

Unit : mm(inch)

CAT40

BT40

DIN40

Unit : mm(inch)

Model \ Item	A	B	C	D	E	F	G	H	I
VQ650	800 (31.5)	510 (20.1)	55 (2.2)	100 (3.9)	24 (0.9)	14 (0.6)	26 (1)	15 (0.6)	10 (0.4)
VQ1060	1150 (45.3)	600 (23.6)	50 (2)	125 (4.9)	30 (1.2)	18 (0.7)	34 (1.3)	20 (0.8)	13 (0.5)



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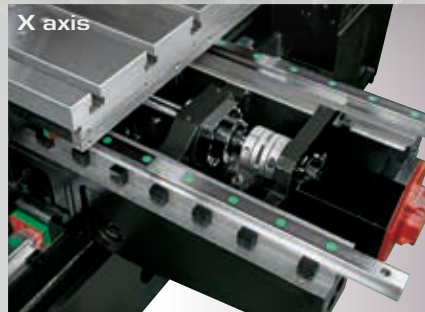
8052803 **Macis.** TEL: 04-24733326



WELE MECHATRONIC CO., LTD

VQ Series Linear guideway machining center

High speed and general machining purpose. VQ machine is suitable for aluminum parts machining.



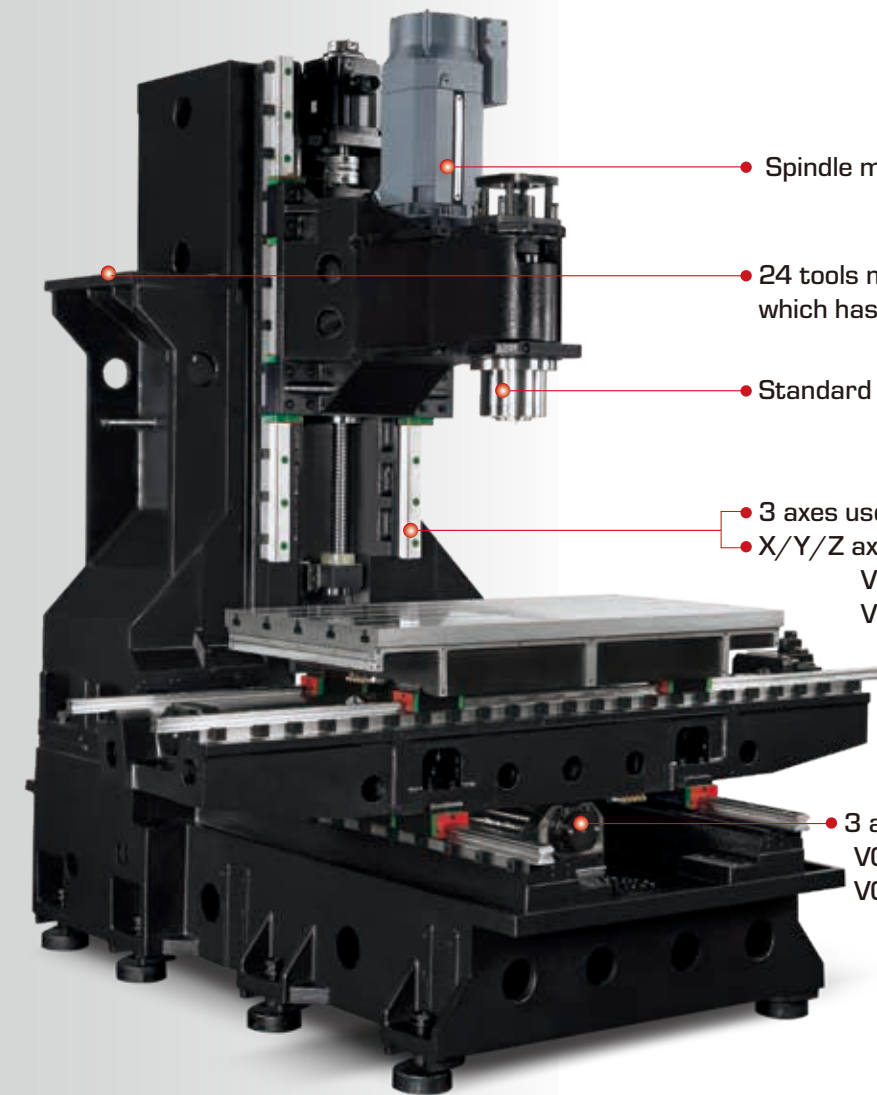
Fine and rigid feed system and performance



Casting in one piece for ball screw and bearing supports on all axes.



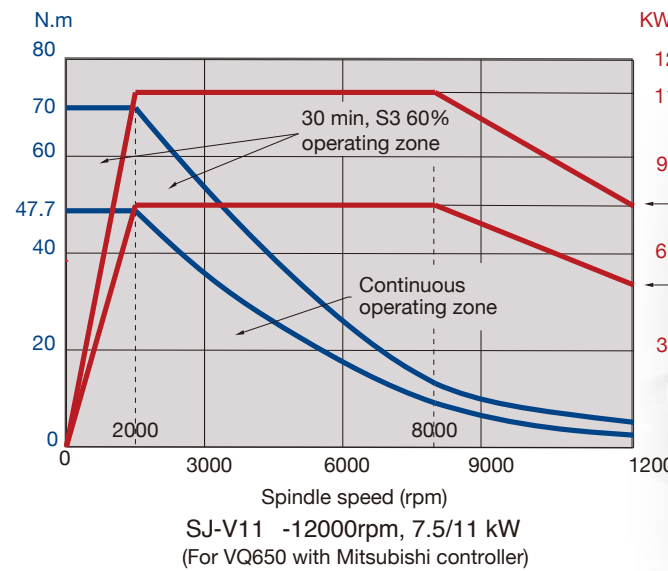
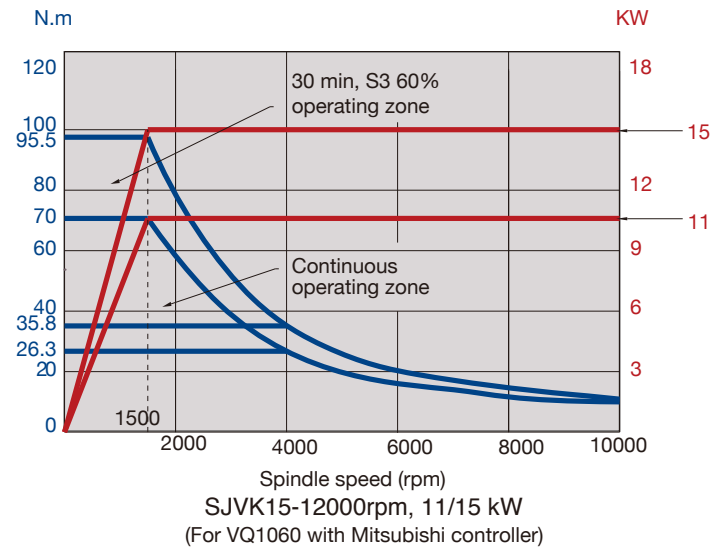
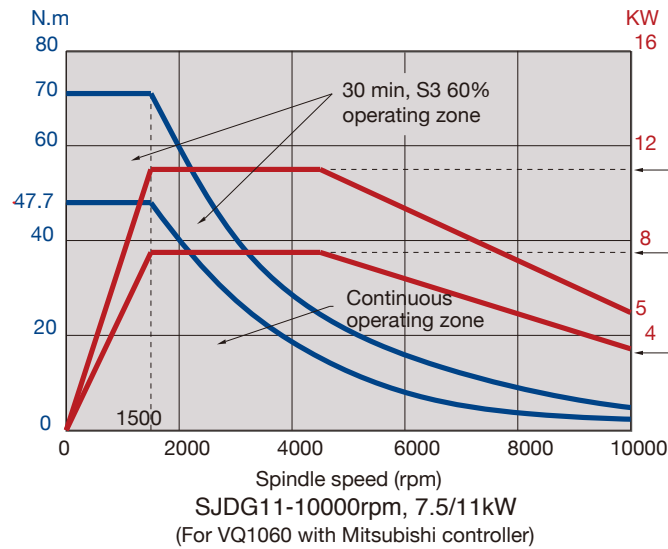
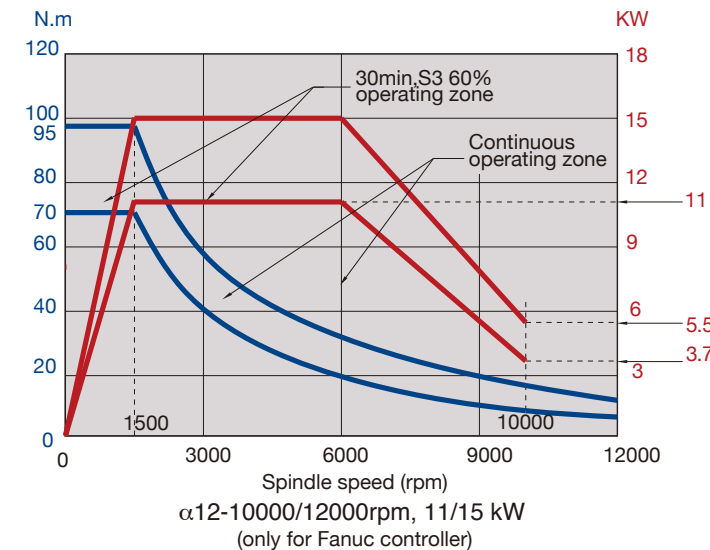
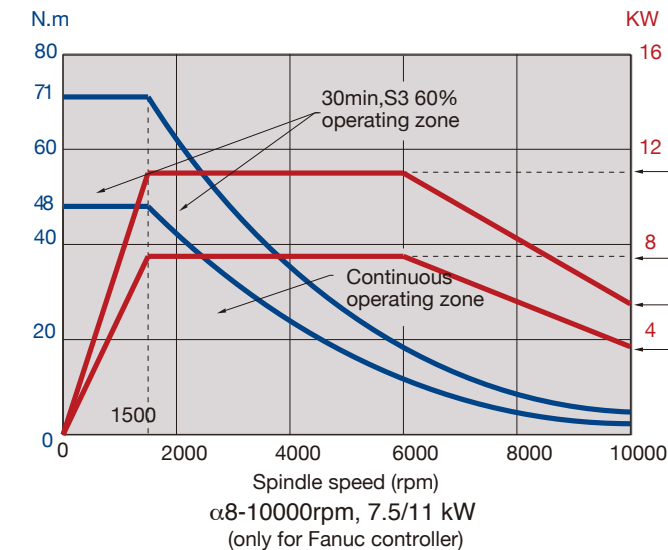
Z axial servo motor drives the whole weight of the spindle head



- Spindle motor output torque is 7.5/ 11 kW.
- 24 tools magazine positive load on the column which has well stability while tool exchange.
- Standard 10K rpm belt driven spindle.
- 3 axes uses linear ball way.
- X/Y/Z axial linear way size is
VQ650 : 30/ 35/ 35mm.
VQ1060 : 35/ 45/ 45mm.
- 3 axes Ball screw diameter :
VQ650 : X/Y is 32mm ; Z is 40mm.
VQ1060 : X/Y/Z is 40mm.

Above figure shown the VQ 1060 without sheet metal.

Spindle output torque chart:



Specification and accessories

Specification \ Model	Unit	VQ650	VQ1060
Travel			
X travel	mm (in)	650 (25.6)	1,020 (40.2)
Y travel	mm (in)	510 (20.1)	600 (23.6)
Z treval	mm (in)	510 (20.1)	600 (23.6)
Distance from spindle nose to table top	mm (in)	100-610 (3.94-24)	105-705 (4.1-27.7)

Table			
Table size (X direction)	mm (in)	800 (31.5)	1,150 (45.3)
Table size (Y direction)	mm (in)	510 (20.1)	600 (23.6)
Table load capacity	kg (lb)	500 (1,102.3)	700 (1,543.2)

Spindle		
Spindle speed	rpm	Belt Driven / 10,000
Spindle motor (cont./30 min. rating)	kW (HP)	7.5 / 11 (11 / 15)
Spindle Torque (cont./30 min. rating)	Nm (ft-lb)	48/71 (35.4 /52.3)
Spindle taper		BBT#40

Feedrate		
Rapid traverse rate (X/Y axis)	mm (in)/min	36,000 (1,417.3)
Rapid traverse rate (Z axes)	mm (in)/min	30,000 (1,181.1)
Cutting feedrate	mm (in)/min	1-10,000 (0.04-393.7)

Tool magazine		
Tool magazine capacity	pcs	24
Max. tool diameter/adjacent pocket empty	mm (in)	78/150 (3.1/5.9)
Max. tool length	mm (in)	250 (9.8)
Max. tool weight	kg (lb)	7 (15.4)

Accuracy		
Positioning accuracy (JIS-B6338)	mm (in)	± 0.003 (± 0.0001)
Positioning accuracy (VDI 3441)	mm (in)	± 0.002 (± 0.0001)
Repeatability (JIS-B6338)	mm (in)	P ≤ 0.012 (0.0005)
Repeatability (VDI 3441)	mm (in)	Ps ≤ 0.006 (0.0002)

Space requirement & weight			
Machine length	mm (in)	2,870 (113)	3,550 (139.8)
Machine Width	mm (in)	2,970 (116.9)	2,520 (99.2)
Machine Height	mm (in)	2,650 (104.3)	2,800 (110.2)
Machine weight	kg (lb)	4,000 (8818.5)	5,500 (12,125.4)

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

Specification \ Model	VQ
*BT40 spindle taper	●
*DIN40 spindle taper	○
*CAT40 spindle taper	○
*10,000 rpm belted spindle, BBT40	●
*10,000 rpm direct driven spindle, BBT40	○
*Three axial ball screws preload.	●
*Spindle oil chiller	●
*Centralized automatic lubricating system	●
*Roof enclosure guarding system	●
*Recycling lubricating oil collector for 3 axes	●
*Spindle air seal	●
*Air blast in machining	●
*Chip auger in X axis	●
*Caterpillar type conveyor and bucket	○
*Scrape type conveyor and bucket	○
*24 capacity of type tool magazine	●
*Rigid tapping	●
*Heat exchanger for electrical cabinet	●
*Heat exchanger refit to air conditioner	○
*Remote handwheel control	●
*Work light	●
*Operation cycle finish and alarm lights	●
*RS232 interface	●
*Foundation bolt kit and tool kit	●
*Machine manuals	●
*Flood Coolant system (Pump & tank)	●
*Spray hose for chip wash down	●
*Coolant around spindle	○
*Coolant wash down	○
*Coolant through the tool adapter	○
*Coolant through the spindle (Form A) , 20 bar	○
*Automatic tool length measurement.	○
*Oil skimmer	○
*Auto power off function	●
*Data Server (include 1G CF Card)	○
*Transformer	○
*Mitsubishi M80A controller	●
*FANUC 0iM controller	○
*CE & UL wiring	○