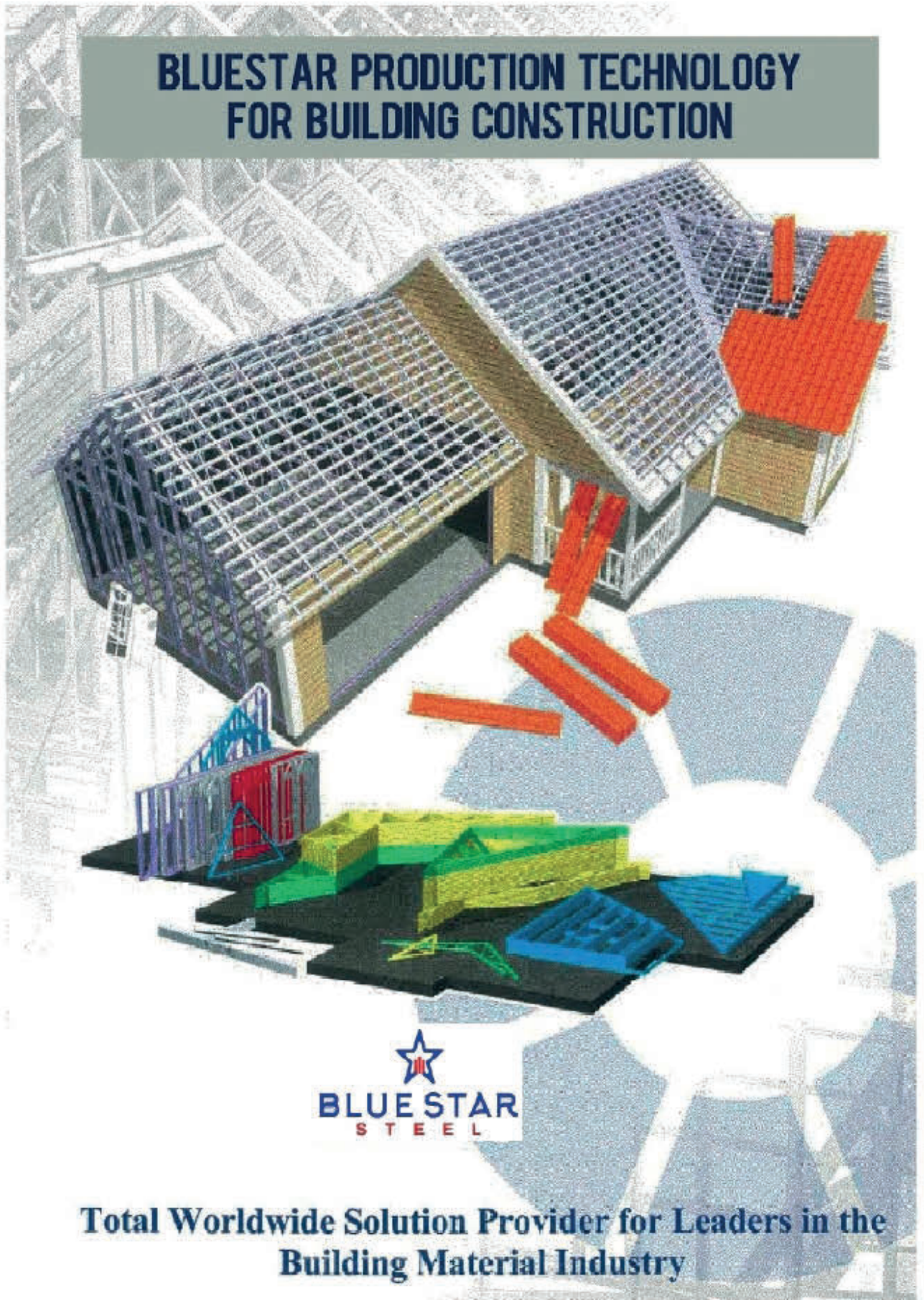


BLUESTAR PRODUCTION TECHNOLOGY FOR BUILDING CONSTRUCTION



**Total Worldwide Solution Provider for Leaders in the
Building Material Industry**

BLUESTAR AUTOMATED STEEL COLLAR FASTENING SYSTEM

Alternative Wall Panel and Truss Lines, and their product applications

BlueStar Systems has designed alternative LGS framing component production lines to meet specific building needs.

1. BLUESTAR WALL PANEL LINE

Line produces BlueStar wall components for residential and commercial load bearing structures. A single roll former is capable of forming Just-in-Time operation both stud and track sections. The BlueStar line has a multi-tasking work center capable of making all connecting details, and other holes and notches in direct CAD control. Wall framing members come from the roll former in the right sequence for assembly. No member inventory is needed. BlueStar offers a thermo-slit tooling option to make slits in the webs for the thermal performance of the wall framing structure.

Materials thickness for compact Line is 0.75 - 1.5 mm (22 to 16 gauge). C/U profile sizes from 89 mm to 200 mm (3.5' to 8").



Production Capacity:

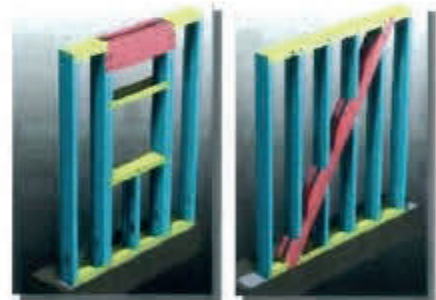
Approx. 500 lineal meters (1,660 LF) or 1 250 m² (13,750 sf) of average panel design in an 8 hour shift.

Max. Size of Wall Panel:

Wall panel length 5,20 m (17.3'), max. height 3.0 m (10').

Wall detailing capability produces high quality industrial building components, adding lots of value at the plant because the forming starts from strip coil.

Panels have many connection details offering the possibility for fast installation at the site.



BlueStar Steel Frame House



BlueStar Computerized Detailing Capabilities:

2. BLUESTAR WALL & FLOOR PANEL LINE

BlueStar Line is capable of producing wall, floor and rafted roof panels. The line is comparable with the Compact Wall Line but heavier gauge material can be produced and wider sections. Stud and track profiles can be made in 2.0 mm (14 gauge) materials and profile widths 89 mm to 350 mm (3.5"-14").

BlueStar Multi-Story Construction:

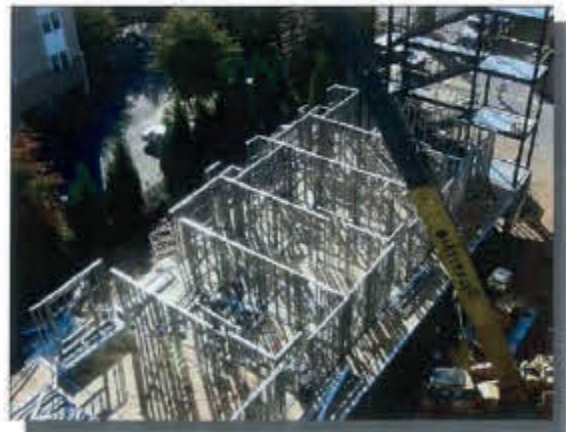




There are specialty option details available which are notched and punched directly from CAD designs.

Production Capacity:

Approx. 500 lineal meters (1,600) 1 250 m² (13,1750 SF) of average panel design in an 8 hour



CEE-TRUSS PRODUCT

OPTION TOOLING FOR WALL LINES

Whole-CEE-Section, in-line trusses can be produced on BlueStar Wall Lines using option tooling. With this option, Wall Lines are able to produce all the building skeleton components for a residential structure.

Web members have rounded-end flanges and connect with 20 mm (0.79") BlueStar connector on top of the chord. This unique truss design offers very good material efficiency for a CEE truss. Maximum material thickness is 2.0 mm (14 gauge) on PRO lines and max. clear span over 10 m (33')

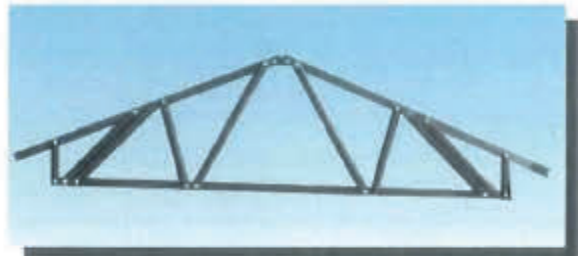
Max. length of truss:

Trusses can be made up to 10 m (33') long and 4.2m (14') in height on a BlueStar PRO line.

Production Capacity:

Approx. 100 average trusses of 7 m (23') long in an 8 hour shift.

BlueStar In-Line CEE-TRUSS PRODUCT:



3. BLUESTAR CLASSIC-TRUSS-LINE

IN-LINE SECTION TRUSS

BlueStar Classic Trusses are for medium spans in commercial construction, as well as for European residential roofs with bigger truss spacing (c/c 900 – 120 mm equals toc/c 3'-4').



The Classic chord is 89 mm (3.5") in size and can be produced up to 1.5mm (16 gauge) material. There is option tooling available for BlueStar Classic-Baby chord which is only 64 mm (2.5") and feasible for medium spans, and especially, for roofs where trusses are placed c/c 2feet.

A hat channel tooling option is available for the web line. The hat channel is 92 x 25 mm (3.64" x 1").

BlueStar in-line chords have an effective, double sigma (hourglass) section design. Web members can be used also in nestling arrangement.

Max. length of truss:

Trusses can be made up to 15 m (49') long and 4.2 m (14') in height. Clear span of the truss can be up to 15 m or depend on local load conditions.

Production Capacity:

Approx. 90 average trusses of 10m (33") long in an 8 hour shift.



BlueStar Classic In-Line Member Sections:



4. BLUESTAR TRUSS LINE

IN-LINE SECTION TRUSS

BlueStar is the truss product for maximum span for primary metal frames, both for commercial and industrial buildings. It has also applications in secondary open-web beams.

The line produces trusses and open web joists. The line can be tooled to produce the chord, which is 127 mm (5") in size and can be made in 2.0 mm (14 gauge) material.

There is an option tooling available for a Daughter chord size in 89 mm (3.5") and it can be made in 1,5 mm (16 gauge) material.

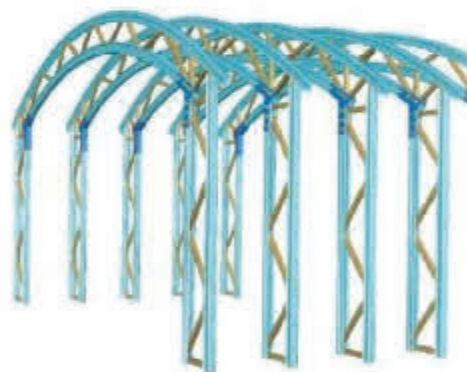
Max. length of truss:

Trusses can made up to 25 m (82') long and 4.2 m in height. Clear span of the truss can be 20 m (82') when trusses are placed c/c2, 70 m (9'), or dependent on local load conditions.

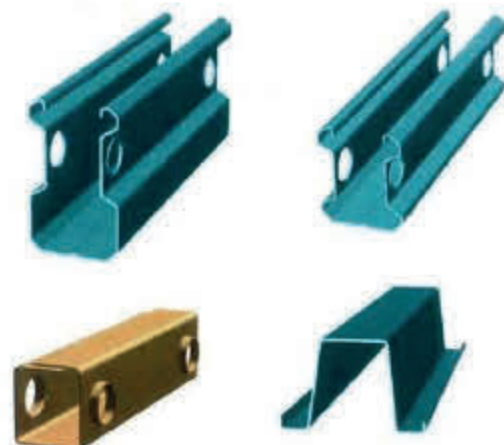
Production Capacity:

Approx. 90 average trusses of 10 m (33') long in an 8 hour shift.

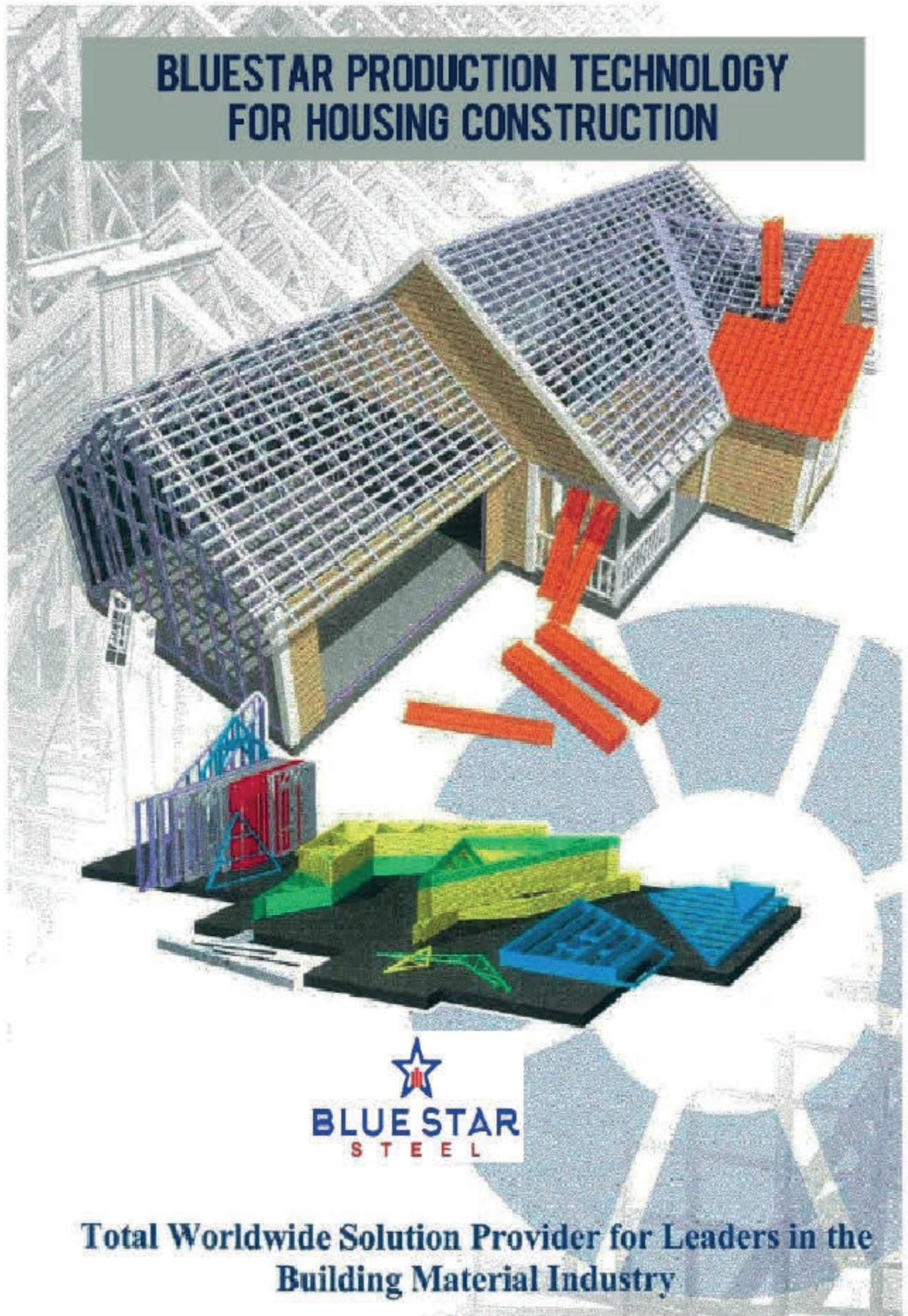
Curved Trusses:



BlueStar In-Line Member Sections:



BLUESTAR PRODUCTION TECHNOLOGY FOR HOUSING CONSTRUCTION



**Total Worldwide Solution Provider for Leaders in the
Building Material Industry**

THE INTEGRATED BLUESTAR PRODUCTION LINE

- total design and production integration
- direct-CAD-controlled • high efficiency
- low cost materials • high value-add
- low space requirements

Years of development

BlueStar has worked for years to develop a CAD-controlled, integrated light gauge steel building component manufacturing line. The resulting BlueStar production system offers a new generation of benefits and solutions. It has a remarkably small foot print, leaving you with ample savings in real estate, and thus securing a feasible total investment.

Direct CAD-control

A directly CAD-controlled process has never been quite so accurately put to work as it has been here. The BlueStar Line is paperless: computers do the walking and talking, leaving only small snap-on assembly tasks and supervision to be performed by operators. CAD-control also means high precision products, and especially so in this case, because all the machinery components are made by the leading tool manufacturers of the world.

Simple mechanics

Connecting light gauge steel members has never been this simple. The BlueStar connection is created from the two sheet materials to be connected without any need for additional bought-in items. Pressing of the connection takes only a fraction of a second and requires only a vertical move of the BlueStar tool; this simplicity, in turn, makes possible the automation of the customized frame panel fabrication.

JIT manufacturing

The BlueStar automation also means that you can modify the production schedule at will and offer the flexibility to keep your customer happy. This is more than ordinary Just-In-Time; BlueStar fabrication line produces all the members from a narrow strip in the sequence required to assemble any custom-designed component

configuration. No members or items need to be kept in inventory. This means that you can dramatically reduce the size of your processing areas. There, you save both in the initial combined investment, and also in continued operating expenses.

High value-add for less

One of the leading ideas behind the BlueStar System is the integrated conversion of relatively inexpensive strip coil steel into highly detailed wall frame panels and roof trusses. Automation makes this commodity approach possible and keeps your costs of customized production very competitive. In operating the Blue Star System, you pay 40 percent per pound for the raw material compared to what your competition pays. In addition, BlueStar offers many important details and capabilities to build added value into the frame components at a fraction of the cost of alternative solutions.

Mechanized material handling

Additional savings in operator resources and labor costs have been achieved by mechanizing material handling. fast-cycle production and expedited order turnaround are now possible.

Specific Details From:

