

7th AXIS REDEFINED

EXPERT- Linear Cam Drive System

New and patented linear robot traversing concept based
on the EXPERT-TÜNKERS principle

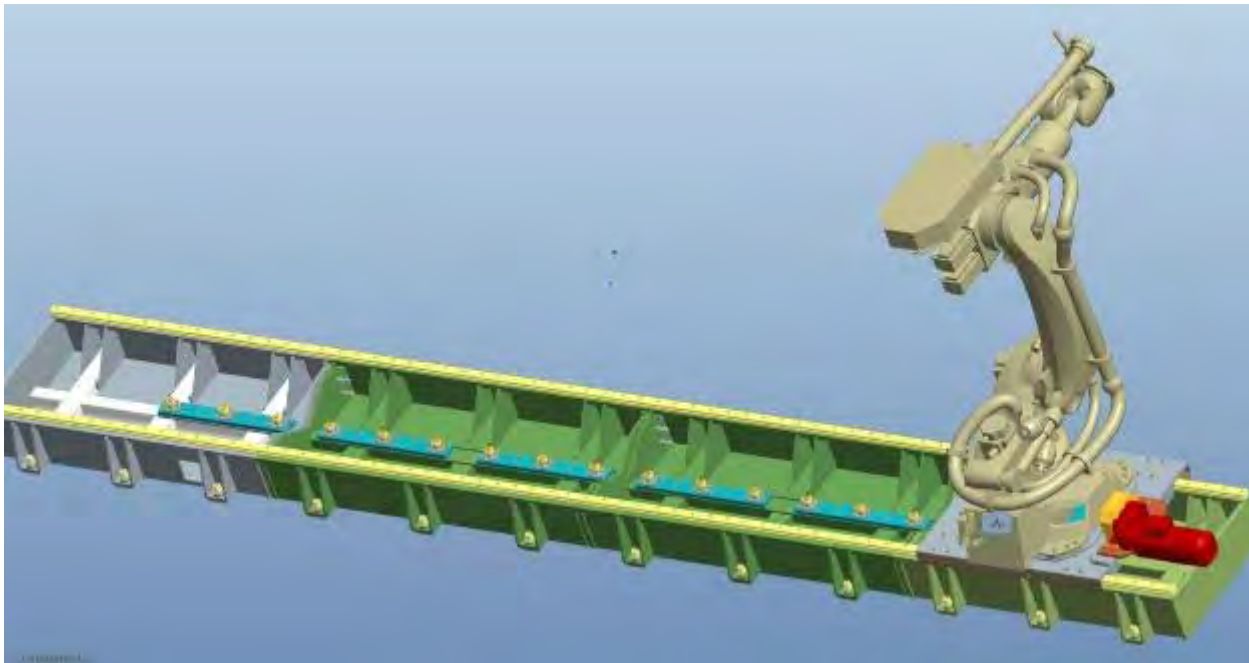
7th Axis Redefined

Key element of the flexible plant

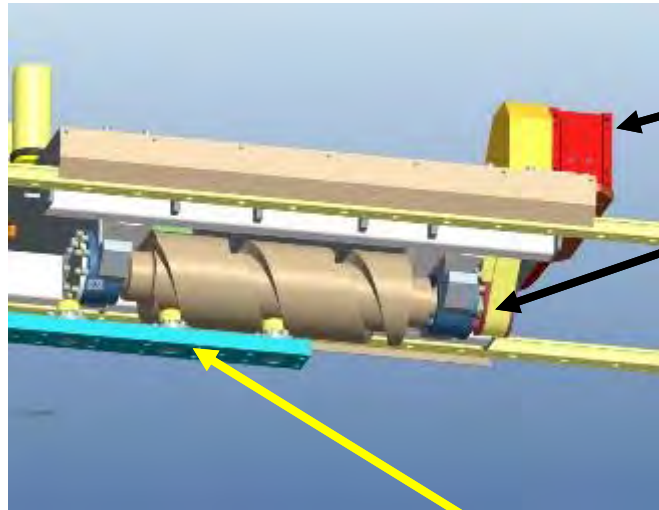
- Linear robot traversing systems have become the new standard in today's body-in-white production lines.
- In the new plants with „multi-model lines“ 7th axis are used as...
 - ...interconnecting conveyor technology
 - ...automated equipping of various jigs and fixtures
 - ...and - *with increasing demand* - as process axis for rail guided production operations
- Especially the use as additional process axis introduces new technical requirements regarding the precision and repeatability of positioning.
- Conventional linear robot traversing systems hardly match those requirements.
- Additional external and inflexible line positioning units are required.

7th Axis Redefined EXPERT- Linear Cam Drive System

- EXPERT developed a new linear motion system based on the special cylindrical cam mechanism already used in rotary tables.
- The EXPERT key principle of fast and precise positioning is now available for linear motion applications.



7th Axis Redefined Design Concept



drive motor

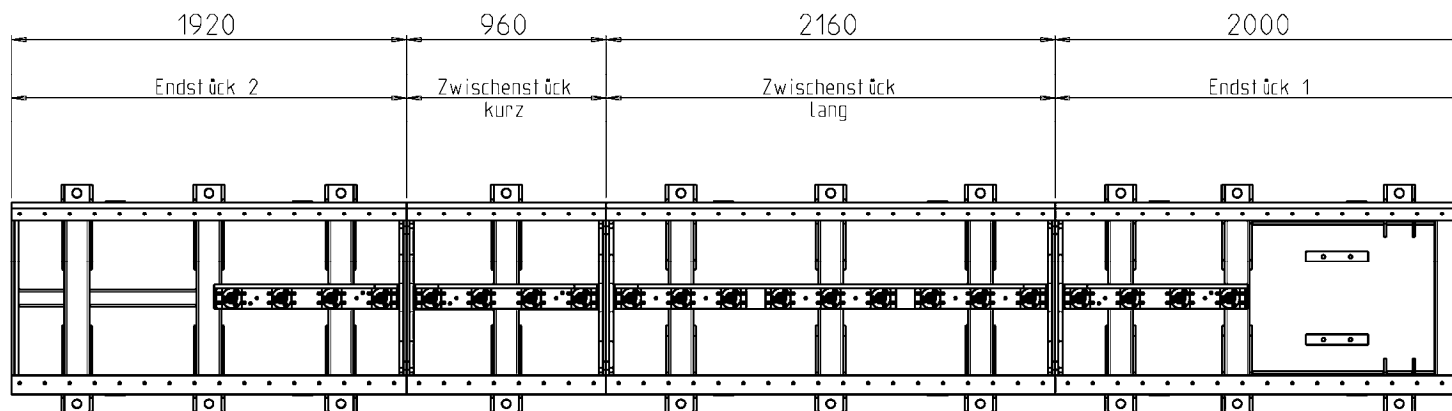
cam drive system
on linear slide

**Fixed cam
followers on
linear guiding rail**



7th Axis Redefined Modular Design

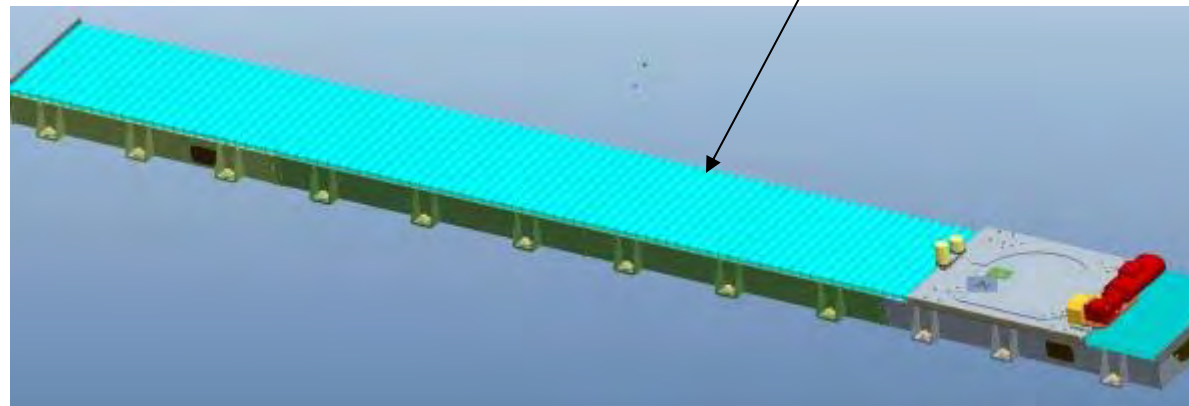
- **Modular design** based on standardized, linear guiding rail modules.
- **Customized traversing rail length** based on 2160mm or 1080 mm modules and fitting screws possible.
- **Easy installation and maintenance** - all modules can be easily added or exchanged on-site.



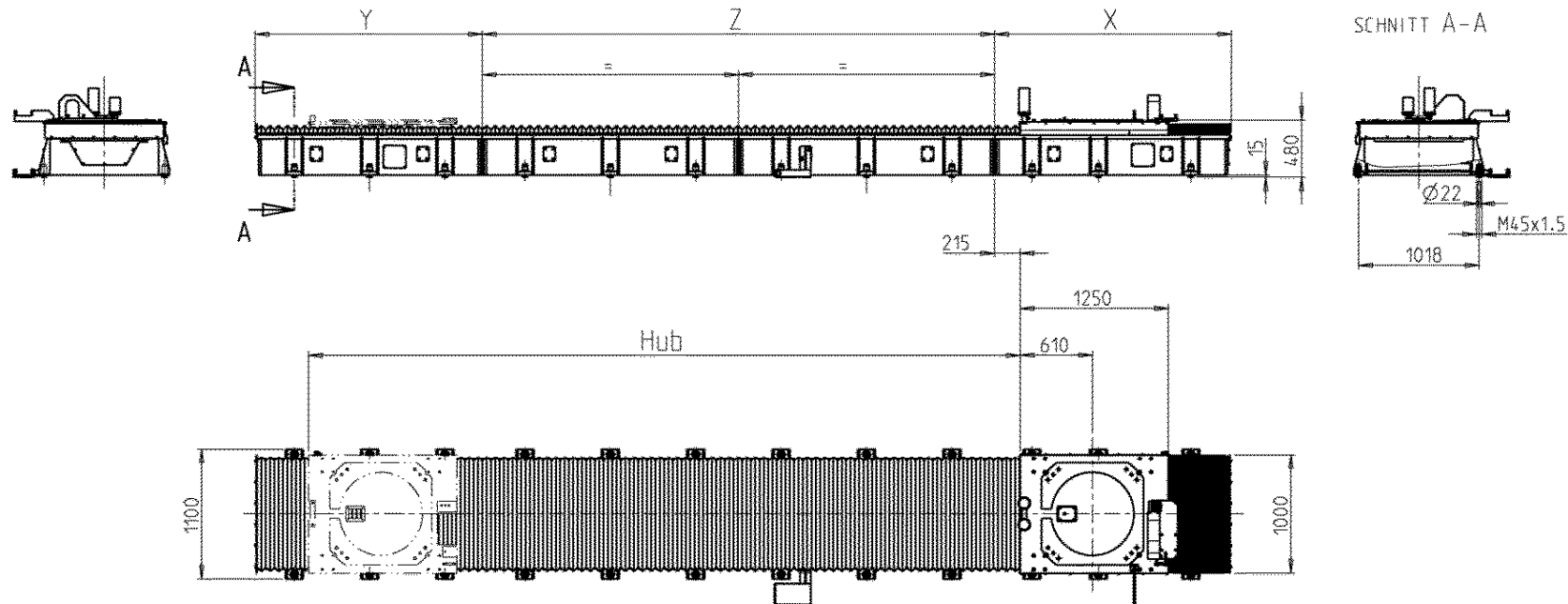
7th Axis Redefined Optional Cover



environmental protection of all
mechanical elements



7th Axis Redefined Technical Datasheet



Hub	Masse	Geschwindigkeit	X	Y	Z
6000	1500kg	1m/sec	2000	1920	2x2160

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