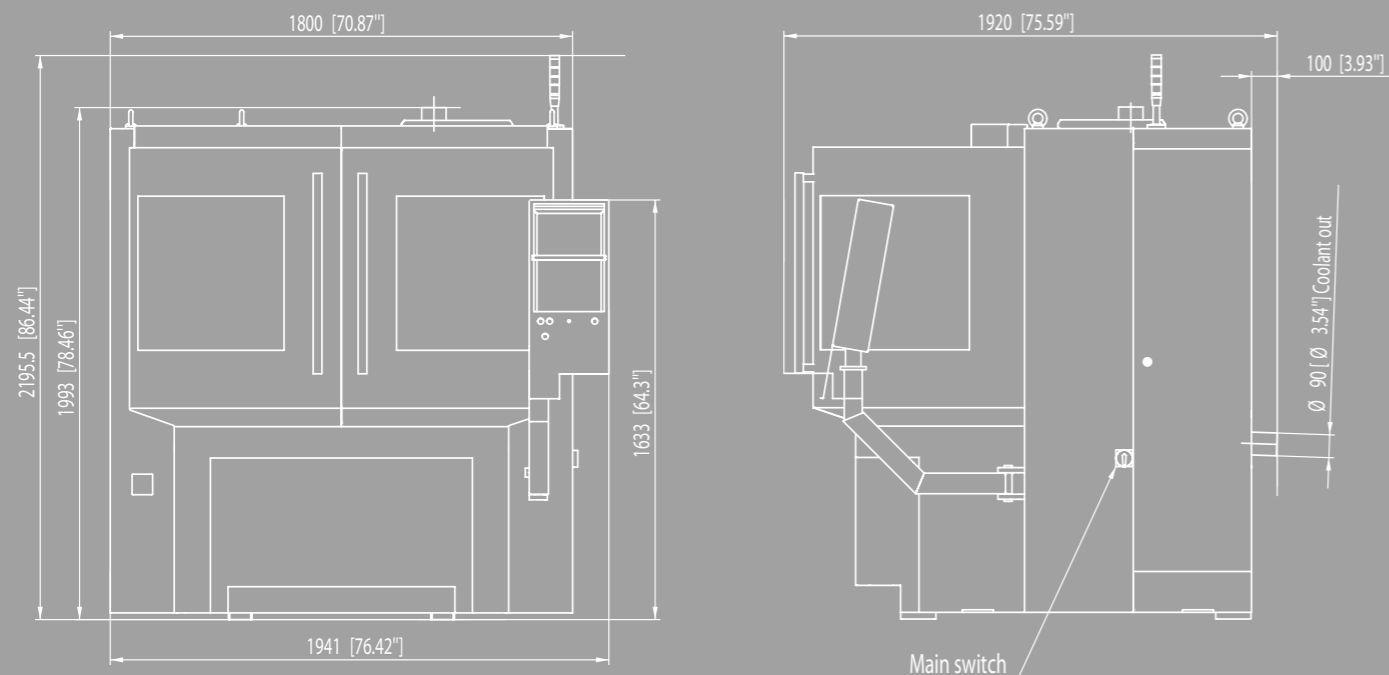


DEFINITIONS SPECIFICATIONS

RANGE		Interpolation	Circular interpolation B
CBN/Diamond wheel Ø 40 – 340 mm (1.1/2" – 13")		Linear interpolation W-U-X-Z	
Dressing wheel Ø 140 – 300 mm (5.1/2" – 12")			
CONTROL		GRINDING MOTORS & SPINDLES	
FANUC POWER MATE i		Dressing wheel motor	Fanuc Beta IS 0.5/6000
Acoustic emission sensor Dittel AE 6000		Constant surface speed	
X axis	Stroke	Dressing wheel spindle	Ø 80 mm (3.15"), direct drive,
	Fast travel	air barrier	
	Resolution	HSK50 holding system	
Z axis	Stroke	Grinding wheel motor	Fanuc Beta IS 0.5/6000
	Fast travel	Grinding wheel spindle	Ø 80 mm (3.15")
	Resolution	PerfectArbor™/ HSK50	
B axis	Stroke	DIMENSIONS	
	Fast travel	L x W x H	1820 x 1800 x 1990 mm (72" x 71" x 78")
	Resolution	Net weight	2500 Kg (5500 lbs)
W axis	Stroke	Compressed air	3 Bar (42 psi)
	Fast travel	Total power	9 kW
	Resolution	OPTIONS	
U axis	Stroke	>> other wheel arbor holding systems	
	Fast travel	>> coolant tank and filtration system	
	Resolution	* Specifications are subject to change without notice	
V axis	Stroke		
	Fast travel		
	Resolution		



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YOUR GRINDING SOLUTION

smart grinding



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ProfileSmart



smart grinding unlimited grinding solutions

The ProfileSmart is designed for the automatic dressing of CBN or Diamond grinding wheels with diameters of 40 to 340 mm (1.1/2" to 13.4") and is part of Rollomatic's unattended, high-precision tool production concept.

The programming software was developed on the proven platform of our VirtualGrind®Pro software and as such it is 100 % compatible with our wheel presetting/EasySetUp™ systems as well as our line of GrindSmart® series 5 and 6-axis CNC grinding machines.

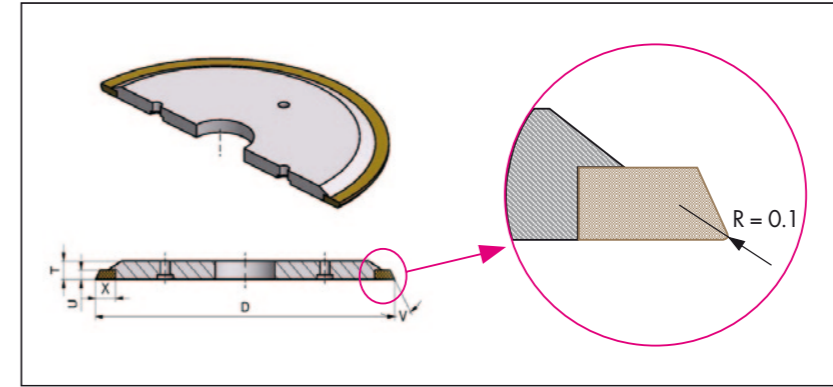
Grinding wheel shapes can either be preselected with the Rollomatic VirtualGrind®Pro software, or imported from a DXF file. The selected wheel parameters are then transferred via LAN network to the ProfileSmart. A 6-axis CNC control enables profiling of grinding wheels with complex geometries composed of angles and multiple radii. You can choose to dress the radii with either a contour type dressing method, or by rotating the B axis with synchronized oscillation.

The dressing cycle is controlled via feedback from the wheel-wear monitoring system. Once the preprogrammed wheel profile has been achieved, the machine cycle will stop. Dressing wheel wear is automatically compensated in order to maintain a constant peripheral speed for optimal dressing.

The ProfileSmart uses the same PerfectArbor™ wheel mounting system as our GrindSmart® series grinders (HSK is optional) to maintain runout values less than 0.002 mm and ensure excellent surface finish quality. The SiC dressing wheel is mounted on an HSK50 arbor system allowing for quick and accurate setting. Dressing parameter files can either be stored directly on the machine's hard drive or on a network server, allowing for fast setup when profiling repetitive wheel forms.



with the new ProfileSmart cnc grinding wheel dresser



Highlights

- 6-axis CNC grinding wheel dresser
- Fully automatic cycle with dressing wheel-wear monitoring
- Dressing of complex geometries with angles & radii
- Networking with the Rollomatic EasySetUp™ tool programming station
- Fanuc Control with touch screen

Fully automatic

- The size of the dressing wheel is constantly recorded and wear is automatically compensated

Optimal dressing cycle

- 3 sides of the grinding wheel can be reached in one clamping
- Contour movement or B axis rotation with synchronized oscillation for radius dressing
- Constant surface speed of the dressing wheel
- Constant dressing condition through stock removal control

Perfect runout

- Perfect concentricity of the grinding wheel with the PerfectArbor™ flange system
- Fine setting of finishing passes

Integrated software

- Pre-determine grinding wheel shapes with VirtualGrind®Pro
- Networking with the EasySetUp™ tool programming station
- Touch screen for direct parameter input

