

**Machine:**

**VMC 2016L-SE**

Machine Sliding Ways (For all 3 Axes X,Y,Z)	Linear guide ways
X axis travel	20" (510 mm)
Y axis travel	16" (410 mm)
Z axis travel	18" (460 mm)
Max. load (uniform distribution)	660 lb. (300 kg.)

**Table:**

Table size (X) x (Y)	23.6" x 12.6" (600 x 320 mm)
T-SLOTS (No./Width/Span)	Three 0.55" on 3.9" (14 x 100 mm)
Table center to column min/max	9" - 25" (225 x 635 mm)
Table top to floor	32 .1" (815 mm)

**Spindle Head:**

Motor (peak): AC digital spindle drive with "Flux vector control" provides maximum torque and accurate speed control for non-mechanical spindle orientation and rigid tapping.	10 hp (5.5 kW)*
Motor (30 min rating, 50% ED)	7.5 hp (3.5 kW)
Spindle speed (RPM), air purged spindle head	Direct Drive 8,000 (10,000/12,000 optional)
Max-torque at spindle motor (peak)	53 ft. lbs./1500 RPM(7.5 mm-kg/1500 RPM)
Max-torque at spindle motor (peak)	*35 ft. lbs./1500 RPM(4.8kg-m/1500 RPM)
Maximum clamping force(tool holder)	Up to 2,200 lbs. (1,000 kg.)
Ranges	1
Taper	CT 40/BT 40
Spindle to the table (min./max.)	5" / 23" (125 mm / 587 mm)

**Automatic Umbrella Tool Changer:**

Tool storage capacity	12 (Umbrella Type)
Tool selection	Random/bi directional
Max adjacent tool diameter	3.94" (100 mm)
Max dia. W/adjacent pocket empty	5.91" (150 mm)
Max tool weight	13.2 lb. (6 kg)
Max tool length	11.8" (300 mm)
1 Speed max tool to tool	7 seconds

## Performance:

Positioning accuracy	± 0.0002"/ft. (± 0.005/300 mm)
Repeatability	± 0.00012"/ft. (± 0.003/300 mm)
Resolution	0.00001" (0.0003 mm)
Rapid traverse (X & Y)	1416/1416/945 ipm (36/36/24 m/min)
Cutting feed rate	0 - 400 ipm (10 mpm)
Feed rate override	0 - 150%
Axis thrust (x-y-z) (peak)	7,022 lb. (3,185 kg)
Positioning	(X, Y, and Z) Rotary encoder (Opt. glass scale)
Control	Fanuc Oi-Mate (Opt. Oi-M; Anilam, Fagor, Dynapath,)

## General:

Air pressure requirements	85 psi (6 Kg/cm <sup>2</sup> )
Coolant capacity	47 gallons (180 liters) [Opt 92.5gl (350lts)]
Coolant flow	21 GPM (80 LPM)
Machine height	78.7" (2,000 mm)
Machine width	94.5" (2,400 mm)
Machine depth	86.6" (2,200 mm)
Working area required	132" x 113" (3,353 x 2,868 mm)
Machine Net Weight	6,160 lbs. (2,800 kg)
Shipping weight	6,834 lbs. (3,100kg)
Power	9 KVA

\*Yasakawa Motor