Design of an automatic threading- and chamfer machine

Edwin Peeters and Robin Urkens

Specialization Electromechanical Engineering Technology



Result





- Process duration 2,5 hours
- Transport with a pallet
- Threading holes of M5, M6 and M8 Precision of min. 0,2 mm
- Tube profiles are max. 80x80x6 mm
- Steel AISI 1035 Tube profiles and L-profiles Max. length tube profiles of 3,22 m and min 1 m
- General machine safety rules

Requirements

In order to make the threading and chamfer process faster, easier and cheaper, Coolen Engineering wants to automize this. Therefore, we received the assignment to design a machine that can do this.

Supervisors / cosupervisors:

John Bijnens Karel Kellens

Michael Daenen

Design

Rob Coolen

3D-drawing machine frame, https://coolen-engineering.eu Photo tube profiles Hiwin linear guideway, https://www.hiwin.com Precision ring guide, https://www.hepcomotion.com Concept sketch

Concept sketch Spindle, https://www.maedler.de Rack guide, https://www.maedler.de





