



S10-F CNC Internal Grinder



Multiple faces grinding

Equipped with FANUC CNC control system, for grinding "ID", "end face" and "taper" up to 8 different faces in ONE clamping.





Digitized Internal Grinder

Due to the digitized operation of global machine tool industry, our CNC and NC Internal Grinder equipped with advanced computer numerical control system. In comparison with conventional hydraulic internal grinder, our CNC and NC type grinder have higher stability and accuracy, very suitable for a mass and automation production.



Solid body structure

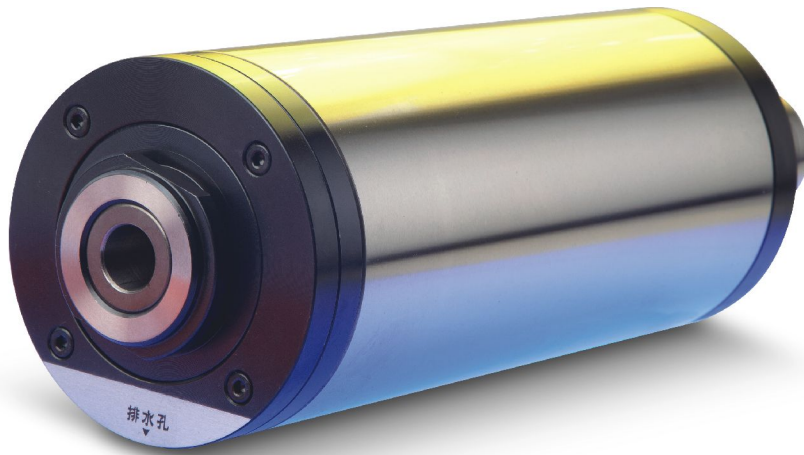
The body structure adopted one piece balanced design, high density cast iron with precision machined. The deformation of the machine can be avoided.

Uniaxial movement

On the structure of its axial movement is away from the conventional cross stacking movement. Adopting uniaxial movement to avoid the deviation occurred by the vibration of cross stacking movement, ensuring the stability and precision during the grinding processing.



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.