

System Solutions

TSS Spindle

Setting System for Sandwich Structures



TSS Spindle

+ Model TSS Spindle as a robotic integrated system or fixed position assembly cell for joining lightweight materials

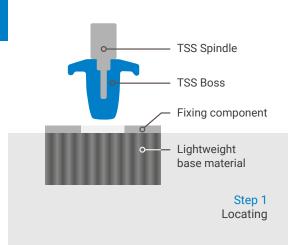
Features

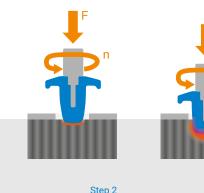
- + The installation of plastic bosses in lightweight materials is possible with or without pre-hole
- + Individually adjustable process parameters
- + Feasibility study and check of completed joints at the WEBER laboratory
- + High resolution process results
- + For tasks with accessibility from one side only
- + Higher transmissible torque and pull out forces than with existing (familiar) joining components

Applications

- + System for installing plastic bosses with a thermal adhesive bond for firm joints in lightweight materials
- + For use with:

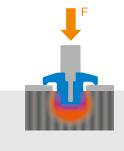
Laminar structures (sandwich panels or honeycombs) Fibre composites (carbon or glass) Particle composite material





Frictional heating

Step 3
Penetration / Melting







Step 5 Cooling/Tool retract

Technical data

TSS	
System dimensions [mm] (H x D x W)	630 x 185 x 165
Weight [kg]	approx. 13
EC - power drive [rpm]	up to 5,000
Max. pressure spindle [N]	1.400
Cycle time (without cooling) [s]	from 3



