

HERA 350

CNC GEAR HOBGING MACHINE

Combining advanced technology, precision components, and economic pricing to enable profitable production of high-quality spur gears, helical gears, worm gears, and other hobbled profiles.

- **High-speed direct-drive hob head with CNC shifting:**
 - Automatic retraction of X-axis during power failure, preventing hob damage.
- **Direct-drive torque motor for the work spindle:**
 - Driven via FANUC® torque motor.
- **Flexible standard dialogue program offering:**
 - One or two gears on a single workpiece.
 - Radial, axial, climb, and/or conventional hobbing on single- or two-cut cycle.
 - Crowning (lead modification) and deburring using two equal hobs.
 - Automatic shifting over broken hob section.
 - Optional re-hobbing (skiving).
- **CNC by FANUC® oi-MF with 6 axes (optional 7):**
 - Tangential position of hob head (shifting) by CNC.
- **Quality components and construction:**
 - Precision, repeatability, and control with linear scales on the X-axis.
 - Cast iron machine base for optimum stability and dampening.

4.2 DP

Max Pitch Rating

1,250

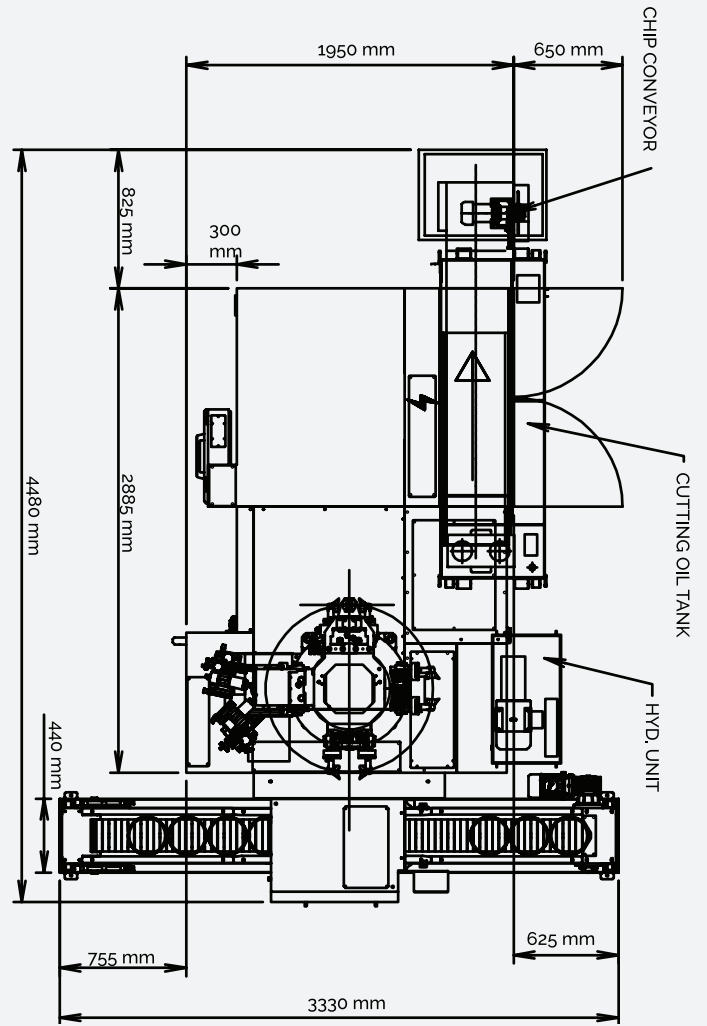
RPM Hob

7

CNC Axes



| WORKPIECE | Hera 350 | |
|-------------------------------------|----------------------|------------|
| | metric/imperial | |
| Maximum pitch rating, hobbing | 6.00 m _n | 4.2 DP |
| Maximum workpiece diameter | 350 mm | 13.78 in |
| Total axial travel | 320 mm | 12.60 in |
| Minimum axial position | 150 mm | 5.91 in |
| Maximum axial position | 470 mm | 18.50 in |
| Total radial travel of hob head | 275 mm | 10.83 in |
| Minimum radial position of hob head | 35 mm | 1.38 in |
| Maximum radial position of hob head | 310 mm | 12.20 in |
| Total tailstock travel | 350 mm | 13.78 in |
| Minimum tailstock position | 410 mm | 16.14 in |
| Maximum tailstock position | 760 mm | 29.92 in |
| Maximum work spindle speed | 500 rpm | |
| HOB HEAD | | |
| Maximum spindle speed | 1,250 rpm | |
| Maximum hob diameter | 150 mm | 5.91 in |
| Maximum cutter width | 200 mm | 7.87 in |
| Maximum cutter shift | 180 mm | 7.09 in |
| Swivel range | +/-45° | |
| DIMENSIONS | | |
| Width | 2,920 mm | 114.96 in |
| Depth | 2,375 mm | 93.50 in |
| Height | 2,650 mm | 104.33 in |
| Weight | 9,800 kg | 21,600 lbs |
| POWER | | |
| Total connected load | 35 kVA | |
| Main spindle motor | 11 kW | |
| Electrical connection | 220V, 3 phase, 60 Hz | |



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