



## X3 System

The PinnacleFRAMER X3 (**16 Gauge, 1.6mm**) System is a 3 size C profiles fully automatic wall, floor and roof truss frame design production system, equipped with fully automatic punch tools changeover, fully automatic C web size adjustment, fully automatic coil gauge adjustment:

- The major applications are for light & heavy residential low-level structures from 1 to 6 stories, light commercial structures, institutional building structures and prefab temporary structures, medium span truss, and light warehouse structures.
- Patented roll forming technology, high speed production system with 15 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.
- Available combinations: (63mm, 89mm, 150mm), (75mm, 89mm, 150mm), (63mm, 92mm, 150mm).

The PinnacleFRAMER X3 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!

X3 System is fully automated production system, which comes with below list of innovative features:

- Fully automatic and infinite profile web size changeover from 63mm (2.5") to 150mm (6")
- Fully automatic punch tools changeover
- 3 profile sizes full set of punch tools provided, automatic changeover
- Capable of coil thickness from 24 gauge (0.7mm) to 16 gauge (1.6mm), 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:
  - PinnacleTRUSS punch (for patented B2B truss application)
  - Truss index hole punch
  - Flange bolt hole punch
  - 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 3000kg (6000lb) coil feeding system!
- Auto receiving & stacking system to maximize profiles receiving efficiency!

#### Major Building Applications of X3 System:

- Low Rise Residential Building Structures
- Mid Rise Residential Building Structures up to 6 Floors
- Student & Staff Accommodation Facilities from 1 to 6 stories
- Floor & Roof Truss production
- Portable Buildings & Cabins
- Light & Medium Column & Beam Warehouse Structures
- Light & Medium Modular Building Structures
- Light & Medium Commercial and Industrial Building Structures



## X3 SYSTEM SPECIFICATIONS

Model:	PinnacleFRAMER X3 Frame & Truss Design & Production Multi Profile Sizes Auto Changeover Production System (Changeover Time Between Sizes Less Than <b>5 Minutes</b> Including Web Size and All Punch Toolings)
Software:	<ul style="list-style-type: none"> <li>• PinnacleCAD Engineering &amp; Calculation</li> <li>• PinnacleCAD 3D Modeling &amp; Detailing</li> <li>• PinnacleCAD Machine Control &amp; Factory</li> </ul>
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 63mm (2.5") to 150mm (6")
Machine Models:	<p>X1-6389150</p> <ul style="list-style-type: none"> <li>• 63mm, (2.5")</li> <li>• 89mm, (3.5")</li> <li>• 150mm, (6.0")</li> </ul> <p>X1-7589150</p> <ul style="list-style-type: none"> <li>• 75mm, (3")</li> <li>• 89mm, (3.5")</li> <li>• 150mm, (6")</li> </ul> <p>X1-6392150</p> <ul style="list-style-type: none"> <li>• 63mm, (2.5")</li> <li>• 92mm, (3.5/8")</li> <li>• 150mm, (6")</li> </ul>
Material Thickness:	24 gauge to 16 gauge (0.7mm to 1.6mm)
Roll Forming:	10 Stations, Auto-Gauging
Frame & Truss Punch Tools:	<ul style="list-style-type: none"> <li>• PinnacleTRUSS punch</li> <li>• Truss Index hole punch</li> <li>• Flange bolt hole punch</li> <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:	4500mm x 900mm x 1500mm
Weight (Approximate):	2500 kg (5000lb)
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