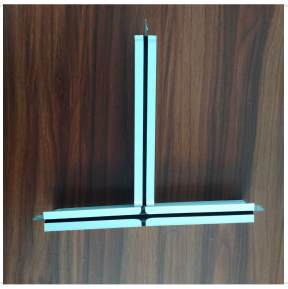
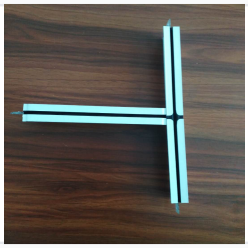
FUT Ceiling Grid Production Line

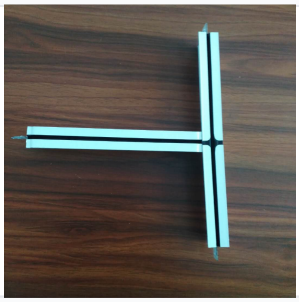
This FUT ceiling grid production line is engineered for the automated manufacturing of ceiling profiles. The line features an uncoiler, punching die, forming machine, and a main support structure that is 3600mm in length.



ADDITIONAL IMAGES



System Overview

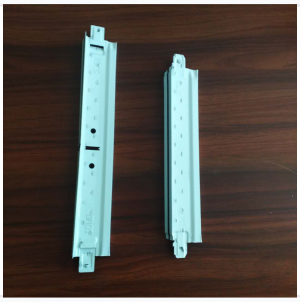


Close-up of the produced T-grid profiles, highlighting the structural connection mechanism.

High-Efficiency Ceiling Grid Production

This automated production line is engineered for the precise manufacturing of high-quality ceiling grid profiles. It integrates advanced roll forming, hydraulic cutting, and multi-stage punching processes to ensure consistent output and structural integrity. Designed for industrial efficiency, the system features a robust, CNC-controlled architecture capable of high-speed production while maintaining strict tolerance standards.

Machine Configuration



Main tee profile featuring precise pre-punched holes for efficient cross-tee connection.

Included Components

- 3-ton manual decoiler
- Main forming unit with 6 pairs of punching moulds
- Hydraulic stop cutting system
- Dedicated punching machine for side holes
- Hydraulic power station
- PLC control system

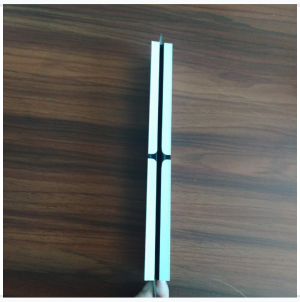
Technical Specifications

Standard T-grid profile produced by the line, designed for durable suspended ceiling applications.

Detailed Technical Parameters

Parameter	Specification
Machine Body Plate	23mm thickness
Roller Material	Cr12 (HRC 58-62)
Shaft Material	45# Steel (¦40)
Collection Table	3600mm length, 40*60 steel square tubes
Drive System	Chain Driven
Punching Moulds	5 sets (SKD11 material)

Performance Metrics



Precision-engineered guide rail component used within the automated forming process.

Performance Metrics

7.5 kW	30 m/min	0.1 mm	0.05 mm
Main Power	Production Speed	CNC Accuracy	Roller Symmetry Tolerance