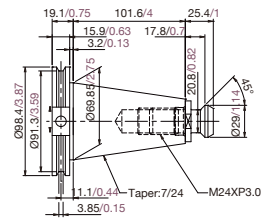
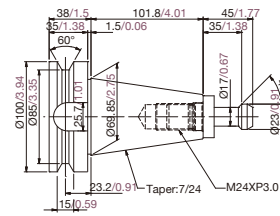
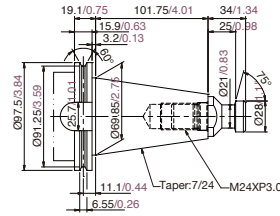


Tool Shank and Pull Stud Dimension

Unit: mm (inch)

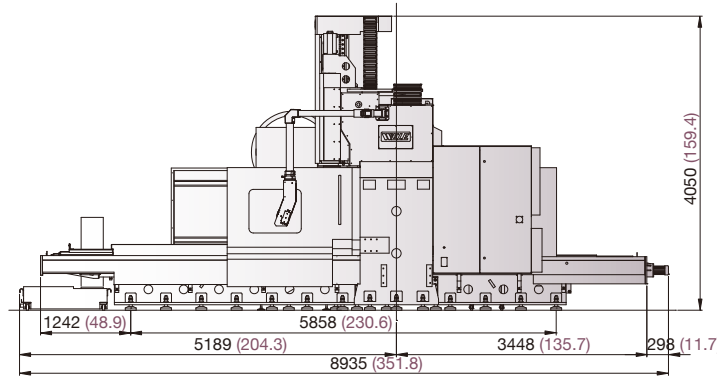
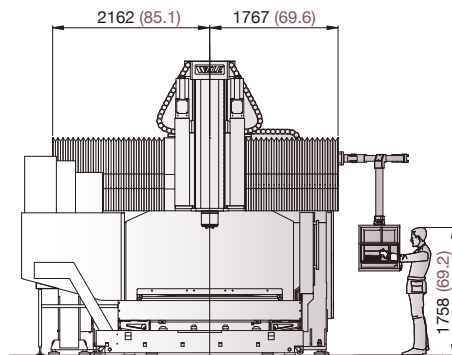
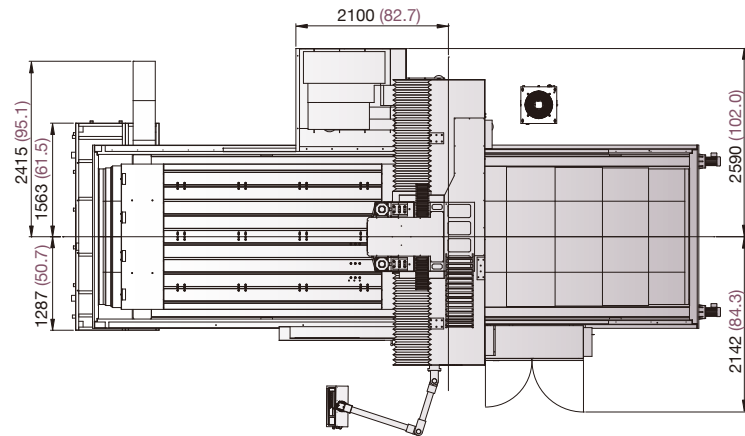
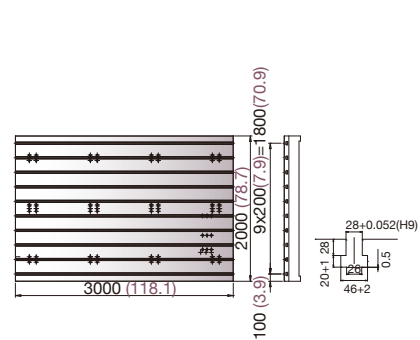
**CAT50**

BBT50



DIN50

Machines Dimension and Space Requirement



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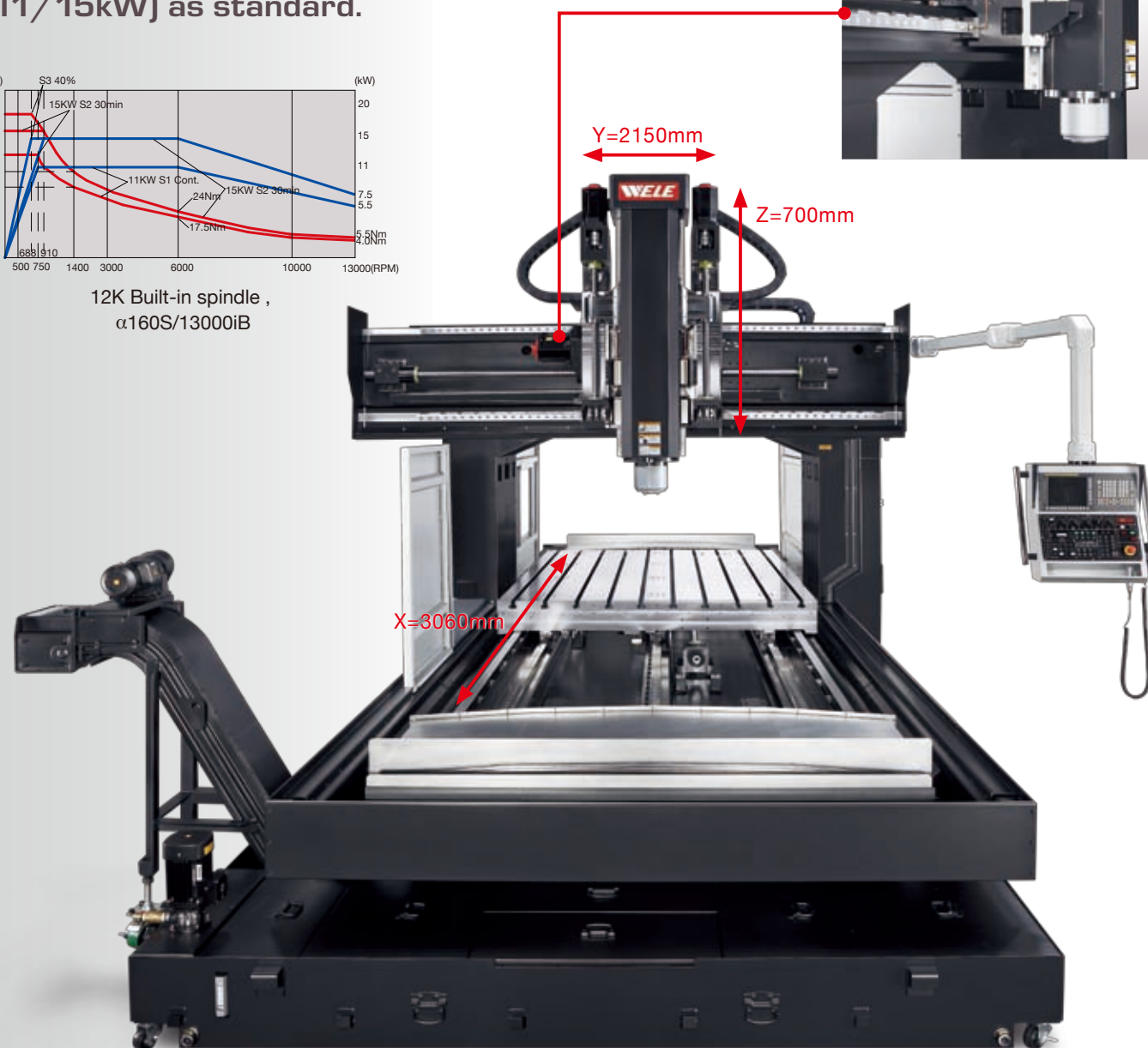
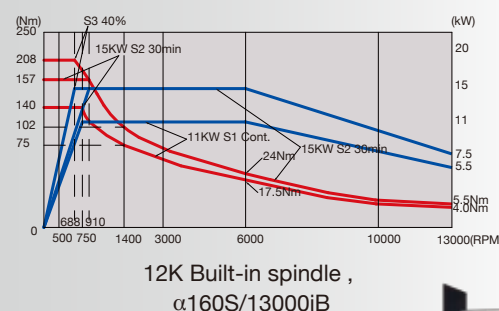


WELE MECHATRONIC CO., LTD



New design features

- **Z axial dual servo driven simultaneous system.**
- **X, Y axial driven system which consists of ball screw stationary and servo motor with rotating nut to reduce vibration and keep high reliable dynamic accuracy.**
- **3 axial linear roller guide ways offer ultra heavy load and low frictional coefficient.**
- **12k rpm Built-in spindle with Max. torque 208 Nm [11/15kW] as standard.**



● Above picture shown DL-321 equipped with 4-sheet splash guard.

Technical Specification

Specification \ Model	Unit	DL-321
Travel		
X travel (left & right)	mm (in)	3060 (120.5)
Y travel (in & out)	mm (in)	2150 (84.6)
Z travel (up & down)	mm (in)	700 (27.6)
Distance from spindle centerline to table top	mm (in)	150 - 850 (5.9 - 33.5)
Distance between columns	mm (in)	2300 (90.6)

Table		
Table size	mm (in)	3000 x 2000 (118.1 x 78.7)
Table load capacity	kg (lb)	12000 (26455)
Table T slot size (W x distance x number)	mm (in)	28x200x10 (1.1x7.9x10)

Spindle		
Spindle speed	rpm	10-12000
Spindle driven type		Built-in driven
Spindle motor (S1 continuous)	kW (HP)	11/15 (15/20)
Spindle Max Torque (cont./ S3,25%)	Nm (ft-lb)	140/239 (103/176)
Spindle taper		BBT50

Feedrate		
Rapid traverse rate X / Yaxis	mm (in)/min	25000 (984.3)
Rapid traverse rate Z axis	mm (in)/min	17000 (669.3)
Cutting feedrate	mm (in)/min	1 - 15000 (0.04 - 590.6)

Tool magazine		
Tool magazine capacity	pockets	24
Max. tool diameter / adjacent pocket empty	mm (in)	110 / 200 (4.3 - 7.9)
Max. tool length (from guage line)	mm (in)	400 (15.7)
Max. tool weight	kg (lb)	20 (44)

Accuracy		
Positioning accuracy (JISB 6338)	mm (in)	± 0.015 (± 0.0006)
Positioning accuracy (VDI 3441)	mm (in)	P=0.019 (0.0007)
Repeatability (JIS 6338)	mm (in)	± 0.003 (± 0.0001)
Repeatability (VDI 3441)	mm (in)	Ps=0.015 (0.0006)

Other		
Coolant capacity	liter (gallon)	650 (172)
Lubrication oil tank capacity	liter (gallon)	6 (2)
Pneumatic pressure requirement	kg/cm ²	5
Total required power (AC220V ± 10%, 3 Phase, 50/60 Hz)	kVA	60

Space requirement & weight		
Machine length (area reuired)	mm (in)	8950 (352.4)
Machine width (area required)	mm (in)	4500 (177.2)
Machine height	mm (in)	4050 (159.4)

** Product specifications and accessories are subject to change without notice.

Standard and optional accessories

● : Standard ○ : Option

Specification \ Model	DL-321
*BBT50 spindle taper+MAS pull stud	●
*DIN50 spindle taper	○
*CAT50 spindle taper+ANSI pull stud	○
*12,000 rpm built-in spindle (15/20HP)	●
*Z travel of 900 mm (35.4")	○
*Column raise up for 200mm	○
*Column raise up for 300mm	○
*Spindle temperature control system	●
*Twin servo motor driving on Z axis	●
*Adjustable torque-limit clutch (3 axes)	●
*Centralized automatic lubricating system	●
*Four splash guard	●
*Full splash guard	○
*Roof enclosure guarding system	○
*Flood Coolant system (Pump & tank)	●
*Recycling lubricating oil collector for 3 axes	●
*Twin screw & caterpillar types conveyor and bucket	●
*24 tools capacity of tool magazine	●
*Rigid tapping	●
*Footswitch for tool clamping	●
*Remote handwheel control	●
*Work light	●
*Operation cycle finish and alarm lights	●
*RS232 interface	●
*Spray hose for chip wash down	●
*Heat exchanger to refit air-conditioning for electric cabinet	○
*Oil Skimmer	○
*Foundation bolt kit	●
*Machine manuals	●
*Linear scale feedback system for 3 axes (Fagor)	●
*Linear scale feedback system for 3 axes (Heidenhain)	○
*Coolant through the tool adapter	○
*Coolant through the spindle (Form A) w/1000 liter tank	○
*Angular head (90 degree) index in 4 positions manual	○
*30° head index in 4 positions manual	○
*Universal head indexable in C and A axis manually	○
*Extension head	○
*Swing type one head storage on the right column	○
*Swing type operator panel (moveable in horizontal direction)	○
*Automatic tool length measurement (Blum or Renishaw)	○
*Automatic workpiece measuring system (Blum or Renishaw)	○
*FANUC 31iM controller	●
*Heidenhain iTNC 530 controller	○
*4th axis interface prepared	○
*CNC rotary table	○