

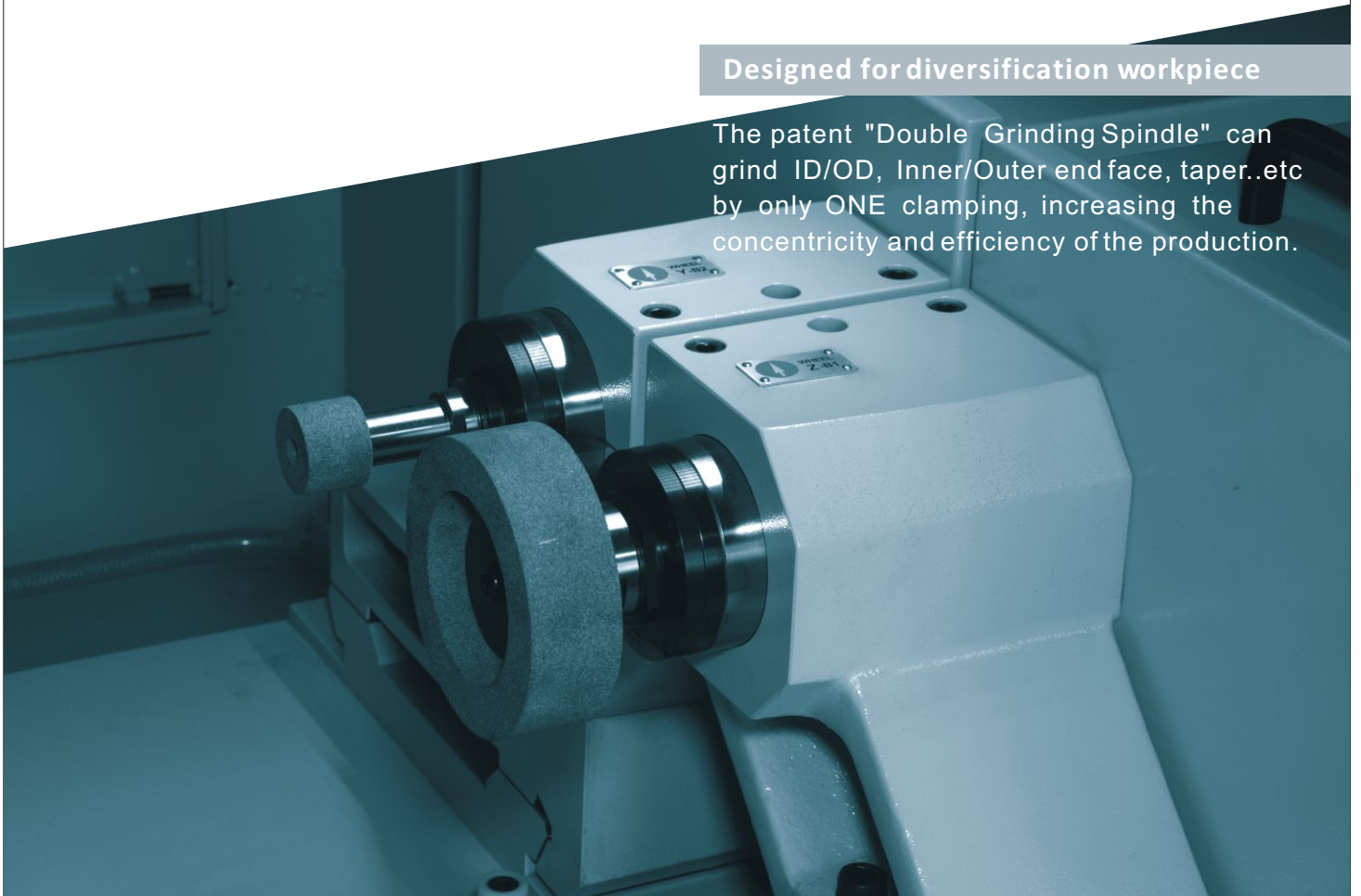


## D1 CNC Multi-Function (ID / OD) Grinder



### Designed for diversification workpiece

The patent "Double Grinding Spindle" can grind ID/OD, Inner/Outer end face, taper..etc by only ONE clamping, increasing the concentricity and efficiency of the production.



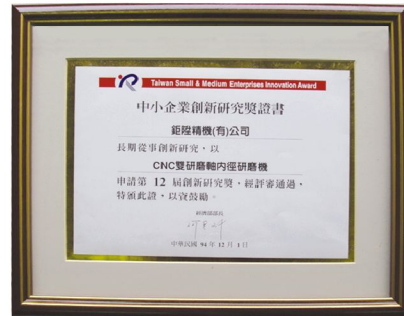
# D1 CNC Multi-Function (ID / OD) Grinder



## Award

The model D1 - CNC Multi-Function ID/OD Grinder had won "12th Small and Medium Enterprise Innovation Research Award", bestowed by the Ministry of Economic Affairs.

Taiwan patents:  
209526、202534、M254300、M340885 etc.  
China patents:  
ZL02237348.9、ZL200420002571.0



## User-friendly operation interface



Our outstanding R&D team, standing on the needs of the users to design all kinds of machining possibility for various workpiece. The flexible programming software, giving users diverse solutions.

## Rapid Grinding Design

Besides dimension precision grinding system, the patent design "automatic sensing device" can quickly detect the contact surface of the ID/OD, inner/outer end face for rapid and small amount face grinding. It is significant saving in processing time, and increasing machining efficiency.



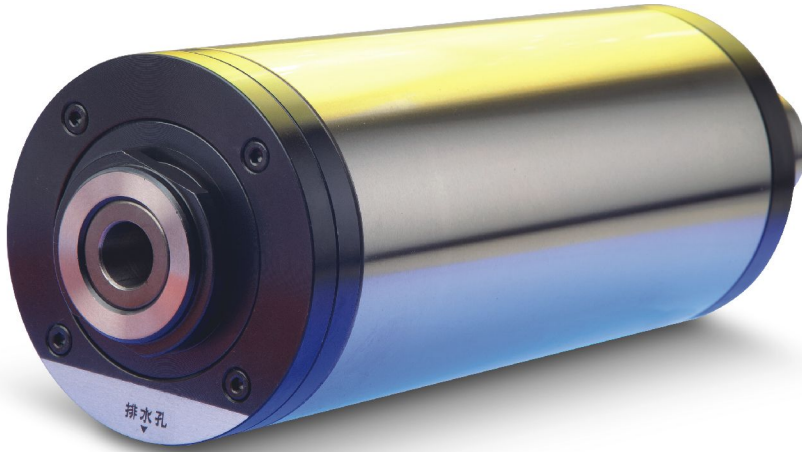
## High stability of Poly Granite Base

We also offer you a poly granite base as optional. The base provide a excellent performance of low vibration and low heat transmission.





## High Speed Grinding Spindles for Grinders



### High rigidity, high efficiency and excellent performance

- Grinding wheel spindles (belt type) are available.
- Every spindle undergo a rigorous balancing correction and testing to ensure its best quality and performance.
- The patent waterproof design is to extend the grinding wheel spindle life time.
- With decades of grinding wheel spindle manufacturing experiences, we keep studying the new technology and then providing spindles with high rigidity, efficiency and quality for users.

### Spindle specifications

r.p.m.	8,000	10,000 / 15,000 20,000 / 30,000	40,000 / 50,000
Bearing Material	Steel ball	Steel ball	Ceramic ball
Bearing lubrication	Grease	Grease	Grease
Transmission	Belt	Belt	Belt
Taper deflection	0.002 mm	0.002 mm	0.002 mm
Test bar deflection	0.003 mm	0.003 mm	0.003 mm
Installation	Horizontal	Horizontal	Horizontal
Diameter	90 mm	90 mm	90 mm
Weight	15.9kgs	11kgs	11kgs



## Specifications

Model	D1	D2
Swivel over table dia.	∅ 500 mm	∅ 320 mm
Workhead Speed	0 - 1,000 r.p.m.	0 - 1,000 r.p.m.
Workhead swivel by manual	+30° & -5°	+15° & -5°
X-axis max. travel	350 mm	450 mm
Y axis max. travel	350+250 mm	350 mm
Z-axis max. travel	350+250 mm	350 mm
Grinding capacity	∅ 2~400 mm	∅ 2~320 mm
Max. grinding diameter	∅ 320 mm	∅ 320 mm
Max. grinding depth	250 mm	250 mm
Max. grinding faces	16	16
Max. workpiece weight	50 kgs	300 kgs
X-axis speed	0~10,000 mm / min	0~10,000 mm / min
Y-axis speed	0~10,000 mm / min	0~10,000 mm / min
Z-axis speed	0~10,000 mm / min	0~10,000 mm / min
X-axis min. travel unit	0.0001 mm	0.0001 mm
Y-axis min. travel unit	0.0001 mm	0.0001 mm
Z axis min. travel unit	0.0001 mm	0.0001 mm
Workhead motor	1.5 kw, 4p	1.5 kw, 4p
Y-axis grinding wheel motor	2.2 kw, 2p	2.2 kw, 2p
Z-axis grinding wheel motor	2.2 kw, 2p	2.2 kw, 2p
Electricity requirement	15 kw	15 kw
Machine Dimensions	2370(W) x 1880(D) x 1830(H) mm	3610(W) x 2010(D) x 1850(H) mm
Space requirement for installation	3450(W) x 2870(D) x 2350(H) mm	4590(W) x 2960(D) x 2370(H) mm
Machine weight	4,000 kgs	6,100 kgs



## Grinder Specifications

### Specifications

Model	S10-F	S10
Swivel over table dia.	∅ 400 mm	∅ 400 mm
Workhead Speed	0 - 1,000 r.p.m.	0 - 1,000 r.p.m.
Workhead swivel by manual	+30° & -5°	+30° & -5°
X-axis max. travel	200mm	200mm
Z-axis max. travel	330+200 mm	330+200 mm
Grinding capacity	∅ 2~300 mm	∅ 2~300 mm
Max. grinding diameter	∅ 60 mm	∅ 60 mm
Max. grinding depth	200 mm	200 mm
Max. grinding faces	8	1
Max. workpiece weight	45 kgs	45 kgs
X-axis speed	0~10,000 mm / min	0~10,000 mm / min
Z-axis speed	0~10,000 mm / min	0~10,000 mm / min
X-axis min. travel unit	0.0001 mm	0.001 mm
Z axis min. travel unit	0.0001 mm	0.001 mm
Workhead motor	1.5 kw, 4p	1.5 kw, 4p
Z-axis grinding wheel motor	2.2 kw, 2p	2.2 kw, 2p
Electricity requirement	10kw	10 kw
Machine Dimensions	2260(W) x 1300(D) x 1810(H) mm	2260(W) x 1590(D) x 1620(H) mm
Space requirement for installation	3370(W) x 2300(D) x 2410(H) mm	2930(W) x 2060(D) x 2140(H) mm
Machine weight	3,000 kgs	3,000 kgs



### Standard Accessories

Model	D1	D2	S10-F	S10
FANUC control system	⊙	⊙	⊙	—
OMRON control system	—	—	—	⊙
X / Y / Z-axis FANUC servo motor	⊙	⊙	—	—
X / Z-axis FANUC servo motor	—	—	⊙	—
X / Z-axis OMRON servo motor	—	—	—	⊙
X / Y / Z-axis Linear Guideway	⊙	⊙	—	—
X / Z-axis Linear Guideway	—	—	⊙	⊙
X / Y / Z-axis ball screw	⊙	⊙	—	—
X / Z-axis ball screw	—	—	⊙	⊙
Automatic sensing device	⊙	⊙	⊙	—
Stationary dressing device	4 - Way	4 - Way	4 - Way	1 - Way
Active lubrication mechanism	⊙	⊙	⊙	⊙
Splash Guard	Full	Full	Semi	Semi
Working lamp	⊙	⊙	⊙	⊙
Warning lamp (3 colors)	⊙	⊙	⊙	⊙
Toolbox	⊙	⊙	⊙	⊙

### Optional Accessories

Hydraulic chuck	Oil mist filter
Manual chuck	Steady rest (for D2)
Magnetic & paper filter	Poly granite base - (for D1)
Face grinding attachment	
Full splash guard	

© The above information is based on technical levels of our machine at the time this brochure goes to print. We reserve the right to develop our machines technically and make design modifications. This means that the functions, dimensions, weights, colors, etc. of machines supplied would differ. Diverse application possibilities of our machines depend on technical equipment specifically requested by customers.