

Column type



Optimized Structure

The main structure is analyzed by the finite element technique with different combination of external forces to ensure the stiffness of the machine. The cross feed of spindle head is designed with dual-driven [Option] and driven at the center of the gravity to minimize vibration and increasing high grinding ability.



Oversize Roller Type Guideways

Cross & Vertical equipped with the oversize roller type guideways reinforce the precision and rigidity of the machine.



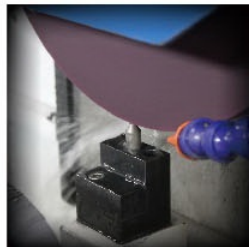
Precision Spindle Design

The CP4 high-precision spindle with pre-stressed adjustment increases the rigidity and precision of machine during grinding.



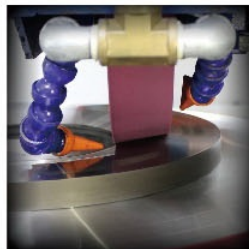
Excellent Operation

Self-induced graphically-controlled interface with intuitively finger-touched buttons makes the control of the machine easier and allows an operator to input parameters through screen-touched buttons easily. All programs and figures are developed by the PERFECT to ensure the quality.



Auto Dressing & Compensating

The standard function of auto dressing and compensation can reduce human power and increasing more processing efficiency.



Multi-Functional Grinding and Dressing [Option]

The multi-functional grinding and dressing parameters can reduce operators' technical threshold.



Customized Function Selection [Option]

Axial-controlled functions can be selected according to different grinding condition, and the program and graphs can be developed by the requests from customers. An optional over head auto dressing and compensation system is offered for increasing more processing efficiency. An optional grinder self-balanced device is offered to provide superior grinding accuracy and finishing.

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普發工業股份有限公司

PERFECT MACHINE CO., LTD.

40852 台中市南屯區精科七路6號

No.6, Jingke 7th Road, Nantun District 40852, Taichung, TAIWAN

Tel: +886-4-23503099 | Fax: +886-4-23503066



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www.perfectmachine.com.tw
info@perfectmachine.com.tw



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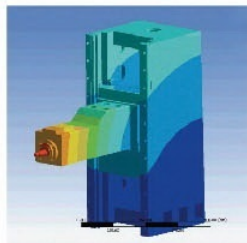
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ROTARY
series

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Saddle type



Optimized Structure

The major parts are manufactured from high quality cast iron combined with an outstanding structural design. Major parts are stress relieved to ensure maximum rigidity, stability and machining accuracy.



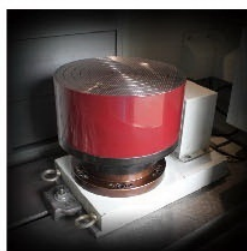
Turcite-B on Slideways

The X, Z axes slideways are coated with Turcite-B for stable movement and long term accuracy.



Precision Spindle Design

The CP4 high-precision spindle with pre-stressed adjustment increases the rigidity and precision of machine during grinding.



High Precision Rotary Table

High precision rotary base design and cross axis uses high precision ball screw transmission system to get the best precision.



Auto Crossing Stroke Adjustment

Auto crossing stroke adjustment of cross feed make operating more convenience.



Semi Enclosed Splash Shield

Semi enclosed splash shield make operating more cleaning and safety.



Auto Down Feed Control [OPTION]

Available to equip with an auto down feed control system (AD5) for greatly increasing operational convenience.

SPECIFICATIONS			SADDLE TYPE		COLUMN TYPE
			PFG-200R PFG-250R	PFG-300R PFG-400R	PFG-500R PFG-600R
Travel	Table diameter	mm	200 250	300 400	500 600
	Max. grinding radius	mm	130 140	190 240	310 360
	Max. distance center of spindle to rotary table	mm	400 [Option: 500]	300 [Option: 400]	500
Feeding	Rotary table speed	rpm	20~110	20~110	10~120
	Rapid power cross feed	mm/min	1000	1000	900
	Rapid power head elevation	mm/min	550 [Option]	550 [Option]	300
	Auto down feed	mm/time	0.001~0.999 [Option]	0.001~0.999 [Option]	0.001~0.999
	Cross feed on hand wheel	mm	5/rev., 0.02/gra.	5/rev., 0.02/gra.	0.001
Motor	Vertical feed on hand wheel	mm	2/rev., 0.01/gra.	2/rev., 0.01/gra.	0.001
	Spindle motor	HP	2	5	10 [Option: 15]
	Motor for cross feed		1/5HP AC Motor	400W AC Servo Motor	750W AC Servo Motor
	Motor for Rapid power up/down		1/5HP AC motor [Option]	1/5HP AC motor [Option]	-
	Motor for Auto down feed		2A Stepping motor [Option]	2A Stepping motor [Option]	1KW AC Servo motor
Wheel	Spindle motor for Rotary table	W	200W AC Motor	200W AC Motor 750W AC Servo Motor	3KW AC Servo motor
	Speed	rpm	3500 [60Hz] / 2900 [50Hz]	1750 [60Hz] / 1450 [50Hz]	1750[60Hz] / 1450[50Hz]
	Dimension	mm	180x13x31.75	355x38x127	405x50x127
Weight	Machine net weight	kg	1300	1840 1890	5500 5600
	Machine gross weight	kg	1500	2150 2200	6220 6320
Dimension	Machine dimension LxWxH	mm	1500x1650x1800	1850x1900x2100	1860x2930x2080
	Packing dimension LxWxH	cm	230x165x220	230x197x220	230x390x242



PFG-400R / 400mm Table Diameter



PFG-600R / 600mm Table Diameter

OPTIONAL ACCESSORIES

(Item 1~4 for Saddle type only)

1. Round shape electro magnetic chuck with chuck controller (for 200/250/300R)
2. Micro feed for cross/vertical feed (0.001mm/gra.)
3. Power rapid up/down system
4. NC Auto down feed system (AD5 type)
5. Digital readout unit
6. Spindle motor inverter
7. Coolant system
8. (Dust) Suction system
9. (Dust) Suction with coolant system
10. Magnetic separator with coolant system
11. Auto paper strip filter with coolant system
12. Auto paper strip filter and magnetic separator with coolant system



STANDARD ACCESSORIES

1. Grinding wheel
2. Wheel flange
3. Flange extractor
4. Wheel balancing arbor
5. Wheel balancing base
6. Wheel dresser with diamond
7. Leveling screw and plates
8. Tool box and tools
9. Working lamp
10. Paraller dresser (Manual type)
11. Semi enclosed splash shield (For 200R/250R/300R/400R)
12. Round shape magnetic chuck
13. Automatic crossing stroke adjustment by control panel switch
14. Spindle motor inverter (For 500R/600R only)
15. Enclosed splash shield (For 500R/600R only)

