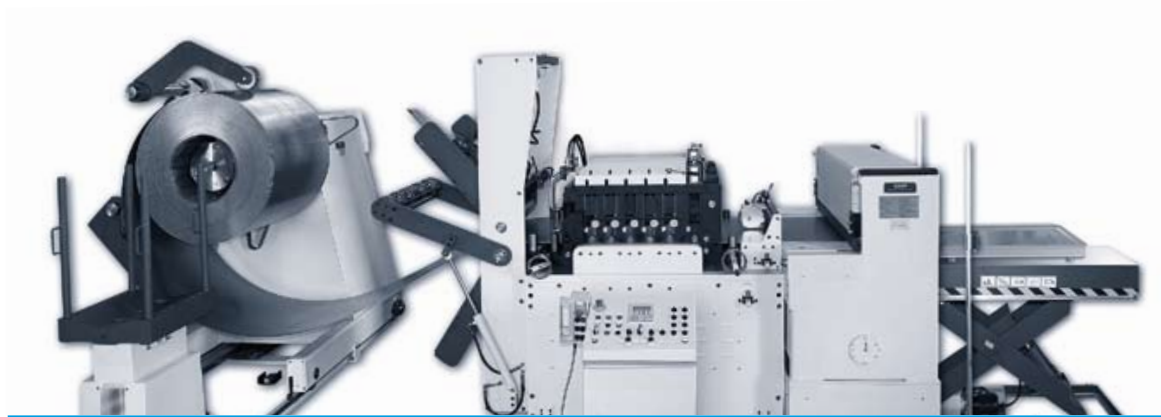

Cut-To-Length Lines

No-Compromise Efficiency



SYSTEMS
MACHINES
TOOLS & DIES
ACCESSORIES

Kontakt

GSW Schwabe AG

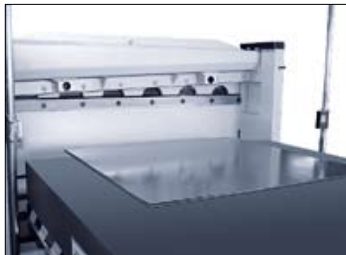
Peter-Jakob-Busch-Straße 13, 47906 Kempen, Deutschland

Telefon: +49 2152 2033-0, Telefax: +49 2152 2454

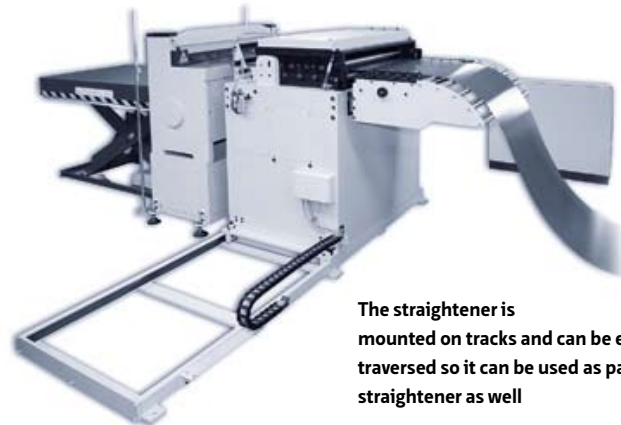
info@gsw-group.com, www.gsw-group.com

Self-Made Cut-to-Length vs. Buying Blanks

The GSW Sheet Metal Fans give insight on Cut-to-Length Line Concepts



Stacking unit with photo-eye control at exit of cropping shear



The straightener is mounted on tracks and can be electrically traversed so it can be used as parts-straightener as well

Dear Reader,

We would like to invite you to think about your production efficiency for a few minutes.

Our industry has to shoulder a cost increase in the steel sector by almost 70% over the last years. As a result, many companies are finally focusing on a topic, they now realize

to have formerly much neglected: And that is the effective use of raw material. The Sheet Metal Fans have developed a Cut-To-Length System for coiled steel material to specifically support CNC-Punching and Laser-Cutting Companies. Such companies today are mostly used to working with already cut blanks.

The GSW System works with mother coils and ultimately allows a more economical use of raw material.

We would now like to give you a quick comparison of today's operating method compared to that of the new GSW Cut-To-Length Line:

Operating mode - old

- Purchase of tailored blanks from a steel service center
- Reloading from wooden pallets onto steel pallets
- Storage in special blank shelves
- Work order based removal from storage and subsequent processing

Operating mode - new

- Purchase of coil material
- 24-48 hour head-up scheduling of material needed for production
- flattening & cropping of job-specific amount of blanks with GSW Cut-To-Length Line
- Immediate processing of the blanks or interim storage in a rack system (with existing shelving)

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Operating mode – old: Results

- Waste of valuable production floor space for the purpose of blank storage
- Generation of remnants (customer takes less than previously affirmed)
- Cost increase through necessary fallback on different size blanks
- High scrap amounts through dependence on standard size blanks

Conclusion: Excessive use of resources

Operating mode – new: Results

- Cost savings through purchase of coil instead of blank material
- Less use of floor space as coils are more compact and no leftover blanks are generated!
- Cost reduction through better blank quality (depending straightener design)
- Waste reduction by approx. 10–15% as blank length is configured individually!

Conclusion: Increase in production efficiency

The GSW system also offers another important advantage – it can be configured in such a way that the straightener can also be used as a parts flattener (see picture on the left). This contains great potential to minimizing parts rejection and thus can further reduce cost!

Example costing: Thin sheet, 1 mm, hot-dip galvanized

Based on post calculation data of a bigger customer with annual consumption of 4,000 t

	Sheet	Coil	Cost reduction
1. Purchase price	820.00 €/t	790.00 €/t	30.00 €/t
2. Volume discount on purchase price (with purchase directly from steel mill, w/o steel service center)	0.00 €/t	50.00 €/t	50.00 €/t
3. Waste reduction through exact longitudinal cutting of blanks			60.00 €/t
Total savings per ton			140.00 €/t

Costing for 4.000 t

	Sheet	Coil	Cost reduction
1. Purchase price	3,280,000.00 €	3,160,000.00 €	120,000.00 €
2. Volume discount			200,000.00 €
3. Waste reduction			240,000.00 €
Total cost savings for materials			560,000.00 €
4. Savings handling & floor space			80,000.00 €
5. Cost of capital (coil stock) and amortization of the C-T-L line			-200,000.00 €
Total improvement of company earnings			440,000.00 €

Financial advantages achieved through part straightening performance and improved straightening quality are not considered with this capital budgeting.

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Technical data of the GSW Cut-to-Length Line

Decoiler SHR 10/1600

- 10 t load capacity
- Hydraulic wedge-type expansion for 1,000 mm material widths
- 1,600 mm max coil outside diameter
- 21 rpm

Feeder-Straightener VRMA 100/118

- reinforced straightening head with back-up for high rigidity
- 11 straightening rolls with 80 mm diameter
- 1,000 x 3.5 mm max. cross-section at 400 N/mm² yield
- V-max approx. 45 m/min

Cut-To-Length Shear TSQE 1540

- Up to 35 cuts/min
- Up to 4.0 mm material thickness (at 400 N/mm² yield)

Dear Reader,

This little pamphlet probably helped you realize a significant potential to achieving higher production efficiency.

This is why we want to conclude by following the message of our header and invite you:

Don't buy blanks but do it yourself!

Best greetings from the Sheet Metal Fans in Kempen/Germany,

*Benjamin Schwabe
CEO*

Kontakt

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