HELIOS
GEAR PRODUCTS

M673

CNC GEAR SHAPING MACHINE

Combining advanced technology, precision components, and automation to enable profitable production of high-quality internal and external gears.

- **High-speed CNC shaping:**
  - 2000 strokes per minute
  - Up to seven CNC axes
  - Flexible automation system with options
- **Flexible workpiece clamping system**
- **Effective tailstock with optimized clearance**
- **Versatile shaper cutters:**
  - Disc type
  - Bell type
  - Shank type
- **Flexible automation systems:**
  - Linear loader
  - Robotic loader
  - Various magazine systems

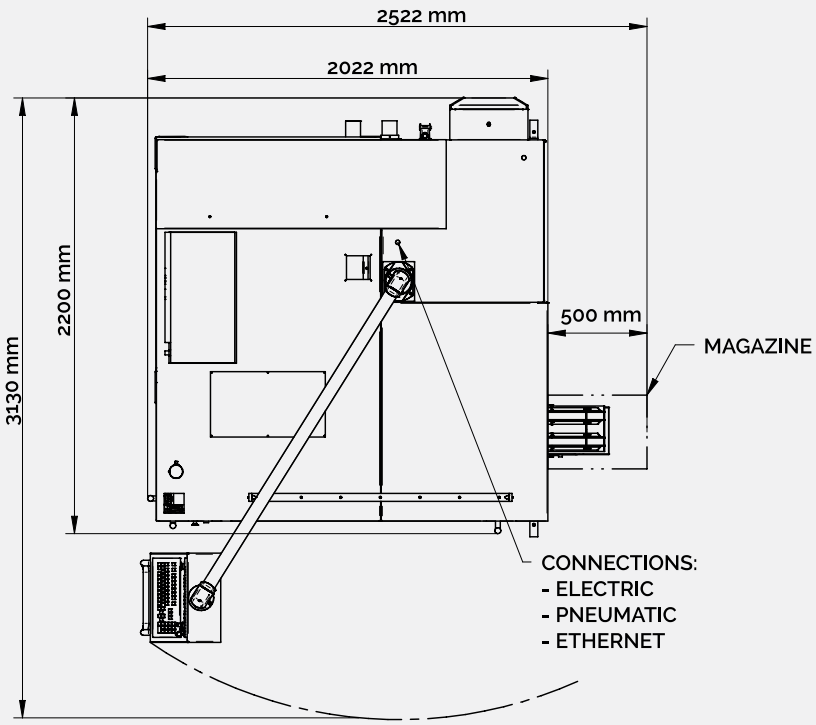


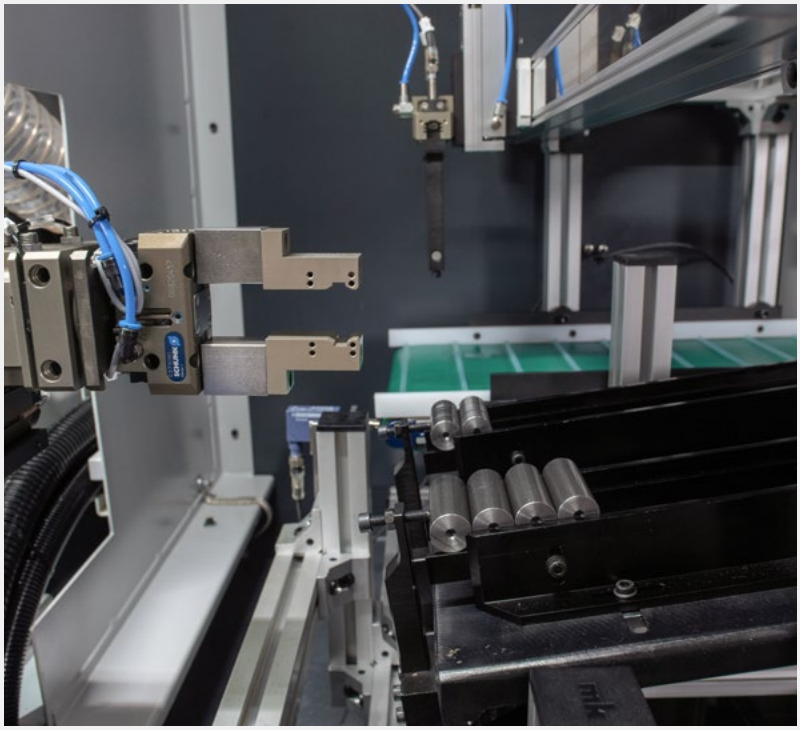
20 DP
Max Pitch Rating

3.15 in
Max Gear Diameter

7
CNC Axes

WORKPIECE	M673 metric/imperial	
Maximum pitch rating	1.25 m_n	20 DP
Maximum workpiece diameter	80 mm	3.15 in
Minimum workpiece diameter (internal/ external)	12 mm/5 mm	0.47 in/0.19 in
Maximum workpiece length (internal / external)	80 mm/120 mm	3.15 in/4.72 in
Maximum shaping length	27 mm	1.06 in
KINEMATICS		
Stroke length (A-axis, min/max)	10 mm/30 mm	0.39 in/ 1.18 in
Taper (B-axis)	+/- 5°	
Tailstock travel (W-axis)	195 mm	7.67 in
Tailstock position (W-axis, min/max)	57-252 mm	2.24-9.92 in
Radial travel (X-axis)	220 mm	8.61 in
Radial position (X-axis, min/max)	-44 mm/176 mm	-1.73 in/6.93 in
Axial slide travel (Z-axis)	195 mm	7.67 in
Stroke (saddle) position (Z-axis, min/max)	51-246 mm	2.01-9.69 in
Cutter spindle stroke speed	2000 double strokes/min	
Maximum cutter diameter	100 mm	3.94 in
Maximum work spindle speed	300 rpm	
MACHINE		
Length	2,400 mm	95 in
Width	3,100 mm	122 in
Height	3,000 mm	118 in
Weight	9,000 kg	19,842 lb





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