



CNC Centerless Grinding Machine

High precision & mass production of
small-diameter parts

Compact Machine



TO-3020T-TF (CBN)

Features of TO-3020T-TF (CBN)

Low cost
Improved by downsizing

Energy saving
Optimum motor capacity for small-diameter part grinding

High precision
Compact yet high accuracy and capacity

Space saving
70% reduction compared with our existing models

Overall cover
- Protection from sharp temperature changes
- Safe and comfortable working environment

Machine Specifications

Standard Attachments

Selectable and Optional Attachments

Model		TO-3020T-TF (CBN)
Grinding capability	Grinding diameter	φ1~5 mm
	Grinding length	200 mm
Scale feedback		Selectable (0.1 μm infeed available)
Grinding wheel	Dimensions	φ305×205×φ177.8
	Min. diameter	φ290 (CBN)
	Max. peripheral speed	2700 m/min
	Motor capacity	7.5 kW (3-phase induction motor)
Regulating wheel	Dimensions	φ280×205×φ152.4
	Min. diameter	φ230
	Speed	1~750 rpm
	Motor capacity	2.2 kW (NC spindle motor)
Machine dimensions		W2130 mmxD1390 mmxH1700 mm
Machine weight		3000 kg

Standard
Grinding wheel auto dress function
Grinding wheel rotary dresser
Grinding wheel dress AE sensor
Regulating wheel auto dress function
Regulating wheel rotary dresser
Drain & stop function
Automatic lubrication unit
NC command with 0.1 μm resolution
Manual pulse handle
Overall cover
Dial indicator for swivel measurement
Standard instruction manual (1 copy)

Required accessories
Grinding wheel
Regulating wheel
Grinding wheel diamond dresser
Regulating wheel diamond dresser
Work rest
Blade
Upper retainer

Selectable
Scale feedback unit
Jib crane
Wheel change jig
Round sub tank
Mist collector
Coolant flow meter
Balance measuring unit
Work light
Specified color
NC maintenance contract (overseas)
Optional
Coolant filtration unit
Feeder
Unloader
Automatic measuring instrument

Accessories are available to meet a variety of needs.

The specifications are subject to change without prior notice due to constant improvements.

<p>CNC centerless grinding machines and other special-purpose machines and equipment</p>  <p>Tohshin Technical Co., Ltd. 5-1-1 Kokufudai, Komatsu City, Ishikawa 923-0061, Japan TEL 81-761-47-4222 FAX 81-761-47-4221 URL http://www.tohshin-inc.co.jp/english/</p>	<p>For further inquiries, contact:</p>
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