

# micro-M10

## micro high speed milling



- 3 up to 5-axis micro high speed milling machine
- sheet dimension: 25x25x25mm up to 75x75x75mm
- machine frame made of granite (temperature-stable, shock absorbing)
- linear X-, Y- & Z-axis: lead screw or linear motor
- highly dynamic positioning
- application dependent tool configuration
- fully automatic tool measurement
- HF-spindle with 0.1 – 3 kW and up to 300'000rpm
- process observation and monitoring
- easy access to workspace
- machine frame integrated control-cabinet
- Optional CAD/CAM and network coupling
- Optional 5-axis robot handling system
- Optional vacuum cleaner
- made for 24-7 production
- low maintenance
- warranty 4'000 working hours

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# Technical Specifications

		Standard	Option
<b>General Information</b>			
machine dimensions (L x W x H)	[mm]	900x1000x1700	
table level	[mm]	1000	
weight	[kg]	1200	
electrical supply		3x400V/50-60Hz	country-specific
pneumatic supply	[bar]	min. 6	
integrated transport system		✓	
integrated control cabinet		✓	
operator panel		movable	rotatable
frequency converter		internal	
control cabinet		internal	
<b>Tool System</b>			
piece clamping		bench vice	tool palette
tool magazine / tool changer	pcs	-	10, 25, 50
cooling spray			✓
A-axis			✓
B-axis			✓
C-axis			✓
B- & C-axis			✓
5-axis robot			✓
water cooling system for HF-configuration			✓
air pressure monitoring and control			✓
water pressure monitoring and control			✓
process observation with CCD-camera			monochrom/color
network coupling			✓
CAD/CAM coupling			✓
<b>Mechanics</b>			
max. cutting dimension	[mm]	25x25x25	up to 75x75x75
X-, Y & Z-axis: guiding		guiding rails	air / water / oil bearing
X-, Y & Z-axis: drive		lead screw	linear motor
X-, Y & Z-axis: max. speed	[m/min]	9	30
X-, Y & Z-axis: measuring system	[µs]	+/- 0,5	up to +/- 0,01
<b>Security Cover</b>			
number of doors		1	
door opening		manual	pneumatic
interlock switch		✓	
workspace illumination			✓
<ul style="list-style-type: none"> <li>• machine setup time: 2 hours</li> <li>• factory training: free at Swiss Tec facility (additional charges for training at customer's facility)</li> </ul>			