

MOTOR FEED SYSTEM

SPECIFICATIONS WAPRO MOTOR FEED SYSTEM

Supply	400 VAC / 16 A / 50 Hz
Performance	20 pcs./min.
Autonomy	10 min.
Dimensions LxWxH	1.9 m x 1.4 m x 2.2 m

DESCRIPTION

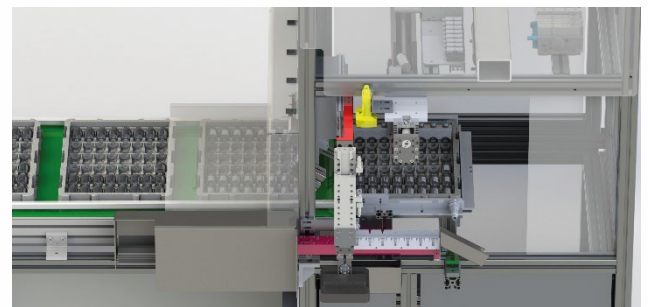
The motor feed system equips a station from the customer with small electric motors. The motors are fed in blisters via a conveyor belt and then placed in an intermediate depot by an 8x vacuum gripper. From there, a mechanical gripper individually equips the customer's station for further processing. The empty blisters are pushed into an ejection drawer. The system is also equipped with a camera that detects incorrect motor types in the intermediate depot so that these are automatically thrown into the reject container.

FIELDS OF APPLICATION

Integration of the system into an assembly line in which electric motors are used for the assembly of servo motors in the automotive industry.



Blister with electric motors



8x gripper and intermediate depot



FEATURES

- Integration in assembly line
- Autonomously running system
- System dimension adapted to assembly line
- PLC control integrated in assembly line
- Precise motion sequences
- Very short cycle time of 3 sec.
- High repeatability
- Integrated Vision System

ELECTRONICS

A Siemens PLC with integrated HMI that is attached to the system as a swivel arm panel is used to control the lever assembly system. The control system was integrated into the assembly line via IOs. The programming of the PLC, the planning of the electronics and pneumatics as well as the operating concept were designed and realised in-house to meet the customer's needs.



Integrated HMI as swivel arm panel

COMPLETE SYSTEM



Motor feed system

