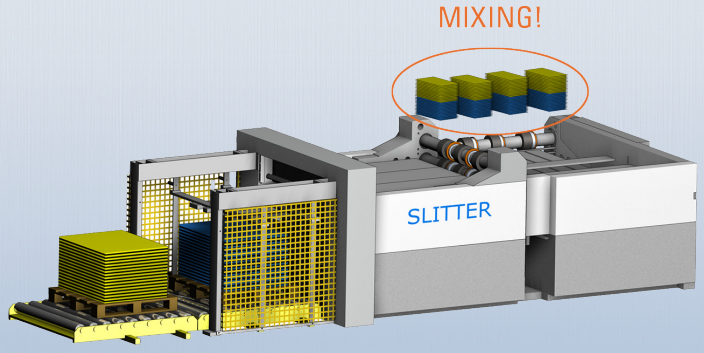
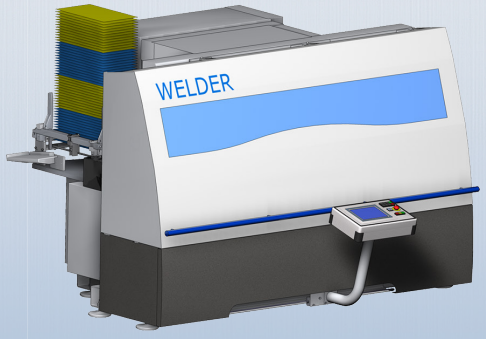
Technology News

Issue 11, September 2014

ADAPTIVE ROUNDING SYSTEM
ARS CONVERSION

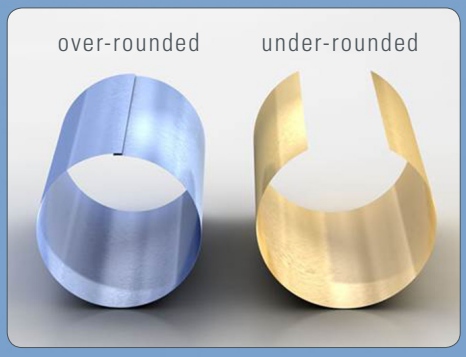
Soudronic offers conversion kits for all widely sold welder types.



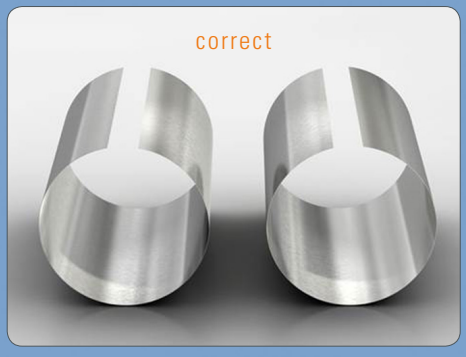


Every day, canmakers are confronted with the problem of processing sheet metal in different yield strengths, plain or lithoed, for different brands and in mixed batches (from the beginning and end of the coil).
No operator can be expected to adjust the rounding setup to accommodate the multiple changes in material behavior. This often leads to blanks crashing in the welder and pushes down line efficiency.

Soudronic's Adaptive Rounding System (ARS) analyzes the characteristics of the body blank material and automatically sets the roll-form geometry. As a result, the rounded cylinder has a constant geometry, independent of the material properties. The system's reaction time is less than 2 ms, which makes it suitable for speeds up to 1000 cpm. It can also significantly help to improve general production line performance.



without ARS™

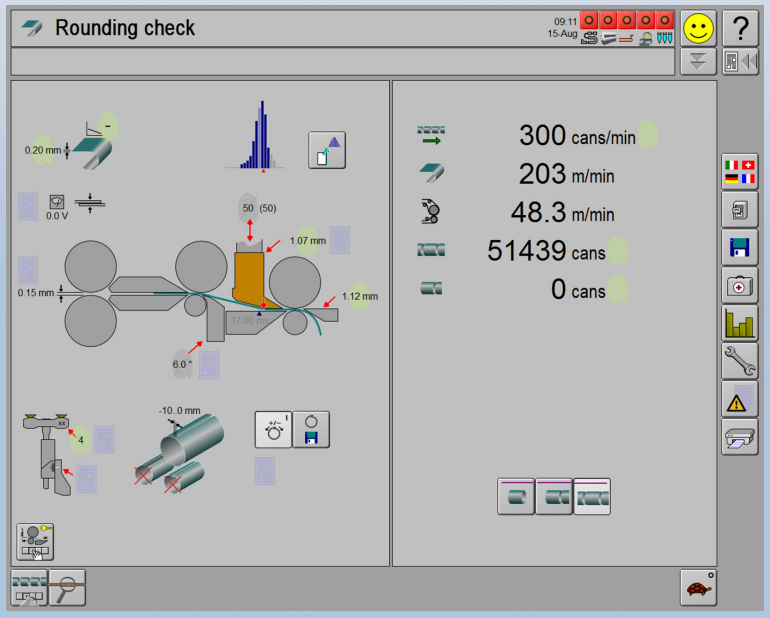


with ARS™

BENEFITS FOR THE CUSTOMER

- No adjustment necessary for changes in yield strength
- Different tinplate brands can be processed without interruption
- Different qualities of tinplate (e.g. at the beginning or end of the coil) can be processed without interruption

- Higher overall line performance due to fewer machine stops for resetting
- Can size changeover requires only standard procedures: i.e. no special setup is needed to activate ARS
- Constant cylinder geometry results in less wear on z-bar (headpiece) during pre-calibration
- Constant cylinder geometry means less adjustment at the pre-calibration stage
- Statistical registration of yield strength variations in UNICONTROL
- Optimal flexer wedge setting is shown on display. Settings are not made by trial and error.



RETROFITTING

- Old welders can be modified in most cases
- More than 80 % of all individual parts are identical or can be reused
- New roll-former kit with ARS as conversion replaces one total overhaul per year