SCOTTSDALE

THE TRUSTED STEEL-FRAMING PARTNER



Scottruss 6050

STEEL TRUSS FRAMING SYSTEM

COMPLETE FLOOR AND ROOF FRAMING. FULLY AUTOMATED.

From fully engineered digital models, Scottruss automatically fabricates complete cold-formed steel floor and roof framing systems—with error-free execution and virtually unlimited geometry.

powered by ScotSteel

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Scottruss 6050 is an end-to-end automated steel truss framing system for cold-formed steel floor and roof structures. Powered by the Scot**Steel** Software Suite, each truss moves from design and engineering directly into CNC fabrication through one continuous digital process.

The same digital model drives fabrication—eliminating separate detailing and conventional shop-drawing preparation. Model-driven CNC fabrication produces every member to its exact length, geometry, and connection requirements, exactly as designed.

IDEAL APPLICATIONS

The **Scottruss 6050** is engineered to excel across a wide range of construction environments and project types:

- Low-rise and mid-rise residential and commercial developments.
- Roof and floor trusses in multi-story buildings and industrial structures.
- Mezzanines and floors with larger spans and heavier loads.
- Roof and floor restoration projects.
- Barn and carport roof trusses.

FRAMING CAPABILITIES

From engineered digital models, fabricators can create complete roof and floor framing systems across an exceptionally wide range of geometries, including:

- Roof trusses in virtually any configuration: gable, hip, mono-slope, skillion, wide-span, and custom geometries.
- Floor trusses in any configuration: tapered, straight, and deep floor joists.
- Flat, cathedral, and raked ceiling structures.
- Model-driven truss members automatically fabricated to exact length, geometry, and connection requirements.





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Why fabricators choose Scottruss 6050

ENGINEERED ONCE. FABRICATED DIRECTLY.

Powered by the Scot**Steel** Software Suite, Scottruss connects automated design, advanced structural engineering, CNC fabrication, and production management in one digital environment. Scot**Steel** creates the truss geometry, Scot**Struct** performs the structural engineering, Scot**RF** converts the engineered model directly into machine instructions, and Scot**Fab** manages the fabrication operation.
No manual recreation of the engineered model is required between design and fabrication.

UNLOCK NEW REVENUE OPPORTUNITIES

Scottruss 6050 enables builders and fabricators to go beyond traditional framing and offer pre-engineered roof and floor truss solutions for a wide range of construction systems—including light-gauge steel, structural steel, timber, concrete, and precast. By expanding their product offering, fabricators can access **new market segments,** pursue **higher-value projects**, and **unlock new sources of revenue**.

SCALE WITHOUT STARTING FROM SCRATCH

Built on the same Scottsdale ecosystem as Scotpanel and KFS Framemaker, Scottruss provides a natural way to expand without starting from scratch. Fabricators can leverage their **existing team**, **infrastructure**, **processes**, and **expertise** to add truss production capabilities with minimal disruption. Scottruss 6050 can operate as part of a complete Scottsdale framing system, combining wall, floor, and roof framing—or as an independent engineered-truss business, supplying roof and floor trusses for projects using a wide range of primary structural systems.

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Why fabricators choose Scottruss 6050

ONE STEEL INVENTORY. COMPLETE FRAMING OPTIONS

Scottruss 6050 uses the **same galvanized steel coil width** as the **Scotpanel 7090**, allowing manufacturers to produce wall panels, floor systems, roof trusses, and complete frame structures from the same stock material. By reducing coil inventory, simplifying material management, and increasing purchasing efficiency, manufacturers benefit from lower operating costs and greater production flexibility.

HIGH-VOLUME AUTOMATED FABRICATION

With enhanced coil guiding that promotes stable material flow, Scottruss **delivers reliable high-volume fabrication** with exceptional consistency. By minimizing downtime and reducing machine wear, fabricators can maximize throughput, improve operational efficiency, and increase overall production capacity.

STRONGER PROFILE. STRONGER CONNECTIONS. LONGER SPANS

The **50-mm (2-in.) hat section** is engineered for superior combined axial and strong-axis bending performance, enabling **greater strength** and **longer spans** than conventional lipped channels under equivalent loading. Scottsdale's proprietary bolted connections with reinforced spacers create rigid, high-strength truss joints engineered for structural performance and long-term reliability.

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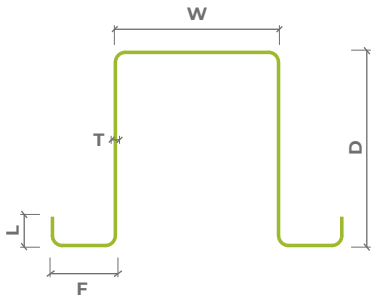
Scottruss 6050

		G1 Entry Level	G2 Most popular
GENERAL	Machine Dimensions (LxWxH).	123 x 28 x 58 in. | 312 x 71 x 148 cm.	123 x 28 x 58 in. | 312 x 71 x 148 cm.
	Self Weight.	3,000-lb | 1,360-kg.	3,000-lb | 1,360-kg.
	Maintenance Kit.	1-year.	2-year.
	Warranty.	1-year.	2-year.
	Max Operating Speed.	1,490 m/hr | 4,900 ft/hr.	1,490 m/hr | 4,900 ft/hr.
POWER	Power Phase.	Three Phase.	Three Phase.
	Motor Power (powertrain)	5.03 kW.	5.03 kW.
	Powertrain GearBox.	50:1.	50:1.
	Power Supply.	415 V.	415 V.
	Power Frequency.	50 or 60 Hz.	50 or 60 Hz.
	Power Consumption (AV/Max).	8A / 36A.	8A / 27A.
COIL	Max Tensile Strength.	45–85 ksi, up to 20 gauge. 65 ksi, max 18 gauge. 310–586 MPa, up to 20 gauge. 450 MPa, max 18 gauge.	45–85 ksi, up to 20 gauge. 65 ksi, max 18 gauge. 310–586 MPa, up to 20 gauge. 450 MPa, max 18 gauge.
	Max Yield Strength.	33–70 ksi, up to 20 gauge. 50 ksi, max 18 gauge. 230–482 MPa, up to 20 gauge. 345 MPa, max 18 gauge.	33–70 ksi, up to 20 gauge. 50 ksi, max 18 gauge. 230–482 MPa, up to 20 gauge. 345 MPa, max 18 gauge.
	Coil Width.	6.8 in. | 173–mm.	6.8 in. | 173–mm.
	Coil Thickness Adjustment.	Manual.	Automatic.
	Standard Decoiler Capacity.	3,300-lb | 1,500-kg.	6,500-lb | 2,950-kg.
SOFTWARE	ScotSteel & ScotRF License	10,000-m | 33,000 ft Green ScotSteel & ScotRF license with unlimited software/machine support.	Unlimited 1-Year Gold ScotSteel & ScotRF license with unlimited software/machine support.
	ScotRF software pre-loaded control laptop.	Yes ✓	Yes ✓
	Revit Plugin Option.	Yes ✓	Yes ✓
FEATURES	Efficient 10-roller station set-up, less power use, less wear.	Yes ✓	Yes ✓
	Double-Bolt Function.	Yes ✓	Yes ✓
	Web Notch Toolkit.	Yes ✓	Yes ✓
	Knowledge Base Access.	Yes ✓	Yes ✓
	Mobility Option.	Yes ✓	Yes ✓
	Dual Head Tooling.	Yes ✓	Yes ✓
	Additional Available Stations.		Yes ✓
	Inkjet Labeling.		Yes ✓
	Standard Workmanship Toolkit.		Yes ✓
	Premium Cover Enhanced Safety.		Yes ✓

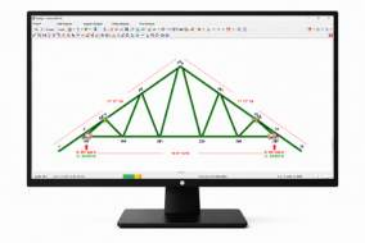
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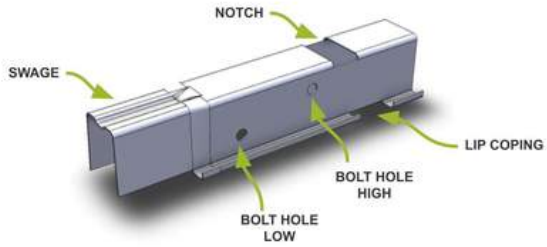
PROFILE PLATFORM

Number of Profiles:	Single-Profile
Profile Shape:	Hat-Section
Profile Depth:	2-in. (50 mm)
Gauge Range:	24–18 Ga. (0.55–1.2 mm)



MODEL-TO-TRUSS FABRICATION. ROLL FORMING OPERATIONS





SCOTTRUSS 6050 INCLUSIONS

24/7 SUPPORT & SERVICE

24/7 technical support from our team of experts to keep your fabrication running without interruption, plus full access to Knowledge Base — **an extensive online library** full of video tutorials, technical documentation, and continuous learning resources designed to support your team well beyond initial training.

TRAINING & CERTIFICATIONS

Every Scottruss 6050 includes comprehensive training and commissioning, covering **both design software and machine operation** to ensure your team is fully equipped and fabrication-ready from day one. Participants may earn up to four Scottsdale industry-recognized **professional certifications**, validating their expertise in software, fabrication, and machine operation.

CODE COMPLIANCE

Approval Reports:
ICC-ES ESR-2093
ICC-ES ESR-2093-AU
ICC-ES ESR-2093-NZ
ICC-ES ESR-2093-CA
CE Marking

Scan
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