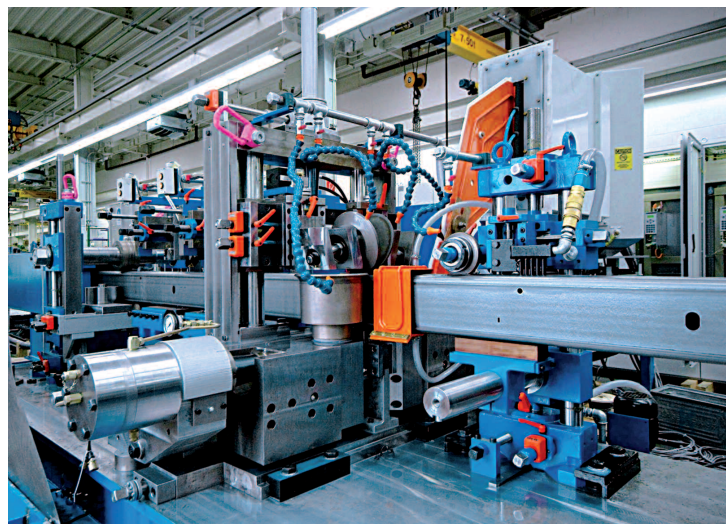




Pre-punch system with integrated mechanical press

- ✓ **Integrated Stamping Press**
 - High performance pre-punch systems with integrated high-speed presses
 - rapid change pre-punch dies

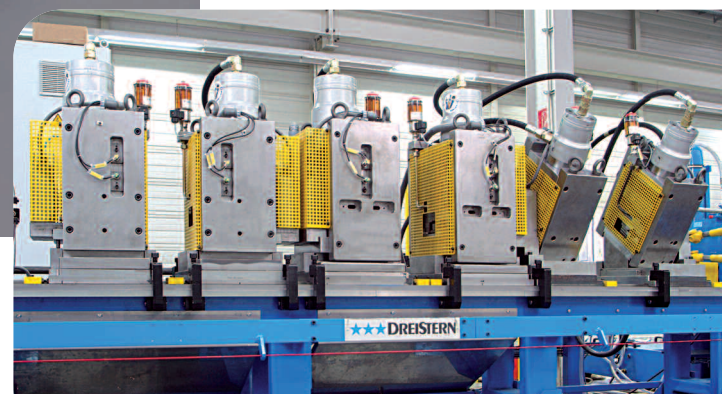
- ✓ **High Frequency Welding**
 - Induction weld process
 - high welding speeds



HF welding zone



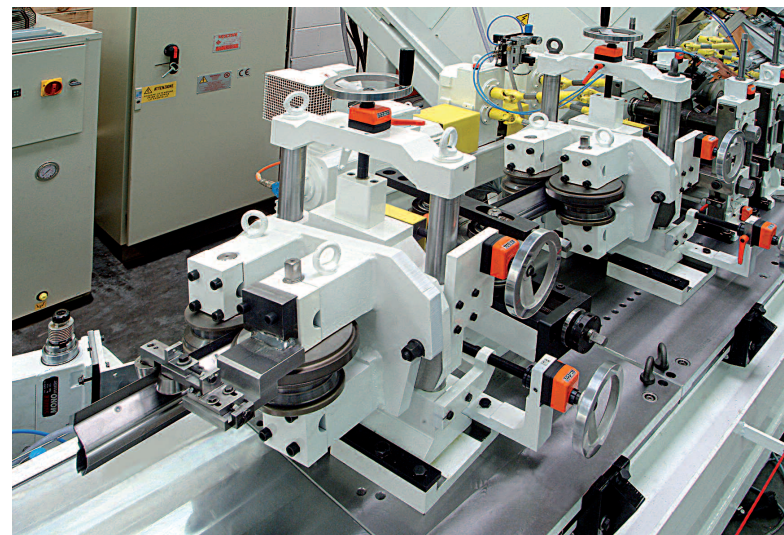
Rollforming system for automotive seat tracks



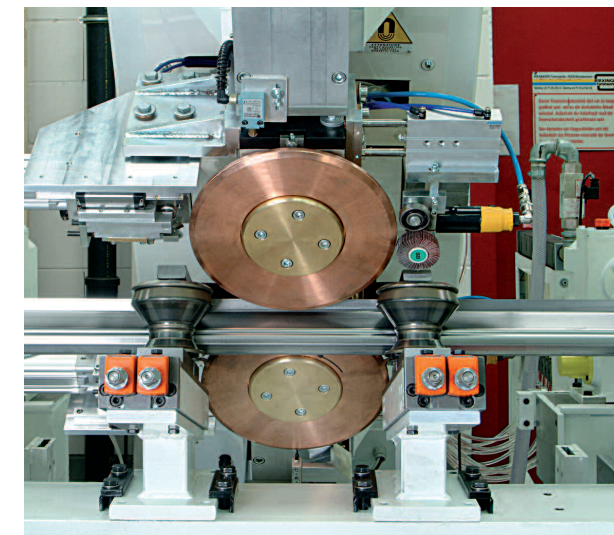
Hydraulically operated mid-punch dies

1 Rollforming System for Door Reinforcement Profiles

- reliable processing of ultra high strength steels
- RH and LH parts with the same rollform tooling
- swept and compound swept profiles
- highly flexible laser weld-seam configuration (Butt-joint, fillet joint, lap joint, double flange joint)



Sweep and compound sweep in-line



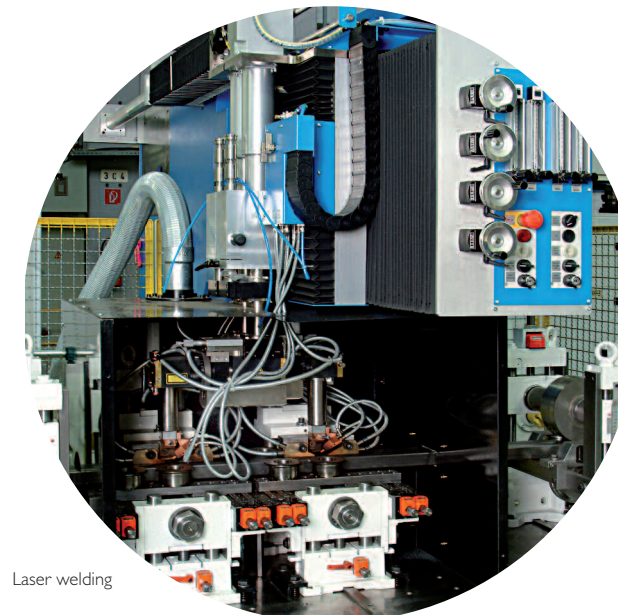
Roller seam welding of door reinforcement profiles

2 Rollforming System for B-Pillars

- surface critical outer profile
- swept and compound swept profiles
- high output
- four versions with one rollform tooling (2 each, drivers and passenger side)
- higher speeds as compared to extruded products
- better tolerances as compared to extruded profiles

3 Rollforming Systems for Automotive Seat Tracks

- no material waste
- very high output
- required to maintain 1.67 Cpk
- RH and LH parts with the same rollform tooling
- integration of auxiliary operations (embossing, piercing, bending)



Laser welding



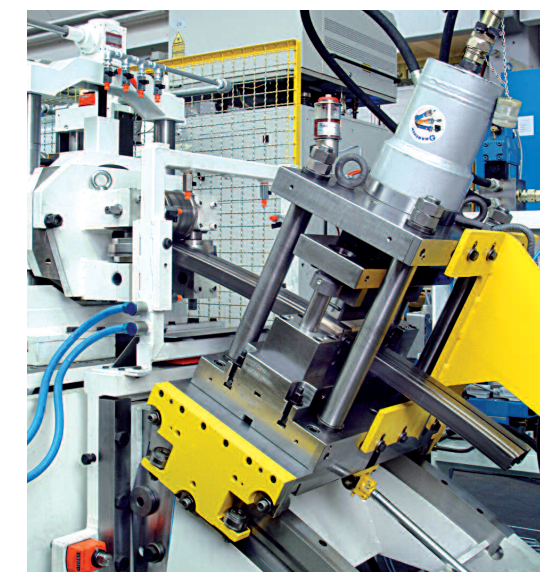
Post-punch tools for sill-reinforcement production

4 Rollforming System for Bumpers

- Bumpers bent (swept) in-line
- reliable processing of ultra high strength steels (e.g. DPI1000, DPI200)
- higher speeds as compared to extruded products
- better tolerances as compared to extruded profiles

5 Rollforming System for Sill Reinforcements

- low tooling costs
- very high output
- easy to compensate for different material spring-back



Post bend and cut-off of bumper profiles

- ✓ Superior production speed
- ✓ Rapid product change due to ultra-flexible tooling solutions
- ✓ Unsurpassed quality in each individual part
- ✓ Unsurpassed process safety and system uptime
- ✓ Economical solutions for all requirements

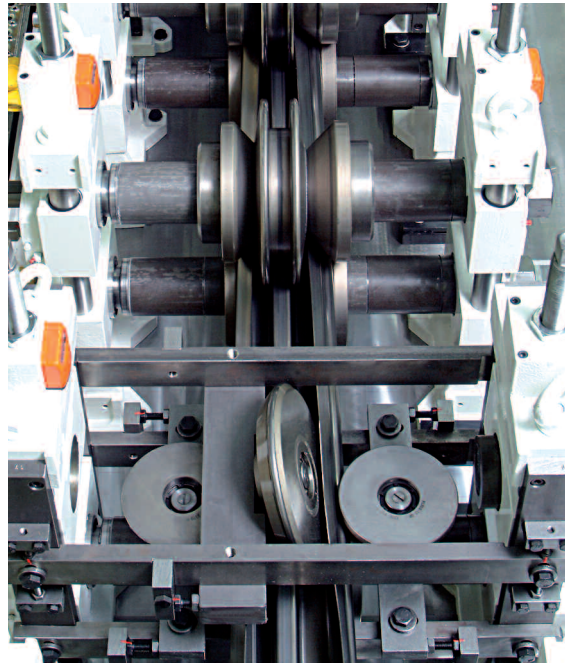
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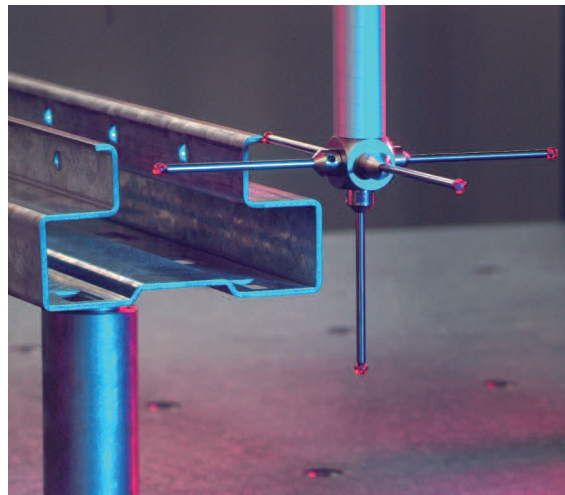
**DREISTERN – The Ultimate
in Rollforming**



Rollforming process in a try-out machine



Inspection of rollforming stands



Verification of profile tolerances

- ✓ **Rapid Prototyping**
 - hassle-free prototyping using Dreistern's try-out machines
 - prototype parts in 3-4 months
 - open and closed profiles realized
 - prototype tooling will later be the production tooling

DREISTERN GmbH & Co. KG
Wiechser Straße 9
79650 Schopfheim/Germany
Tel: +49 (7622) 391-0
Fax: +49 (7622) 391-205
info@dreistern.com
www.dreistern.com

DREISTERN Inc.
Hilltown Industrial Park
801 Tech Drive,
Telford PA 18969/USA
Tel: +1 (215) 799 0220
Fax: +1 (215) 799 0420
usa@dreistern.com
www.dreistern.com

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