

SCREW FEEDING UNIT

Activity area: car industry



Challenge

Bollhoff screw feeding unit to dispense a preset number of screws on assembly station of electric vehicle propulsion unit. To be able to guarantee that the operator get the preset number of screw and to avoid risk of screw loss in the electric motor.

DOGA Solution

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Bowl feeding unit with 3 ways selector and hopper to dispense and count screws according to the quantity specified by the line on 3 assembly stations. 2 different screw models.

2 UBF 340 Böllhoff vibrating bowl units (1 per screw type) with additional hopper (autonomy improvement) and 3 ways selection unit allowing to send screw from 1 bowl to 3 different workstations. Specific collect box equipped with a sensor to guarantee screw feeding. HMI to ensure the assembly control.

Benefits



Ergonomy



Quality

▶ Reduction of non-conformity



Productivity

▶ Waste reduction