



Face plate included

Standard Features

- 160mm slotted face plate is precision ground on a Kellenberger® grinding machine
- A2-4 (GD160LP) extended-nose spindle accept collets, expanding collets, step chucks, manual chucks, power chucks and slotted face plates
- Built-in clamp to handle off-center drilling, cross-axis milling and other high-force cutting applications
- Fast clamp and release in milliseconds for increased parts-per-hour
- Hardened steel worm and hardened steel worm gear for long life and continued accuracy
- Double eccentric design for finest possible factory gear mesh
- Left- or right-hand motor mount

Extended-nose spindle design provides optimum clearance.



Options

- Pneumatic Collet Closer (draw bar force at 70 psi)
GD160LP – 1825 lb / 828 kg
- Tailstocks, and plate trunnion
- Complete array of Hardinge spindle tooling

GD160LP

Workholding Capacities

| | |
|-----------------------------------|--|
| Collets – Round (max. capacity) | 1 ¹ / ₁₆ " (26.98) |
| Collets – Hex (max. capacity) | ²⁹ / ₃₂ " (23.01) |
| Collets – Square (max. capacity) | ³ / ₄ " (19.05) |
| Step Chucks – Regular Depth | up to 4" (101.6) |
| Step Chucks – Extra Depth | up to 4" (101.6) |
| Sure-Grip® Expanding Collets | ¹ / ₈ " - 3" (3.17 - 76.2) |
| 3-Jaw Manual Chuck | 5" (127) |
| 3-Jaw Manual Chuck | 6" (152.4) |
| 3-Jaw Sure-Grip® Power Chuck | 4" (101.6) |
| Fixture Plate – Collet Style | ³ / ₈ " (85.72) |
| Fixture Plate – Collet Style | ⁴ / ₈ " (111.12) |
| Slotted Face Plate (diameter) | 6.3" (160) |
| Collet Stops for part positioning | YES |

SPINDLE

| | |
|--|--------------------------------|
| Runout Maximum (TIR) | 0.0002" (.005) |
| Backlash | 40 arc-sec |
| Speed | 0.001 to 240° per sec |
| Maximum RPM Rapid ^{Min-1} | 40 |
| Load Support | Dual Bearing |
| Maximum part weight | 100 lb / 45 kg |
| Spindle Type | A2-4 |
| Table Diameter | 6.299" (160) |
| Thru Diameter Face Plate (maximum) | 1" or 25mm choice |
| Thru Dia. Opt. Collet Closer (max) | 1.08" (27.4) |
| Width of T-slot | .44" (11.2) |
| Collets | Standard 5C |
| Spindle center to base | 5.000" ± 0.001 (127 ±.0254) |
| Clamping Torque ² (pneumatic) | 150 ft-lb / 203 Nm |

POSITIONING

| | |
|---|-------------|
| Accuracy ⁶ | ±20 arc-sec |
| Repeatability | ±5 arc-sec |
| Resolution (degree) | 0.001 |
| Max Rotation/Step (degree) ⁷ | 9999.99 |
| Gear Diameter (inch/mm) | 3.7 (94) |

MOTOR

| | |
|---------|---------------|
| Fanuc | β iS 2/4000 |
| SEM | HDM82J8-56S |
| Yaskawa | SGMP04A2HA11 |
| Okuma | BL-ME24J-50SN |

OPERATING SPECIFICATIONS

| | |
|---------------------------------------|-------------------|
| Gear Ratio (worm, gear & timing belt) | 90:1 |
| Operating Temp. (maximum ambient) | 120°F/49°C |
| Maximum Air Pressure | 100 psi / 6.9 bar |
| Minimum Air Pressure | 85 psi / 5.8 bar |

WEIGHT

| | |
|--------------|----------------|
| Rotary Table | 120 lb / 57 kg |
|--------------|----------------|

- Notes: 2 – maximum torque applied before slipping occurs
 3 – from standard GE Fanuc H104 amplifier (results vary when using servo control box or 220v power source)
 6 – accuracies can be improved with electronic compensation