



EMPT welded Air and/or Fuel vessels

Material

- ⇒ Reduction of the tube and lid wall thickness
- ⇒ Significant weight reductions possible
- ⇒ Easy to change the dimensions of the tube and lids
- ⇒ Welding of dissimilar materials (Aluminum tube in steel lid, etc.)

Process

- ⇒ No thermal heat input
- ⇒ Helium tight
- ⇒ No filler material
- ⇒ No need of sellings
- ⇒ Different concepts with one machine unit
- ⇒ Simultaneous and multiple welding possible
- ⇒ Significant cycle time reduction in relation to conventional thermal welding
- ⇒ Clean and energy efficient process
- ⇒ Easy to operate and easy to automate

Marketing

- ⇒ Low production and running costs
- ⇒ Competitive advantage
- ⇒ Ideal for middle and high-volume production
- ⇒ One of the most innovative welding technologies on the market



PSTproducts GmbH

PSTproducts GmbH provides EMPT systems since 2003 and is recognized as the market leader for industrial solutions and manufacturing cells. It focuses on the automotive, packaging, E-mobility and lightweight sectors and has a lot of patents and innovations.

All machines and systems are designed and manufactured in Germany.

The Working Principle

The electromagnetic pulse technology (EMPT) is based on the physical law of the Lorentz force, which is generated, if a varying magnetic field induces counter flowing eddy currents in nearby electrically conducting materials, so that these materials are repelled from each other.

In optimized machines, these forces can be used to accelerate work pieces to a speed of up to 600m/s. The electro-magnetic forces can be used for welding, crimping, forming, cutting and compressing of technical products with the highest quality demands.

Our Portfolio

- Design and manufacture of industrial solutions
- Turn-key systems world wide
- Consulting and engineering services
- Finite element analysis (FEA)
- Parameter development studies
- Bespoke prototyping
- Customer specific automatization
- Active sales and customer service



EMPT manufacturing system of PSTproducts

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