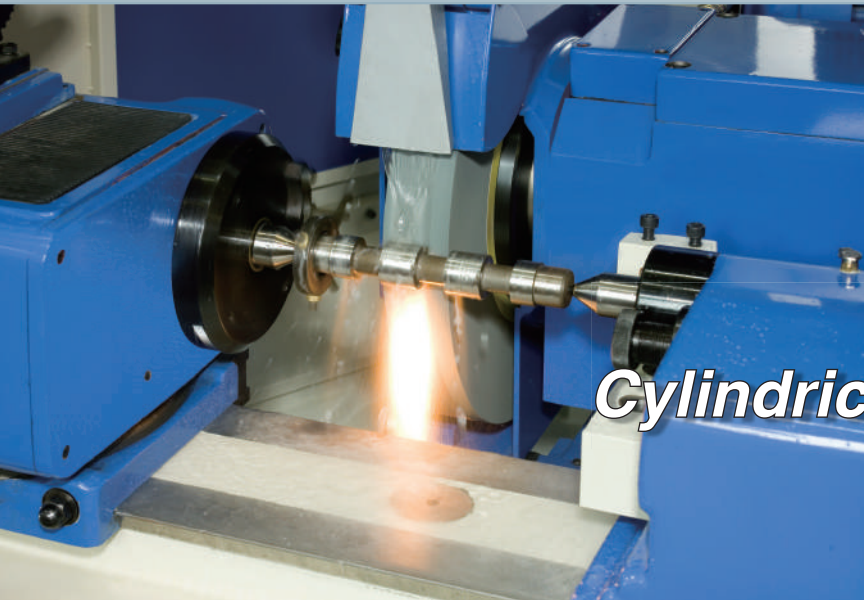




*Manual / NC / CNC
Cylindrical Grinding Machine*

High Rigid Structure !

Cylindrical / Universal Grinding Machine

Stability! High Precision!
Cost Efficiency ! Outstanding !



JHU-2720H



JHU-27 Series

Grinding Diameter $\varnothing 250\text{mm}$

Grinding Length 600-2000mm

JHU-35 Series

Grinding Diameter $\varnothing 330\text{mm}$

Grinding Length 600-2000mm



With Internal Attachment
(Universal Cylindrical Standard Acc.)

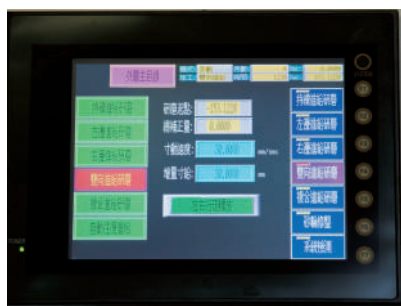


Feeding Mode

- Manual Grinding Feeding
- Z Axis Hydraulic Movement
/ Manual Movement

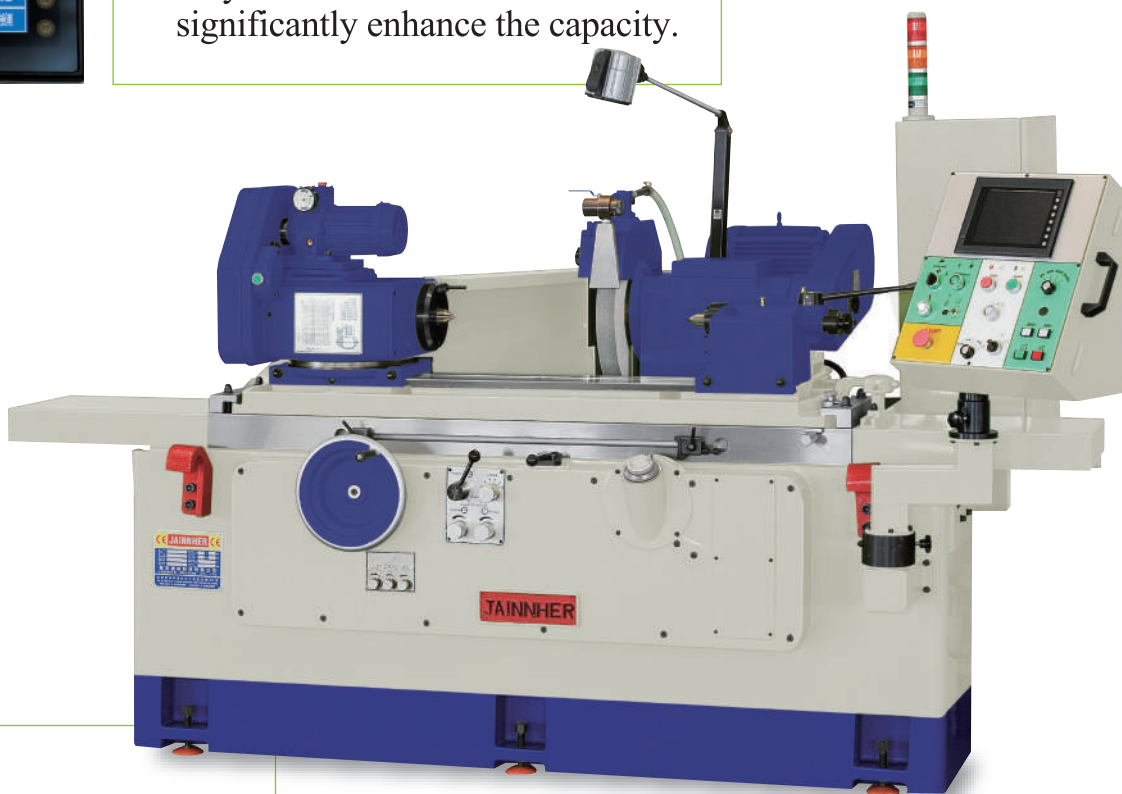
NC Cylindrical Grinding Machine

Conversational Operation Interface !
More Easy for High Precision Grinding !



■ NC Controller

Using conversational operation interface, with touch screen for maximum operational convenience, easy to learn and understand and significantly enhance the capacity.



JHU-27NC1 Series

Grinding Diameter $\varnothing 250\text{mm}$

Grinding Length 600-2000mm

JHU-35NC1 Series

Grinding Diameter $\varnothing 330\text{mm}$

Grinding Length 600-2000mm

■ Feeding Mode

1 Axis

- X Axis Servo Motor
- Z Axis Hydraulic Movement
- Automatic Grinding

CNC Cylindrical Grinding Machine

High Precision Cylindrical Grinding Machine Benchmark !
High Performance CNC Control !



JHU-27 CNC Series

Grinding Diameter $\varnothing 250\text{mm}$

Grinding Length 600-2000mm

JHU-35 CNC Series

Grinding Diameter $\varnothing 330\text{mm}$

Grinding Length 600-2000mm



Suitable for Mass Production
or Short Runs



Feeding Mode

- X Axis Servo Motor
- Z Axis Servo Motor
- Automatic Grinding Cycle
- Automatic Dressing Compensation
- Dressing Feeding / Automatic Coordinate setting

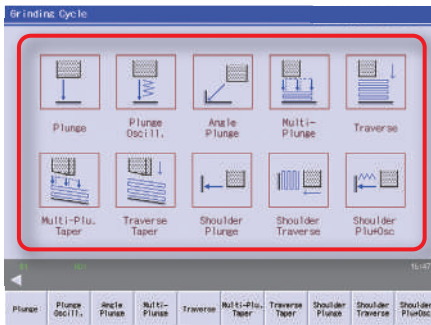
Humanized Advanced Controller

Standard Accessory !

Easy Operation !

Variety Grinding Cycles

Total design for user needs! Most practical! Easy operation!



- Plunge without oscillation
- Plunge with oscillation
- Angle plunge grinding
- Multi-plunge grinding
- Traverse grinding
- Multi-plunge taper grinding
- Traverse taper grinding
- Shoulder plunge without oscillation
- Shoulder traverse grinding
- Shoulder plunge with oscillation

Form type fill in ! Easy to edit processing mode !

- Using special form type design, easy and fast to edit program for different grinding cycles.
- Using regular program but NC editing, user is available to edit any processing mode.
- Easy to expand special grinding cycle for any processing needs.
- To ensure the accuracy and stability.



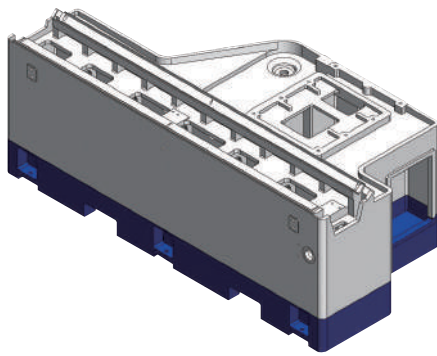
FANUC

Mitsubishi

Siemens



Advanced Design Concepts!



One-Piece Fabricated Base

Stability! High Rigidity!

- The machine base is one-piece manufactured from Meehanite cast iron, tempered for maximum stability of material
- Box type base construction features superior stability and rigidity



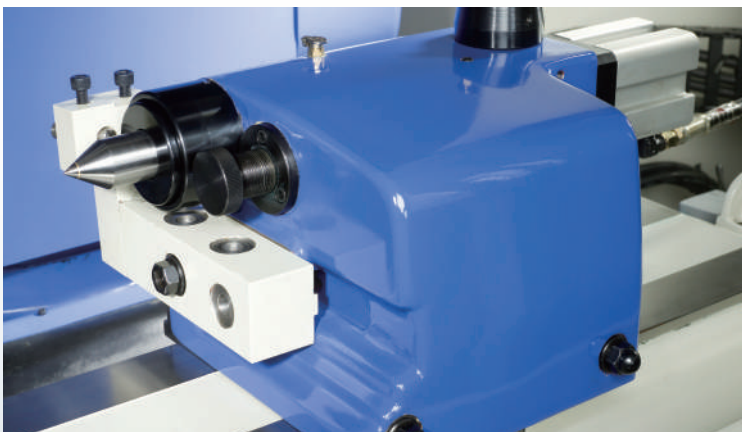
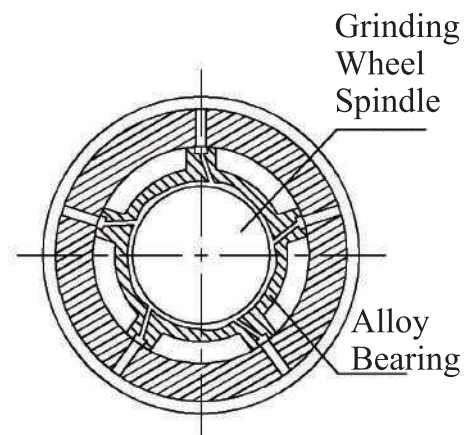
Wheel Head

■ Special Vibration Absorbing Design

The forced lubrication system of the grinding wheel spindle features vibration absorbing function. The oil film pressure, created by the hydrodynamic bearings, automatically absorbs vibration according to the current working condition.

■ Precision / Rigid Spindle

The grinding wheel spindle is supported by two special hydrodynamic bearings on the ends with five-point support, providing maximum rigidity and stability of spindle running. In case insufficient lubrication oil occurs, the spindle stops automatically to avoid wearing on the spindle and bearings.



Hydraulic Tailstock (CNC)

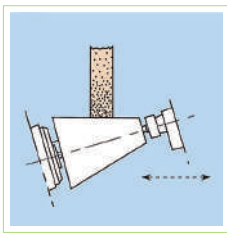
- The sleeve movement is hydraulically operated for convenient workpiece loading and unloading
- Workpiece clamping and unloading force can be adjusted by turning a knob. The sleeve is precision machined from hardened alloy, featuring maximum wear resistance and rigidity

Extra Powerful Functions!

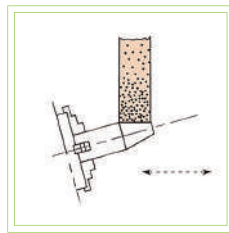
Multiple Functions ! Great-Value Grinders ! Various Grinding Modes !

Jainnher's Cylindrical Grinder combines various grinding functions in one machine. Effective improve grinding precision and operational convenience

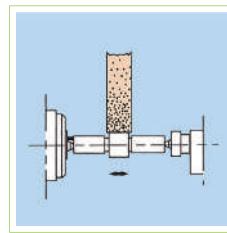
Universal / NC Cylindrical Grinding Example



Taper Grinding
Between two Centers

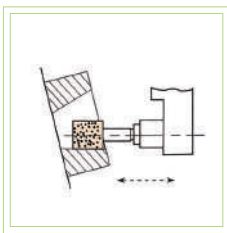


Hold on Taper Grinding

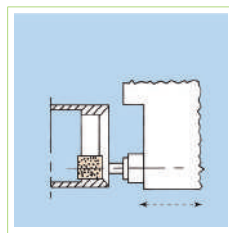


Straight Plunge
Grinding

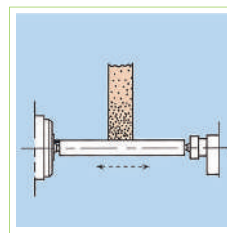
Universal Cylindrical Grinding Example



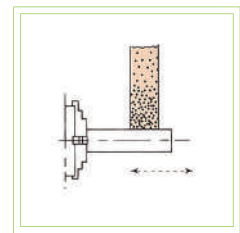
Internal Taper
Grinding



Internal Grinding



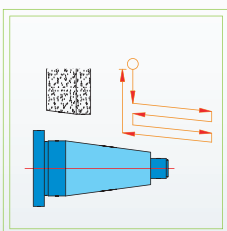
Horizontal Grinding
Between two Centers



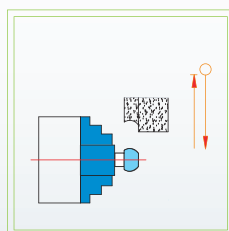
Hold on Horizontal
Grinding

Universal / NC / CNC Cylindrical Grinding Example

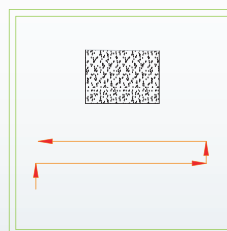
CNC Cylindrical Grinding Example



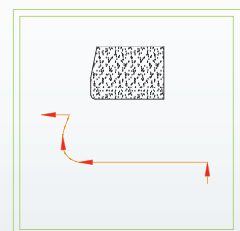
Tapered Traverse
Grinding



Curve & Endface
Plunge Grinding



Straight Grinding
Wheel



Forming Wheel with
Curve

CNC Cylindrical Wheel Dressing Cycles

Standard Accessories



(1) Tools and tool box



(2) Grinding wheel and grinding wheel flange



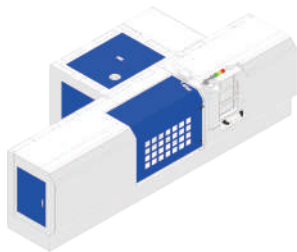
(3) Wheel dresser



(4) 2-point center rest
(1m, 1.5m, 2m)



(5) Water pump and tank



(6) Fully enclosed splash guard & oil mist collector
(only for cnc)



(7) Touch probe gauge
T18 / PR3
(only for cnc)



(8) X Axis linear scale
(only for cnc)

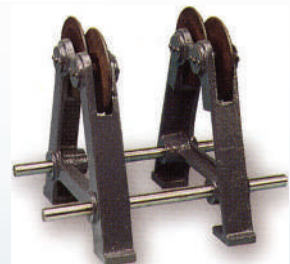
Optional Accessories



(1) Magnetic separator



(2) Balancing arbor



(3) Wheel balancing base



(4) 3-Jaw chuck



(5) 3-point center rest (Big)



(6) 3-point center rest (Small)



(7) High speed spindle



(8) Center ring and Jaw plate

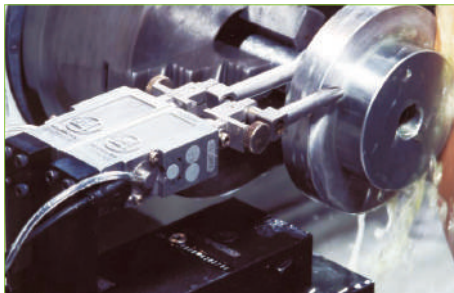


(9) Paper filter



(10) Internal Attachment

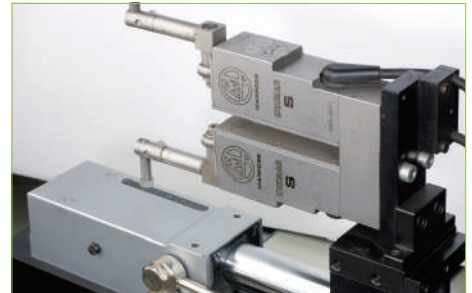
CNC Advanced Optional Accessories



(1) Thickness measuring gauge, Marposs / BS



(2) Z Axis linear scale



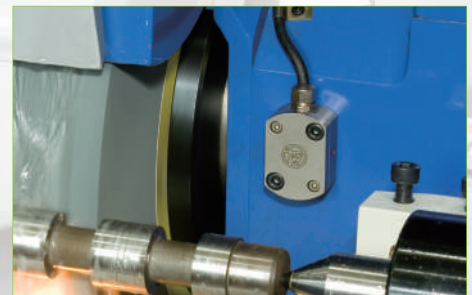
(3) Auto in-process gauge (Marposs)



(4) Auto in-process gauge (BS)



(5) Automatic grinding wheel balancing system Marposs/BS



(6) Wheel crash control device Marposs/BS

Conventional(H) / NC Specifications

ITEMS MODEL			JHU-2706H /NC1	JHU-2710H /NC1	JHU-2715H /NC1	JHU-2720H /NC1	JHU-3506H /NC1	JHU-3510H /NC1	JHU-3515H /NC1	JHU-3520H /NC1
Capacity	Max. Ø work swing (mm)		270				350			
	Max. grinding length (mm)		600	1000	1500	2000	600	1000	1500	2000
	Max. grinding dia (mm)		250				330			
	Max. job weight in centers		70 kgs	130 kgs			70 kgs	130 kgs		
Workhead	Speed range (rpm)	60HZ	11~500 (Variable speed)							
		50HZ	9~420 (Variable speed)							
	Swivel angle		120° (CCW : 90° ; CW : 30°)							
	Center		MT4							
	Spindle rotation		Setting Normal and reverse rotation							
Work Table	Horizontal travel speed (mm/min)		50~4000	50~3000			50~4000	50~3000		
	Handwheel/revolution (mm)		20							
	Swivel angle CCW/CW		11°/6°	9°/5°	7°/4°	5°/3°	11°/6°	9°/5°	7°/4°	5°/3°
	Min travel (mm)		8							
Wheel Head	Grinding wheel size (DxWxB)		405 x (25~50) x 152.4				455 x 50 x 152.4 (opt)			
	Max. peripheral		32m/sec							
	Grinding wheel speed (2step)(rpm)	60HZ	1499:1600 (Standard)							
		50HZ	1508:1603 (Standard)							
	Total front and rear travel		Grinding wheel H type 175mm / NC1 type 192mm				Grinding wheel 192 mm			
	Speedy feed travel		H type 40 mm / NC1 type Adjustable setting							
	Wheelhead total feed travel		Grinding wheel H type 135mm / NC1 type 152mm				Grinding wheel 152 mm			
	Headwheel feed/revolution		H type 2mm / NC1 type 1mm							
Tail Stock	Center travel		30 mm							
	Center		MT4							
Motor	Grinding wheel motor		3.7KW (5HP) 4P / 5.6KW (7.5HP) 4P (opt.)							
	Workhead motor		0.37 KW (1/2HP), 6P							
	Hydraulic motor		1.5 KW (2HP), 4P							
	Compulsory lubrication motor		0.75 KW (1HP), 4P							
	Coolant motor		0.18 KW (1/4HP), 2P							
	Magnetic separator motor		0.03 KW (1/25HP), 4 P							
	Internal grinding motor		1.5 KW (2HP), 2P							
	X servo motor (NC)		1.5 KW							
Hydraulic System	Hydraulic tank		60 L							
	Compulsory lubrication tank		30 L							
	Coolant tank		80L / 150L(opt.)							
General Specification	Machine N.W. (Approx. kgs)		2850	3770	4600	5100	2950	3870	4700	5200
	Machine G.W. (Approx. kgs)		3250	4200	5250	6000	3350	4300	5350	6100
	Machine size (Approx.)	L (mm)	2620	3250	4470	7950	2620	3250	4470	7950
		W (mm)	2090	2090	2090	2090	2090	2090	2090	2090
		H (mm)	1760	1760	1760	1760	1760	1760	1760	1760
	Packing size (Approx.)	L (mm)	2800	3400	4500	6150	2800	3400	4500	6150
		W (mm)	2250	2250	2250	2250	2250	2250	2250	2250
		H (mm)	2100	2100	2100	2100	2100	2100	2100	2100

■ The above specifications are for reference only, we reserve the right to alter them without further notice.

CNC Specifications

ITEMS \ MODEL			JHU-2706 CNC	JHU-2710 CNC	JHU-2715 CNC	JHU-2720 CNC	JHU-3506 CNC	JHU-3510 CNC	JHU-3515 CNC	JHU-3520 CNC
Capacity	Max. Ø work swing (mm)		270				350			
	Max. grinding length (mm)		600	1000	1500	2000	600	1000	1500	2000
	Max. grinding dia (mm)		250				330			
	Max. job weight in centers		70 kgs	130 kgs			70 kgs	130 kgs		
	Range of touch probe		500	900	1400	1900	500	900	1400	1900
Workhead	Speed range (rpm)	60HZ	11 ~ 500 (Variable speed)							
		50HZ	9 ~ 420 (Variable speed)							
	Swivel angle		120° (CCW : 90° ; CW : 30°)							
	Center		MT4							
	Spindle rotation		Setting , Normal and reverse rotation							
Work Table	Swivel angle CCW/CW		11°/6°	9°/5°	7°/4°	5°/3°	11°/6°	9°/5°	7°/4°	5°/3°
	Max. feed rate		8m / min							
	Min setting unit (mm)		0.0001 mm							
Wheel Head	Grinding wheel size (DxWxB)		405 x (25~50) x 152.4 455 x 50 x 152.4 (opt)							
	Max. peripheral		32m / sec							
	Grinding wheel speed (2step)(rpm)	60HZ	1499:1600 (Standard)							
		50HZ	1508:1603 (Standard)							
	Max. feed rate		6 m / min							
	Max. stroke		Grinding wheel 175mm							
	Max. setting unit		0.0001 mm							
Tail Stock	Center stroke		30 mm							
	Center		MT4							
Motor	Grinding wheel motor		3.7KW (5HP) 4P / 5.6KW (7.5HP) 4P (opt.)							
	Workhead motor		1.8 KW							
	Hydraulic motor		0.75 KW (1HP), 4P							
	Compulsory lubrication motor		0.75 KW (1HP), 4P							
	Coolant motor		0.18 KW (1/4HP), 2P							
	Magnetic separator motor		0.03 KW (1/25HP), 4 P							
	Servo motor (X)		1.2 KW							
	Servo motor (Z)		1.8 KW	1.8 KW	2.5 KW	2.5 KW	1.8 KW	1.8 KW	2.5 KW	2.5 KW
Hydraulic System	Hydraulic tank		60 L							
	Compulsory lubrication tank		30 L							
	Coolant tank		80L / 150L(opt.)							
General Specification	Machine N.W. (full cover)		4250	5370	6500	7400	4350	5470	6600	7500
	Machine G.W. (Approx. kgs)		4850	6000	7400	8400	4950	6100	7500	8500
	Machine size (Approx.)	L (mm)	3740	4700	6400	6800	3740	4700	6400	6800
		W (mm)	2160	2160	2160	2160	2160	2160	2160	2160
		H (mm)	2310	2310	2310	2310	2310	2310	2310	2310
	Packing size (Approx.)	L (mm)	4000	5000	6600	7000	4000	5000	6600	7000
		W (mm)	2280	2280	2280	2280	2280	2280	2280	2280
H (mm)		2300	2300	2300	2300	2300	2300	2300	2300	

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