

HERA 90

CNC GEAR HOBBIING MACHINE

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

- **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® spindle motor with rotary encoder for accuracy.
- **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 7 axes (optional 8 with gantry automation):**
 - Tangential position of hob head (shifting) by CNC.
- **Optional 90-W configuration:**
 - Long-shaft hobbing with optional 600 mm (23.62 in), 700 mm (27.56 in), or greater lengths.
- **Miter gear (straight bevel gear) cutting:**
 - Index milling and Conikron generating for modules ≤ 0.5 mn, 50.8 DP.
- **Quality components and construction:**
 - Precision, repeatability, and control with linear scales on the X-axis.
 - Cast iron machine base with slant bed for optimum stability, dampening, and chip removal.

8.5 DP

Max Pitch Rating

6,000

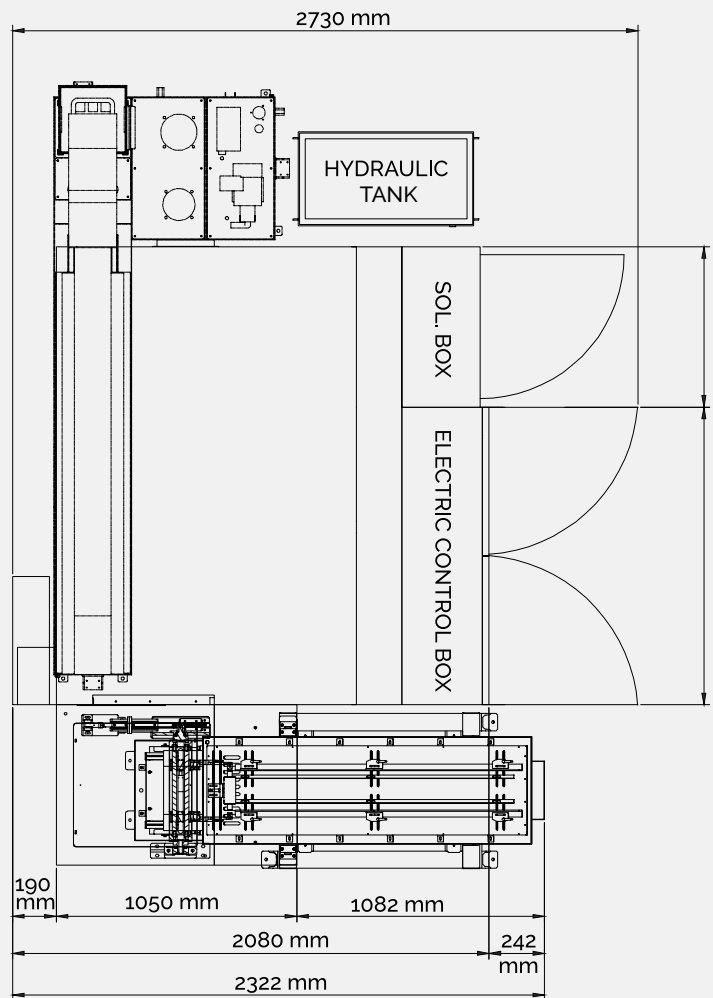
RPM Hob

8

CNC Axes



WORKPIECE		Hera 90 metric/imperial	
Maximum pitch rating, hobbing	3.00 m _n	8.5 DP	
Maximum workpiece diameter	85 mm	3.35 in	
Total axial travel	200 mm	7.87 in	
Minimum axial position	80 mm	3.15 in	
Maximum axial position	280 mm	11.02 in	
Total radial travel of hob head	80 mm	3.15 in	
Minimum radial position of hob head	10 mm	0.39 in	
Maximum radial position of hob head	90 mm	3.54 in	
Total tailstock travel	250 mm	9.84 in	
Minimum tailstock position	175 mm	6.89 in	
Maximum tailstock position	705 mm	27.76 in	
Maximum work spindle speed	1,000 rpm		
HOB HEAD			
Maximum spindle speed	6,000 rpm		
Maximum hob diameter	65 mm	2.56 in	
Maximum cutter width	190 mm	7.48 in	
Maximum cutter shift	160 mm	6.30 in	
Swivel range	-115°/+45°		
DIMENSIONS			
Width	3,408 mm	134.17 in	
Depth	2,325 mm	91.54 in	
Height	2,135 mm	84.06 in	
Weight	9,000 kg	19,842 lbs	
POWER			
Total connected load	25 kVA		
Main spindle motor	5.5 kW		
Electrical connection	220V, 3 phase, 60Hz		



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