

Rotary Container Changing System

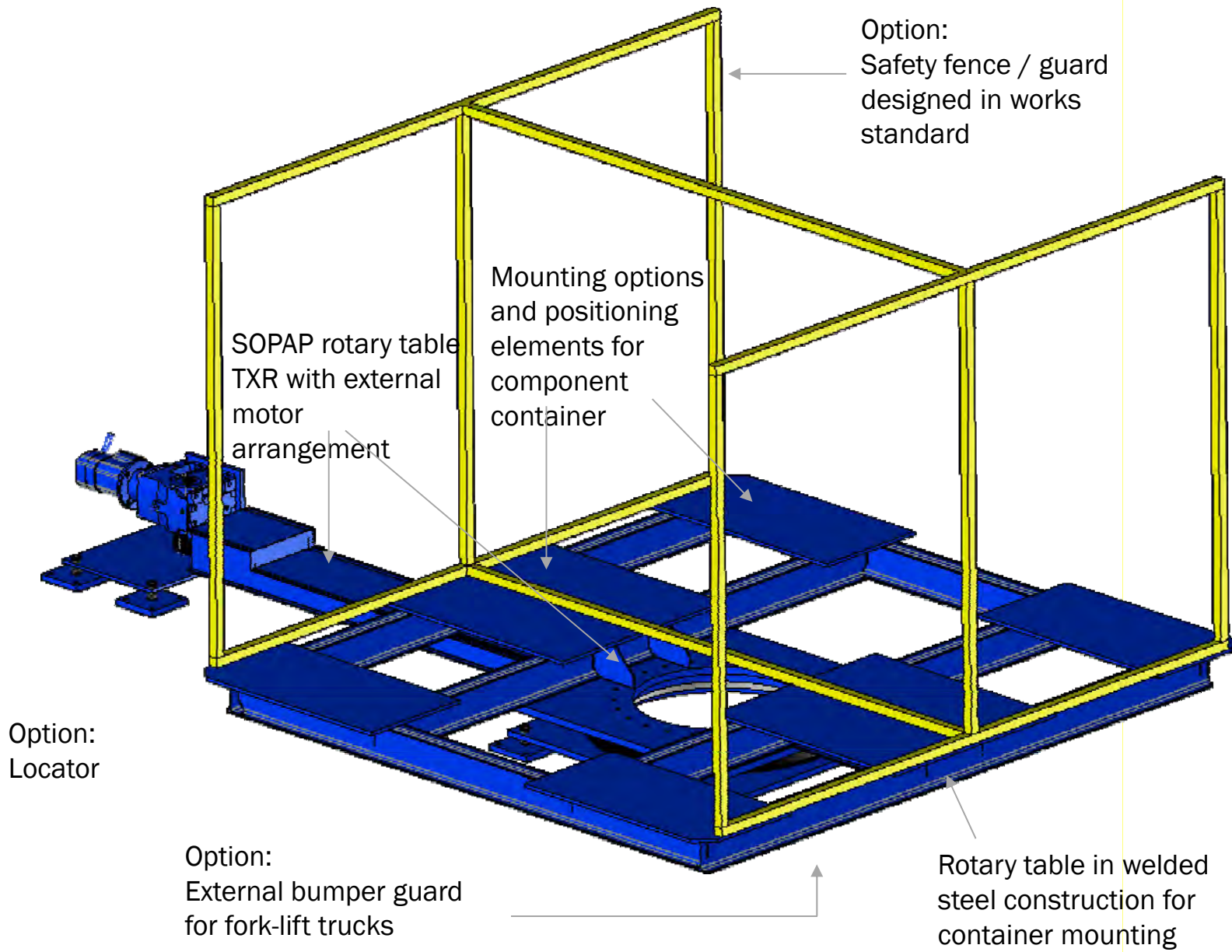
Transport containers for car body parts - usually designed as clinker storage system - are increasingly used for direct parts supply in robot cells.

To ensure constant availability, at least two container spaces need to be provided at the cell (principle: full box / empty box).

Vertical systems, operating overhead have inter alia established as changing systems for inward and outward transfer (see TÜNKERS APM Container Changing System).

Simple horizontal rotary changing systems offer an alternative.

Rotary Container changer Constructional Design

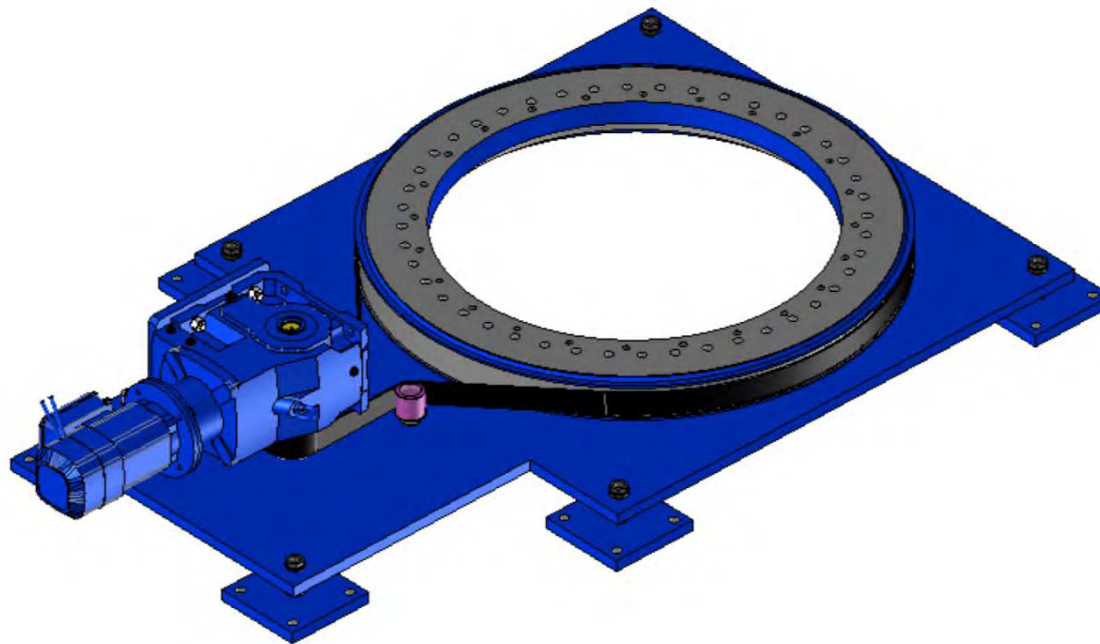


SOPAP – Flat Rotary Table TXR – Core Cell of the TÜNKERS Rotary Changer

The new SOPAP Flat Rotary Table TXR reduces the components required for a rotary indexing table to a minimum:

Base plate – bearing – toothed belt – gear motor

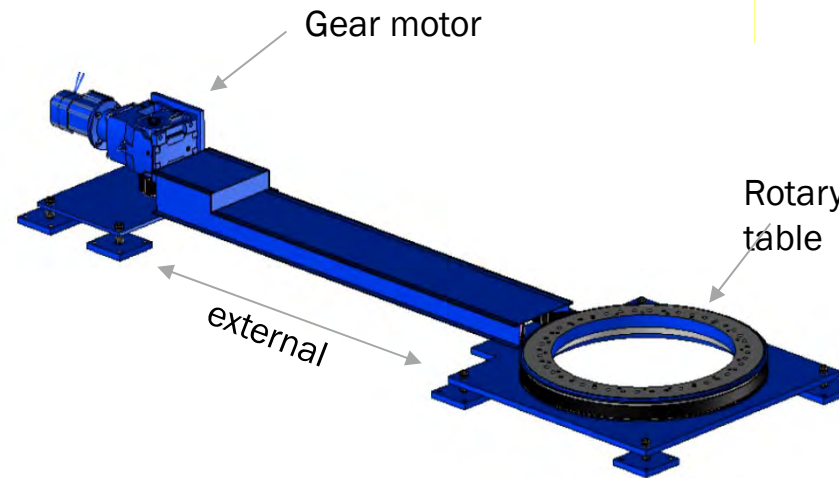
The result of this design is a simple, robust and simultaneously flat design.



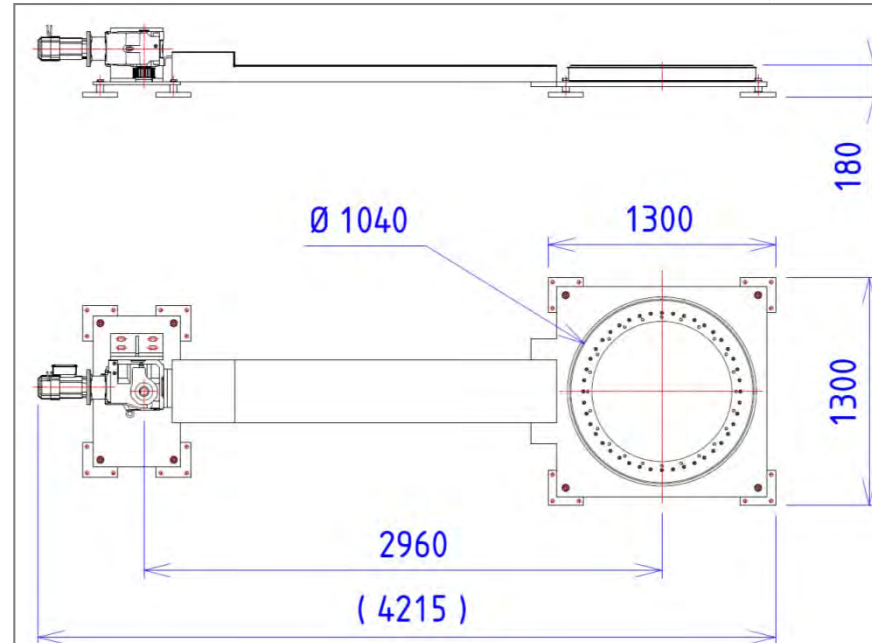
SOPAP Flat Ring Table TXR with External Motor Arrangement

The mechanical separation of motor and rotary table allows an optimized construction with external drive arrangement.

SOPAP rotary tables of the TXR series are therefore especially suitable as low-floor drive to rotate large and widely projecting loads e.g. the rotary container changer.

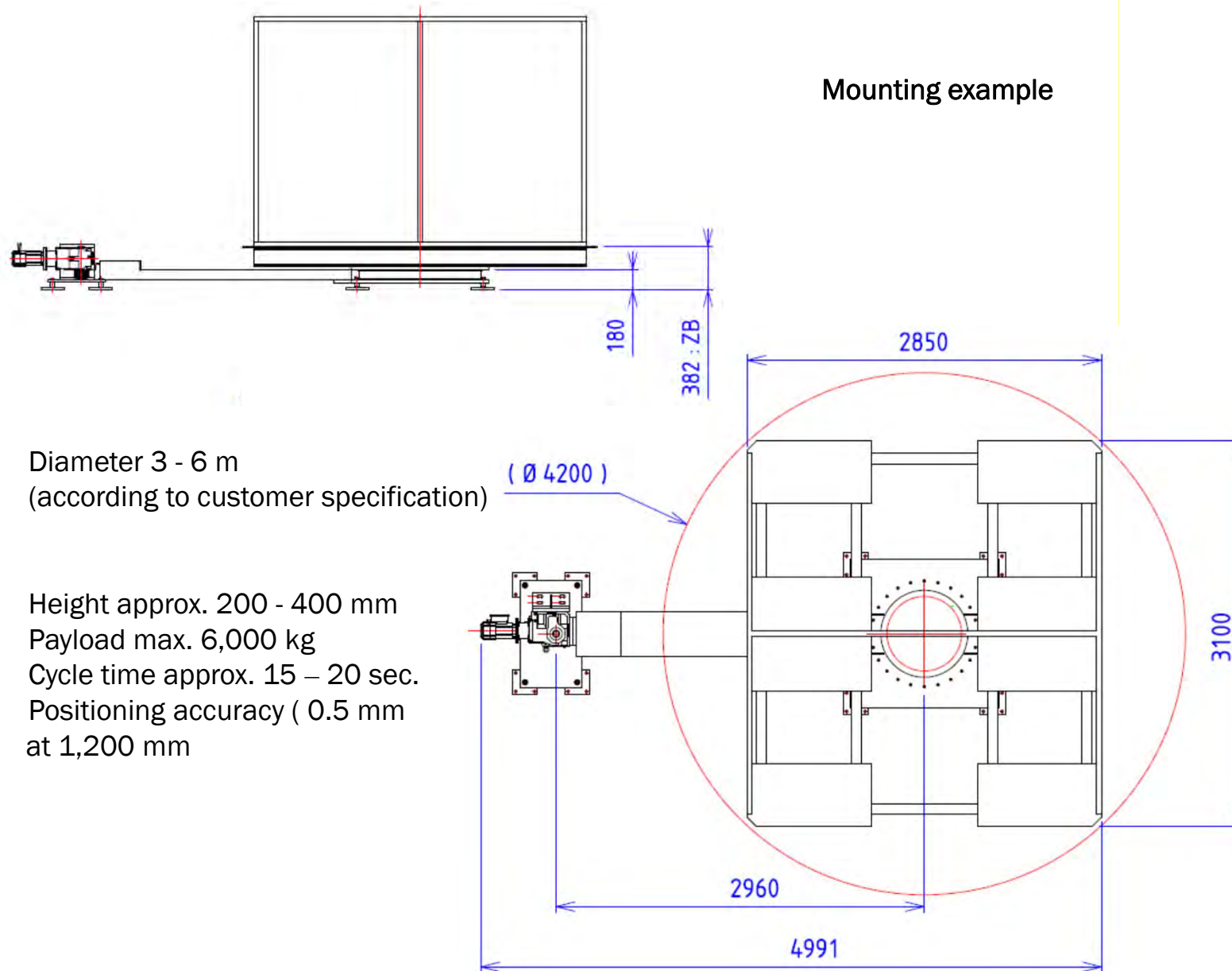


Mounting example



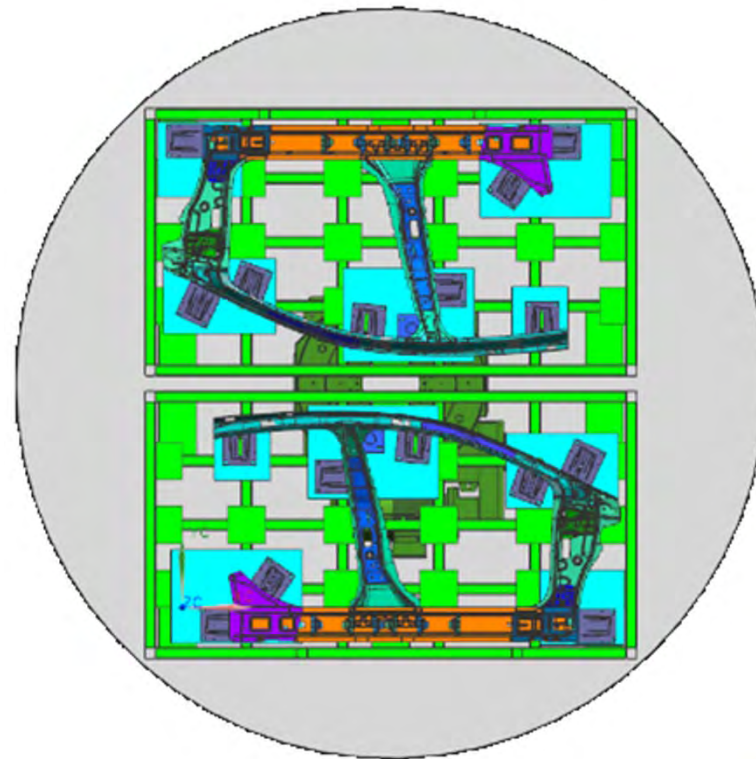
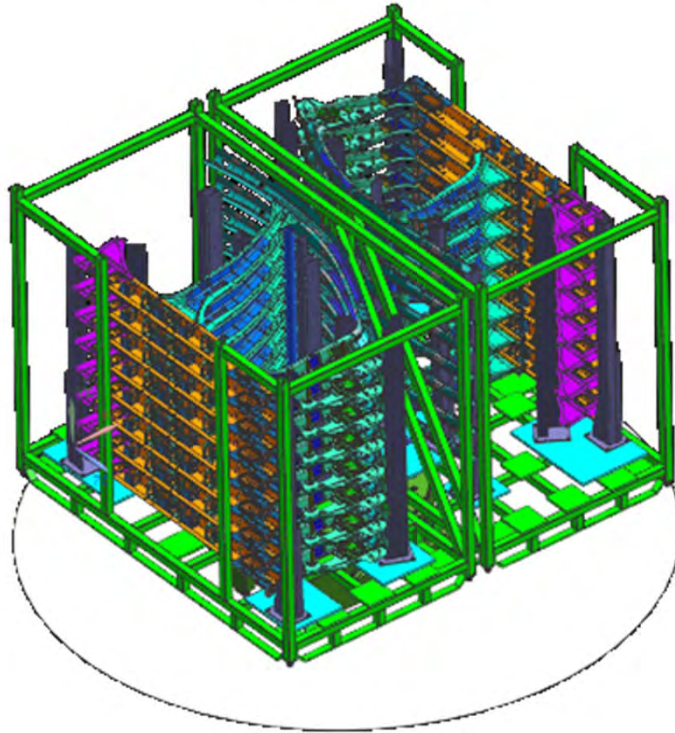
Rotary Changing System Technical Data - Overview

Mounting example

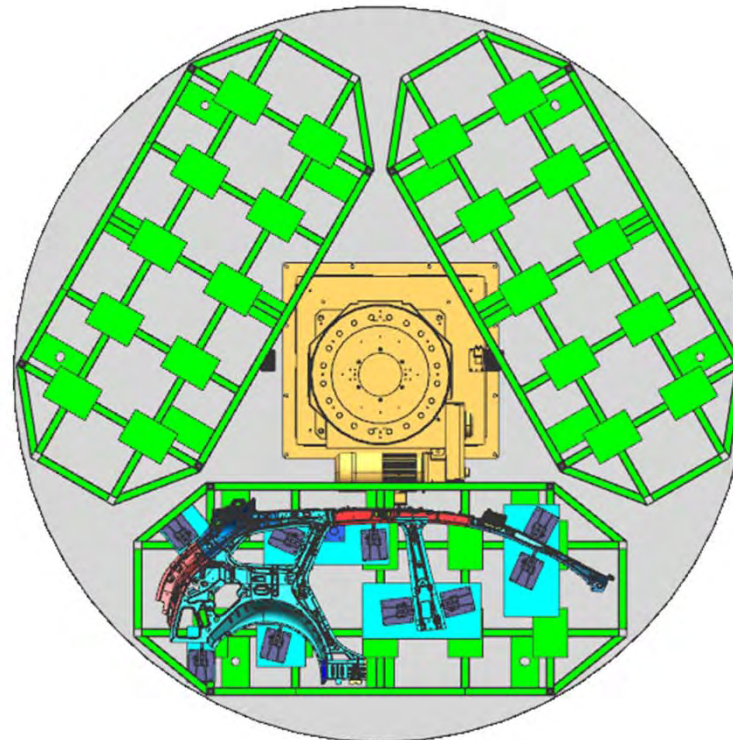
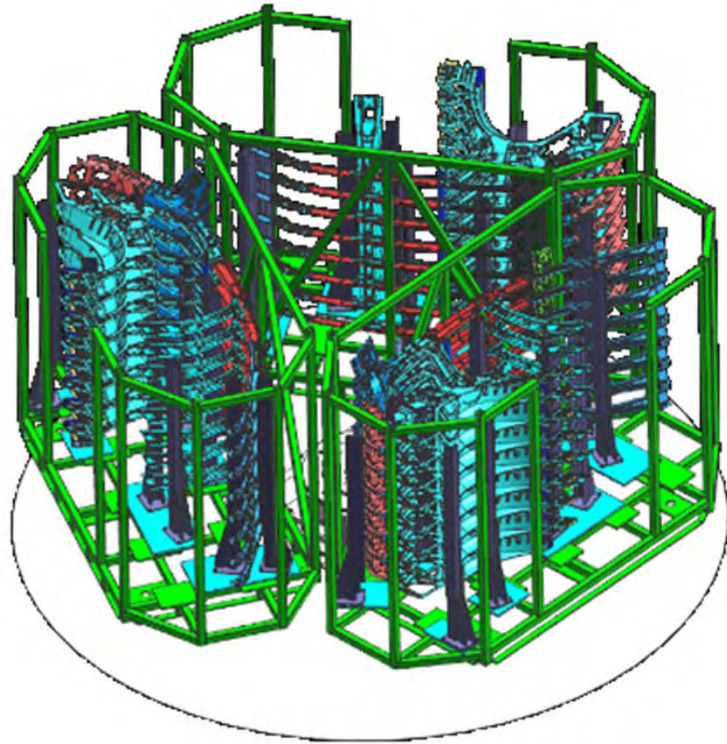


- Diameter 3 - 6 m
(according to customer specification)
- Height approx. 200 - 400 mm
- Payload max. 6,000 kg
- Cycle time approx. 15 – 20 sec.
- Positioning accuracy (0.5 mm
at 1,200 mm

Manufacturing Variations Rotary Changer for 2 Containers / Side Panel



Design Variations Rotary Changer for 3 Containers / Side Panel





Rotary Changer for 2 containers
180° version, reversing operation
Industry: Automotive suppliers



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