

Arched Roof Panel Roll Forming Machine

This roll forming machine is designed for manufacturing arched roof panels with various arch profiles. It is capable of producing panels on-site, providing an efficient and cost-effective solution for creating arched roofing structures.



Overview

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This high-performance roll forming machine is engineered for the efficient production of arched roof panels, commonly known as K-Span structures. Designed for versatility and durability, the system features a robust welded steel frame and precision-engineered rollers coated with chrome for extended service life. It integrates advanced PLC control systems and hydraulic cutting mechanisms to ensure consistent, high-quality output for on-site construction projects.

Technical Specifications

Main Motor Power	7.5 Kw
Hydraulic Motor Power	5.5 Kw
Roll Stands	13
Decoiler Weight Capacity	5 T

Material Specifications

Uncoil Width	914 mm
Processing Thickness	0.8 - 1.2 mm
Roller Material	High grade 45# steel with 0.05mm Chrome coating
Cutting Blade Material	Cr12 (Heat treated to HRC 58-60)

System Components

Included Equipment

- Manual decoiler
- Main roll forming machine
- Hydraulic cutting device
- Hydraulic station
- PLC Control system
- Curving machine
- Auto seamer
- Output table

Operational Metrics

Key Performance Metrics

380 V

Voltage

50 Hz

Frequency

Technical Process Flow

Manual Decoiler -> Feed with guide -> Roll forming -> Cut with fixed length -> Output with table-curve in site