

# Farrell Engineering Ltd

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Category	:-	Gear Shapers	Serial No	:-	
Model	:-	SH 250/300	Country	:-	Switzerland
Make	:-	MAAG	Type of Machine	:-	Gear Shapers
Year	:-		Weight	:-	0.0
Dimensions	:-		Power	:-	
Location	:-		Asking Price	:-	On Request

## Specification :-

- **Max. Wheel Diameter: 3080 mm**
- **Min. Wheel Diameter: 200 mm**
- **Gear Width: 870**
- **Max. Module (Profile Cutter): 25**
- **Max. Module (Generating Cutter): 50**
- **Max. Number of Teeth: 1000**
- **Min. Number of Teeth: 12**
- **Tool Length (Max.): Approximately 312 mm**
- **Max. Ram Stroke: 700 mm**
- **Min. Ram Stroke: 70 mm**
- **Depth of Hole: 1200 mm**
- **Dividing Plate Diameter: 1116 mm**
- **Table Bore Diameter: 420 mm**
- **Table Travel (Max.): 2 x 460 = 920 mm**
- **Ram Stroke Speed: 3.2 - 40 m/min**
- **Table Load: 15000 kg**
- **Ram Strokes per Shifting: 8 - 150**
- **Clamping Table Diameter: 1100 mm**
- **Helical Adjustment of Ram: Unlimited degrees**
- **Max. Helical Angle: 35 degrees**
- **Weight of the Machine (Approx.): 38000 kg**
- **Dimensions of the Machine (Approx.): 6550 x 4275 x 3310 mm**

## Description :-

### **Description:**

The machine is Like new and will be delivered with a precision chart, ensuring cutting quality DIN 7.

The main characteristics of the machine include excellent accuracy and high versatility in producing external gears, internal gears, herringbone gears, double helical gears, and gear racks. The MAAG SH 250/300 offers outstanding economy due to its high metal removal rate (for material up to 1400 N/mm<sup>2</sup> and 400 HB) and the simplicity of form and long tool life of the roughing cutter, which keeps tooling costs extremely low.

After the roughing operation, gear teeth are finished machined in the same setup by the generating method, often avoiding the need for grinding. With the full swivel cutter ram, any desired helix angle can be set, allowing for very good tooth accuracy in short machining time during the finishing generating operation. Machining cycles for the plunge cut and generating operations occur automatically.

The machine's vertical working range is large enough to usually allow complete machining of double-helical gears without altering the setup. The cutter ram is driven by a DC reversible motor via a 7-start spindle.

Equipped with a swivelling cutter holder DS-250, the machine can cut helical gears or double helical gears with a small run-out groove. When using the swivelling cutter holder for cutting gears with great helix angles, the ram stroke could be highly reduced.