



**KENT USA**

A close-up photograph of a cylindrical grinding machine. A metal workpiece is being ground by a rotating wheel, with a large amount of coolant water being sprayed onto the contact point, creating a misty spray. The machine's housing is blue and black.

**CYLINDRICAL  
GRINDING MACHINE**

**KENT Industrial (USA) Inc.**

.....Since 1979



**CYLINDRICAL  
GRINDING MACHINE**  
JHU-27  
JHU-35

**UNIVERSAL CYLINDRICAL  
GRINDING MACHINE**

JHU-27  
JHU-35

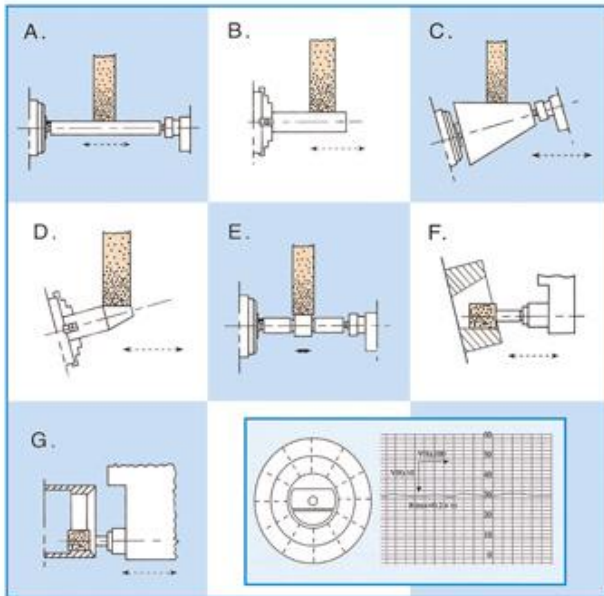


**NC CYLINDRICAL  
GRINDING MACHINE**

JHU-27 NC  
JHU-35 NC  
NC 1 / NC 2 AXES



## Grinding Methods



- A. Horizontal Grinding between two centers  
 B. Held on Horizontal Grinding  
 C. Taper Grinding Between Two centers

## Features

### 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.

### SPECIAL VIBRATION ABSORBING DESIGN

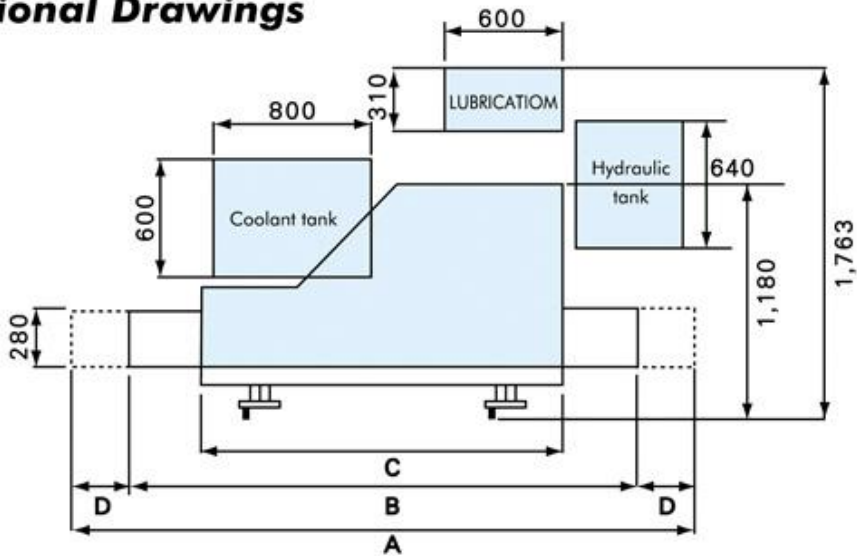
The forced lubrication system of the grinding wheel spindle features vibration absorbing function. The oil film pressure, created by the hydrodynamic bearings, automatically absorbs vibration according to the current working condition.

### A COMPETITIVE EDGE FOR FLEXIBLE GRINDING

The workhead can swivel 120°, variable spindle speed. The spindle can be fixed and runs reversibly, making it ideal for flexible grinding operations for internal and external cylindrical grinding applications.

- D. Held on Taper Grinding  
 E. Straight Plunge Grinding  
 F. Internal Taper Grinding  
 G. Internal Grinding


## Dimensional Drawings



Models	A	B	C	D
2706/3506	3380	2620	1980	380
2710/3510	4600	3460	2820	570
2715/3515	5930	4470	3830	730

## SPECIFICATIONS

CAPACITY	ITEMS	MODLE	JHU-2706	JHU-2710	JHU-2715	JHU-3506	JHU-3510	JHU-3515
<b>Capacity</b>	Max $\phi$ work swings		270mm			350mm		
	Max grinding length		600mm	1000mm	1500mm	600mm	1000mm	1500mm
	Max grinding dia.		250mm			330mm		
	(kgs)Max job weight(kgs)		70kgs	130kgs		70kgs	130kgs	
<b>Workhead</b>	Speed range		60Hz 11~500 Variable speed 50Hz 9~420 Variable speed					
	Swivel angle		120° (90° CCW ; 30° CW)					
	Center		MT.4					
	Spindle rotation		Setting, Normal and reverse rotation					
<b>Worktable</b>	(mm/min) Horizontal travel speed		50~4000	50~3000	50~3000	50~3000		
	Handwheel feed/revolution		20mm					
	CCW/CW Swivel angle		11°/6°	9°/5°	7°/4°	11°/6°	9°/5°	7°/4°
	Min travel		8mm					
<b>Wheel head</b>	Grinding wheel size (Dia×Width×Bore)		405x25~50x152.4					
	(m/min) Max peripheral		2000					
	Grinding wheel speed (2 step)		60Hz 405:1499:1600(Standard) 50Hz 405:1508:1603(Standard)					
	Total front and rear travel		Grinding wheel 405:175			Grinding wheel 405:192		
	Speedy feed travel		40mm					
	Wheelhead total feed travel		Grinding wheel 405:135			Grinding wheel 405:152		
<b>Grinding Wheel Feed</b>	Handwheel feed/revolution		1mm					
<b>Tail stock</b>	Center travel		30mm					
	Center		MT.4					
<b>Motor</b>	Grinding wheel motor		3.7KW,(5HP), 4P					
	Worktable motor		0.4KW,(1/2HP), 4P-100H,150H					
	Hydraulic motor		1.5KW,(2HP), 4P					
	Compulsory lubrication motor		0.2KW,(1/4HP), 4P					
	Coolant motor		0.2KW,(1/4HP), 4P					
	Magnetic separator motor		0.03KW,(1/25HP), 4P					
	Internal grinding motor		1.5KW,(2HP), 2P					
	X Servo motor		1KW					
	Y Servo motor		1.5KW					
<b>Hydraulic system</b>	Hydraulic tank		60L					
	Compulsory lubrication tank		22L					
	Coolant tank		100L					
<b>G. Weight</b>	(kgs)	(Approx.)	3150	4100	5150	3350	4300	5350
<b>Packing Size</b>	Length (mm)	(Approx.)	2800	3400	4400	2800	3400	4400
	Width (mm)	(Approx.)	1650	1650	1650	1650	1650	1650
	Height (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.

## **SPECIFICATIONS**

CAPACITY	ITEMS	MODLE	S40			M60			M85			L85			L100		
<b>Working capacity</b>	Max. swing oven table.	mm	φ 400			φ 600			φ 850			φ 850			φ 1000		
	Max. distance between c.c.	M	1.5	2	3	3	4	5	3	4	5	3	4	5			
	Max. weight of workpiece in centers.	kg	800			15000			18000								
	Max. weight of workpiece in neck rests.	kg	1500			4000			6000								
	Max. O.D. ground.	mm	φ400			φ600			φ850~ φ600								
	Rang of grinding dia.	mm	φ5-400			φ10-600			φ10- 850			φ20-850			φ10-1000		
	Max. dia of crown.	mm	<b>By program</b>														
<b>Wheelhead &amp; Carriage (X axis)</b>	Wheel size (O. D.xWidthxBore)	mm	φ500×φ152.4×φ50			φ760 × φ304.8 × φ50											
	Type of lubricating system	-	Hydrostatic & dynamic system														
	Rotating speed of wheel	R.P.M	100-1800			300-1200											
	Max. cross feed rate	mm/min	1000			2000											
	Cross feed per pulse	mm/p	0.0001														
<b>Table (Z axis)</b>	Travel of table or head (Z axis)	mm	<b>Center Distance+ 200</b>														
	Travel speed of table	mm/min	25-3000			25-6000											
	Type of lubricating system	-	<b>Hydrostatic &amp; dynamic system</b>														
<b>Neck rests</b>	Roll neck diameter range	mm	φ30- φ120			φ50- φ250											
<b>Workhead &amp; Talstock</b>	Rotation speed of work heed	R.P.M	10-150			10-100											
	Size of center	-	MT#5			MT#6											
	Moving speed of tailstock	mm/min	<b>Manual</b>														
	Stroke of quill	mm	50			80											
<b>Power rating</b>	Grind wheel motor	HP	15			30			40								
	Workhead motor	HP	3			7.5			10								
	Table traverse motor (Z axis)	NM	12			22			30								
	Tailstock move motor	NM	8			12											
	Cross feed motor (X axis)	HP	2HP/220Liter			2HP/320Liter			2HP/450Liter								
<b>G. Weight</b>	(kgs)	(Approx.)	8290	8580	9780	11200	12800	14400	11800	13400	15000						
<b>Packing Size</b>	(mm)	(Approx.)	6500	7500	950	10795	12795	14795	11800	13800	15800						
	(mm)	(Approx.)	2280	2280	2280	2280	2280	2280	2280	2280	2280						
	(mm)	(Approx.)	1500	1500	1500	1650	1650	1650	1650	1650	1650						
	(mm)	(Approx.)	1500	1500	1500	1650	1650	1650	1650	1650	1650						

## Standard Accessories



A. Tools and tool box



B. Grinding wheel and grinding wheel flange



C. Wheel Dresser



D. 2-point center rest (1m, 1.5m)



E. Water pump and tank

- A. Tools and tool box**
- B. Grinding wheel and grinding wheel flange**

- C. Wheel Dresser**
- D. 2-point center rest (1m, 1.5m)**

- E. Water pump and tank**

## Optional Accessories



A. Magnetic Separator



B. Balancing Arbor



C. Balancing Base



D. 3-Jaw Chuck



E. 3-Point Center Rest Assembly(Big)



F. 3-Point Center Rest Assembly(Small)



G. High Speed Spindle (8,000~20,000rpm)



H. Center Ring and Jaw Plate(6", 7")

- A. Magnetic Separator**
- B. Balancing Arbor**
- C. Balancing Base**
- D. 3-Jaw Chuck**

- E. 3-Point Center Rest Assembly(Big)**
- F. 3-Point Center Rest Assembly(Small)**
- G. High Speed Spindle (8,000~20,000rpm)**

- H. Center Ring and Jaw Plate(6", 7")**

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