

Cylindrical / Universal Grinding Machine

Stability! High Precision!
Cost Efficiency ! Outstanding !



JHU-27 Series

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

JHU-35 Series

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



Optional 1 Axis
or 2 Axes NC control ▶

■ JHU-27NC Series

Grinding Dia. Ø250mm

Grinding Length 600-1500mm

■ JHU-35NC Series

Grinding Dia. Ø330mm

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

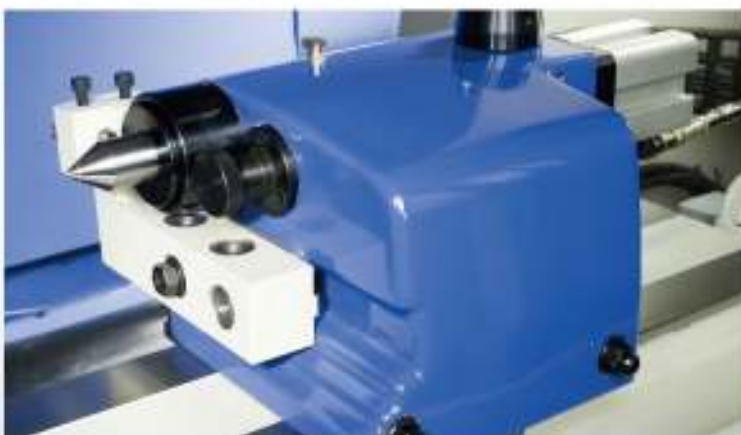
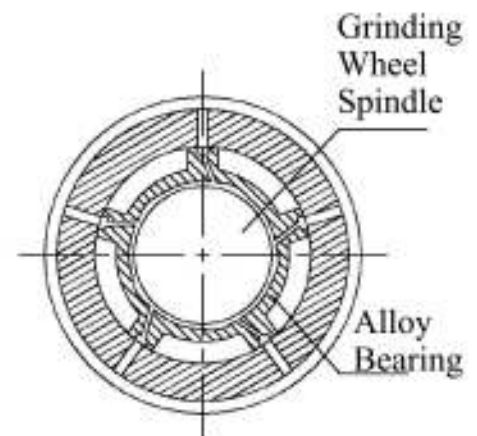
Wheel Head

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)

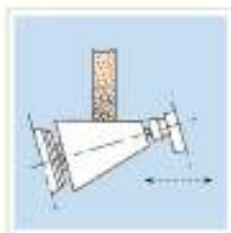
- The sleeve movement is hydraulically operated for convenient workpiece loading and unloading
- Workpiece clamping and unloading force can be adjusted by turning a knob. The sleeve is precision machined from hardened alloy, featuring maximum wear resistance and rigidity

Extra Powerful Functions!

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

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

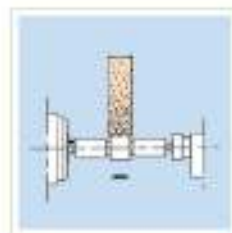
Universal / NC Cylindrical Grinding Example



Taper Grinding
Between two Centers

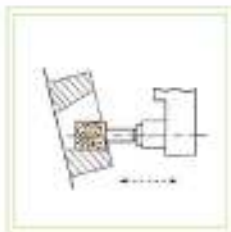


Held on Taper Grinding

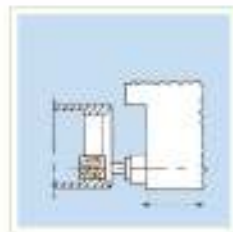


Straight Plunge
Grinding

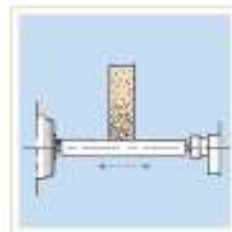
Universal Cylindrical Grinding Example



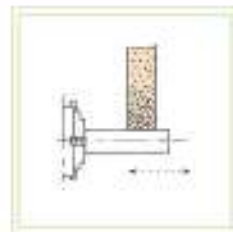
Internal Taper
Grinding



Internal Grinding

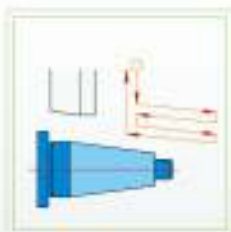


Horizontal Grinding
Between two Centers

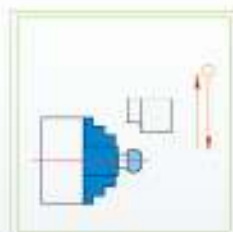


Held on Horizontal
Grinding

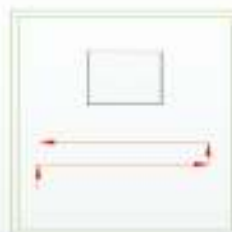
CNC Cylindrical Grinding Example



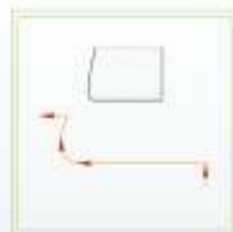
Tapered Traverse
Grinding



Curve & Endface
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)



(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(H) / NC Specifications

| ITEMS | | MODEL | | JHU-2706 | JHU-2710 | JHU-2715 | JHU-3506 | JHU-3510 | JHU-3515 |
|---------------------------|-----------------------------------|--------------------------------------|-----------------------------|----------|-----------------------|----------|----------|----------|----------|
| | | | | H/NC | H/NC | H/NC | H/NC | H/NC | H/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 (DxWxB) | | 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 | | 1 mm | | | | | | | |
| Tail Stock | Center travel | | 30 mm | | | | | | |
| | 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 separator motor | | 0.03KW,(1/25HP),4P | | | | | | |
| | Internal grinding motor | | 1.5KW,(2HP),2P | | | | | | |
| | X servo motor (NC) | | 1 KW | | | | | | |
| | Z servo motor (NC) | | 1.5 KW | | | | | | |
| Hydraulic System | Hydraulic tank | | 60 L | | | | | | |
| | Compulsory lubrication tank | | 22 L | | | | | | |
| | Coolant tank | | 100 L | | | | | | |
| 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-2706 CNC | JHU-2710 CNC | JHU-3506 CNC | JHU-3510 CNC |
|------------------|-----------------------------------|--------------------------------------|-------------------------------|-----------------|-------------------------|-----------------|-----------------|
| | | | | | | | |
| 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 | | 10 m/min | | | | |
| | Min setting unit (mm) | | 0.001 mm | | | | |
| Wheel Head | Grinding wheel size (DxWxB) | | 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 | | 6 m/min | | | | |
| | Max. stroke | | Grinding wheel 125 mm | | | | |
| | Max. setting unit | | 0.001 mm | | | | |
| Tail Stock | Center stroke | | 30 mm | | | | |
| | Center taper | | MT. 4 | | | | |
| Motor | Grinding wheel motor | | 5HP 4P | | | | |
| | Work table motor | | 1.5 KW | | | | |
| | 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) | | 1.2 KW | 1.2 KW | 1.2 KW | 1.2 KW | |
| Servo motor (Z) | | 1.8 KW | 1.8 KW | 1.8 KW | 1.8 KW | | |
| 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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