



## **X1 System**

The PinnacleFRAMER X1 (18 Gauge) System is a fully automatic wall, floor and roof truss frame design production system using one single dedicated C shape profile.

- The major applications are for light residential low-level structures from 1 to 4 stories, light commercial structures, institutional building structures and prefab temporary structures.
- Patented roll forming technology, high speed production system with 12 set of tools to make sure a complete steel framing system.
- Available dedicated C profile sizes: 63mm, 75mm, 89mm, 92mm, 100mm, 140mm, 150mm.

The PinnacleFRAMER X1 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, this totally integrated design to production system delivers high productivity, top quality and 100% accurate output. It's rated as the industry's most efficient, reliable and highest spec Single-Profile-Production-System!

X1 System is fully automated production system, which comes with below list of innovative features:

- Capable of coil thickness from 26 gauge (0.6mm) to 18 gauge (1.2mm), 16 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:
  - Service hole punch
  - Left & right lip notch punch
  - Web notch punch
  - Truss end cut punch
  - Flange dimple hole punch
  - Shear cut
  - 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 1500kg Decolier coil feeding system!
- Auto stacking produced profiles receiving system to maximize efficiency!

Major Building Applications of X1 System:

- Low Rise Residential Building Structures
- Mid Rise Residential Building Structures up to 4 Floors
- Student & Staff Accommodation Facilities from 1 to 4 stories
- Floor & Roof Truss production
- Portable Buildings & Cabins
- Light Modular Building Structures
- Light Commercial and Industrial Building Structures



## X1 SYSTEM SPECIFICATIONS

Model:	PinnacleFRAMER X1 Frame & Truss Design, Production System
Software:	<ul style="list-style-type: none"> <li>• PinnacleCAD Engineering &amp; Calculation</li> </ul>

	<ul style="list-style-type: none"> <li>• PinnacleCAD 3D Modeling &amp; Detailing</li> <li>• PinnacleCAD Machine Control &amp; Factory</li> </ul>
Stud & Track Framing Method:	C+C or C+U
Number of Profiles:	Dedicated 1 x C & 1 x U
Machine Model with Profile Sizes:	<ul style="list-style-type: none"> <li>• X1-63 (63mm, 2.5")</li> <li>• X1-75 (75mm, 3.0")</li> <li>• X1-89 (89mm, 3.5")</li> <li>• X1-92 (92mm, 3&amp;5/8")</li> <li>• X1-100 (100mm, 4")</li> <li>• X1-140 (140mm, 5.5")</li> <li>• X1-150 (150mm, 6.0")</li> </ul>
Material Thickness:	26 gauge to 18 gauge (0.6mm to 1.2mm)
Roll Forming:	10 Stations, Auto-Gauging
Frame & Truss Punch Tools:	<ul style="list-style-type: none"> <li>• Service hole punch</li> <li>• Left &amp; right lip notch punch</li> <li>• Web notch punch</li> <li>• Truss end cut punch</li> <li>• Flange dimple hole punch</li> <li>• Shear cut</li> <li>• End crimp punch</li> <li>• Auto swage</li> </ul>
Standard Production Speed (Output):	Walls Frames: 500m/h to 900m/h Floor & Roof Truss: 300m/h to 500m/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:	3000mm x 800mm x 1500mm
Weight (Approximate):	1500 kg (3000lb)
Power Supply / Consumption:	380 VAC / 30 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:	1500 kg (3000lb) Infra-red Controlled Variable Speed Coil Feeding System

