

Electronic Shimming™

Throw away the manual shims and experience increased productivity, quality, and profit



Up to
45%
increased
margin

Example of stainless steel parts produced with Electronic Shimming™ – and without annealing. On the left, double bowl kitchen sink with drying board. On the right, gas tanks, fenders and housings for motorcycles.

BETTER QUALITY

- Deep draws up to 15% deeper
- More homogeneous thickness distribution
- Improved flanges flatness

MORE PRODUCTIVITY

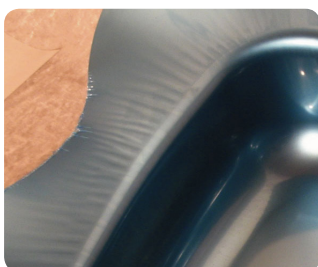
- 200 extra units/product change (no startup time)
- 10% more output per shift (adjustable on the fly)

IMPROVED PROCESS

- Eliminates wrinkles and cracks
- Reduces polishing and annealing costs
- Increases consistency, allowing automation

MORE EFFICIENCY

- Save up to 5% in blank size
- Save up to 15% in blank thickness
- Reduce scrap by 50%



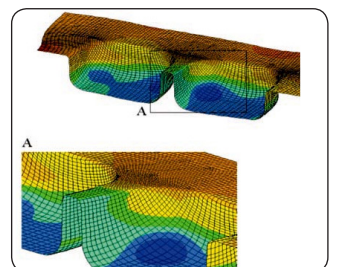
Wrinkles and buckles as a result of uncontrolled material flow during deep draw.



Electronic Shimming™ produces flawless products due to extreme blankhold control.



Up to 300 food trays per hour thanks to great consistency from dynamic shimming.



Up to 30% thicker lower corners.

What is the system composed of?

CONTROL UNIT

- Dimensioned according to Electronic Shimming Plate with largest amount of membranes
- Multiple and independent pressure sets per membrane during the draw
- Programmable and self-adjusted in-between cycles



ELECTRONIC SHIMMING PLATE

- One plate per die, even if different product depths
- Minimal die wear (less maintenance and longer die-life)
- Facilitates die running-in and is maintenance-free

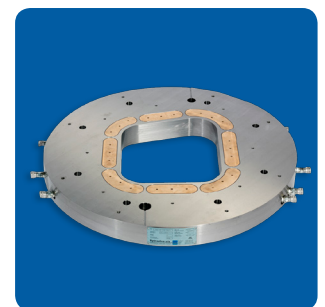
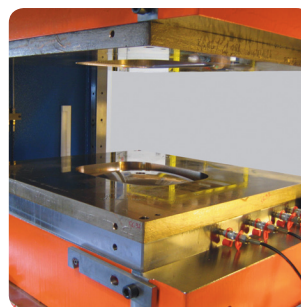
A SYSTEM THAT:

- ✓ Secures your know-how
- ✓ Fits into your existing equipment
- ✓ Offers fast payback
- ✓ Is proven and user-friendly

SOME REFERENCES:



TRAMONTINA



Top: Example of 14 membranes plate for double bowl sink monoblock production.

Above, left: Example of Electronic Shimming Plate installed under blankholding plate.

Above, right: Example of 8 membranes plate for production of stainless steel part.



Hydraulic

Hydraulic is a Danish company that has delivered more than 4,000 hydraulic presses and over 500 press modernizations in 60 countries since 1946.

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