



HERA 1000

CNC GEAR HOBBING 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**
- **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.
- **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.



1.6 DP

Max Pitch Rating

41.3 in

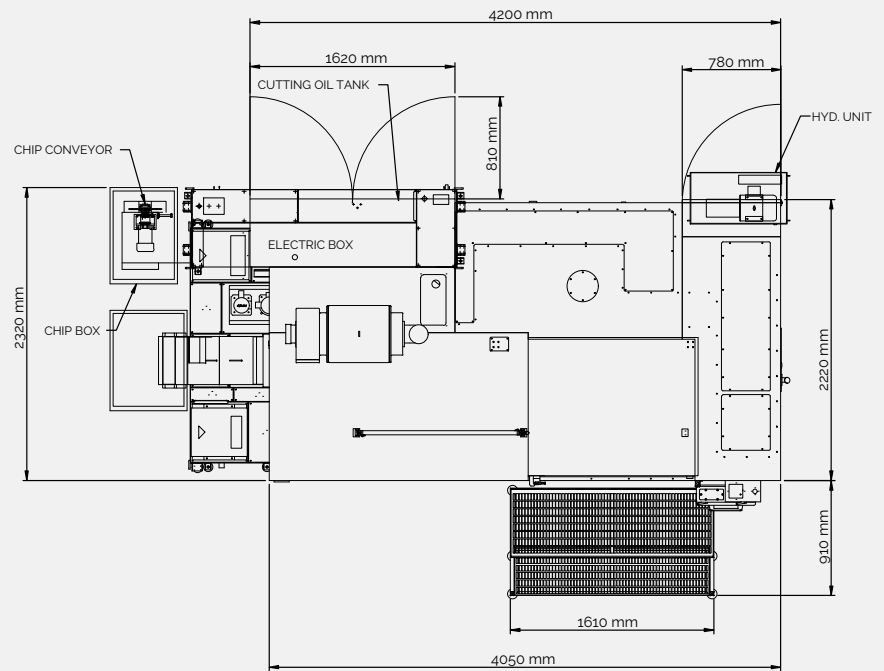
Max Part Diameter

7

CNC Axes



WORKPIECE		Hera 1000 metric/imperial	
Maximum pitch rating, hobbing	16.00 m _n	1.6 DP	
Maximum workpiece diameter	1,050 mm	41.34 in	
Total axial travel	500 mm	19.69 in	
Minimum axial position	250 mm	9.84 in	
Maximum axial position	750 mm	29.53 in	
Total radial travel of hob head	650 mm	25.59 in	
Minimum radial position of hob head	100 mm	3.94 in	
Maximum radial position of hob head	750 mm	29.53 in	
Total tailstock travel	600 mm	23.62 in	
Minimum tailstock position	400 mm	15.75 in	
Maximum tailstock position	1,000 mm	39.37 in	
Maximum work spindle speed	50 rpm		
Maximum table load	5,500 kg	12,125 lb	
HOB HEAD			
Maximum spindle speed	400 rpm		
Maximum hob diameter	320 mm	12.60 in	
Maximum cutter width	340 mm	13.39 in	
Maximum cutter shift	280 mm	11.02 in	
Swivel range	+35°/-45°		
DIMENSIONS			
Width	5,200 mm	204.72 in	
Depth	3,200 mm	125.98 in	
Height	3,800 mm	149.61 in	
Weight	23,000 kg	55,707 lbs	
POWER			
Total connected load	150 kVA		
Main spindle motor	30 kW		
Electrical connection	220V, 3 phase, 60 Hz		



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