

Light Keel Roll Forming Machine

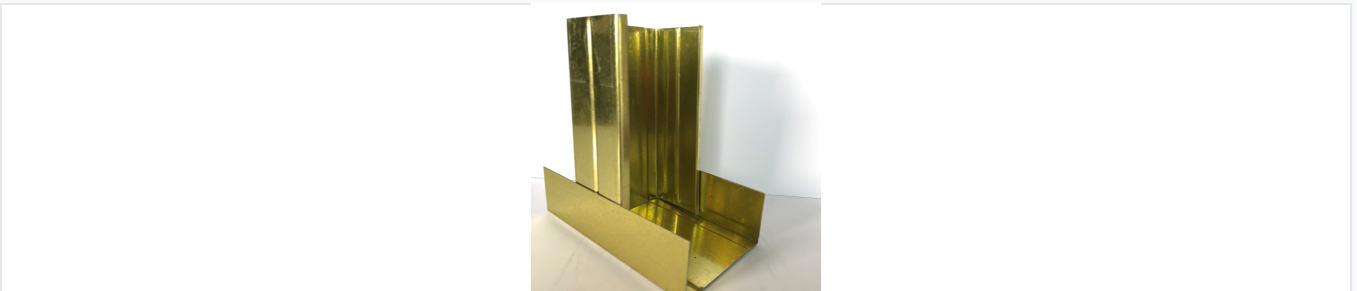
This high-speed machine produces light steel keels at up to 80 meters per minute. It is engineered for efficient and precise forming of light gauge steel profiles.



ADDITIONAL IMAGES



Overview



The machine is capable of high-volume manufacturing at speeds of 80 meters per minute.

High-Speed Light Keel Production

This high-speed roll forming machine is engineered for the efficient production of light gauge steel profiles, reaching industry-leading speeds of up to 80m/min. Designed for quiet operation and minimal material waste, it features a suspended structure and a sealed gear box for enhanced durability. The system is highly versatile, allowing for quick mould changes to produce various profiles including angles, studs, tracks, and furring channels.

Performance Metrics

Key Performance Indicators

80 m/min

Maximum Forming Speed

135 mm

Max Feeding Width

5000 kg

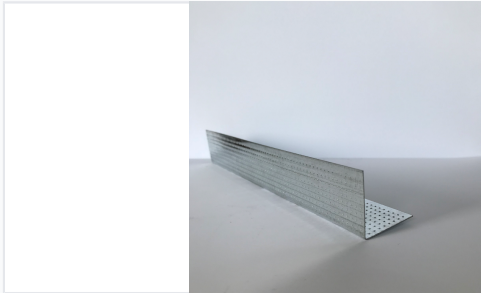
Standard Decoiler Capacity

Technical Specifications

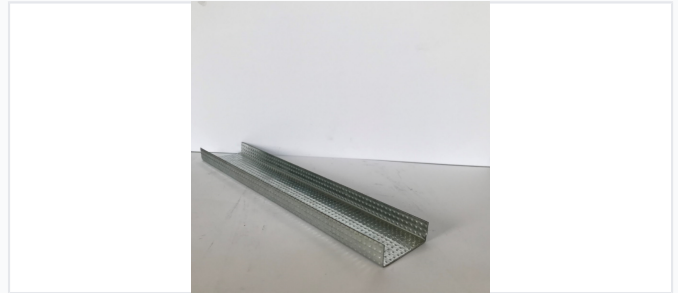
Technical Parameters

Parameter	Details
Main Motor Power	15KW (Dependent on final design)
Hydraulic Station Power	5.5KW (Dependent on final design)
Control System	Mitsubishi PLC & Converter
Voltage Requirement	380V, 3-Phase, 50Hz (Customizable)
Machine Dimensions	Approx. 16m * 1.1m * 1.2m
Cutting Blade Material	Cr12 mold steel with quench treatment

Production Capabilities



Example of a 90-degree angle profile produced with precision.



U-shaped stud track profile for drywall construction applications.

Supported Profiles

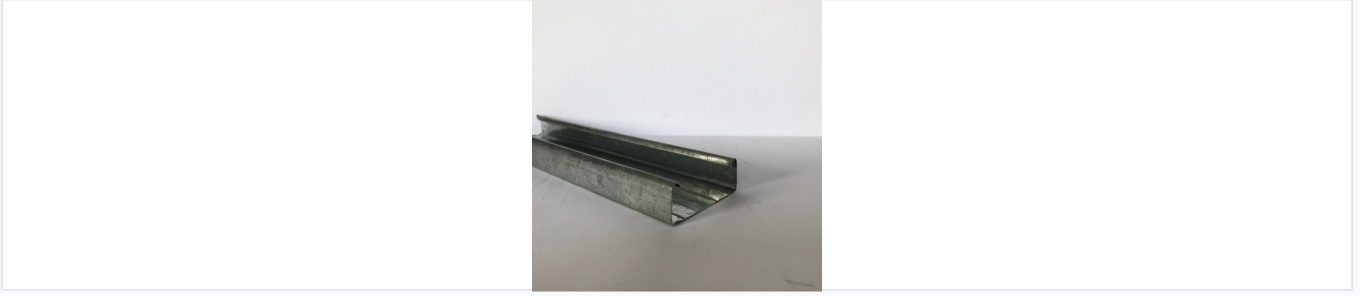
Angle, Stud, Track, 38 Main Furring, 50 Furring

Design Features

Mechanical Advantages

- Sealed gear box for protection and longevity
- Suspended structure design
- Turbine vortex rod drive system
- Double head decoiler for easy material turning
- Noiseless operation
- Zero material waste during production

Process Flow



Precision-engineered forming stations ensure consistent profile dimensions.

Production Stages

- Decoiler / Uncoiler
- Feeding device
- 12 Forming stations
- Straightening device
- Punching station
- Hydraulic cutting unit
- Servo tracking system
- Receiving table

Material Compatibility

Raw Materials

Cold-rolled steel strip • Heat-treated galvanized steel strip