

*Shape.
Join.
Look ahead.*

Flexistar

***Flexible production unit for
manufacturing thin-walled
quality tubes***

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technology

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*Machines and equipment for
innovative forming, cutting
and joining systems*



Flexistar

Alternating production of tubes with differing diameters: without exchange components, without cycle time losses and without setup time!

Tubes with differing diameters roll onto the deposit table every 20 seconds. The system is completely programme controlled using a flexible clamping concept, which allows for an infinitely variable change in diameter.

Basic model:

- **Standard destacker**
- **Infeed table**
- **Multi-roller roll-forming machine**
- **Run-through welding machine**

	Flexistar 50/1000	Flexistar 150/2200	Flexistar 250/1250	Flexistar 400/1250	Flexistar 600/1250	Flexistar 600/1550
Tube diameter	40 - 150 mm	60 - 150 mm	60 - 250 mm	80 - 400 mm	76 - 600 mm	76 - 600 mm
Tube length	200 - 1000 mm	300 - 2200 mm	250 - 1250 mm	250 - 1250 mm	250 - 1250 mm	250 - 1550 mm
Material thickness	0,2 - 0,8 mm	0,2 - 0,8 mm	0,4 - 1,0 mm	0,4 - 1,0 mm	0,4 - 1,0 mm	0,4 - 1,0 mm
Materials	Mild steel, stainless steel*	Mild steel, stainless steel*	Mild steel, stainless steel*	Mild steel, stainless steel*	Mild steel, stainless steel*	Mild steel, stainless steel*
Welding source	Laser	Laser	Laser	Laser	Laser	Laser
Output	up to 240 Tubes/h	up to 240 Tubes/h	up to 280 Tubes/h	up to 240 Tubes/h	up to 240 Tubes/h	up to 240 Tubes/h

*Other materials on request.

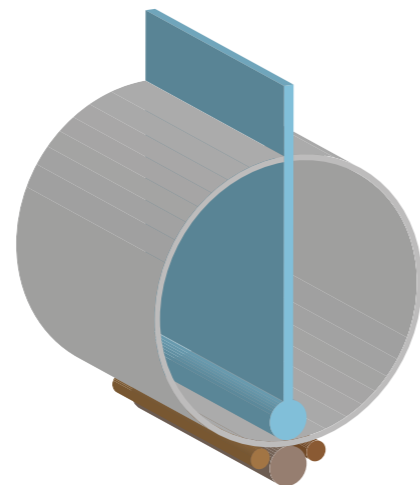
Flexible



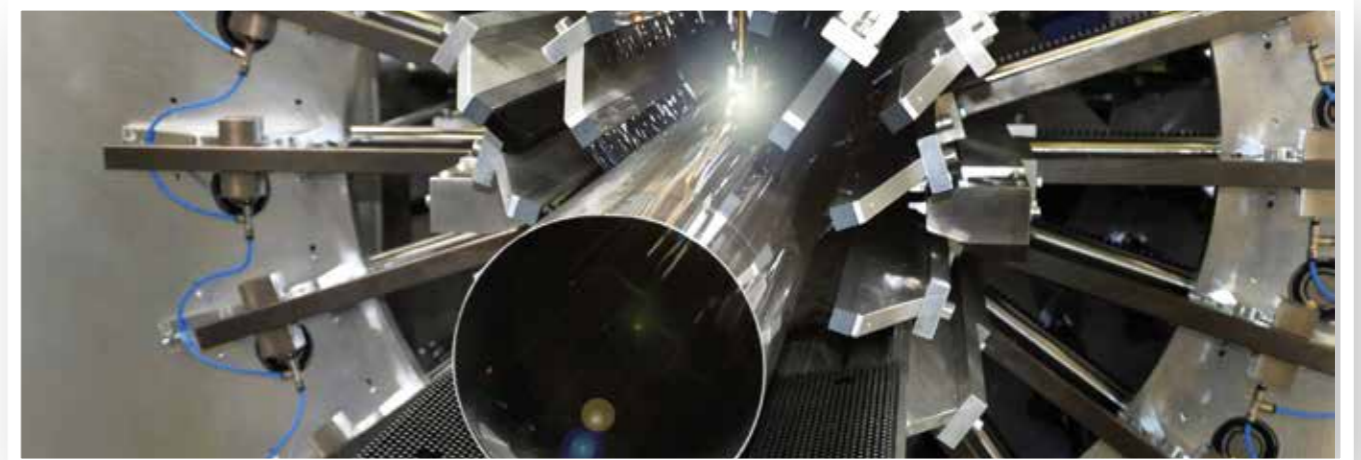
An optimal tube production system has been created with the „Flexistar“

The tried and tested multi-roller roll-forming technology has been combined with a newly developed tube guidance system in the weld area. The Flexistar, a highly flexible and automated production machine, was born.

This user-friendly and compact tube production machine requires very little standing room and can produce tubes with different diameters alternatingly, without sacrificing productivity.



Continuous workflow concept



Variable

The innovative roll-forming and clamping concept allows for the production of tubes with different diameters completely without the need for exchange components, as well the option of alternating production of different diameters (e.g. inner and outer tubes).

Continuous Material Flow

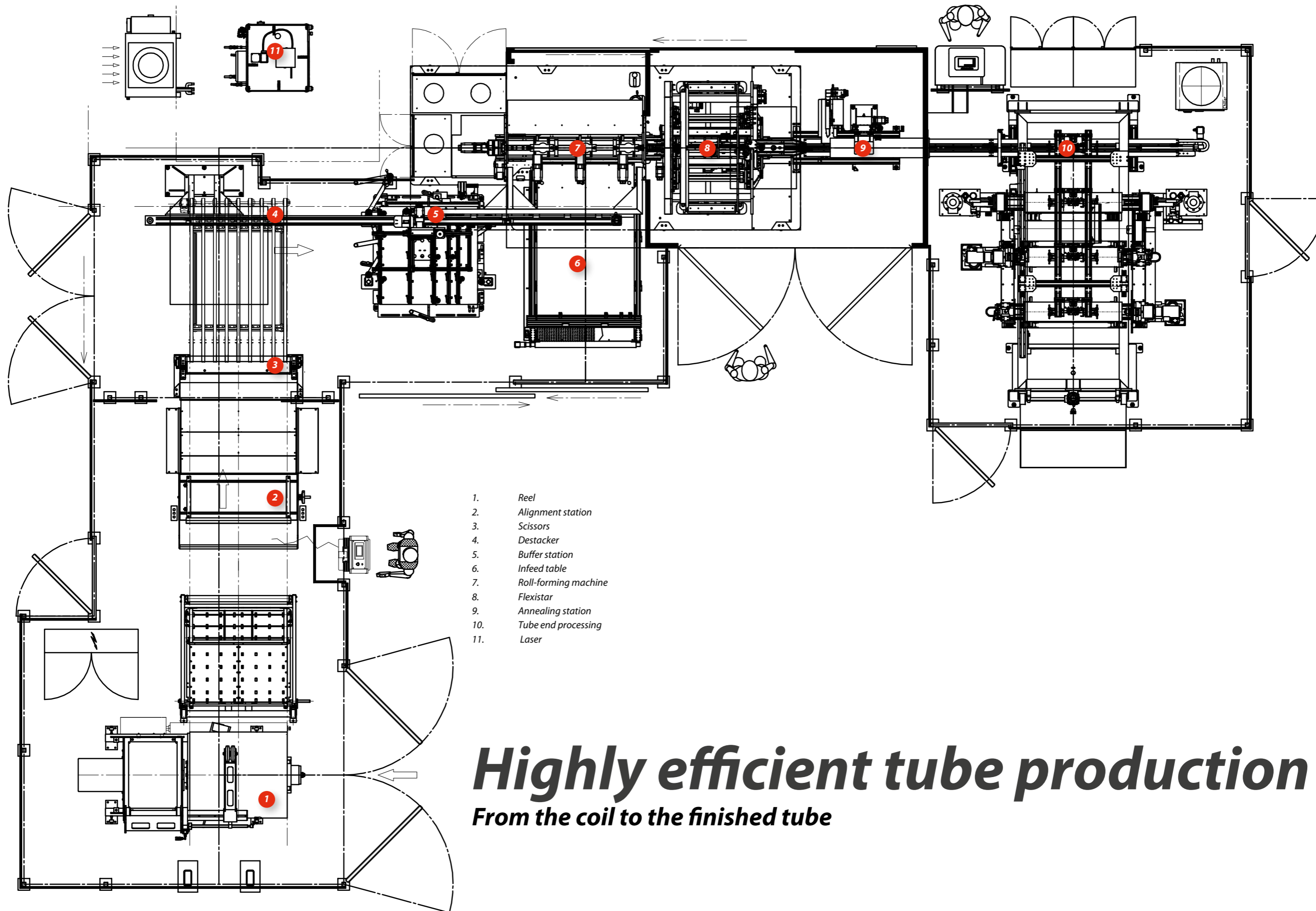
Refers to the operator-independent and fully automated workflow through the machine, from sheet to the finished welded tube.

Clean Surfaces

The guide components of the newly designed tube guidance system prevent surface damage, even when using high-gloss steels. As a result, finished tubes can be directly processed further.

Automation

On the infeed side: pallet changer, destacker or coil system and automated unloading after the welding station.



- 1. Reel
- 2. Alignment station
- 3. Scissors
- 4. Destacker
- 5. Buffer station
- 6. Infeed table
- 7. Roll-forming machine
- 8. Flexistar
- 9. Annealing station
- 10. Tube end processing
- 11. Laser

Highly efficient tube production

From the coil to the finished tube

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*Protected by U.S. Patents:
Apparatus for manufacturing tubes US 7,293,687 B2 - Nov. 13, 2007
Continuous welding machine for welding a pipe blank US 2008/0257938 A1 - Oct. 23, 2008
Roll-forming or bending machine US 7,536,891 B2 - May 26, 2009*