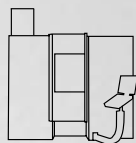




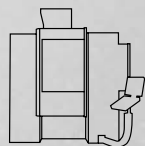
High-performance Milling

Automation readiness and above-average productivity are among the many reasons manufacturers of precise parts consistently choose our high-performance Milling solutions for their applications across a broad range of industries.

Five-axis

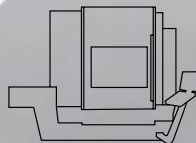


MILL P 500 U

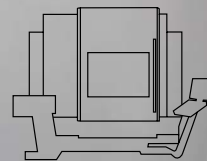


MILL P 800 U

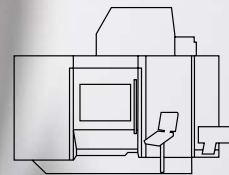
Five-axis



HPM 1150U

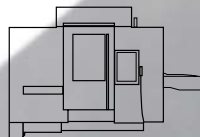


HPM 1350U



HPM 1850U

Three-axis



MILL P 900

600

800

1000

1200

1400

1850

X travel (mm)

Mikron

MILL P 500 U (D)

**Dynamic Milling of complex forms
and tough materials**



- + Accuracy on parts and process reliability
- + Flexibility for your production
- + Business efficiency
- + Maximizes productivity



Main specifications		MILL P 500 U	MILL P 500 U D
Travel X, Y, Z *	mm (in)	500 x 600 x 450 (19.7 x 23.6 x 17.70)	500 x 600 x 450 (19.7 x 23.6 x 17.70)
Swiveling axis / tilting axis	°	+91/-121 / n x 360	+91/-121 / n x 360
Working Spindle (40 % ED, S6)	rpm / kW / Nm	20 000 (HSK-A63) / 36 / 120	20 000 (HSK-A63) / 36 / 120
Rapid traverse X, Y, Z	m / min (ipm)	45 (1772)	61 (2401)
Rapid traverse (swiveling, rotating) 200 kg	rpm	50 / 140	50 / 140
Clamping surface	mm	Ø 500	Ø 500
Max. load	kg (lbs)	five-axis: 200 / 400 / 600 (441 / 881 / 1322)	five-axis: 200 / 400 / 600 (441 / 881 / 1322)
Tool magazine	piece	30 / 60 / 120 / 170 / 215	30 / 60 / 120 / 170 / 215
Control unit	Heidenhain / Siemens	TNC 640 / -	TNC 640 / 840D sl
Automation: pallet size / number [mm / piece]		400 x 400 / 12 500 x 500 / 9 500 x 630 / 7	
Optional Spindle		36000 (HSK-E50) / 33 / 21.3	

* Longitudinal x lateral x vertical

Mikron

MILL P 800 U (D)

MILL P 800 U ST

Highest productivity for batches of precise parts and medium to heavy molds



- + Your precision center: 365 days a year
- + Best surface finish on light or heavy parts
- + Highly flexible parts production
- + Finish your job in just one setup
- + Reliable, efficient unmanned third shift



Main specifications		MILL P 800 U	MILL P 800 U D	MILL P 800 U ST
Travel X, Y, Z *	mm (in)	800 x 800 x 550 (31.5 x 31.5 x 21.65)	800 x 800 x 550 (31.5 x 31.5 x 21.65)	800 x 800 x 550 (31.5 x 31.5 x 21.65)
Swiveling axis / tilting axis	°	+91/-121 / n x 360	+91/-121 / n x 360	+91/-121 / n x 360
Working Spindle (40% ED, S6)	rpm / kW / Nm	20000 (HSK-A63) / 36 / 120	20000 (HSK-A63) / 36 / 120	20 000 (HSK-T63) / 36 / 120
Rapid traverse X, Y, Z	m / min (ipm)	45 (1772)	61 (2401)	61 (2401)
Rapid traverse (swiveling, rotating)	rpm	25 / 35	50 / 60	50 / 800
Clamping surface	mm	Ø 500 or 631	Ø 500 or 631	Pallet Ø 550 and 730
Max. load	kg (lbs)	five-axis: 500 (1102) three-axis: 800 (1763)	five-axis: 500 (1102) three-axis: 800 (1763)	Table Ø 500 or 730 five-axis: 800 (1764)
Tool magazine	piece	30 / 60 / 120 / 170 / 215 / 245	30 / 60 / 120 / 170 / 215 / 245	60 / 120 / 170 / 215
Control unit	Heidenhain / Siemens	TNC 640 / -	TNC 640 / 840D sl	TNC 640 / 840D sl
Automation: pallet size / number [mm / piece]		400 x 400 / 12 500 x 500 / 9 500 x 630 / 7		
Optional Spindle		28 000 (HSK-A63) / 36 / 36 CoolCore 36000 (HSK-E50) / 33 / 21.3		

* Longitudinal x lateral x vertical

Mikron MILL P 900

Best surface quality, high positioning
and contour accuracy



- + Strong 20,000 rpm Spindle for roughing and finishing
- + Longtime accuracy
- + Temperature-controlled machine base and cooling water
- + Best ergonomic
- + Shorter machine idle time
- + Big front door, adapted to the size of table



Main specifications		MILL P 900
Travel X, Y, Z *	mm (in)	900 x 600 x 450 (35.4 x 23.6 x 17.7)
Working Spindle (40 % ED, S6)	rpm / kW / Nm	20 000 (HSK-A63) / 36 / 120 36 000 (HSK-E50) / 33 / 21.3
Rapid traverse X, Y, Z	m /min (ipm)	30 (1181)
Tool magazine	piece	30 / 60
Automation: pallet size / number	mm / piece	Delphin 400 x 400 / 5
Max. load (incl. pallet)	kg (lbs)	1000 (2204)
Control unit	FANUC	31i-B

* Longitudinal x lateral x vertical

Mikron

HPM 1150U/1350U

HPM 1850U

Precise results, very good surface finish
on large parts and molds



- + Highest precision and best surface finish in this range
- + Compact solution even with integrated Automation
- + Great ergonomics
- + CNC choice upon application



Main specifications		HPM 1150U	HPM 1350U	HPM 1850U
Travel X, Y, Z *	mm (in)	1000 x 1150 x 700 / 895 (39.37 x 45.28 x 27.56 / 35.24)	1350 x 1150 x 700 / 895 (53.15 x 45.28 x 27.56 / 35.24)	1850 x 1400 x 720 / 905 (72.83 x 55.12 x 28.35 / 35.63)
Swiveling axis / tilting axis	°	+16 / -120 / n x 360	+16 / -120 / n x 360	-20 / +120 / n x 360
Working Spindle (40% ED, S6)	rpm / kW / Nm	15 000 (HSK-A63) / 38 / 193	15 000 (HSK-A63) / 38 / 193	15 000 (HSK-A63) / 38 / 193
Feed rate / rapid traverse X, Y, Z	m / min (ipm)	15 / 30 (590 / 1181)	15 / 32 (590 / 1260)	15 / 40 (590 / 1575)
Feed rate / rapid traverse (swiveling, rotating)	rpm	11, 40 / 20, 40	11, 40 / 20, 40	11, 30 / 20, 30
Clamping surface / max. load	mm / kg (lbs)	Ø 1000 / 1100 (2425)	Ø 1100 / 1600 (3527)	Ø 1600 / 5000 (11023)
Automation: pallet size / number	mm / piece	-	Ø 1000 / 3	1000 x 1250 / 3
Max. load	kg (lbs)	-	1000 / 1500 (2204 / 3307)	1750 (3858)
Control unit	Heidenhain / Siemens	iTNC 530 / 840D sl	iTNC 530 / 840D sl	iTNC 530 / 840D sl
Optional Spindles	24 000 (HSK-A63) / 30 / 75 15 000 (ISO-40) / 38 / 193 ** 10 000 (HSK-A100) / 34 / 324			
Tool magazines (piece)	30 / 46 / 92 (ISO-40) ** 30 / 46 / 92 / 238 (HSK-A63) ** 170 (HSK-A100) ** 46 / 120 / 238 (HSK-A63) *** 30 / 170 (HSK-A100) ***			

* Longitudinal x lateral x vertical ** HPM 1150U, 1350U *** HPM 1850U