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Machinery and systems engineering

Gearing and manufacturing technology



Gearing and manufacturing technology

MEC 11 Modular conveyor belt technology training system



MEC 11 Modular conveyor belt technology training system

The training system module for modular conveyor belt technology is well suited for covering the training objectives and material found in the learning fields related to the vocational profile for trainees in vocational and advanced technical and commercial training to become an industrial mechanic working in real industrial production. The modular conveyor belt technology training system covers a variety of content in the learning fields of the industrial mechanic and serves to support the imparting of the relevant material.

Conveyor belt module with integrated gear module

- Assembled gear construction kit is flanged-mounted onto a three-phase motor
- Assembly is then combined with conveyor belt and magazine
- Control unit is set up as a VPS or LOGO 8 in switch gear control cabinet
- Pneumatic components are installed in accordance with assignments
- Components (sensors, valves, cylinders) are selected and installed according to assignments
- Understanding and applying fundamentals of electrical engineering (safety extra-low voltage) and process control technology (LOGO programming)
- Own projects can be implemented

The modular conveyor belt technology training system consists of:

- Three-phase motor with transmission gear
- Conveyor belt
- Magazine
- Slider
- Switch gear control cabinet (VPS/PLC)
- Maintenance unit

Supplement to basic set, consisting of:

Supplement to basic set, consisting of:

Pos.

Product name

Bestell-Nr.

Anz.

1

Three-phase motor with terminal connection box

SE2905-4B

1

The Lenze Smart Motor m300 with flange and terminal connection box is used to expand the gear transmission technology module. It can be fitted directly to the gear and switched on using the main switch. The default operating speed is set to 500 rpm.

The motor is pre-wired to a switch box and connected using the three-phase connector plug and the attached Harting connector plug.



2

Conveyor belt

SE2905-4C

1

The conveyor belt module is mounted on a base plate of 1000 x 500 mm. The transmission gear module with a toothed belt disc assembly is connected onto the conveyor belt. The conveyor belt speed is varied by changing the tooth belt pulley.



3

Magazine

SE2905-4D

1

The magazine module is connected to the conveyor belt module and by providing sensors, actuators and pneumatic components completes the overall system.



4

Slider

SE2905-4F

1

The slider module consists of a bracket, actuators, sensors and the pneumatic section. It can be attached to the conveyor belt as desired.



5

Switch gear control cabinet with PLC (LOGO)

SE2905-4G

1

The switch gear control cabinet including the Logo 8 is pre-assembled and pre-wired. The program is uploaded. The switch gear cabinet is mounted on the base plate of the conveyor belt module. Harting connectors are available for connection of the three-phase motor and the operating module.



6

Switch gear control cabinet with VPS (relay)

SE2905-4H

1

The switch gear control cabinet with VPS (relay) is pre-assembled and pre-wired. The cabinet can be mounted onto the base plate of the conveyor belt module. Harting connectors are available for connection of the three-phase motor and the operating module.



7

Maintenance unit

SE2905-4J

1

The maintenance unit with manually operated valve can be mounted onto the conveyor belt module.



Media:



Pos.

Product name

Bestell-Nr.

Anz.

8

Interactive Lab Assistant: Conveyor belt module

SO2801-7C

1

