



X5 System

The PinnacleFRAMER X5 (**14 Gauge, 2mm Coil**) System is a fully automatic multiple-size C profile production system for heavy gauge wall framing, C floor joist, and large span residential & commercial truss from 75mm to 250mm equipped with 5 profile sizes punch toolings:

- The major applications are for medium & heavy residential mid-level residential structures from 1 to 8 stories, medium level commercial structures, institutional building structures, prefab modular structures, large span truss, and warehouse structures.
- Patented roll forming technology, high speed production system with 25 set of tools to make sure a complete steel framing system.
- Patented PinnacleTRUSS design and production system, innovative B2B truss and total warehouse structure framing including all connection details by using only one size C profile.

The PinnacleFRAMER X5 System integrates the intelligence of the PinnacleCAD structure calculation software, PinnacleCAD 3D modeling & detailing software, production and PinnacleCAD machine control software to achieve a truly integrated and totally automated design to production system. This framing system engineers, designs and produces wall frames, floor truss, and roof trusses complying to all major international light steel framing building codes: America, British, Euro, Canadian and Australian. Equipped with Pinnacle's patented roll forming technology, and also Pinnacle's patented PinnacleTRUSS application system, this totally integrated design to production system delivers high productivity, top quality and 100% accurate output. It's the industry's most innovative and competitive Multiple-Profile-Production-System of the same category!

X5 System is fully automated production system, which comes with below list of innovative features:

- Fully automatic and infinite profile web size changeover from 75mm (3") to 250mm (10")
- Fully automatic changeover capable for all punch tools
- 5 profile sizes pre-setup: 75mm (3"), 89mm (3.5"), 150mm (6"), 200mm (8"), 250mm (10")
- Capable of coil thickness from 24 gauge (0.7mm) to 14 gauge (2.0mm), 14 Gauge!
- High speed & accuracy Servo machine drive system, top line speed up to 2100 m/h!
- Cutting edge Servo hydraulic system, saving energy, saving power, total GreenTech!

- Auto-Gauging: automatically adjusts gauge range when coil changes thickness!
- World's highest speed continuous punch tools:
 - 1) PinnacleTRUSS punch (for patented B2B truss application)
 - 2) Truss index hole punch
 - 3) Flange bolt hole punch
 - 4) Web anchor bolt hole punch
 - 5) Service hole punch
 - 6) 4 holes floor joist web tab punch
 - 7) Left & right lip notch punch
 - 8) Web notch punch
 - 9) Truss end cut punch
 - 10) Flange dimple hole punch
 - 11) Shear cut
 - 12) End crimp punch
- Inkjet printing to label individually all produced pieces according to their ID!
- Auto swage tools to make sure profiles fit into each other perfectly in C + C framing!
- Infra-red controlled variable speed 3000kg (6000lb) coil feeding system!
- Auto receiving & stacking system to maximize profiles receiving efficiency!

Major Building Applications of X5 System:

- Low Rise Residential Building Structures
- Mid Rise Residential Building Structures up to 8 Floors
- Student & Staff Accommodation Facilities from 1 to 8 stories
- Floor & Roof Truss production
- Portable Buildings & Cabins
- Floor Joist systems for residential structures
- Medium level span B2B roof truss
- Medium level Column & Beam Warehouse Structures
- Medium level Modular Building Structures
- Medium level Commercial and Industrial Building Structures



X5 SYSTEM SPECIFICATIONS

Model:	PinnacleFRAMER X5 Frame, Truss & Joist Design & Production Multi Profile Sizes Auto Changeover Production System (Changeover Time Between Sizes Less Than 10 Minutes Including Web Size and All Punch Toolings)
Software:	<ul style="list-style-type: none"> • PinnacleCAD Engineering & Calculation • PinnacleCAD 3D Modeling & Detailing • PinnacleCAD Machine Control & Factory
Stud & Track Framing: Truss Framing:	C+C or C+U C+C In-Line, and B2B back to back (Pinnacle Patented)
Number of Profiles:	Infinite & Unlimited Profile Web Sizes from 75mm (3") to 250mm (10")
Profile Sizes with All Tools Equipped:	<ul style="list-style-type: none"> • 75mm, (3") for wall & truss framing • 89mm, (3.5") for wall & truss framing • 150mm, (6") for wall & truss framing • 200mm, (8") for floor joist framing • 250mm, (10") for floor joist framing
Material Thickness:	24 gauge to 14 gauge (0.7mm to 2.0mm)

Roll Forming:	11 Stations, Auto-Gauging
Frame & Truss Punch Tools:	<ul style="list-style-type: none"> • PinnacleTRUSS punch • Truss Index hole punch • Flange bolt hole punch • Web anchor symmetrical bolt holes punch • Service hole punch • Floor joist web tab punch • Left & right lip notch punch • Web notch punch • Truss end cut punch • Flange dimple hole punch • Shear cut • End crimp punch • Auto swage
Standard Production Speed (Output):	Walls Frames: 500m/h to 900m/h Floor & Roof Truss: 300m/h to 500m/h Floor Joists: 900m/h
Machine Maximum Line Speed:	Up to 2100m/h
Main Drive System:	SERVO Driven, High Speed System
Main Hydraulic System:	All Temperature Environment, High Power, High Speed System
Machine Length/Width/Height:	6000mm x 1000mm x 1700mm
Weight (Approximate):	12,000 kg (24,000lb)
Power Supply / Consumption:	380 VAC / 50 KVA
Printer:	Inkjet Printer Fully Integrated for Profile Individual ID & Marking
Profile Receiving System:	Fully Automatic Receiving & Stacking System Fully Integrated with Roll Forming Sequence and Speed
Powered De-Coiler with Infra-red:	3000 kg (6000lb) Infra-red Controlled Variable Speed Coil Feeding System