height	mm	2380	2330
Main motor	kW	2.2/2.8	2.2/2.8
Coolant motor	W	40	40
G.W/N.W	Kg	1045/985	815/755
Packing dimension	cm	108 x 62 x 245	108 x 62 x 245



## PILLAR TYPE VERTICAL DRILLING MACHINE

### Z5035/Z5030

• **Standard accessories**

Taper sleeve  
Eyelet bolts  
Drill chuck  
Wrench  
Arbor  
Drift

• **Special accessories**

Multi-spindles  
Safety guard  
Angle vice



### Z5030/Z5035 Pillar Type Vertical Drilling Machine

• **Feature and application**

- New-designed, pleasing appearance, compact construction, wide speed change range, easy to operate.
  - Easy operation with its unique worktable, and both motor-drive and manual-operated lifting device.
  - The working table can be rotated 180° and can be ±45° also, it is reliable and easy job can be done.
  - Equipped with coolant system and tapping mechanism.
  - Equipped with shortcut and overload protection, its electric system with powerful spindle motor, it designed according to IEC standard.
  - Characteristic protection device is safe and reliable.
- Ideal choice for single piece, small batch and mass production for drilling, counterboring, reaming, tapping, spot facing.



Model		Z5035	Z5040
Max.drilling capacity	mm	35	30
Max.tapping capacity	mm	M24	M20
Diameter of column	mm	140	120
Spindle travel	mm	160	135
Distance spindle axis to column generating line	mm	330	320
Max. Distance spindle nose to table	mm	590	550
Max. Distance spindle nose to base	mm	1180	1100
Spindle taper		MT4	MT3
Spindle speeds range	r/min	75~2500	65~2600
Spindle speeds series		12	12
Spindle feeds	mm/r	0.1 0.2 0.3	0.1 0.2 0.3
Dimension of worktable surface	mm	500 X 400	500 X 400
Table travel	mm	550	490
Dimension of base table	mm	400 x 390	400 x 390
Overall height	mm	2300	2300
Main motor	kW	1.5/2.2	1.5/2.2
Coolant motor	W	40	40
G.W/N.W	Kg	595/545	495/545
Packing dimension	cm	108 x 62 x 220	108 x 62 x 215



## PILLAR TYPE VERTICAL DRILLING MACHINE

### Z5035/Z5030

• **Standard accessories**

Taper sleeve  
Eyelet bolts  
Drill chuck  
Wrench  
Arbor  
Drift

• **Special accessories**

Multi-spindles  
Safety guard  
Angle vice



### Z5030/Z5035 Pillar Type Vertical Drilling Machine

• **Feature and application**

- New-designed, pleasing appearance, compact construction, wide speed change range, easy to operate.
  - Easy operation with its unique workable, and both motor-drive and manual-operated lifting device.
  - The working table can be rotated 180° and can be ±45° also, it is reliable and easy job can be done.
  - Equipped with coolant system and tapping mechanism.
  - Equipped with shortcut and overload protection, its electric system with powerful spindle motor, it designed according to IEC standard.
  - Characteristic protection device is safe and reliable.
- Ideal choice for single piece, small batch and mass production for drilling, counterboring, reaming, tapping, spot facing.



Model		Z5035	Z5040
Max.drilling capacity	mm	35	30
Max.tapping capacity	mm	M24	M20
Diameter of column	mm	140	120
Spindle travel	mm	160	135
Distance spindle axis to column generating line	mm	330	320
Max. Distance spindle nose to table	mm	590	550
Max. Distance spindle nose to base	mm	1180	1100
Spindle taper		MT4	MT3
Spindle speeds range	r/min	75~2500	65~2600
Spindle speeds series		12	12
Spindle feeds	mm/r	0.1 0.2 0.3	0.1 0.2 0.3
Dimension of worktable surface	mm	500 X 400	500 X 400
Table travel	mm	550	490
Dimension of base table	mm	400 x 390	400 x 390
Overall height	mm	2300	2300
Main motor	kW	1.5/2.2	1.5/2.2
Coolant motor	W	40	40
G.W/N.W	Kg	595/545	495/545
Packing dimension	cm	108 x 62 x 220	108 x 62 x 215



## BOX-TYPE VERTICAL DRILLING MACHINE



**Z5140A    Z5150A    Z5140B/Z5150B**

### • Characters

Square-column vertical drilling machine is a universal general purpose machine. Its used for counter-sinking, spot-facing drilling, tapping, boring, reaming, etc. The machine has catch the finction of tap- automatically reversing device which is suitable for tapping of blind and determined holes. The machine has high efficiency, high accuracy, low noise, wide range of variable speed, centralized controls good looking appearance, easy maintenance and operation.

## Z5163B/Z5180B Box-Type Vertical Drilling Machine



Model		Z5140A/Z5150A	Z5140B/Z5150B	Z5163B	Z5180B
Max.drilling capacity	mm	40/50	40/50	63	80
Max. feed resistance	N		1600		30000
Max.permmissible spindle torque	N m		350		800
Power of main motor	kW	3/4		3/4	5.5    7.5
Throat distance	mm		335		375
Spindle taper		MT4/MT5		MT4/MT5	MT5    MT6
Spindle travel	mm		250		250
Spindle box travel (manual)	mm		200		250
Spindle speeds range (steps)	r/min		31.5-1400(12)		40-570(9)
Feed rates (steps)	mm/rev		0.56-1.80(9)		0.1-0.78(6)
Max.Travel of table	mm		300		300
Working surface of worktable	mm		560x480		650 x 550
Max. distance from spindle to worktable surface	mm	780/740		830	800
Overall dimension (LxWxH)	mm	1090x905x2535		965x1452x2787	
Net weight of machine/Gross Weight	kg	1250/1190		1850/1935	
Packing dimension	cm	122x80x248 or 122x80x224		150x92x280 or 275x101x179	



## ADJUSTABLE MULTI SPINDLE VERTICAL DRILLING MACHINE



OPTIONAL SPINDLE



PROCESSING WORK PIECE



## Processing Work Pieces



Model		ZB5220-8	ZB5217-10	ZB5214-12	ZB5212-14	ZB5211-16
Spindles		8	10	12	14	16
Spindle taper		MT2/ER25	MT2/ER25	MT2/ER25	MT2/ER25	MT2/ER25
Max. Drilling capacity	mm	(cast Iron) $\phi 23$ (Stee) $\phi 20$	(cast Iron) $\phi 20$ (Stee) $\phi 17$	(cast Iron) $\phi 17$ (Stee) $\phi 14$	(cast Iron) $\phi 15$ (Stee) $\phi 12$	(cast Iron) $\phi 14$ (Stee) $\phi 11$
Max. Machining range	mm	$\phi 350$				
Distance spindle nose to table	mm	220-460	220-460	220-460	220-460	220-460
Dimension of worktable surface	mm	650x550	650x550	650x550	650x550	650x550
Distance spindle axis to column generating line	mm	375	375	375	375	375
spindle speeds range	r/min	270~550	300~800	400~800	450~1000	450~1000
Table travel	mm	180	180	180	180	180
Feed motion		Hydraulic drive, stepless speed regulation				
Max. Table feed force	kg	2500	2500	2500	2500	2500
Min. Distance between spindle	mm	41/36	41/36	41/36	41/36	41/36
Main motor	kW	7.5	7.5	7.5	7.5	7.5
Coolant pump motor	kW	1.5	1.5	1.5	1.5	1.5
N.W./G.W	kg	2400/2600	2400/2600	2400/2600	2400/2600	2400/2600
Packing dimenson (LxWxH)	cm	203x97x262				