



SAMESOR LGS LINES

SAMESOR – POWER IN MOTION

Long term experience is our foundation for shaping the sheet metal industry. Our passion is shaping your success.

We work closely with our customers to deliver solutions that are not only technically sound but aligned with real production requirements.

Proven in production environments worldwide

- 1000+ machines delivered
- Customers in 60+ countries
- 60+ years of roll forming experience



A COMPLETE PORTFOLIO FOR STEEL CONSTRUCTION MANUFACTURING

Samesor provides solutions for production of cold rolled steel profiles, both the purlins and the members for steel framing.

Solutions for variable production methods and scale

- Purlin production
- Prefabricated steel framing systems; residential building scope
- Prefabricated steel framing systems; industrial building scope
- From compact-sized machines to automated production systems with diverse profile stacking and handling capability



LGS LINES: THREE PRODUCTION CLASSES



Dynamic class

Compact steel framing production machine. **C and U sections**

- Steel framing in compact footprint
- Up to 1.6 mm, web width up to 150 mm
- Entry-level solution



Advanced class

Flexible steel framing production platform. **C and U sections**

- Wall, floor, truss framing capability
- Up to 2 mm, web width up to 300 mm
- High automation level

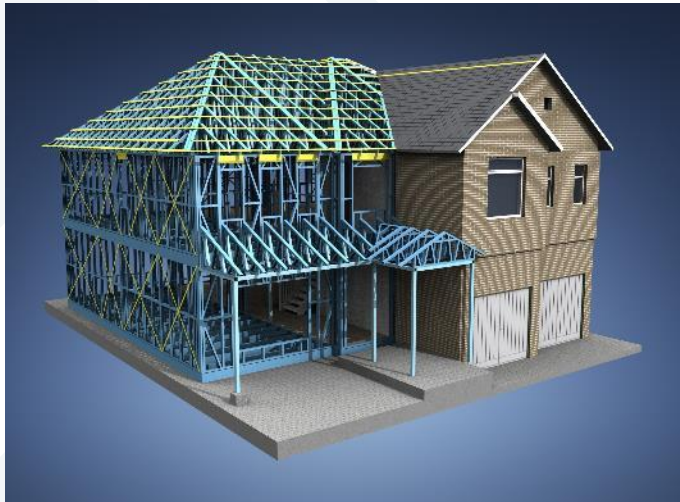


Superior class

LGS production for industrial building scope. **C, U, Z and Sigma sections**

- Purlin and/or prefabricated steel framing manufacturing
- Up to 4 mm, web width up to 450 mm
- Automated production. Industrial-scale

DYNAMIC, ADVANCED AND SUPERIOR



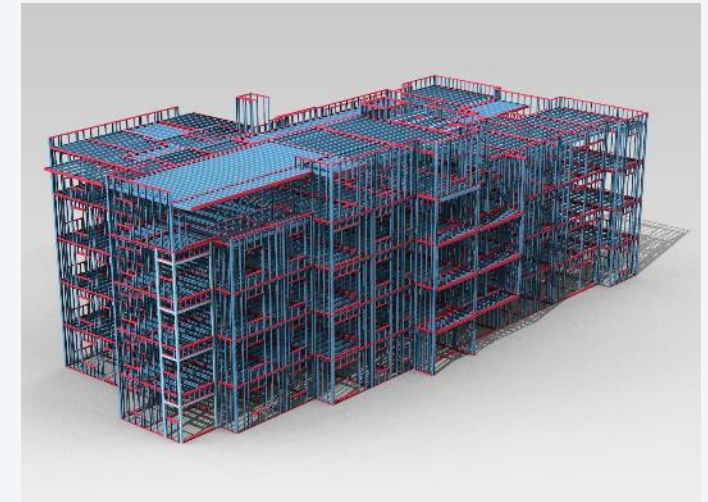
Dynamic

- For entry-level production of prefabricated steel framing
- Affordable machine – uncompromised quality
- Space-efficient production



Advanced

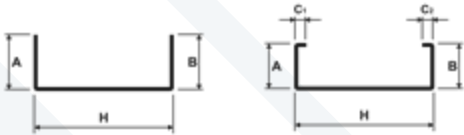
- Prefabricated members for steel framing construction: wall, floor, truss elements
- Module containers, residential houses, villas, office buildings, social premises, façade elements
- All-round set of tooling, wide range in profiles



Superior

- Prefabricated purlins and frame members in industrial-scale targets
- Warehouses, multi-storeys, hangars, production facilities
- Wide-ranging set of tooling and profiles
- Industrial-scale profiles, production and output

SAMESOR DYNAMIC



Core capability

- Profile sections: C, U
- Profile width range: 50 – 150 mm. One selected standard profile, additional profiles as option
- Sheet thickness: 0.7 – 1.6 mm
- Single-unit integrated machine design

Key strengths

- Compact footprint
- Integrated punching + roll forming system
- Integrated CAD/CAM workflow (Tekla, Vertex BD), converting capabilities to many more

Production logic

- Focused, stable, and efficient profile and member production with simplified operational setup
- Affordable yet flexible way to produce high end prefabricated members for different steel framing needs

SAMESOR DYNAMIC



Compact, one-unit concept.



Integrated tooling with customizable options.

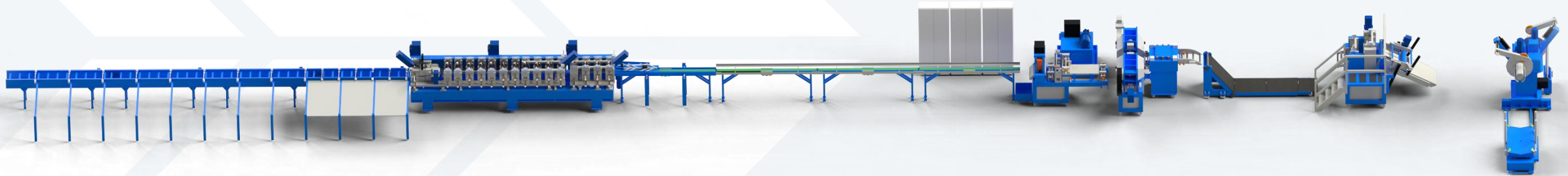
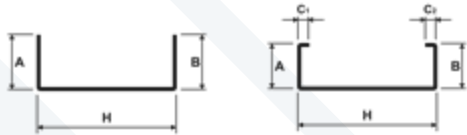


Post-cut production method.



As a compact system, a 3-ton decoiler is optimal.

SAMESOR ADVANCED



Core capability

- Profile sections: C, U
- Profile width range: 50 – 300 mm
- Sheet thickness: 0.7 – 2.0 mm
- All-round punching capability

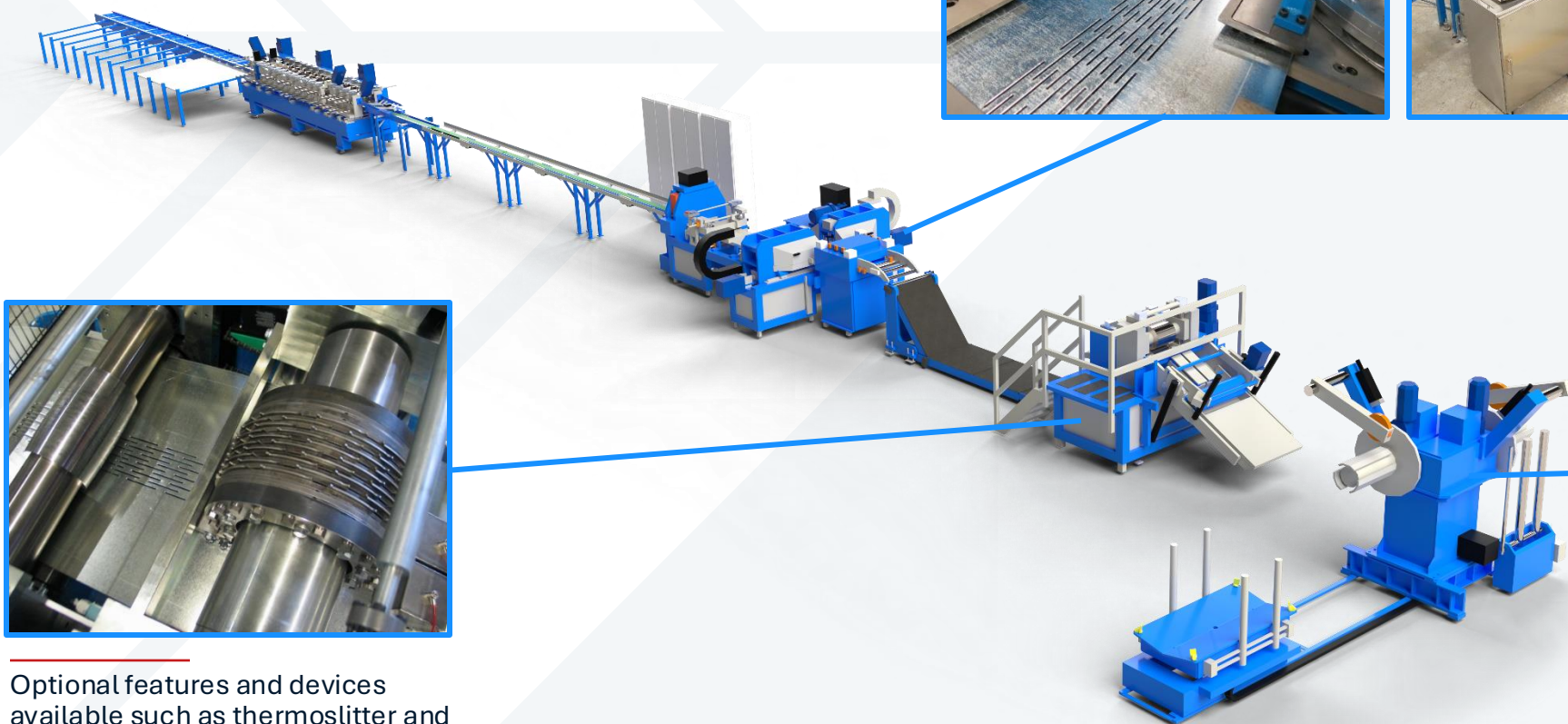
Key strengths

- Automatic C-in-U production capability
- Expanded tooling and profiling options
- High variation in production output
- Integrated CAD/CAM workflow (Tekla, Vertex BD), converting capabilities to many more

Production logic

- Flexible, scalable framing production for multi-application manufacturing environments
- Just-In-Time production of members for frames

SAMESOR ADVANCED



Optional features and devices available such as thermoslitter and additional punching tools.



Samesor RotoPunch workstation for versatile detailing.

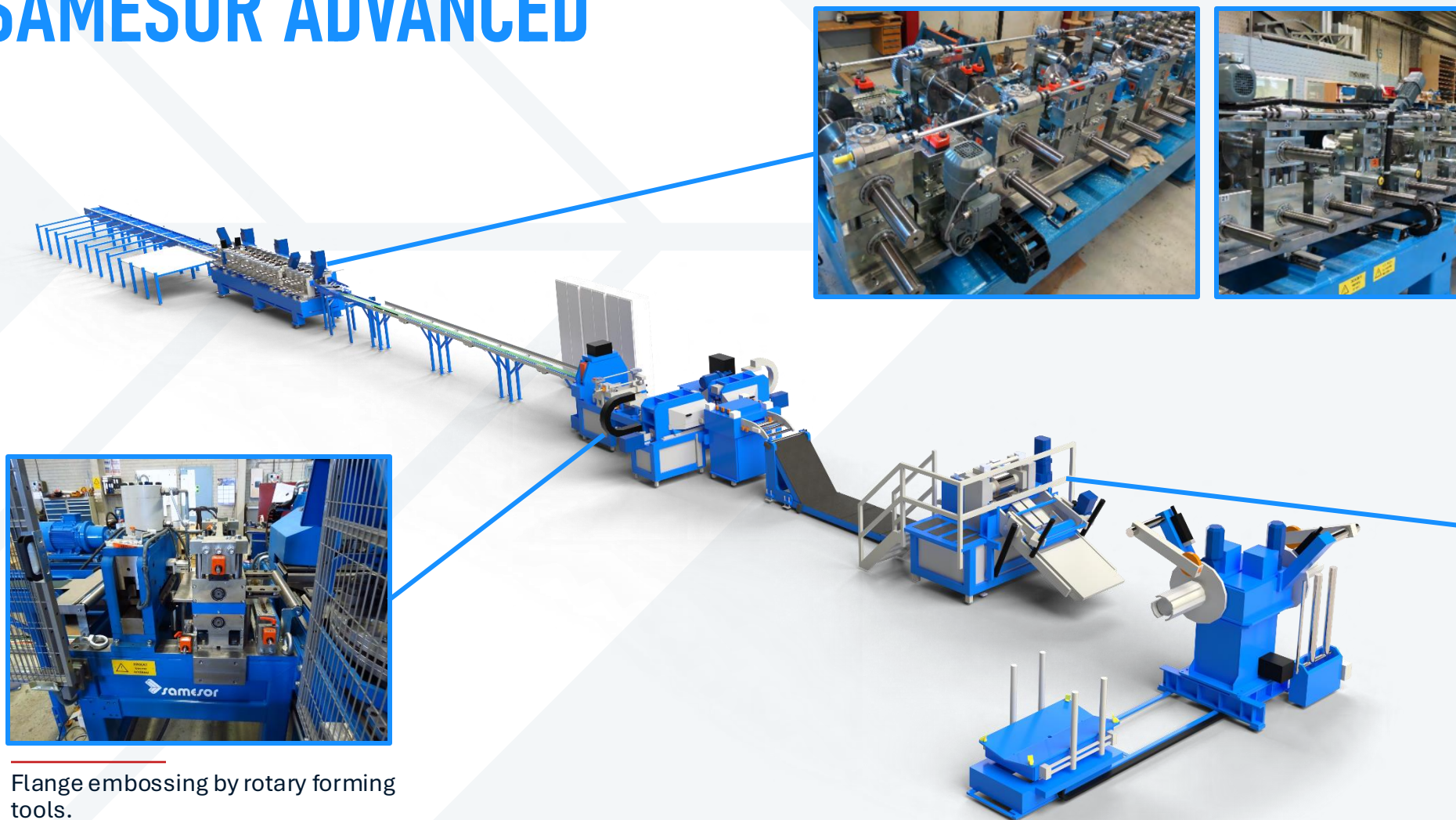
Ink jet printer for profile marking.



Coil loading with a single or double-head decoiler.

Coil weights 3/5/6/8 TON.

SAMESOR ADVANCED



Precise adjusting devices for profile fine-tuning.

Automatic adjusting for sheet thickness and web width.



Flange embossing by rotary forming tools.

Cutting shear for precut production method.

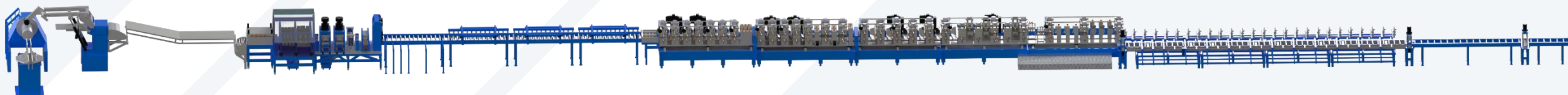
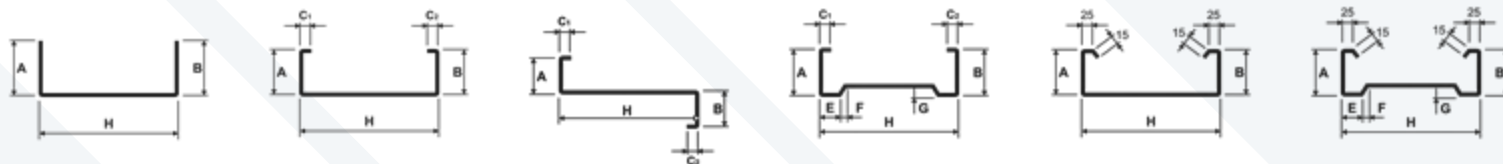


Usability and safety features prioritized.

SAMESOR ADVANCED



SAMESOR SUPERIOR



Core capability

- Profile sections: C, U, Z, Sigma, C+, S+
- Profile width range: 100 – 450 mm
- Sheet thickness: 1.0 – 4.0 mm
- Versatile punching capability

Key strengths

- Great flexibility in profile variation
- Ready-made profiles and members with all the needed details
- Integrated CAD/CAM workflow (Tekla, Vertex BD), converting capabilities to many more

Production logic

- Configurations: pre-cut and post-cut
- Pre-cut for prefabricated steel frame members. Universal cutting tool for sheet cutting, non-stop roll forming
- Post-cut for more standardized profile production. Profile specific cutting tools, start-stop roll forming

SAMESOR SUPERIOR

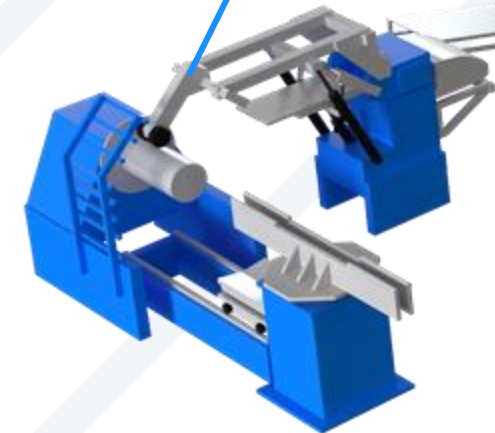
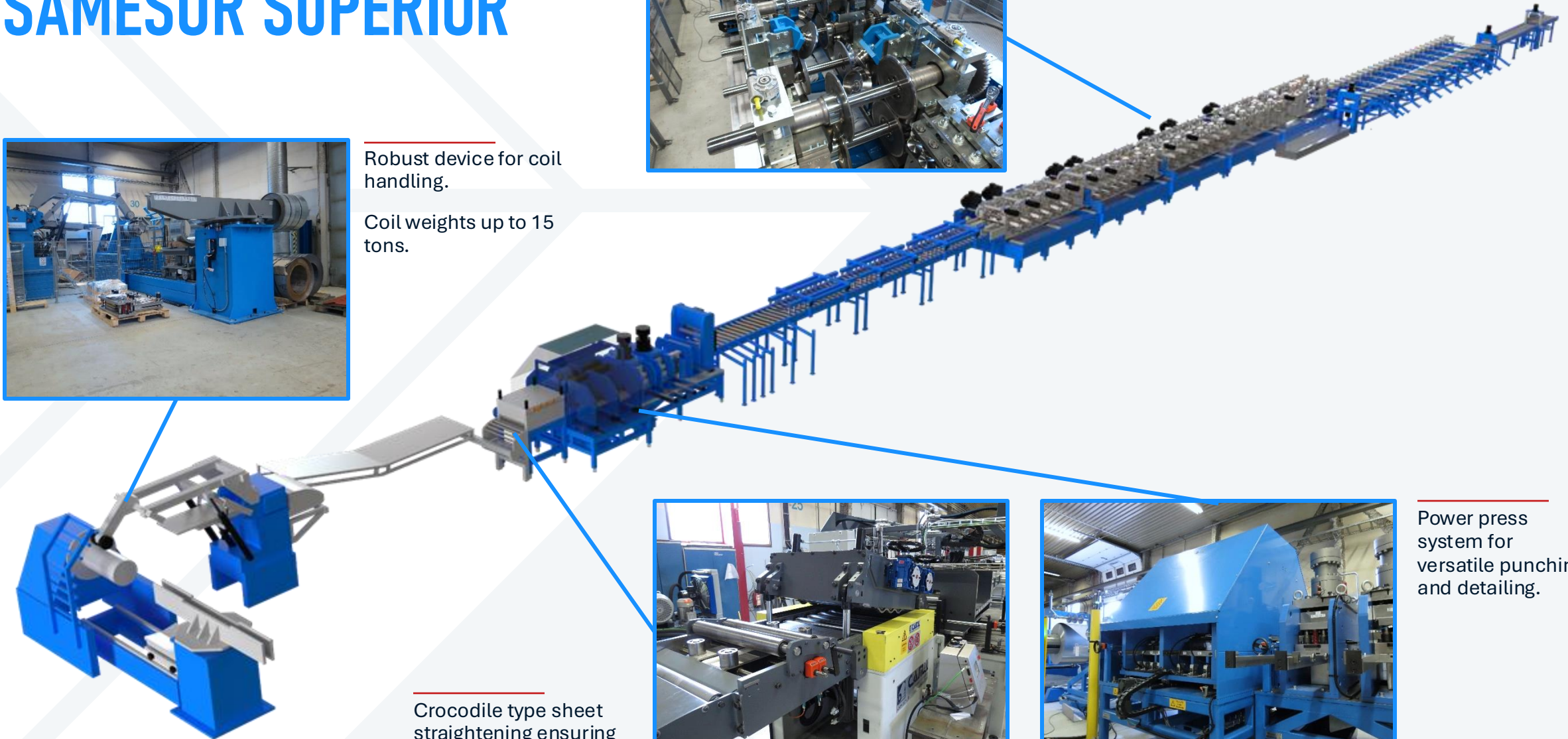


Robust device for coil handling.

Coil weights up to 15 tons.



Automatic adjusting for profile type and dimensions.

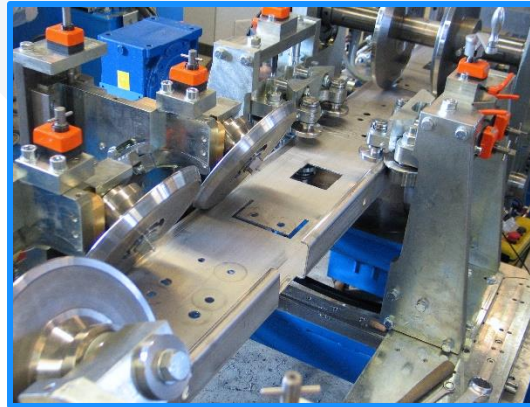


Crocodile type sheet straightening ensuring proper material feed-in.



Power press system for versatile punching and detailing.

SAMESOR SUPERIOR



Precise adjusting devices for profile fine-tuning.



Detailed sheets can continue on to roll forming or be removed for further processing.



Semi-automatic receiving table as a standard setup.



Fully automatic receiving, stacking and handling system available as an option.

SAMESOR SUPERIOR



FROM DESIGN DATA TO PRODUCTION OUTPUT

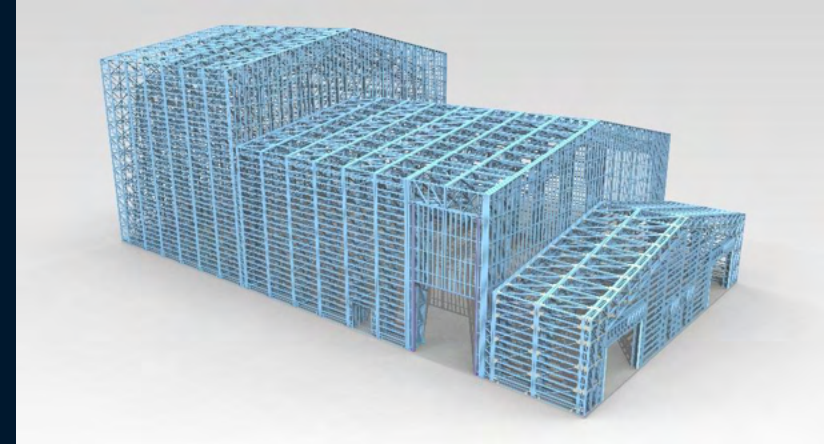
Design-to-manufacturing workflow with reduced manual intervention.

Integration capability

- Modelling based production workflows
- Automated production data transfer
- Integration to Tekla Structures and Vertex BD.
File converting from many other design tools

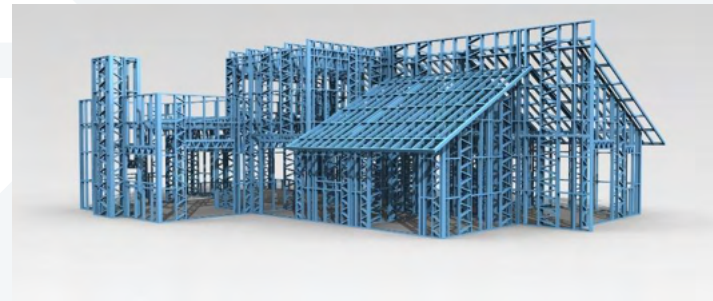
Production intelligence

- User-friendly order queue handling
- Profile, tool and coil libraries
- Sheet processing visualization
- Production tracking and logging



FROM DESIGN DATA TO PRODUCTION OUTPUT

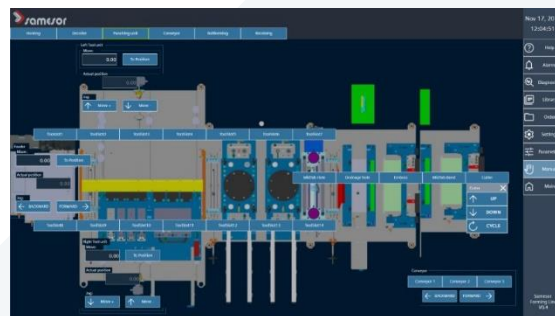
BUILDING DESIGN & BIM



SAMESOR CAD – CAM INTERFACE: Plug-ins, element configuration, transfer file generation (XML)

LINE CONTROL: BOX PC & HMI

Line control, order queue handling, interfacing to design workstation, data storing



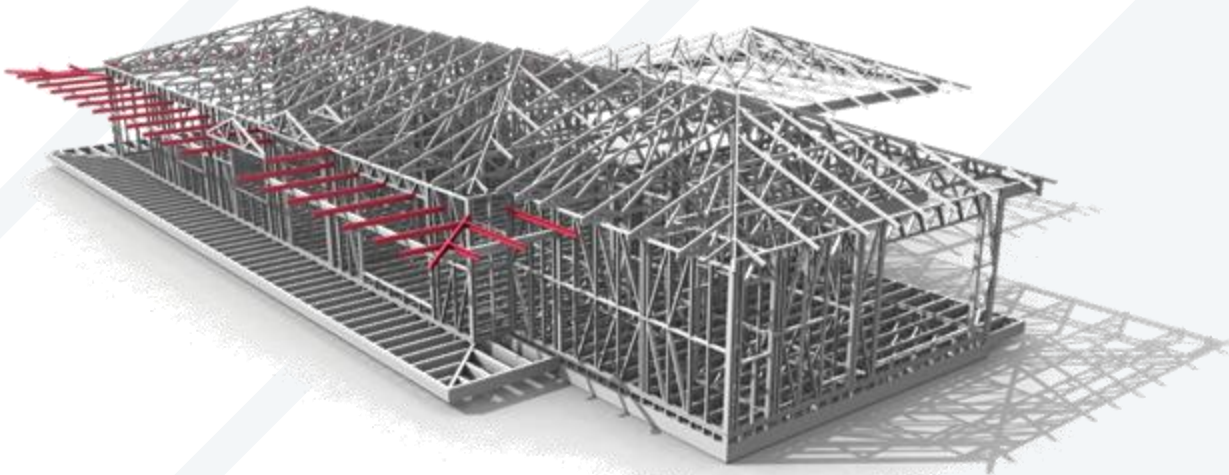
MACHINE UNIT CONTROL (PLC):

Calculation tasks, automatic and manual control tasks for machine functions

PRODUCTION SITE: SAMESOR LGS LINE

TOOLING CAPABILITY

All tooling systems and sheet workstation setups based on standard tool configuration but with versatile tailoring possibilities.



Sheet detailing as you need:

- Connection detailing: round, slot and oval holes
- Web and flange openings
- Embossing for sheeting purposes
- Reinforcement features
- Profile head shapes including rounded head
- Stud/track fitting features
- Tooling for cutting

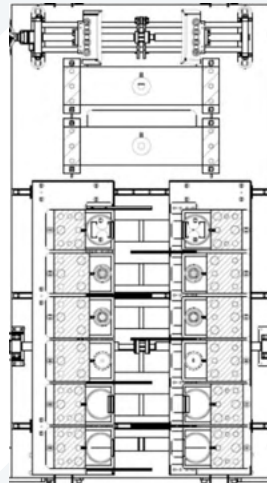
Production flexibility

- Proven punching technology by leading tool manufacturers
- Configurable tooling systems
- Tailored according to customer needs

TOOLING: DYNAMIC LINE

Tooling set-up example

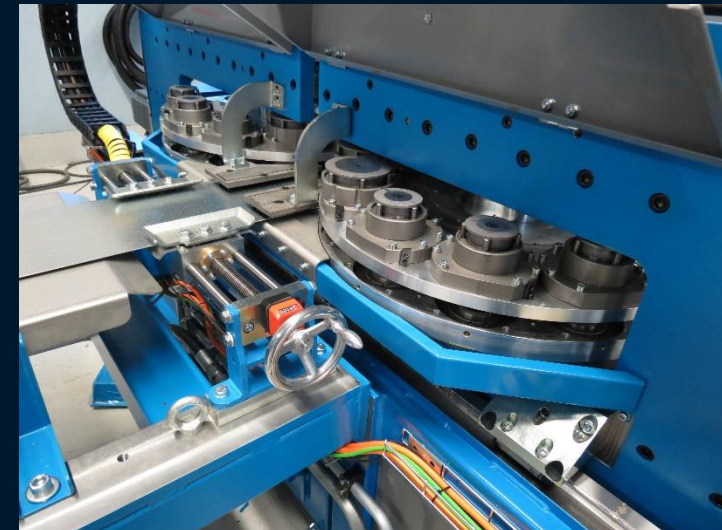
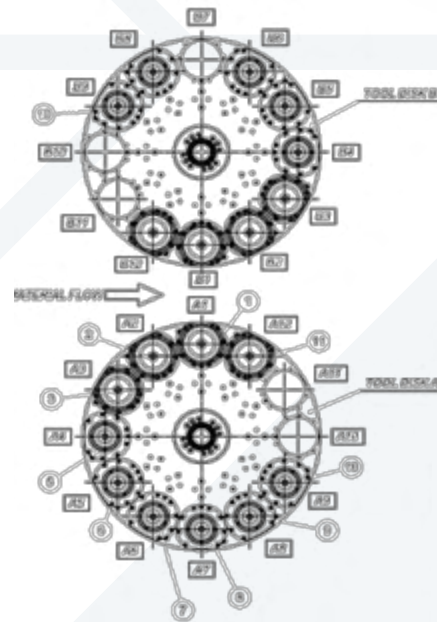
- Dia 12 mm hole
- Slot 10x50 mm
- Slot 3x70 mm
- Slot 8x60 mm
- Dia 35 mm hole
- Male cup with 5 x dia 3 mm holes
- Female cup with 1 x dia 3 mm hole
- Rounded head detail
- Stud-to-track fitting
- Sheet cutting (front shear)
- Profile cutting



TOOLING: ADVANCED LINE

Tooling set-up example

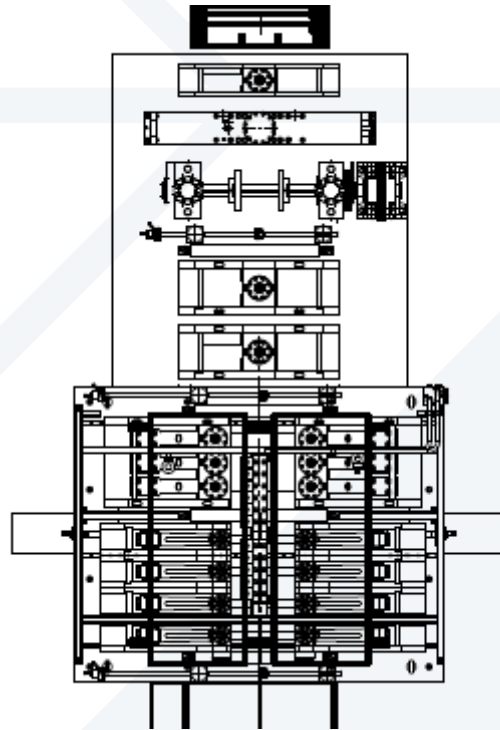
- Slot 3 x 70 mm
- Slot 8 x 60 mm
- Slot 43 x 66 mm
- Dia 5 mm
- Dia 12 mm
- Dia 35 mm
- Hex Clinch
- Male cup with 5 x dia 3 mm holes
- Female cup with 1 x dia 3 mm hole
- Rounded head detail
- Flange embossing
- Sheet cutting



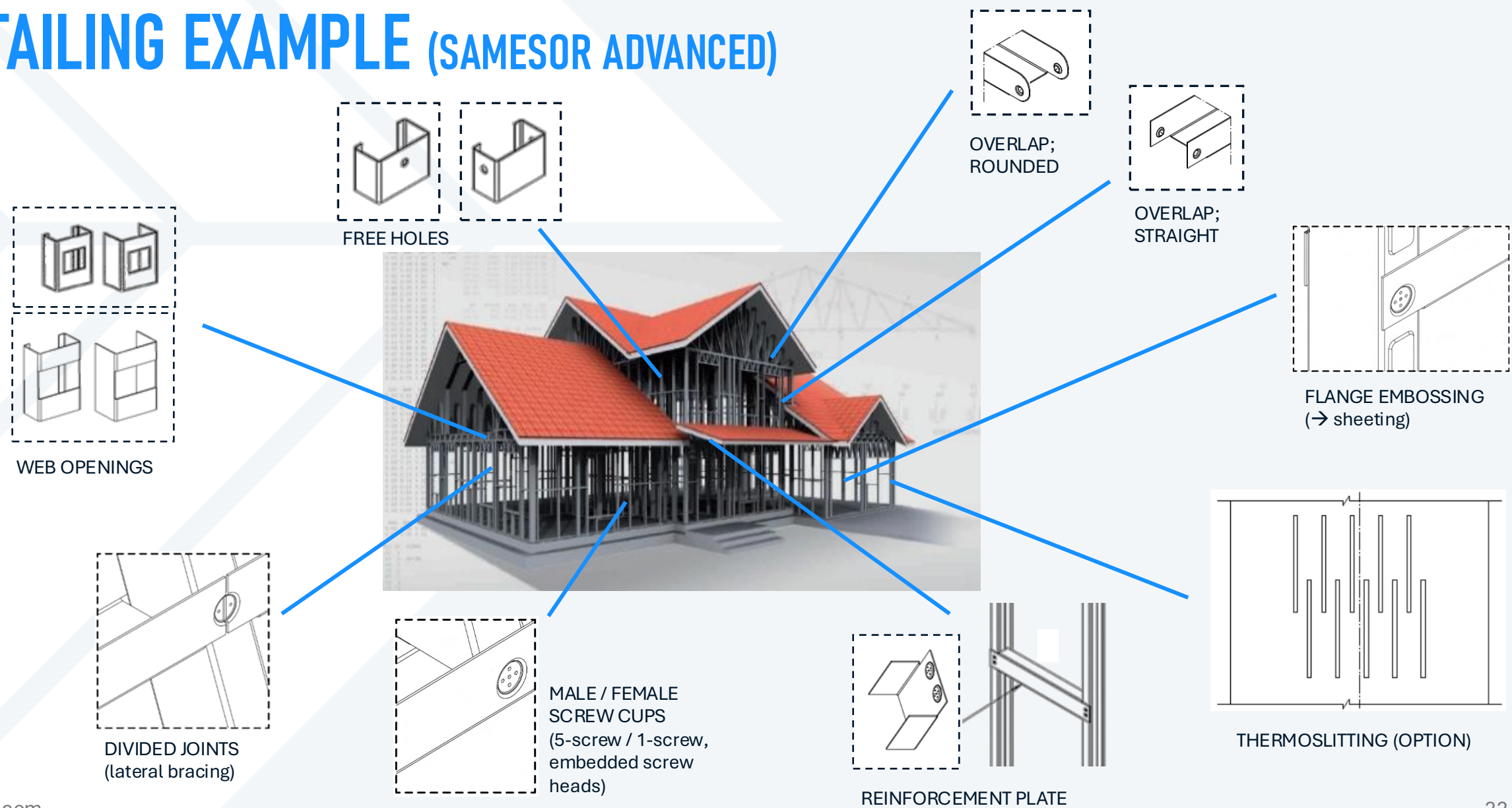
TOOLING: SUPERIOR LINE

Tooling set-up example

- Dia 13 mm hole
- Dia 18 mm hole
- Dia 22 mm hole
- Oval hole 18x36 mm
- Slot 10x50 mm
- Slot 50x10 mm
- Slot 35x35 mm
- Drainage hole 100x 120 mm
- Mid tab detailing
- Mid tab bending
- Sheet cutting
- Profile cutting (when postcut configuration)



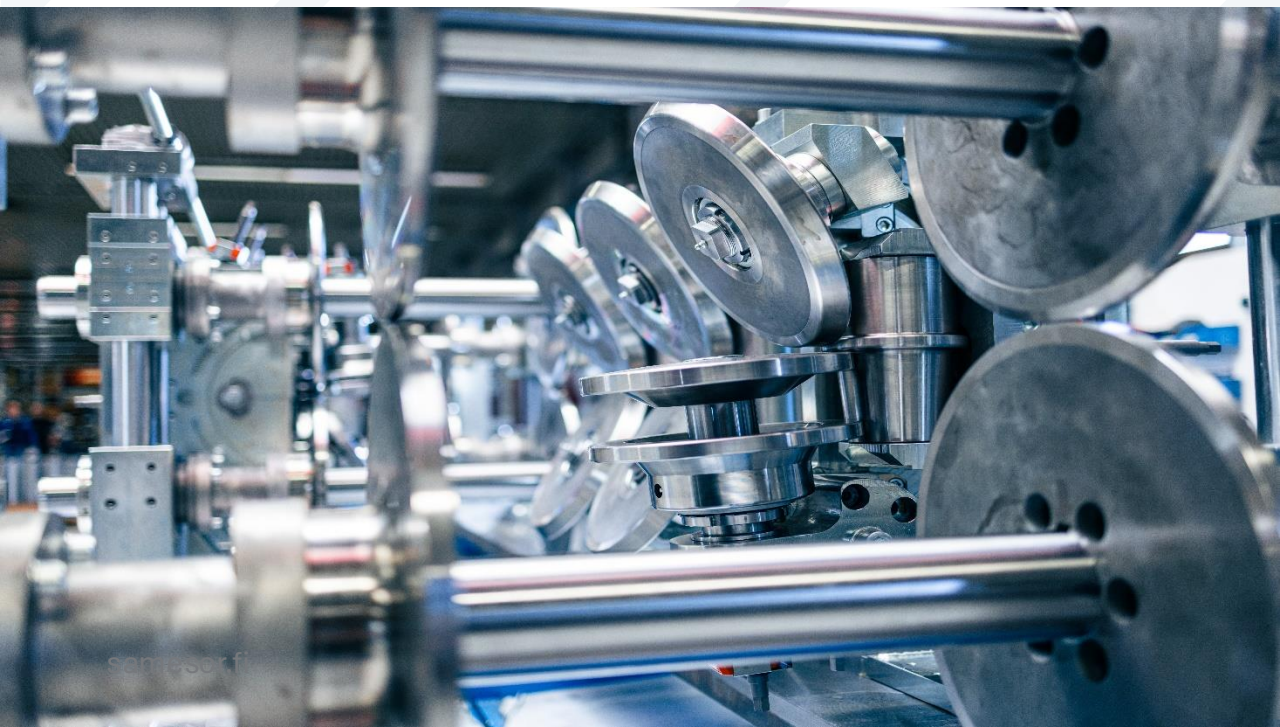
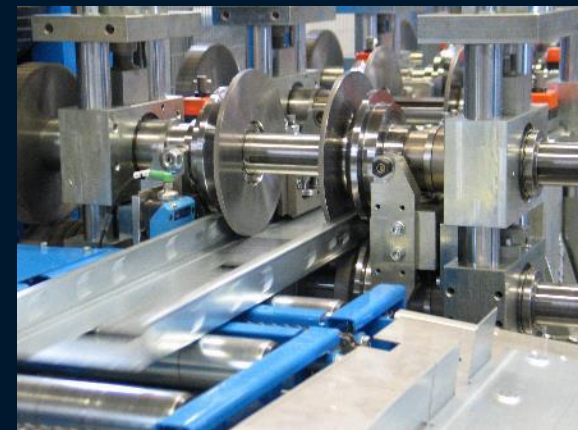
DETAILING EXAMPLE (SAMESOR ADVANCED)



SAMESOR LGS LINES

Dynamic – Advanced – Superior

From light gauge steel framing to heavy-duty industrial steel profiles.



SAMESOR - SOLUTIONS CREATED FOR YOUR SUCCESS

- Proven roll forming expertise
- High-quality reliable machines
- Both standard and customized production lines available as well special tailored solutions
- Continuous innovations and product development
- Increased automation and system intelligence
- Long-term service partnership
- Global reach with local commitment



KEEP IN TOUCH!



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