

## **NPE – Orlando:**

### **BIELOMATIK Presents A Fresh Look with New Innovations! Once again, the portfolio for achievable plastic welding technologies has been increased!**

Specifically developed for the US market, bielomatik has come up with a **technology evolution for hot gas welding**. This is only topped by the debut of “**Turn2Weld**”, a unique 2-step laser welding technology. The first machines have been produced and will exclusively be introduced at the NPE in Orlando, FL.

**The brand new 2-step laser welding process** combines the advantages of the well-known and robust infrared welding with the quasi-simultaneous laser-based welding. Separate periods of heating and joining provide flexibility in the welding process. The mating surfaces are heated flexibly with high scanning speed lasers before they are joined under constant pressure.

#### **Numerous benefits in one production process**

Laser transparent plastics cease to be an issue. The use of expensive additives and considerations regarding different absorption properties as well as special component design for laser penetration are no longer necessary. Component alterations and tolerances are easily adjustable. With only one heating source, tool exchange is simple for different welded parts, allowing for a speedy change over time.

#### **Convincing results**

2-step laser welding Turn2Weld is completely particle-free, with high welding strength even with challenging structures. Turn2Weld facilitates what was previously impossible – laser-welding using traditional methods of components with inserts or difficult geometries. Applications are found in the automotive industry, white goods, sanitary and installation, electrical engineering, electronic engineering, medical and pharmaceutical technology.

#### **Tailor-made consulting**

bielomatik provides consulting services for all plastic welding and automation applications using more than 70 years of experience and a wide variety of technologies. Our main goal is to always offer perfectly tailored solutions that economically and technically meets the requirements of customers.



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