

JAINNHER®



*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 $\text{Ø}250\text{mm}$

Grinding Length **600-2000mm**

JHU-35 Series

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

Grinding Length **600-1500mm**

► 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 600-1500mm

■ 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 $\text{Ø}250\text{mm}$

Grinding Length 600-1500mm

JHU-35 CNC Series

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

Grinding Length 600-1500mm

► 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 !



FANUC CNC Controller

- FANUC Oi-Mate TD



Mitsubishi CNC Controller

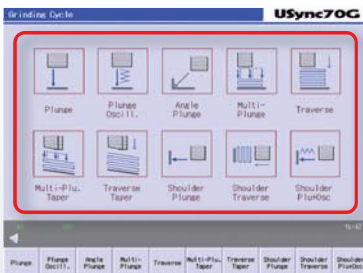
- Mitsubishi M70G



Powerful Functions JH70G_GUI Software

Form type fill in ! Easy to edit processing mode !

- JH70G_GUI software, using special form type design, easy and fast to edit program for different grinding cycles.
- Using regular program but NC editing, user can edit any processing mode.
- Easy to expand special grinding cycle, for any processing needs.
- With Mitsubishi CNC M70/M700 series controller, assure the accuracy and stability.

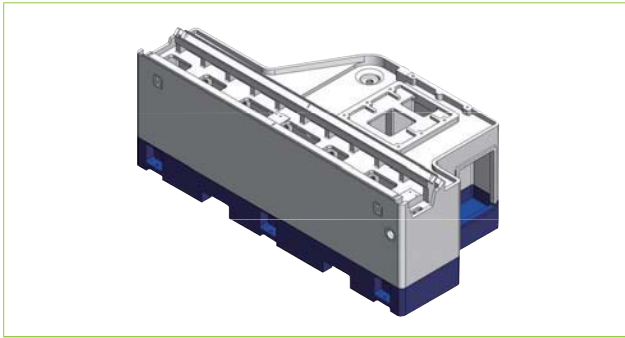


Variety Grinding Cycles

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

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

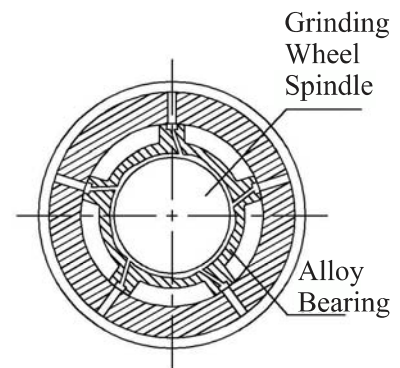
Wheel Head

■ 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)

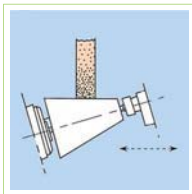
- The sleeve movement is hydraulically operated for convenient workpiece loading and unloading
- Workpiece clamping and unloading force can be adjusted by turning a knob. The sleeve is precision machined from hardened alloy, featuring maximum wear resistance and rigidity

Extra Powerful Functions!

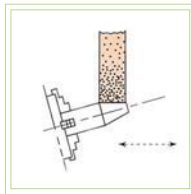
Multiple Functions ! Great-Value Grinders ! Various Grinding Modes !

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

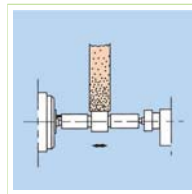
Universal / NC Cylindrical Grinding Example



Taper Grinding
Between two Centers

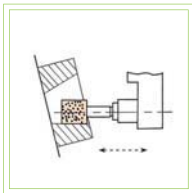


Hold on Taper Grinding

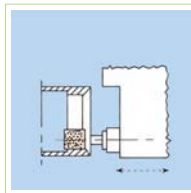


Straight Plunge
Grinding

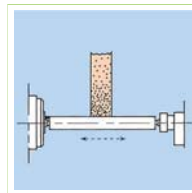
Universal Cylindrical Grinding Example



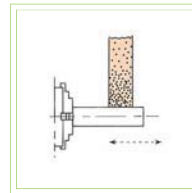
Internal Taper
Grinding



Internal Grinding



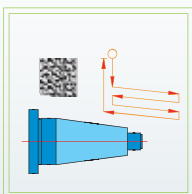
Horizontal Grinding
Between two Centers



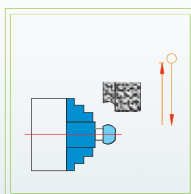
Hold on Horizontal
Grinding

Universal / NC / CNC Cylindrical Grinding Example

CNC Cylindrical Grinding Example

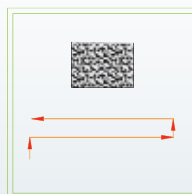


Tapered Traverse
Grinding

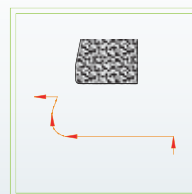


Curve & Endface
Plunge Grinding

CNC Cylindrical Wheel Dressing Cycles



Straight Grinding
Wheel



Forming Wheel with
Curve

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)



(5) Water pump and tank

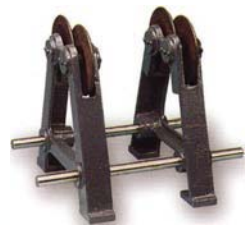
Optional Accessories



(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

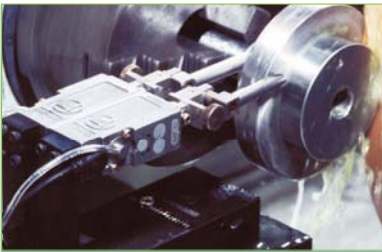


(9) Paper filter



(10) Internal Attachment

CNC Advanced Measuring Optional Accessories



(1) Thickness measuring gauge, Marposs / BS



(2) Touch probe gauge T18 / PR3



(3) Z Axis linear scale



(4) Auto in-process gauge Ø8-90mm Marposs



(5) Auto in-process gauge Ø8-90mm, BS



(6) Automatic grinding wheel balancing system Marposs/BS



(7) 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	
				270				350			
Capacity	Max. Ø work swing (mm)			270				350			
	Max. grinding length (mm)	600	1000	1500	2000	600	1000	1500			
	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°			
	Min travel (mm)	8									
Wheel Head	Grinding wheel size (D x W x B)	405 x (25~50) x 152.4				455 x 50 x 152.4 (opt)					
	Max. peripheral (m/min)	2000									
	Grinding wheel speed (2step)(rpm)	60HZ	1499:1600 (Standard)								
		50HZ	1508:1603 (Standard)								
	Total front and rear travel	Grinding wheel 175 mm					Grinding wheel 192 mm				
	Speedy feed travel	H type 40 mm / NC1 type Adjustable setting									
	Wheelhead total feed travel	Grinding wheel 135 mm					Grinding wheel 152 mm				
Headwheel feed/revolution	1 mm										
Tail Stock	Center travel	30 mm									
	Center	MT4									
Motor	Grinding wheel motor	3.7 KW (5 HP), 4P				7.5HP(opt)					
	Workhead motor	0.4 KW (1/2HP), 4P									
	Hydraulic motor	1.5 KW (2HP), 4P									
	Compulsory lubrication motor	0.75 KW (1HP), 4P									
	Coolant motor	0.2 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	100 L									
General Specification	Machine G.W. (Approx. kgs)	3150	4100	5150	5350	3350	4300	5350			
	Machine size (Approx.)	L (mm)	2620	3250	4470	6040	2620	3250	4470		
		W (mm)	2090	2090	2090	2090	2090	2090	2090		
		H (mm)	1760	1760	1760	1760	1760	1760	1760		
	Packing size (Approx.)	L (mm)	2800	3400	4500	6150	2800	3400	4500		
		W (mm)	2250	2250	2250	2250	2250	2250	2250		
H (mm)		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-2706CNC	JHU-2710CNC	JHU-2715CNC	JHU-3506CNC	JHU-3510CNC	JHU-3515CNC
Capacity	Max. Ø work swing (mm)	270			350				
	Max. grinding length (mm)	600	1000	1500	600	1000	1500		
	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	500	900	1400		
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°	11°/6°	9°/5°	7°/4°		
	Max. feed rate	8m / min							
	Min setting unit (mm)	0.001 mm							
Wheel Head	Grinding wheel size (DxWxB)	405 x (25~50) x 152.4							
	Max. peripheral (m/min)	2000							
	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	0.001 mm							
Tail Stock	Center stroke	30 mm							
	Center	MT4							
Motor	Grinding wheel motor	3.75 KW, 5 HP 4 P			7.5HP(opt)				
	Workhead motor	1.5 KW							
	Hydraulic motor	0.75 KW (1HP), 4P							
	Compulsory lubrication motor	0.75 KW (1HP), 4P							
	Coolant motor	0.2 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	2.2 KW	1.8 KW	1.8 KW	2.2 KW		
Hydraulic System	Hydraulic tank	60 L							
	Compulsory lubrication tank	30L							
	Coolant tank	100 L							
General Specification	Machine G.W. (Approx. kgs)	3410	4240	5220	3490	4320	7300		
	Machine size (Approx.)	L (mm)	3740	4700	6400	3740	4700	6400	
		W (mm)	2160	2160	2160	2160	2160	2160	
		H (mm)	2310	2310	2310	2310	2310	2310	
	Packing size (Approx.)	L (mm)	4000	5000	6600	4000	5000	6600	
		W (mm)	2280	2280	2280	2280	2280	2280	
H (mm)		2300	2300	2300	2300	2300	2300		

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