



#### Vertical head

#### ■Grinding wheel head

Made of high grade Nichrome steel SNCM-220, and are Normalized, Tempered, Carbonize Hardened.

To ensure trouble free performance throughout the life of spindle, it has to under going sub-zero treatment and super finished.

Special arrangement for wheel head spindle make the machine super rigidity.

#### **■Wheel Bearings**

There are two choices for wheel bearings:

Hydrostatic bearing-lt is the most suitable for precision grinding. It has features of light weight and fast speed without metal to metal friction, no heating, no changer with its characters, which is a special bearing for permanent using.

#### ■Slide Way of Wheel

Equipped with precision ball screw. The feeding is smooth, accurate and quick speeds. Wheel head swivel range is  $\pm 30$  degrees.

#### ■Spindle head

It is firmly supported by the precision bearing so that the grinding precision of external and internal diameters and end face could be guaranteed. Spindle head for machine CGP-816 is inverter type for changing speed; model CGP-12 series is infinitive variable speed which is able to use servo motor adequately.

The swivel range is+90 degrees and -30 degrees.

#### **■CGP-Series**

Full automation driven by servo motor for On-and Backward movement and controlled by PLC programmable plunge grinding cycle.

# 24/1240/1260 Series



ote:Machine shown with optional accessories.

#### ■Straight Grinding

Small quality: auto. infeed+sparkout timercould obtain good grinding result. For mass production, 2-steps auto infeed + 2-steps auto mearsuer(optional) increased should provide the best productivity and quantities.



#### ■End Surface Grinding

Dismantle the cover of the spindle head. Install a 3-jaw or 4-jaw chuck. Change the position of the The table and the wheel head can swivel. The pin so as rotate the chuck. Place the pin at 90 degrees for end surface grinding.



#### ■Shoulder Grinding

Finish the work both on external and shoulder grinding at one time. The workpiece is supported by two centers and it is available to install the wheel on the right side of the wheel head. Turn the wheel head to a certain degree to proceed the grinding.



#### ■ Taper Grinding

Hold the workpiece by chuck or two centers. adjustment is easy.



#### GRINDING EXAMPLES

#### Longitudinal Grinding

Intermittent automatic infeed and hydraulicdriven table provide the workpiece with the most effective longitudinal grinding.



#### ■Internal Grinding

To proceed the internal grinding with a hinge type attachment(optional accessory), you may pull down the internal spindle and then fix it as well.



#### **Standard Accessory**

- 1. Grinding wheel with flange
- 2. Diamond tool holder(Table mounted type)
- 3. Tools and kits(Spanner, screw-driver...etc)
- Carbode-tipped work centers morse taper No.2 or No.4
- 5. Coolant equipment
- 6. Standard electric equipment
- 7. Spindle device
- 8. Hydraulic tank with pump
- 9. Work lamp



#### **Optional Accessory**

- Diamond tool holder for In-and External grinding wheel (Table mounted type)
- 2. Diamond tool holder (Tailstock mounted type)
- 3. Diamond tool holder for In-and External grinding wheel (Side opened type)
- 4. Angular Trimming Device
- 5. Radius Trimming Device
- 6. Cam-Locked driving dogs (6pcs/set)
- 7. 2-point steady rest (Table mounted type)
- 8. 2-point steady rest (For long bar grinding)
- 9. 3-point steady rest
- 10. Adjustable 3-jaw scroll chunk7" 7"(178mm)
- 11. Adjustable 4-jaw scroll chunk8" 7.8"(200mm)
- 12. Magnetic collant separator 20L/40L
- 13. Paper band filter 20L/20L
- 14. Wheel forming device
- 15. Wheel balancing stand & arbor



## SPECIFICATIONS

Description	CGP-816	CGP-1224	CGP-1240	CGP-1260	
Capacity Distance between centers Swivei over table Maxi, load of centers Maxi. external grinding	15.7"(400mm) 7.9"(200mm) 132lbs(60kg) 6.3"(160mm)	23.6"(600mm)	39.3"(1000mm) 12.5"(320mm) 330lbs(150kg) 11"(280mm)	59"(1500mm)	
Wheel Head Swivel angel Manual Distance Auto Rapid traverse Sliding Seat Supplementary Displacement Min. Feeding Count One Turn Of Hand Wheel (Graduation/rev.)	5.2"(135mm) 1.98"(25mm)	3.7"(95mm)ti 0002"(0.005mm	30° 6.3"(160mm) 1.57"(40mm) otal11.6"(295mm) 0/0.00004"(0.001r		
Wheel O.D. x width x l.D. Speeds(Belt Type)	For For 2085/2495		x1.5"(38mm)x5"(12 )x2"(50mm)x5"(12 1783/1940		
Spindle Head Swivel Angel Center Slope Spindle Speeds	MT:3		30°,-30°) MT:4 verter type)		
Tailstock Center Slope Spindle Stroke	MT:3 0.78"(20mm)		MT:4 0.98"(25mm)		
Table Swivel Angel Traverse Speed Auto Return Min stroke One Return Min Stroke	120°		10 ° (3mm) (20mm)	8°	
Motor Wheel Spindle Workhead Spindle P40T-1 Lubricating Pump Coolant Pump Internal Spindle	3HP(- 1HP(- 1HP(- 1/4HP 1/4HP	4P) 6P) 1/4H (2P)	1HP Sei 1HI IP(2P) 1/4k	P(4P) rvo Motor P(6P) HP(2P) P(2P)	
Tank Capacity Lubricating tank Hydraulic tank Coolant tank		6	2L 5L 50L		
Machine Weight  Ibs(Kg)	4400lbs (2000 kg)	5940lbs (2700kg)	6820lbs (3100kg)	8800lbs (4000kg)	
Notice: The manufacturer reserves the right to modify the design, specifications, mechanismsetc. of the machine without notice.  All the specifications shown above are just for reference.					



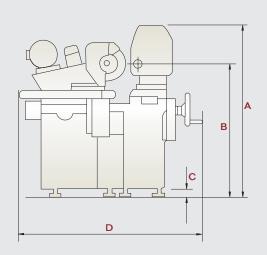


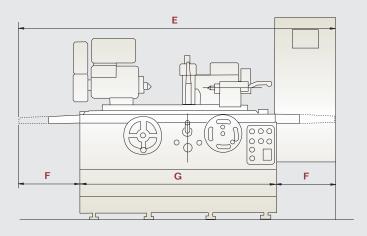






### **GENERAL SPECIFICATIONS**





ITEN	CGP-816	CGP-1224	CGP-1240	CGP-1260		
Α	60.7"(1540mm)					
В	46.5"(1180mm) 48.2"(1230mm)					
С	1.2"(30mm)					
D	70"(1780mm)					
Е	86.6"(2200mm)	139"(3542mm)	177"(4497mm)	220"(5612mm)		
F	19.6"(500mm)	29.9"(761mm)	39.8"(1011mm)			
G	51.9"(1320mm)	79.5"(2020mm)	97.4"(2475mm)	136.8"(3475mm)		

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