



JAINNHER®



*Manual / NC / CNC
Cylindrical Grinding Machine*

High Rigid Structure !



Cylindrical / Universal Cylindrical Grinding Machine

Stability! High Precision!
Cost Efficiency ! Outstanding !



JHU-27 Series

Grinding Dia. $\varnothing 250\text{mm}$
Grinding Length 600-1500mm

JHU-35 Series

Grinding Dia. $\varnothing 330\text{mm}$
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, significantly enhance the capacity.

Optional 1 Axis
or 2 Axis NC control ▶



JHU-27NC Series

Grinding Dia. $\varnothing 250\text{mm}$

Grinding Length 600-1500mm

JHU-35NC Series

Grinding Dia. $\varnothing 330\text{mm}$

Grinding Length 600-1500mm

■ Feeding Mode

1 Axis

- X Axis Servo Motor
- Z Axis Hydraulic Mov.
- Automatic Grinding

2 Axis

- X Axis Servo Motor
- Z Axis Servo Motor
- Automatic Grinding
- Auto Dressing Compensation

Cnc Cylindrical Grinding Machine

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



JHU-27 CNC Series

Grinding Dia. $\varnothing 250\text{mm}$
Grinding Length 600-1000mm

JHU-35 CNC Series

Grinding Dia. $\varnothing 330\text{mm}$
Grinding Length 600-1000mm



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

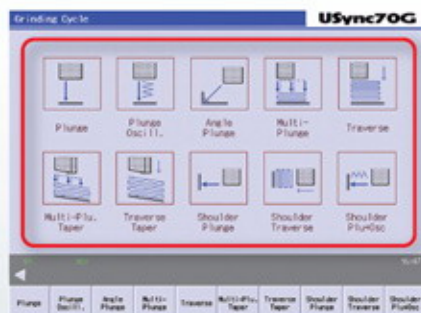
■ Mitsubishi M70G



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.

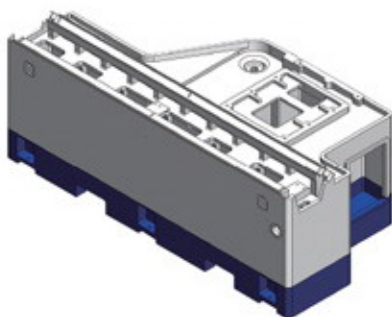


Variety Grinding Cycles

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

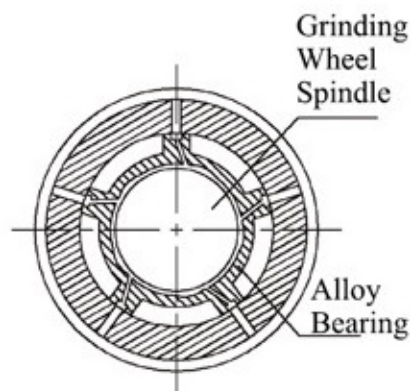
Wheel Head

■ 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)

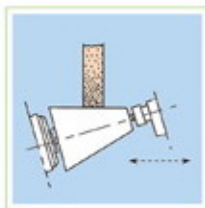
- The sleeve movement is hydraulically operated for convenient workpiece loading and unloading
- Workpiece clamping and unloading force can be adjusted by turning a knob. The sleeve is precision machined from hardened alloy, featuring maximum wear resistance and rigidity

Extra Powerful Functions!

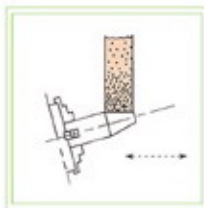
Multiple Functions ! Great-Value Grinders ! Various Grinding Functions !

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

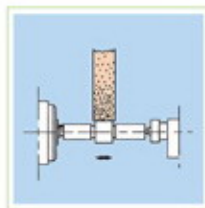
Universal / NC Cylindrical Grinding Example



Taper Grinding
Between Two Centers

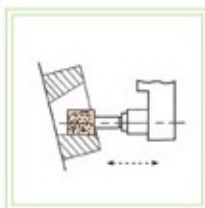


Held on Taper Grinding

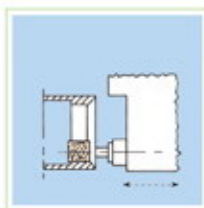


Straight Plunge
Grinding

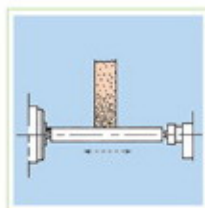
Universal Cylindrical Grinding Example



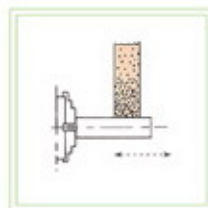
Internal Taper
Grinding



Internal Grinding

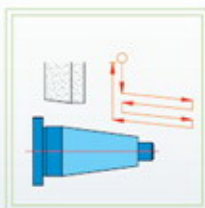


Horizontal Grinding
Between two Centers

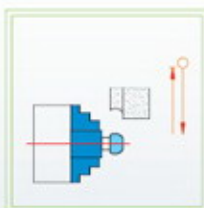


Held on Horizontal
Grinding

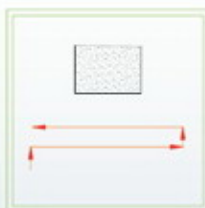
CNC Cylindrical Grinding Example



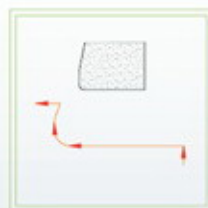
Tapered Traverse
Grinding



Curve & Endface
Plung 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)



(5) Water pump and tank

Optional Accessories



(1) Magnetic separator



(2) Balancing arbor



(3) Balancing base



(4) 3-Jaw chuck



(5) 3-point center rest (Big)



(6) 3-point center rest (Small)



(7) High speed spindle

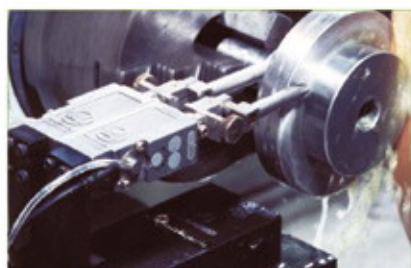


(8) Center ring and Jaw plate



(9) Paper filter

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 / NC Specifications

ITEMS			MODEL		JHU-2706H/NC	JHU-2710H/NC	JHU-2715H/NC	JHU-3506H/NC	JHU-3510H/NC	JHU-3515H/NC
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 (kgs)		70	130		70	130			
Workhead	Speed range (rpm)	60HZ	11~500 (Variable speed)							
		50HZ	9~420 (Variable speed)							
	Swivel angle		120° (CCW : 90° ; CW : 30°)							
	Center		MT.4							
	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°	11°/6°	9°/5°	7°/4°		
	Min travel (mm)		8							
Wheel Head	Grinding wheel size (Dia×Width×Bore)		405* (25~50) *152.4							
	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		(40 mm)							
	Wheelhead total feed travel		Grinding wheel 135 mm				Grinding wheel 152 mm			
	Headwheel feed/revolution		1mm							
Tail Stock	Center travel		30mm							
	Center		MT. 4							
Motor	Grinding wheel motor		3.7KW(5HP),4P							
	Worktable motor		0.4KW,(1/2HP),4P							
	Hydraulic motor		1.5KW,(2HP),4P							
	Compulsory lubrication motor		0.2KW (1/4HP),4P							
	Coolant motor		0.2KW (1/4HP),2P							
	Magnetic sparator motor		0.03KW (1/25HP),4P							
	Internal grinding motor		1.5KW (2HP),2P							
	X servo motor (NC)		1KW							
	Z servo motor (NC)		1.5KW							
Hydraulic System	Hydraulic tank		60L							
	Compulsory lubrication tank		22L							
	Coolant tank		100L							
Packing Size	G.W (kgs) (Approx.)		3150	4100	5150	3350	4300	5350		
	Size	L (mm) (Approx.)	2800	3400	4400	2800	3400	4400		
		W (mm) (Approx.)	1650	1650	1650	1650	1650	1650		
		H (mm) (Approx.)	1820	1820	1820	1820	1820	1820		

■ 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-3506CNC	JHU-3510CNC
Capacity	Max. Ø work swing (mm)		270		350	
	Max. grinding length (mm)		600	1000	600	1000
	Max. grinding dia (mm)		250		330	
	Max. job weight (mm)		70	130	70	130
	Range of touch probe		500	900	500	900
Workhead	Speed range (rpm)	60HZ	11~500 (Variable speed)			
		50HZ	9~420 (Variable speed)			
	Swivel angle		120° (CCW : 90° ; CW : 30°)			
	Center		MT.4			
	Spindle rotation		Setting, Normal and reverse rotation			
Work Table	Swivel angle CCW/CW		11° / 6°	9° / 5°	11° / 6°	9° / 5°
	Max. feed rate		10m/min			
	Min setting unit (mm)		0.001mm			
Wheel Head	Grinding wheel size (Dia×Width×Bore)		405* (25~50) *152.4			
	Max. peripheral (m/min)		2000			
	Grinding wheel speed (2step)(rpm)	60HZ	1499 : 1600 (Standard)			
		50HZ	1508 : 1603 (Standard)			
	Max. feed rate		6m/min			
	Max. stroke		Grinding wheel 125 mm			
	Max. setting unit		0.001mm			
Tail Stock	Center stroke		30mm			
	Center taper		MT. 4			
Motor	Grinding wheel motor		5HP 4P			
	Work table motor		1.5KW			
	Hydraulic motor		1.5KW,(2HP),4P			
	Compulsory lubrication motor		0.2KW (1/4HP),4P			
	Coolant motor		0.2KW (1/4HP),2P			
	Magnetic separator motor		0.03KW (1/25HP),4P			
	Servo motor (X)		1.2KW	1.2KW	1.2KW	1.2KW
	Servo motor (Z)		1.8KW	1.8KW	1.8KW	1.8KW
Hydraulic System	Hydraulic tank		60L			
	Compulsory lubrication tank		22L			
	Coolant tank		100L			
Packing Size	G.W (kgs) (Approx.)		3150	4100	3350	4300
	Size	L (mm) (Approx.)	3600	4200	3600	4200
		W (mm) (Approx.)	2200	2200	2200	2200
		H (mm) (Approx.)	2100	2100	2100	2100

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<http://www.jainnher.com.tw>



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