

FCF[®] - Flexible direct forming lines

Production of shaped tubes and profiles without changing tools

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FCF[®] - Flexible Cold Forming

UP TO 10% MATERIALS SAVINGS

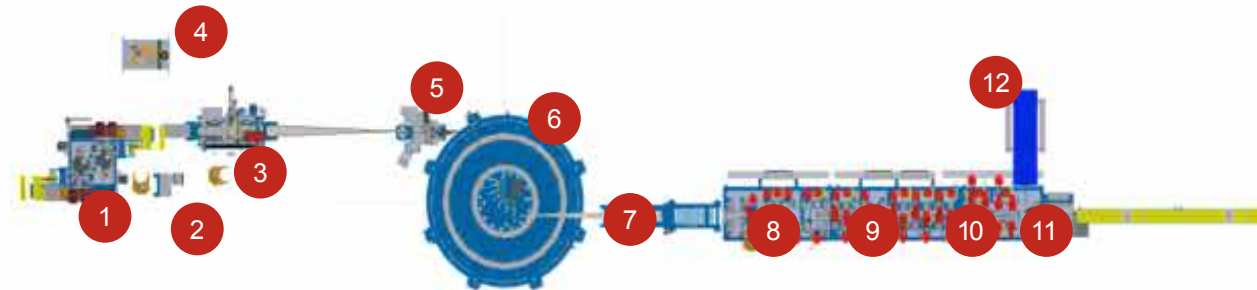
Direct forming makes optimum use of strip material. With a forming focus exclusively on the edge areas cold thickening of the strip material is minimized.

BOOST PRODUCTION BY UP TO 40%

Universal tool rollers are used over the entire dimension range. This results in extremely short tooling and short setting times, because there is no need to change the roller. Rollers are automatically set for the new dimensions.

REDUCE WAREHOUSE COSTS BY UP TO 40%

Automated roller adjustment brings very high flexibility. This means small batches can also be produced profitably, efficiently and just in time.



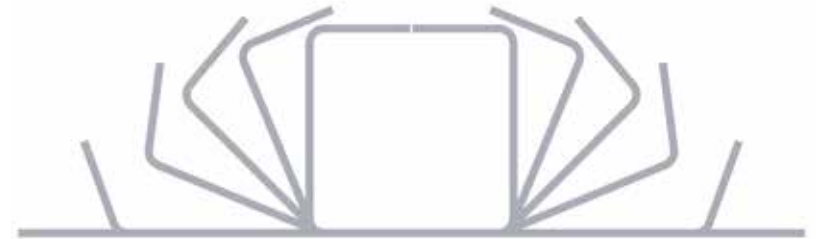
1. Double uncoiler
2. Pre-rounding station
3. Strip end cutting and welding machine
4. Hydraulics
5. Strip driver
6. Strip accumulator
7. S roller stand
8. FCF block 1
9. FCF block 2
10. FCF block 3
11. FCF block 4
12. Final roller stand



FCF calibration

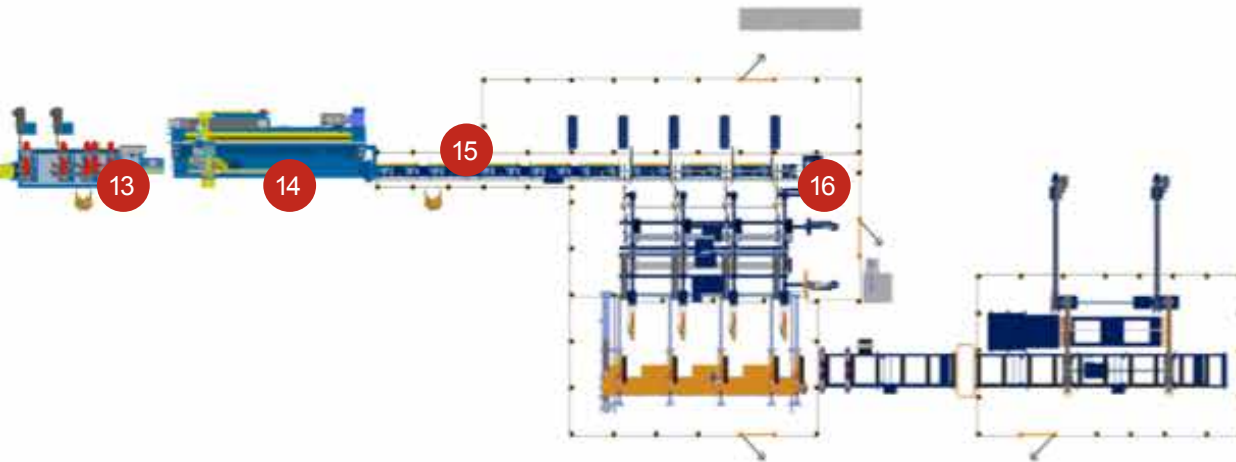


Finished tube bundle



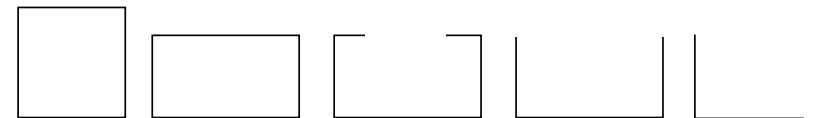
Patented Flexible Cold Forming Technology (FCF)

Direct forming of square tubes as well as L, C and U profiles from hot or cold rolled strip by means of universal, centrally adjustable roller sets.



- 10. FCF block 3
- 11. Welding table
- 12. HF generator
- 13. FCF calibration

- 14. Flying saw
- 15. Run out table
- 16. Finishing line



	Square tube [mm]		Rectangular tube [mm]	
	min	max	width min/max	height min/max
FCF 240	20x20	60x60	20/60	20/80
FCF 320	30x30	80x80	30/80	30/100
FCF 400	40x40	100x100	40/100	40/120
FCF 480	40x40	120x120	40/120	40/150
FCF 600	60x60	150x150	60/150	60/180
FCF 800	80x80	200x200	80/200	80/250
FCF 1000	100x100	250x250	100/250	100/300

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MODERNIZATION

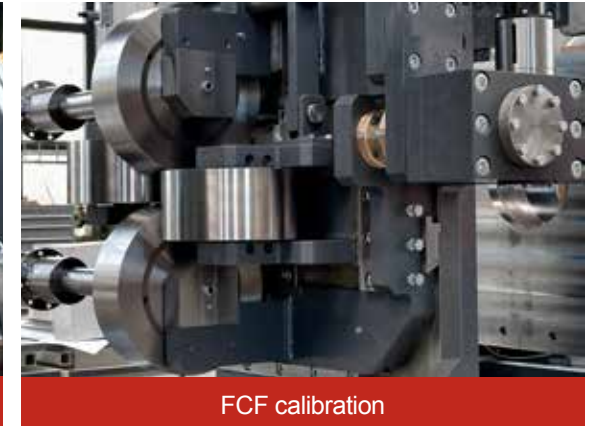
FCF components are also suited for use on existing lines, because the space requirements are virtually identical.

The FCF calibration system with driven cylinder rollers calibrates the final profile and the edge radius gently and in several stages. These rollers are universally adjustable to each other, they do not need changing and are adjusted motorically only.

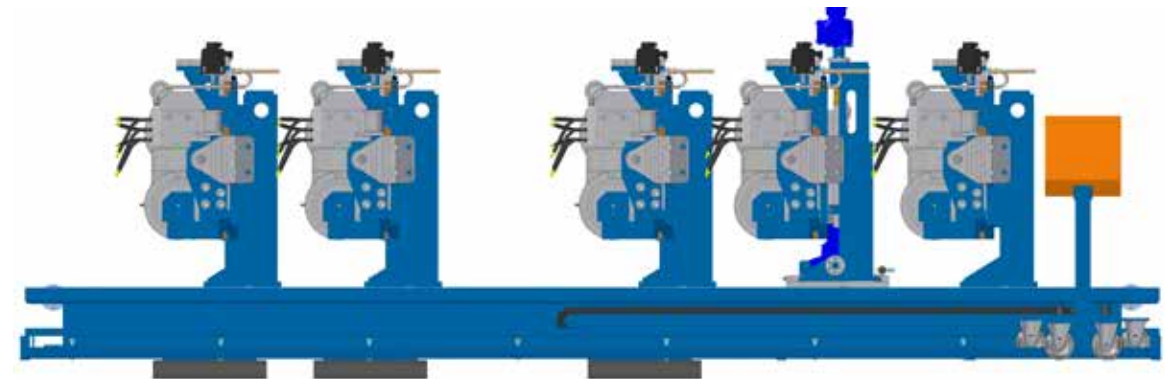
This optimization with FCF calibration can be implemented for conventional tube production lines for the manufacture of shaped tubes with the use of exchangeable discs. This conversion increases flexibility and virtually halves conversion time, since a roller change is only needed for forming and welding.

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Conventional stand with a roller change for every dimension



Conventional stand with no roller changes for square and rectangular tubes

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