CNC246F - Fluting+Relieving



CNC246F - FLUTE AND O.D. RELIEF GRINDER

The CNC246F is a highly productive fully-automatic precision grinding machine designed for fluting and relieving carbide, HSS and other hard material cutting tools in the diameter range of 0.2 to 6.35 mm (.008" to .25"). Its unique features make it ideal for the production of drills, endmills, taps, reamers and dental tools in one clamping.

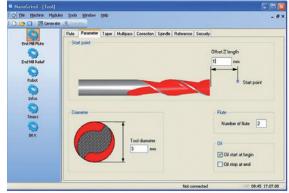
The CNC246F is a versatile grinder for all types of milling, drilling and boring, routing and de-burring applications in the industrial, medical, electronic, semiconductor, dental and woodworking industries.

SPECIAL FEATURES

Exclusive benefits of the CNC246F:

- Integrated 3-axis CNC high speed load/unload robot
- Convenient access to the operating area for easy use
- Modular tool support systems for maximum tool concentricity and flexibility
- Modular design of the grinding wheel spindles
- Rapid profiling of the grinding wheels on the spindle, outside the machine
- Quick setup with tool shank guidance and easy programming
- Extremely rigid bed provides high repeatability and excellent quality surface finish
- Compact layout with very short travel distances minimizing cycle times
- Uncomplicated design for minimum maintenance
- Fanuc PowerMate iH CNC control with Rollomatic grinding software, graphic interface and FluteCalc[®] simulation software ensure rapid setup and quick program change-over with secure database management





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SPECIFICATIONS

GRINDING RANGE

Grinding Ø range 0.2 - 6.35 mm (.008"-.25") Shank range 1.0 - 6.35 mm (.04"-.25") **Cutting length** 52 mm (2") Overall blank length 100 mm (4") hand loading

FLUTING SPINDEL

2.2 kW Power Rotation speed Grinding wheels

up to 6000 rpm \emptyset 80 – 150 mm (3"– 6")

RELIEVING SPINDEL (Option)

Power Rotation speed Grinding wheels 0.55 kW up to 6000 rpm \emptyset 80 – 100 mm (3"– 4")

CONTROL

Fanuc PowerMate iH Windows XP user's interface, programming with graphic assistance

X axis	Stroke	58 mm (2.3")
	Fast travel	6 m/min (20 ft/min)
	Resolution	0.0001 mm (Less than .00001")
Z axis	Stroke	80 mm (3.15")
	Fast travel	6 m/min (20 ft/min)
	Resolution	0.0001 mm (Less than .00001")
C axis	Stroke	continuous
	Fast rotation	10'000°/min
	Resolution	0.0001°

U axis	Stroke
	Fast travel
	Resolution
V axis	Stroke
	Fast travel
	Resolution
W axis	Stroke
	Fast travel
	Resolution

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174 mm (6.85") 7 m/min (23 ft/min) 0.0001 mm (Less than .00001") 160 mm (6.3") 7 m/min (23 ft/min) 0.0001 mm (Less than .00001") 335 mm (13.2") 35 m/min (115 ft/min) 0.0001 mm (Less than .00001")

CLAMPING

Collet type: B8

ROBOT LOAD & UNLOAD

Number of tools Shank diameter Overall length

500 Ø max 3.175 mm (1/8") 300 Ø max 6.35 mm (1/4") 1.0 - 6.35 mm (.04" - .25")76.2 mm (3")

High precision half-moon or "V" shape holder

TOOL SUPPORT

Shank guide Cutting portion support Steady rest half-moon or "V" shape

MACHINE

LxWxH

Total power

Weight

2025 x 1330 x 1960 mm (80" x 53" x 77") 1400 kg (3087 lbs) 6 kW

HYDRAULIC

Oil tank Oil pressure

10 liters (2.6 US Gal.) 12 bars (174 psi)

* Specifications are subject to change without notice

