Heavy-Duty Positioner

MIG-Weld-Positioning | Transport / Pick and Place | Tool Change
For any kind of standard application in the field of manipulation the industrial robot is the preferred solution. However, if size and weight of the part to be handled exceeds the standard dimension there is a need for a special system. This is for example the case where the complete carbody has to be manipulated in a MIG-weld application.
EXPERT-TÜNKERS is a specialist in customized heavy-duty-drive components and applications

- **Rotating**
  - Customer Load: max. 100 t
  - Tooling Diameter: max. 10 m
  - Transport Time: 2 – 10 s

- **Lifting**
  - Customer Load: max. 12 t
  - Vertical Stroke: max. 2,8 m
  - Transport Time: 2 – 10 s
EXPERT-TÜNKERS
Range of turn tables

• **Index turn table**
  Camshaft driven turn table with precision bearing and servo-gearmotor
  - *High performance*
  - *Extreme precision*

• **Toothring turn table**
  Cogwheel driven turn table with precision bearing and servo-gearmotor
  - *Flat design*
  - *High performance*

• **Direct drive turn table**
  Servo-gearmotor driven, various motor configurations possible, robust housing and simple design for basic applications
  - *Basic applications*
  - *Standard precision*
EXPERT-TÜNKERS range of lift-units

- Cam-driven slide supported by ball gearing guides
  - Max Lift 2.8 m
  - Max Load 12 t
  - Robust design for full cycle performance
Example: Heavy-duty MIG-weld positioner

Multi-axis positioner for precise positioning of complete truck-cabins

https://www.youtube.com/watch?v=a02J0ypW2RY
Example: Trunnion on turn table station

- Underbody welding with exchangable toolings
- Fast framed-tooling exchange system
- Electrical synchronization of Dual-EDH960 trunnion
- High loads, imbalances and large dimensions of toolings
Example: Trunnion on lift station

Positioner for complete underbody / body

29.03.2017    Heavy-Duty Positioner
Customized application concept using EXPERT standard drives

- Turn
- Turn + Lift
- Turn + Lift + Turn
- Turn + Trunnion
- Turn + Lift + Trunnion
- Single Lift
- Double - Lifter
- Quad - Lifter
- Lift + Turn
- Lift + Turn + Trunnion
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