Product name:	Product code:
Pallet Storage System	EEH0009



Technical specification

program.
- A student file including the practical works.

Operative part

- Transfer by non end conveyor belt.
- Switching of bags by gearwheel-rack.
- Orientation of bags by air jacks.
- Configuration of the pallets by air jacks.
- Evacuation of the layer constituted by air jacks.

Pre actuators

- Contactors.
- Bistable distributors 5/2.
- Monostable distributors 5/2.
- Electro pneumatic Interfaces 3/2.

Actuators

- 2 reduction gears.
- 5 air jacks, double effect.

Sensors

- Photoelectric detectors.
- Inductive detectors.
- ILS detectors on jacks.

Control part

- PLC ScCHNEIDER
- Control desk.

Dimensions

- L x w x h = 1000 x 600 x 510mm,
- Mass: 68 kg.

Necessary energy

- Electricity: 220 V AC mono phase.
- Air compressed 6 bar.

Training features

- The system permits to visualize 5 operative tasks analyzed under a S.A.D.T form.

- The cycle is described by GRAFCET and GEMMA.
- The practical works permit to understand the various sequences of the program.

Teaching objectives

Mechanical engineering

- Transformation of the circular movement in rectilinear motion (motor-reduction gear-pulleys and belts). Automatics.
- The system permits the simulation of the GRAFCET and the exploitation of the GEMMA for the complete system.
- Switching Functional Chain Of The Bag (Functions with the module)

Teaching objectives

- Transformation of the circular movement in rectilinear motion (motor-reduction gear- gearwheel-rack).
- Measure of force, distance, time, displacement, electrical tension and current.
- Energy balance, notion of efficiency.

Automatics

- Connection of the pre actuator to the motor.
- Connection of the pre actuator to the PO.
- Simulation of the GRAFCET cycle.
- Dimensions: L x w x h = 500 x 360 x 230mm.
- Mass: 8 kg.

Configuration And Orientation Functional Subsystem Of The Bag (Functions with the module)

Teaching objectives

- Study of links: pivot, ball an socket joint, linear straight.
- Transformation of the straight linear movement in circular movement.

Automatics

- Connection of the air actuator.
- Connection of the pneumatic pre actuator to its

Control devise (switch button)

- Connection of the pneumatic pre actuator to the electro pneumatic interfaces.
- Connection of the electro pneumatic interfaces to the PLC.
- Simulation of the cycle relative to the studied module.
- Dimensions: L x w x h = 500 x 360 x 230mm

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