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Grinding Our Dream

Innovation on the fundamental of grinding.
Create the new chapter of grinding craft.



GO-354 & 356 CNC Cylindrical Grinding Machine

Designed by polaris 2021-06 +886-4-24517070

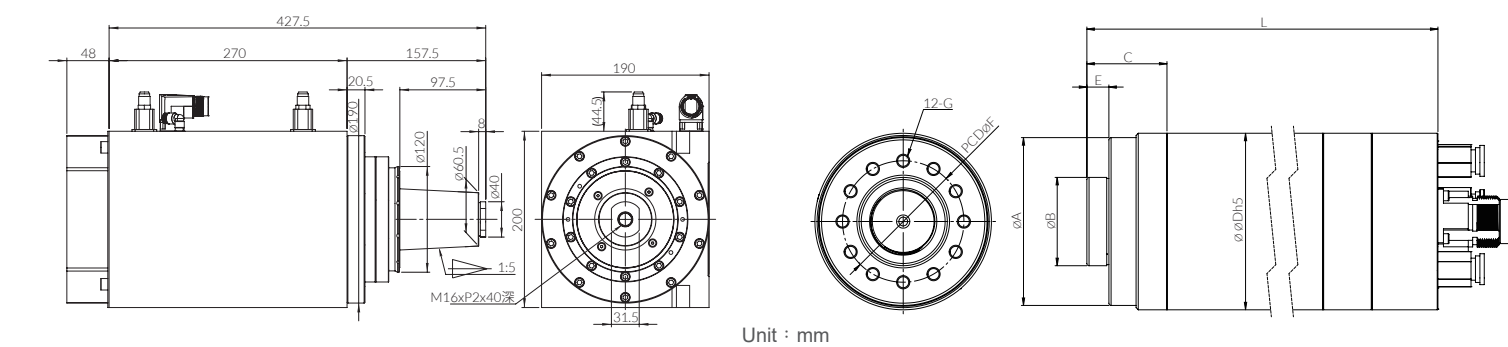
Machnie Specification

Type	GO-354	GO-356
Distance between centers	400 mm	650 mm
Grinding length	400 mm	650 mm
Height of center	175 mm	
Max. weight of workpiece	80 kg	
Cross slide: X-axis		
Max. travel	250 mm	
Feed rate	0.001 - 10000 mm/min	
Longitudinal slide: Z-axis		
Max. travel	620 mm	880 mm
Feed rate	0.001 - 10000 mm/min	
Wheel head		
Direct-drive motor power	7.5 kw	12 kw
Grinding wheel specifications(right)	510 x 60 x 203 mm	
Linear speed of grinding wheel	50 - 60 m/s	
Work head		
Speed range	1 - 1000 rpm	
Drive motor power(Fanuc)	1.2 kw	
Grinding circularity accuracy	<0.8μm	
Fitting taper	MT4	MT4 / MT5
Tailstock		
Taper	MT3 / MT4	MT4
Quill travel	35 mm (1.37")	
Quill diameter	50 mm	
Micrometric adjustment for taper grinding	±20μm	
Control system	Fanuc oi-TF Plus	

Built-in Spindle Specification

Type	Taper	Installation Type	Max. Rotate Speed (rpm)	Voltage (V)	Current (A)	Power (kW)
TO140-240	1:5	Horizontal	3200	220	28	7.5

Type	Lubricant	rpm	øA (mm)	øB (mm)	C (mm)	øD (mm)	E (mm)	F (mm)	G (mm)	L (mm)	Voltage (V)	S1Current (A)	S1Power (kW)	S1Torque (Nm)
CF-80-160	Grease	16000	76	40	36.5	80	10	55	M6xP1	265.5	220/380	3.7/2.6	1	0.62



GO-354 & 356 CNC Cylindrical Grinding Machine

“ I'm the **MANUFACTURER**, also the **END-USER**. ”

User-Centered Design, UCD is our basic concept to research and manufacture every grinding equipment and also the new design.

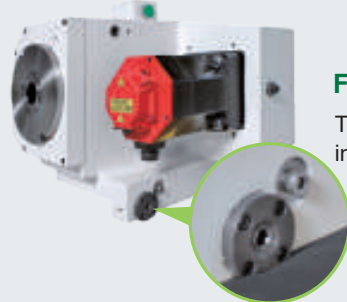
Machine feature

- Angular type/Plunge type grinding.
- High rigidity structure, to make sure the best grinding stability.
- X,Z axis structure is V type and planar type hard track.
- Equip with DITTEL Acoustics Monitoring System
- Tailstock have air buoyance, can adjust more quick and easy.
- Thread grinding and non-circular grinding. (option installation)
- The highest grinding speed can reach 60M/s.
- Circularity reach 0.8 μ m.
- The machine equip FANUC Oi-TF Plus controller.
- Multiple type of automatic loading and unloading. (option installation)
- Online measure system. (option installation)
- Wheel balancers to output grinding wheel's state. (option installation)



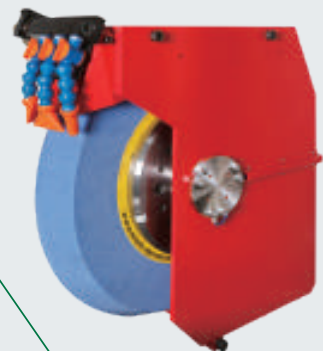
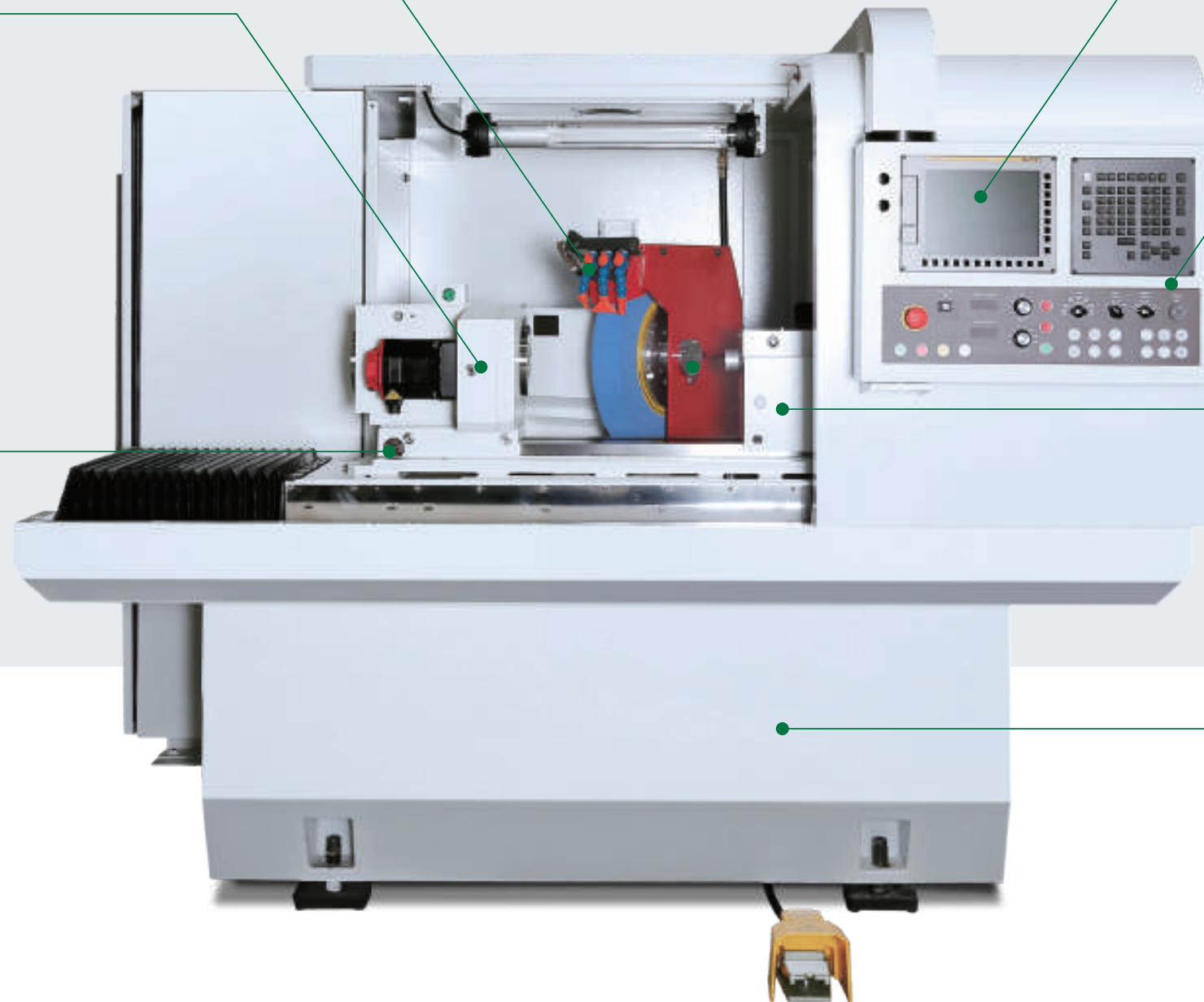
Workhead

With special software, and C-axis can do the non-circular grinding and thread grinding. Air to blow out the dust or steam to declined the probability of spindle jamming or rustiness.



Fine Adjustment

The fine adjustment allows for taper corrections in the 1 μ m range. (Total range \pm 20 μ m)



Wheel head

Use built-in spindle, high torque, high stability, can follow customer demand to choose vertical or 30°, wheel linear speed can raise to 60m/s. (Wheel dimension 510 x 60 x 203)



Customization Built-in Acoustics Monitoring System

Reduce wheel dressing cycle time, improve wheel dressing efficiency and stability. Prevent wheel crash, increase spindle and wheel service life. By monitoring grinding quality, assured machining accuracy.



Pictogramming

Original pictogramming based on FANUC system , all controls are clearly and engonomically arranged,an important role is played by the manual control unit ,which facilitate setup warning,prevent new wrokers keyin error,so new wrokers also can finish setup procedure and manufacture. And built-in security settings and error warning,prevent new wrokers keyin error,so new wrokers also can finish setup procedure and manufacture.

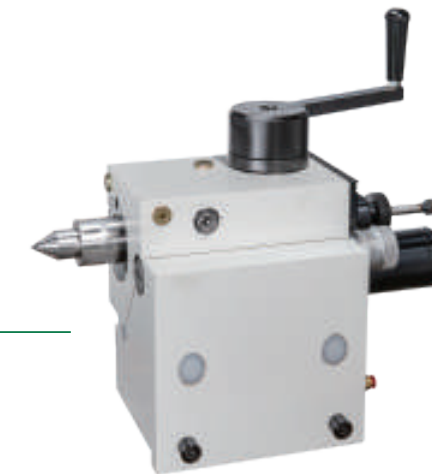


Customization Operate Panel

For user's idiomatic gestures to design the best operate panel.

Handwheel Control System

The handwheel dry running function is convenient for users to dry running and avoid the danger of collision.



Tailstock

The generously dimensioned barrel, designed for the use of Morse 4 taper centers, glides in the tailstock housing. The center pressure can be adjusted with the delicate precision required for grinding high-precisions workpieces. The fine adjustment enables taper corrections in the range below 1 μ m when grinding between centers. A pneumatic lifting process facilitates movement during setup and resting.



Massive Base

High rigidity structure, to make sure the best grinding stability.



Multifaceted processing, Once and For All

