

Machine:

KMC 310-S

Table size	50" x 10" (1,270 x 254 mm)
Table Travel (X axis):	27" (685 mm)
Table Saddle (Y axis):	15" (381 mm)
Table Quill (Z axis):	6 ½" (165 mm)
Knee travel	16" (406 mm)
T-slots	Three 5/8" on 2-1/2" centers (3-0.62 on 63 mm)
Gibs	Adjustable on X, Y, and Knee
Ram	Adjustable (rigid optional)

Spindle:

Spindle motor	7-1/2 HP (5.5 kW) (30 min. duty rating)
Spindle taper	#40 NMTB
Speed range	55 – 4,250 RPM
Quill diameter	4-3/8" (110 mm) hardened

Machining Capacity:

Workpiece weight	1,000 lbs. (453 kg)
Max. distance: spindle to table	18 ¼" (476 mm)
Drilling - mild steel	1 ½" diameter (25 mm)
Milling - mild steel	8 cubic ipm (131 cm ³ pm)
Positioning accuracy	±0.0004" (±0.01 mm)
Repeatability	±0.0001" (±0.002 mm)
Input resolution	0.0001" (0.002 mm)
Output resolution	0.0001" (0.002 mm)
Rapid traverse (X and Y axes)	200 ipm (5 mpm)
Feedrate	0.1 – 150 ipm (0.002 – 3.81 mpm)
Feedrate overrides	0 – 150% (all axes)

Standard Machine Features:

Leadscrews	Precision, zero-backlash, preloaded ball type
Spindle bearings	Three, super precision
Castings	Close-grained Meehanite
Coolant	Flood coolant built in

General Data:

Floor space	93" x 77" x 96" (2.3 x 1.9 x 2.4 m)
Weight	4,000 lbs. (1,814 kg.)
Color	WHITE with teal trim
Electrical power	230 VAC, 30 AMP / 460 VAC, 20 AMP / 208V opt. / 60 Hz / 3 phase