

VMX SERIES

High Performance

Vertical Machining Centres

- VMX24
- VMX30
- VMX42
- VMX50
- VMX60
- VMX64
- VMX84

The performance and flexibility of the VMX Series of machining centres is so broad, it spans all industries and shop sizes. From the aerospace industry to the medical device industry, there's a VMX vertical machining centre that fits the bill.

- High torque, fast feed rates, heavy rigid frame.
- The VMX Series is known for its huge work cube (50% larger on average than competitive models) that lets you schedule a wider variety of work.
- Exceptional cutting feed rates and surface finish software options provide the fastest cut with the best quality.
- Greater part accuracy with heavier, digital servo drives, and larger ball screws.



Specifications	VMX24m	VMX24t	VMX30m	VMX30t	VMX42m	VMX42t
Winmax Control	Single screen	Twin screen	Single screen	Twin screen	Single screen	Twin screen
X,Y, Z Travel (mm)	610x508x610	610x508x610	760x508x610	760x508x610	1066x610x610	1066x610x610
Table working surface (mm)	760x510	760x510	1020x510	1020x510	1270x610	1270x610
Maximum Table Load	950 Kg	1360 Kg	950 Kg	1360 Kg	950 Kg	1360 Kg
T-Slots (spacing x width)	5 x 18mm on 100mm centres	5 x 18mm on 100mm centres	5 x 18mm on 100mm centres	5 x 18mm on 100mm centres	5 x 18mm on 100mm centres	5 x 18mm on 100mm centres
Floor to table surface	890mm	890mm	890mm	890mm	889mm	889mm
Spindle Nose to Table	150mm/760mm	150mm/760 mm	150mm/760mm	150mm/760mm	152mm/762mm	152mm/762mm
Spindle Centre to Column	640mm	640mm	640mm	640mm	700mm	700mm
Spindle Taper	CAT 40/BT opt.	CAT 40/BT opt.	CAT 40/BT opt.	CAT 40/BT opt.	CAT 40/BT opt.	CAT 40/BT opt.
Spindle Speed	10,000 RPM	12,000 RPM	10,000 RPM	12,000 RPM	10,000 RPM	12,000 RPM
A.C. Spindle Motor (1 min)	15kW (20HP)	9kW (12.5HP)	15kW (20HP)	13.2kW (18.5HP)	21.6kW (29HP)	18kW (24HP)
A.C. Spindle Motor (30min)	13.4kW (18HP)	7.5kW (10HP)	13.4kW (18HP)	11kW (15HP)	16.8kW (22.5HP)	15kW (20HP)
Spindle Torque (1 min) @ RPM	102 Nm @ 1450	95 Nm @ 900	102 Nm @ 1450	214 Nm @ 600	143 Nm @ 1450	237 Nm @ 720
Spindle Torque (30 mins) @ RPM	88 Nm @ 1450	79 Nm @ 900	88 Nm @ 1450	176 Nm @ 600	110 Nm @ 1450	198 Nm @ 720
X Axis and Y Axis Rapid Feed Rate	30m/min	35m/min	30m/min	35m/min	30m/min	35m/min
Z Axis Rapid Feed Rate	20m/min	30m/min	20m/min	30m/min	20m/min	30m/min
Cutting Feed Rate	15.2 m/min	15.2 m/min	15.2 m/min	15.2 m/min	15.2 m/min	15.2 m/min
Positioning Accuracy (10 Pass VDI-3441)	+/- 0.005mm	+/- 0.005mm	+/- 0.005mm	+/- 0.005mm	+/- 0.005mm	+/- 0.005mm
Repeatability (10 Pass VDI-3441)	+/- 0.0025mm	+/- 0.0025mm	+/- 0.0025mm	+/- 0.0025mm	+/- 0.0025mm	+/- 0.0025mm
Number of stations	24	24	24	24	24 (40 option)	24 (40 option)
Maximum Tool Diameter (adjacent pocket empty)	80mm (120mm)	80mm (120mm)	80mm (120mm)	80mm (120mm)	80mm (120mm)	80mm (120mm)
Machine Weight	4,350 Kg	4,640 Kg	4,450 Kg	4,740 Kg	6,400 Kg	6,350 Kg

VMXm machines have a 10,000RPM spindle and single-screen WinMax control as standard. You also have the option of removing the swarf conveyor and washdown to save space and cost. The higher specification VMXt machines have a 12,000RPM high-torque spindle with chiller and the twin-screen WinMax control, washdown and swarf conveyor as standard. It is best to consult the local Hurco Sales Engineer as to which machine and option package best suits your application.

This manufacturer of specialized machining systems used for furniture production and construction part manufacturing switched to Hurco when they realized a 76% reduction in programming time due to the capabilities of the integrated Hurco control.



Expert design and premium components result in rugged machining centres with small footprints and extraordinarily large work cubes. The frame is made of fine grain, high-grade cast iron and we wedge lock the linear rails, which reduces vibration, instead of simply face milling the rails to the frame.



VMX50m	VMX50t	VMX50-50t	VMX60m	VMX60t	VMX64 (40)t	VMX64 (50)t	VMX84(40)t	VMX84(50)t
Single screen	Twin screen	Twin screen	Single screen	Twin screen	Twin screen	Twin screen	Twin screen	Twin screen
1270x660x610	1270x660x610	1270x660x610	1524x660x610	1524x660x610	1625x860x760	1625x860x760	2134x860x760	2134x860x760
1500x660	1500x660	1500x660	1676x660	1676x660	1676x890	1676x890	2184x865	2184x865
950 Kg	1360 Kg	1360 Kg	950 Kg	1360 Kg	2720 Kg	2720 Kg	2268 Kg	2268 Kg
6 x 18mm on 100mm centres	6 x 18mm on 100mm centres	6 x 18mm on 100mm centres	6 x 18mm on 100mm centres	6 x 18mm on 100mm centres	7 x 18mm on 125mm centres	7 x 18mm on 125mm centres	7 x 18mm on 125mm centres	7 x 18mm on 125mm centres
915mm	915mm	915mm	915mm	915mm	1016mm	1016mm	1016mm	1016mm
150mm/760mm	150mm/760mm	150mm/760mm	150mm/760mm	150mm/760mm	150mm/910mm	150mm/910mm	150mm/910mm	150mm/910mm
748mm	748mm	748mm	748mm	748mm	965mm	965mm	965mm	965mm
CAT 40/BT opt.	CAT 40/BT opt.	CAT 50/BT opt.	CAT 40/BT opt.	CAT 40/BT opt.	CAT 40/BT opt.	CAT 50/BT opt.	CAT 40/BT opt.	CAT 50/BT opt.
10,000 RPM	12,000 RPM	8,000 RPM	10,000 RPM	12,000 RPM	12,000 RPM	8,000 RPM	12,000 RPM	8,000 RPM
21.6kW (29HP)	18kW (24HP)	22kW (30HP)	21.6kW (29HP)	18kW (24HP)	18kW (24HP)	22kW (30HP)	18kW (24HP)	22kW (30HP)
16.8kW (22.5HP)	15kW (20HP)	18.5kW (25HP)	16.8kW (22.5HP)	15kW (20HP)	15kW (20HP)	18.5kW (25HP)	15kW (20HP)	18.5kW (25HP)
143 Nm @ 1450	237 Nm @ 720	353 Nm @ 600	143 Nm @ 1450	237 Nm @ 720	237 Nm @ 720	353 Nm @ 600	237 Nm @ 720	353 Nm @ 600
110 Nm @ 1450	198 Nm @ 720	293 Nm @ 600	110 Nm @ 1450	198 Nm @ 720	198 Nm @ 720	293 Nm @ 600	198 Nm @ 720	293 Nm @ 600
30m/min	35m/min	30m/min	30m/min	30m/min	18m/min	18m/min	18m/min	18m/min
20m/min	30m/min	20m/min	20m/min	20m/min	13.5m/min	13.5m/min	13.5m/min	13.5m/min
15.2 m/min	15.2 m/min	7.6 m/min	15.2 m/min	15.2 m/min	15.2 m/min	7.6 m/min	15.2 m/min	7.6 m/min
+/- 0.005mm	+/- 0.005mm	+/- 0.005mm	+/- 0.005mm	+/- 0.005mm	+/- 0.005mm	+/- 0.005mm	+/- 0.005mm	+/- 0.005mm
+/- 0.0025mm	+/- 0.0025mm	+/- 0.0025mm	+/- 0.0025mm	+/- 0.0025mm	+/- 0.0025mm	+/- 0.0025mm	+/- 0.0025mm	+/- 0.0025mm
24 (40 option)	24 (40 option)	30	24 (40 option)	24 (40 option)	24 (40 option)	32	40	32
80mm (120mm)	80mm (120mm)	125mm(220mm)	80mm (120mm)	80mm (120mm)	75mm (127mm)	125mm (220mm)	75mm (127mm)	125mm (220mm)
7,700 Kg	7,500 Kg	9,120 Kg	8,350 Kg	8,420 Kg	13,700 Kg	14,510 Kg	16,300 Kg	16,900 Kg