



Technological evolution and unmatched performance

The ShapeSmart®NP3+ is a remarkable evolution of the previous precision cylindrical grinding models, which has made Rollomatic famous. This new model has been redesigned both ergonomically and technically to offer more features to tool manufacturers who are looking for a machine with the best value for quality, price and performance.

SHAPEMART® NP3+

PRECISION CYLINDRICAL GRINDING MACHINE FOR THE PREPARATION OF BLANKS

With a choice of 3 or 4 CNC axes, the ShapeSmart®NP3+ is a precision pinch and peel grinding machine for the preparation of cutting tool blanks such as endmills, drills and other stepped cylindrical tools, covering a range of diameters between 0.025 and 25.0 mm (.001" – 1.0").

This model is based on the method of peel grinding with simultaneous engagement of a roughing and a finishing wheel. This technology, invented by Rollomatic, guarantees unmatched performance in cylindrical grinding and achieves micron precision. In addition, a length ratio of up to 400x D can be achieved by this grinding concept.



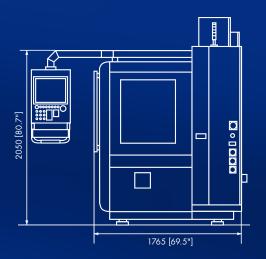


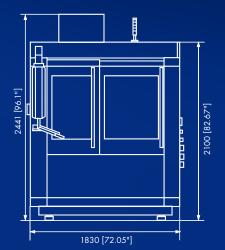






SHAPESMART®NP3+ TECHNICAL DATA (MM)







GRIN	DING RANGE	
Grinding		Ø 0.025 – 25.0 mm (.001"– 1")
Grinding length		330 mm (13")
CONTROL		FANUC 32iB
CNC axes 3		Y/Z/X Grinding station
Y axis	Stroke	350 mm (13.8")
	Encoder type	Rotary, on AC motor
	Resolution	0.0001 mm (.000004")
Zaxis	Stroke	100 mm (3.95")
	Encoder type	Rotary, on AC motor
	Resolution	0.0001 mm (.000004")
X axis	Stroke	29 mm (1.14")
	Encoder type	Absolute linear scale
	Resolution	0.00005 mm (.000002")
MAN	JAL LOADING	
Shank		Ø 1.0 – 25.0 mm (.04"– 1")
Overal	l length	20 – 350 mm (.787" – 13.8")
WOR	KHEAD	
Motor		0.70 kW (1 HP)
Rotation		300 – 3000 r.p.m. adjustable,
		converter
Clamping system		Schaublin W20
Clamping type		Pneumatic
	ing range	Ø 1.0 – 25.0 mm (.04"– 1")
	DING MOTOR &	& SPINDLE
Roughing Motor		8.5 kW (11 HP), Belt drive,
		Internal cooling
Roughing Spindle		Ø 100 mm (4"), PerfectArbor™
Rotation speed		max. 7600 r.p.m. adjustable
Roughing Wheel		Ø 250 mm (10")
Configuration		90° or 10°

ROBO	T LOAD & UNI	OAD (OPTION)
CNC axes 3		U _L /V _L /W _L Robot station
		(_L = Loader)
Shank		Ø 1.0 – 20.0 mm (.04"– .78")
Overall length		30 – 300 mm (1.2" – 12")
FINISI	HING STATION	(OPTION)
V axis	Stroke	29 mm (1.14")
	Encoder type	Absolute linear scale
	Resolution	0.00005 mm (.000002")
Finishing Motor		1.4 kW (2 HP)
		Direct drive, Internal cooling
Finishing Spindle		Ø 100 mm (4"), PerfectArbor™
Finishing Wheel		Ø 150 mm (6")
Rotation speed		max. 10000 r.p.m. adjustable
DIME	NSIONS	
LxW	x H	1830 x 1765 x 2441 mm
		(72" × 70" × 96")
Net weight		Approx. 3000 Kg (6614 lbs.)
Total Power		Maximum 15 kW,
		3 x 400V/25A

^{*} Specifications are subject to change without notice

