

# TUCKER Grounding

Made for Electrification & E-Mobility

→ Lowest and most consistent resistance over lifetime

## Grounding in mixed Material Body shops

Increased proliferation of electrical devices in modern cars is driving increased requirement for grounding connections. Demanding applications such as safety systems require consistent low resistance performance.

Since 1970, Stanley Engineered Fastening has been supporting automotive OEMs globally with No-hole Fastening solutions. The Tucker stud welding process has advanced monitoring capabilities and instant feedback to monitor and store all aspects of the welding process. This is the key to fulfil upcoming safety regulations in various countries. OEMs have to prove that the grounding stud was welded correctly to the car body in order to provide best conductivity.

Steel is the most commonly used material in today's automotive industry. New advanced steel grades are supporting the lightweight strategy of all OEMs.

Even though Aluminum will not be used in high volume cars, we will see an increased use of extruded material and cast aluminum in body shops.

TUCKER offers Drawn Arc Welding as No-Hole grounding solutions for all steel and aluminum grades used today and is constantly working with OEMs and material manufacturers to be ready for the future.

Safety in EVs and autonomous vehicles will demand 0 ppm for wire harness during the entire life of the car.

## Unbeatable Grounding Solution:

- Resistance < 100  $\mu$  over lifetime achievable
- Lowest dispersion of resistance values

## Mixed Material

- Weldable to all automotive steel and aluminium materials

## Unique Portfolio

Full system supplier – Tucker USP globally

- Ground studs
- Anti-rotation clip
- Welding equipment for steel and aluminium
- Tightening equipment



# TUCKER Ground Studs

Made for Electrification & E-Mobility

→ Lowest and most constant resistance over lifetime

Tucker stud welding systems record process data per car body ID and stud ID. Multi-protocol support, e.g. MQTT, IPM and future OPC-UA enable our customers to have full data transparency in their Body-in-White environment.



## Line Communication

- Data recording for any welded stud
- I4.0 capable electronic tracking of manufacturing process

