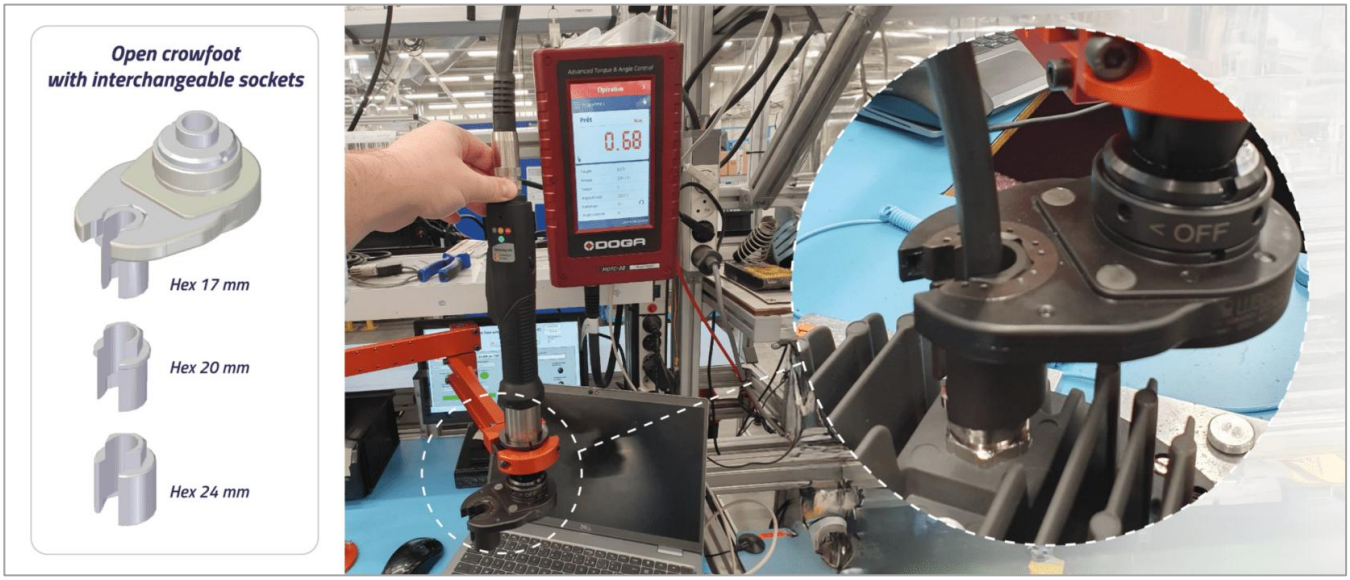
APPLICATION SHEET

DOGA ASSEMBLY TECHNOLOGY

CONTROLLED TIGHTENING OF DIFFERENT SIZES OF CABLE GLANDS

Activity area: Manufacturer of control and signalling solutions



Context

On a cable-gland assembly line, the operator had developed MSDs (musculoskeletal disorders) while using a click-type torque wrench with vernier adjustment, and recurring quality issues were observed due to the risk of pinching the cable during this manual operation.

Customer needs

The customer asked DOGA to propose an ergonomic, zero-defect replacement solution capable of tightening three different sizes of cable glands (Hex 17 mm, 20 mm and 24 mm) at three different torque values (from 8 to 10 Nm), ideally with a gain of productivity.

DOGA solution

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Transducerized screwdriver and open crowfoot with magnetic retention and interchangeable sockets.

- MDT3220-Q/L 3/8 straight screwdriver with embedded torque and angle transducers
- Open crowfoot with interchangeable sockets
- BA25 R articulated torque reaction arm

Benefits

Productivity

- Reduced cycle time
- Quick socket change
- Automated torque changeover without manual tool adjustment

Quality

- No more scrap
- Improved tightening accuracy
- No risk of over-tightening

Ergonomy

- Operator comfort ensured through torque reaction absorption (elimination of MSDs)
- Motorized tightening

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