

# Light Keel Roll Forming Machine

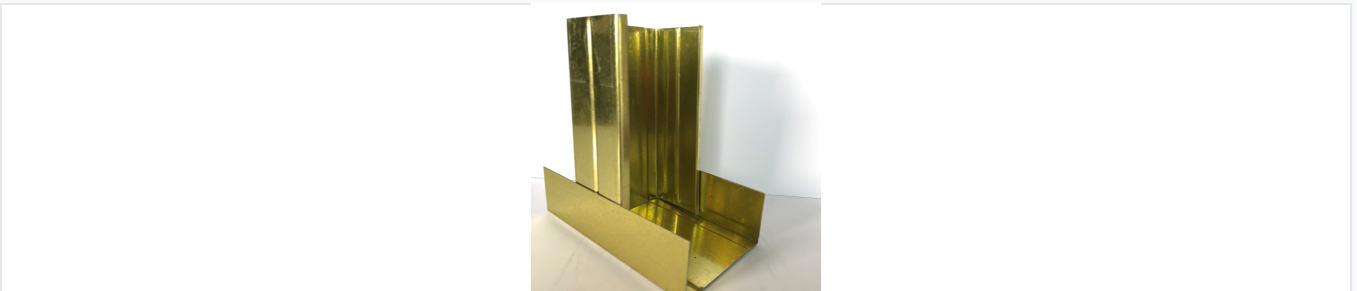
This high-speed machine produces light steel keels at up to 80 meters per minute. It is engineered for efficient and precise forming of light gauge steel profiles.



## 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**

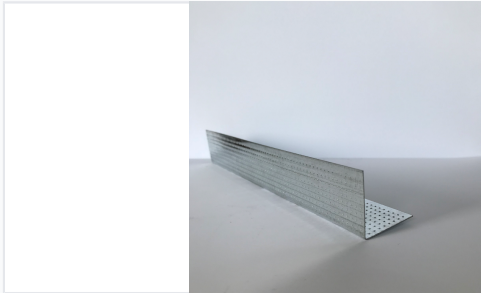
Standard Decoiler Capacity

## Technical Specifications

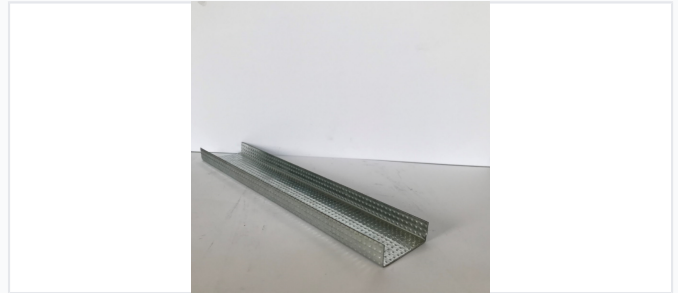
### Technical Parameters

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

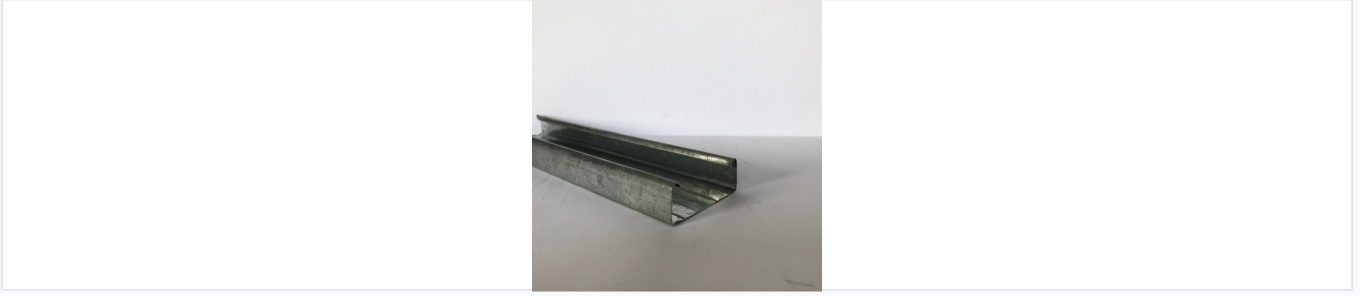
Angle, Stud, Track, 38 Main Furring, 50 Furring

## 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