RTS® 2000
ROTARY TRANSFER SYSTEM
Assembly system for ignition capsule plugs

**Enhanced flexibility thanks to linear axis technology**
The automatic assembly system’s structure consists of an electropneumatic rotary transfer system incorporating 30 stations and simple press tools. An upstream recirculating transfer system features 3 manual work stations. The rotary transfer system is a steel structure designed to accommodate all of the stations located inside and outside the rotary table. The rotary table is powered by a drive actuator. The control console can be swiveled around the entire RTS® machine assembly.

**Ignition capsule plug**
Comprising the following individual components
- Contact terminals with cut strands
- Lower housing section: orange, green, violet
- Coil
- Upper cover section: orange, green, violet
- Secondary detent

+ 15 parts / minute
+ > 20 versions
+ 30 stations
+ Various camera-equipped visual inspection stations
+ Resistance welding
**Station 1**
*Deliver and deposit housing*
A spiral conveyor with a linear guide rail separates the individual housings and delivers them to the machine assembly. A check runs to ensure that housings are present and that they are correctly coded prior to separation. A pick-&-place handling system then removes the individual parts and places them in workpiece carriers. “Reject” parts are discharged at an intermediate position.

**Station 9**
*Hot-stake tab*
A temperature-controlled soldering gun hot-stakes the tab on the housing to secure the contact terminal that will be punched out.

**Station 15+16**
*Weld contact terminals*
The contact terminals are welded to the end of the coil. The welding unit is provided by the customer. Welding is performed at 2 stations, including a monitoring system and a welder. The welding head’s motion is governed by a vertical guide unit located on the welding unit.
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With its own e-fleet, photovoltaic system, storage battery and charging station, sustainable e-mobility is in daily use at teamtechnik since 2013 and is part of the business model. Today, teamtechnik is leading in test benches for e-drive systems used in e-vehicles. Additionally, teamtechnik supplies assembly and test systems for batteries as well as PV stringers.