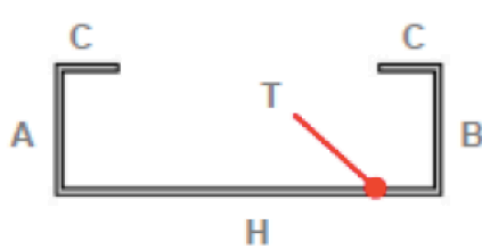
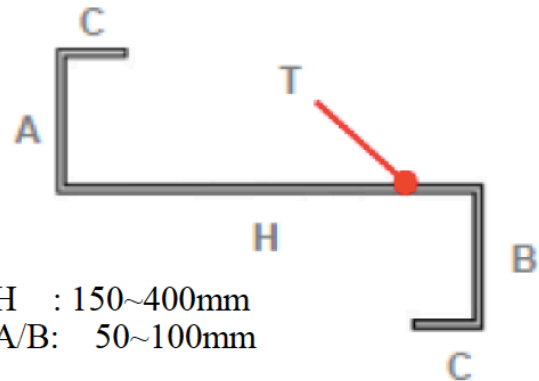


## X168 System

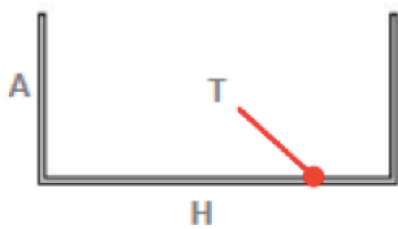
The PinnacleFRAMER X168 (**9 Gauge, 4mm Coil**) System is a fully automatic multiple web and flange size production system for C, U, Sigma & Z shape profiles. The application of the system is extremely extensive and comprehensive, it is a professional fabricator's choice not only for multiple size wall, column, beam frame profiles, but also for large span industrial and commercial integrated structure applications. It is designed for professional steel framing manufacturing operations for heavy gauge cold formed steel CFS residential and commercial structures. It is capable of producing wall profiles and floor joists for framing all CFS structured buildings from 1 to 12 stories, warehouse structure beyond 30 meters span, column and beam open space office structures up to 6 floors.



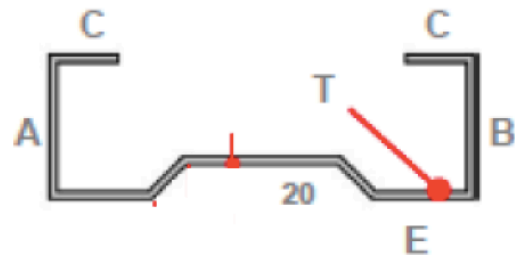
H : 100~400mm  
A/B: 50~100mm



H : 150~400mm  
A/B: 50~100mm



H : 100~400mm  
A : 50~90mm



H : 250/300/350/400mm  
A : 50~100mm

The PinnacleFRAMER X168 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!

X168 System is fully automated production system, which comes with below list of innovative features:

- Fully automatic and infinite profile web size changeover from 100mm (4") to 400mm (14"), with flange infinite size changeover from 51mm (2") to 100mm (4")
- Fully automatic changeover capable for all punch tools
- 8 C profile sizes pre-setup: 100mm (4"), 140mm (5.5"), 150mm (6"), 200mm (8"), 250mm (10"), 300mm (12"), 350mm (14"), 400mm (16")
- 4 Sigma profile sizes pre-setup: 250mm (10"), 300mm (12"), 350mm (14"), 400mm(16")
- 4 Z profile sizes pre-setup: 150mm (6"), 200mm (8"), 250mm (10"), 300mm (14")
- Capable of coil thickness from 14 gauge (2mm) to 9 gauge (4.0mm), 9 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 5000kg (10,000lb) coil feeding system!
- Auto receiving & stacking system to maximize profiles receiving efficiency!

## Major Building Applications of X168 System:

- Low Rise Large Span Residential Building Structures
- Mid Rise Residential Building Structures up to 12 Floors
- Institutional Buildings, Schools, Hospitals
- Student & Staff Accommodation Facilities Up to 12 Floors
- Column & Beam Open Space Office Building Structure Up to 6 Floors
- 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



# X168 SYSTEM SPECIFICATIONS

Model:	PinnacleFRAMER X168 Heavy Gauge Design & Production Multi Profile Sizes Auto Changeover Production System (Changeover Time Between Sizes Less Than <b>30 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:	<p>C+C or C+U C+C In-Line, and B2B back to back (Pinnacle Patented) Sigma + Sigma Sigma + C C+U+Sigma+Z</p>
Number of Profiles:	Infinite & Unlimited Profile Web Sizes from 100mm (4") to 400mm (16"), fully automatic changeover between C, U, Sigma, Z profiles.
Profile Sizes with All Tools Equipped:	<p>For C Profiles:</p> <ol style="list-style-type: none"> <li>1) 100 x 51 x 15mm, (4"x 2")</li> <li>2) 130 x 51 x 15mm, (5"x 2")</li> <li>3) 140 x 51 x 15mm, (5.5"x2')</li> <li>4) 150 x 51 x 15mm, (6"x 2")</li> <li>5) 200 x 75 x 15mm, (8"x 3")</li> <li>6) 250 x 75 x 15mm, (10" x 3")</li> <li>7) 300 x 100 x 15mm, (12"x 4")</li> <li>8) 350 x 100 x 15mm, (14"x 4")</li> </ol> <p>For Sigma Profiles:</p> <ol style="list-style-type: none"> <li>1) 250mm x 75mm x 15mm</li> <li>2) 300mm x 75mm x 15mm</li> <li>3) 350mm x 100mm x 15mm</li> <li>4) 400mm x 100mm x 15mm</li> </ol> <p>For Z Profiles:</p> <ol style="list-style-type: none"> <li>1) 150mm x 50mm</li> <li>2) 200mm x 50mm</li> <li>3) 250mm x 75mm</li> <li>4) 300mm x 75mm</li> </ol>
Material Thickness:	14 gauge to 9 gauge (2.0mm to 4.0mm)

Roll Forming:	20 Stations, Auto-Gauging
Frame & Truss Punch Tools:	<ul style="list-style-type: none"> <li>• PinnacleTRUSS punch</li> <li>• Servo DrivenTruss Index hole punch</li> <li>• Servo Driven Flange bolt hole punch</li> <li>• Web anchor symmetrical bolt holes punch</li> <li>• Service hole punch</li> <li>• Large service hole 120mm x 140mm punch</li> <li>• Floor joist web tab punch</li> <li>• Left &amp; right lip notch punch</li> <li>• Shear cut</li> <li>• End crimp punch</li> <li>• Auto swage</li> <li>• 6 other punch options reserved</li> </ul>
Standard Production Speed (Output):	<p>Walls Frames: 200m/h to 300m/h  Floor &amp; Roof Truss: 200m/h to 300m/h  Floor Joists: 600m/h – 900 m/h</p>
Machine Maximum Line Speed:	Up to 2100m/h
Main Drive System:	SERVO Driven
Main Hydraulic System:	SERVO Driven
Machine Length/Width/Height:	15,000mm x 1200mm x 1700mm
Weight (Approximate):	20,000 kg (60,000lb)
Power Supply / Consumption:	415 VAC / 100 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, Bigger Capacity Options Available