



CNC Centerless Grinding Machine

**High cost performance machine with
efficient multi-functional options**

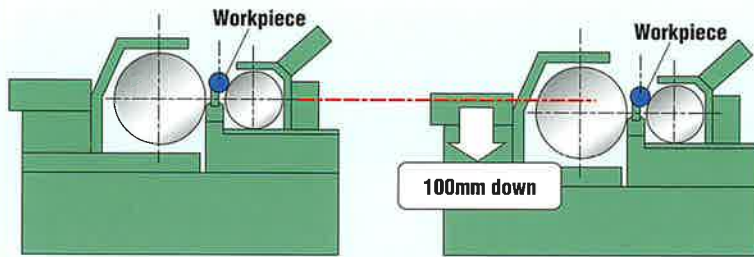
Improved operability with price reduction compared with conventional models



TO-6045II/6040II/6030II

Features of 60II Series

- 1 NC unit provided as a standard feature**
Improved operability with the center height lowered by 100 mm



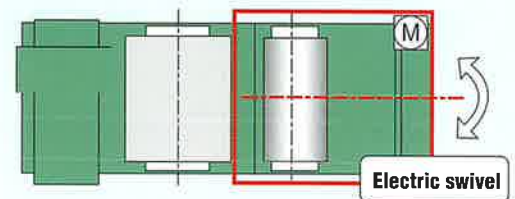
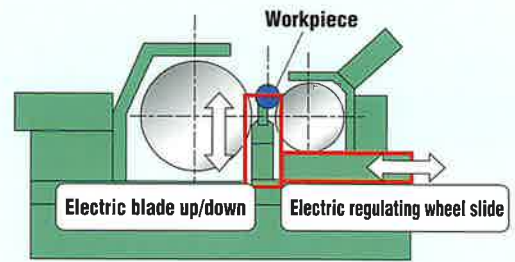
2 Environmentally friendly

- (1) Starting current cutback by the use of an NC spindle motor (option)
- (2) Utilization of regenerative energy from regulating wheel power
- (3) Industrial waste reduction by increasing the wheel usage rate
- (4) Reduction in air consumption by auto air OFF function (option)

3 Multi-functional

- (1) Wheel truing with standard 25 point data possible (grinding wheel, regulating wheel) * No template required
- (2) Multi lead dress function provided as a standard feature
- (3) Constant grinding wheel speed control (optional)
- (4) Variable grinding wheel speed control (optional)

- 4 New type setup support system (optional)**
Max. NC 10 axes



- (1) Electric regulating wheel slide
- (2) Electric blade up/down
- (3) Setup support function

〈Option〉

- Electric swivel
- Type registration function

Machine Specifications

		TO-6045 II T	TO-6040 II T	TO-6030 II T
Grinding capacity	Grinding diameter (standard)	φ3 - 120 mm (φ40 - 160 mm)		
	Grinding diameter (large)	φ50 - 170 mm (φ90 - 210 mm)		
	Grinding diameter (extra large)	φ100 - 220 mm (φ140 - 260 mm)		
	Grinding length (infeed)	450 mm	400 mm	300 mm
Grinding wheel	Dimensions	φ610×455×φ304.8 (type 7A)	φ610×405×φ304.8	φ610×305×φ304.8
	Min. diameter	φ430 mm		
	Max. peripheral speed	2700 m/min		
	Motor capacity	37 kW (30 kW, 22 kW)	30 kW (37 kW, 22 kW)	22 kW (30 kW, 15 kW)
Regulating wheel	Dimensions	φ330×455×φ203.2 (type 7A)	φ330×405×φ203.2	φ330×305×φ203.2
	Min. diameter	φ270 mm		
	Drive system	Driven by belt		
	Speed	1 - 500 rpm (NC spindle motor)		
	Motor capacity	5.5 kW	5.5 kW	3.7 kW
Machine dimensions		W2880×D1550×H2000	W2880×D1550×H2000	W2880×D1400×H2000
Machine weight		6500 kg	6300 kg	6100 kg
Electric capacity		45 kVA	40 kVA	35 kVA
Air consumption		160 N ℓ/min		

Standard Attachments

Attachments and Functions Included
Automatic lubrication unit
Grinding wheel pattern dress function
Regulating wheel pattern dress function
Timer wheel drain & power shut-off function
NC command with 0.1 μm resolution
Manual pulse handle
Standard coolant splash cover
Dial indicator for swivel measurement
Multi lead dress function
Leveling plates
Touch panel type color LCD
Emergency return function
Standard color
Wheel usage limit indication

Attachment

Attachments not Included	
Grinding wheel	Regulating wheel
Diamond tool	Work rest
Blade	Coolant filtration unit
Upper retainer	Wheel change jig
Wheel flange angle graduation	Special color
	Working platform
Optional Functions (Special Attachments)	
Grinding wheel rotary dresser	Regulating wheel rotary dresser
Wheel spindle automatic balancer	Automatic measuring instrument
Electric swivel	Electric blade up/down
Electric regulating wheel slide	Mist collector
Setup support function	Type registration function
Scale feedback unit	Running dress function
Coolant flow meter	Jib crane
Constant wheel speed function	Grinding wheel dress contact check sensor

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

A number of optional functions are available to meet a variety of needs.

CNC centerless grinding machines and other special-purpose machines and equipment



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