The Ultimate in Roll Forming



• High performance pre-punch systems with integrated high-speed presses

• rapid change pre-punch dies

High Frequency Welding

- Induction weld process
- high welding speeds



Pre-punch system with integrated mechanical press

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Hydraulically operated mid-punch dies

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)

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)

Rollforming System for Bumpers 4

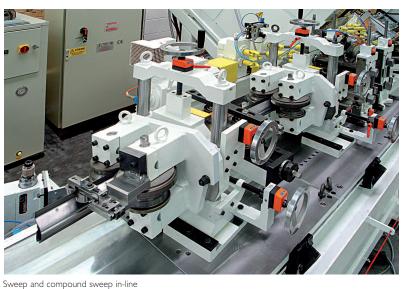
- Bumpers bent (swept) in-line
- reliable processing of ultra high strength steels (e.g. DP1000, DP1200)
- higher speeds as compared to extruded products
- better tolerances as compared to extruded profiles

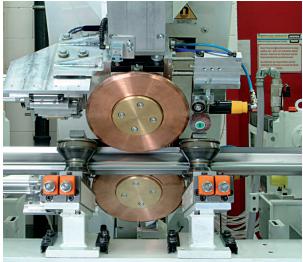
5 **Rollforming System for Sill Reinforcements**

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



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Roller seam welding of door reinforcement profiles

Laser weldir



Post-punch tools for sill-reinforcement production



Post bend and cut-off of bumper profiles

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