



X10 System

The PinnacleFRAMER X10 (**11 Gauge, 3mm 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 350mm, equipped with 10 profile size fully automatic punch toolings changeover, fully automatic C web size adjustment, fully automatic flange height adjustment, fully automatic coil gauge adjustment:

- The major applications are for medium & heavy residential mid-level residential structures from 1 to 10 stories, commercial structures, institutional building structures, prefab modular structures, large span truss, and warehouse structures.
- Patented roll forming technology, high speed production system with 20 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 for large span commercial and industrial structure applications.

The PinnacleFRAMER X10 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 fully automatic Multiple-Profile-Production-System of the same category!

X10 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 350mm (14"), with flange infinite size changeover from 41mm (1.5/8") to 75mm (3")
- Fully automatic changeover capable for all punch tools
- 10 profile sizes pre-setup: 75mm (3"), 89mm (3.5"), 92mm (3.5/8"), 100mm (4"), 140mm (5.5"), 150mm (6"), 200mm (8"), 250mm (10"), 300mm (12"), 350mm (14")
- Capable of coil thickness from 20 gauge (1mm) to 11 gauge (3.0mm), 11 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!
- Double encoder, front and back, to minimize coil changeover material loss!
- World's highest speed continuous punch tools:
 - 1) PinnacleTRUSS punch (for patented B2B truss application)
 - 2) Servo Driven Truss index hole punch
 - 3) Servo Driven Flange bolt hole punch
 - 4) Web anchor bolt hole punch
 - 5) Oval Shape 34mm x 69mm Service hole punch
 - 6) Large 120mm x 140mm service hole punch
 - 7) 4 holes floor joist web tab punch
 - 8) Left & right lip notch punch
 - 9) Web notch punch
 - 10) Truss end cut punch
 - 11) Flange dimple hole punch
 - 12) Flange dimple slot punch
 - 13) Shear cut
 - 14) 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!
- Auto coil feeding & leveling unit
- Infra-red controlled variable speed 3000kg (6000lb) coil feeding system!
- Auto receiving & stacking system to maximize profiles receiving efficiency!

Major Building Applications of X10 System:

- Low Rise Large Span Residential Building Structures
- Mid Rise Residential Building Structures up to 10 Floors
- Student & Staff Accommodation Facilities from 1 to 10 stories
- Large Span Floor & Roof Truss production
- Heavy Gauge Portable Buildings & Cabins
- Heavy Gauge Floor Joist systems for residential structures
- Large Span B2B roof truss
- Column & Beam Warehouse Structures
- Modular Building Structures
- Commercial and Industrial Building Structures



X10 SYSTEM SPECIFICATIONS

Model:	PinnacleFRAMER X10 Heavy Gauge 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 350mm (14")
Profile Sizes with All Tools Equipped:	<ol style="list-style-type: none"> 1) 75 x 41 x 10mm, (3"x 1-5/8") 2) 89 x 41 x 10mm, (3.5"x 1-5/8") 3) 92 x 41 x 10mm, (3-5/8"x 1-5/8") 4) 100 x 41 x 10mm, (4"x 1-5/8") 5) 140 x 51 x 15mm, (5.5"x 2") 6) 150 x 51 x 15mm, (6"x 2") 7) 200 x 51 x 15mm, (8"x 2") 8) 250 x 75 x 15mm, (10" x 3") 9) 300 x 75 x 15mm, (12" x 3") 10) 350 x 75 x 15mm, (14" x 3")

Material Thickness:	20 gauge to 11 gauge (1.0mm to 3.0mm)
Roll Forming:	13 Stations, Auto-Gauging
Frame & Truss Punch Tools:	<ul style="list-style-type: none"> • PinnacleTRUSS punch • Servo DrivenTruss Index hole punch • Servo Driven Flange bolt hole punch • Web anchor symmetrical bolt holes punch • Service hole punch • Large service hole 120mm x 140mm punch • Floor joist web tab punch • Left & right lip notch punch • Web notch punch • Truss end cut punch • Flange dimple hole punch • Flange dimple slot 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
Machine Length/Width/Height:	9800mm x 1200mm x 1700mm
Weight (Approximate):	15,000 kg (30,000lb)
Power Supply / Consumption:	380 VAC / 70 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:	5000 kg (10,000lb) Infra-red Controlled Variable Speed Coil Feeding System