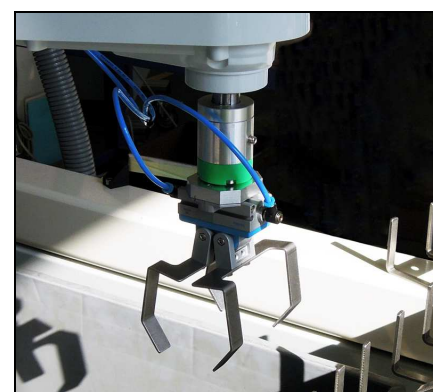


Description

The equipment is used to place rubber extruded parts (sleeves) of different lengths into crates. The parts enter the equipment one by one on a conveyor belt, one part every two seconds. The parts are dropped from the conveyor belt with an ejector into a bin and they are subsequently placed by three pieces into a crate in an oriented direction with a gripper of a robot. The operator places empty crates for parts on the bottom conveyor belt. The conveyor belt with the crates is controlled by the control circuit of a robotic manipulator.

Equipment and options:

- The bottom part of the equipment is formed by a steel frame and by the structure of the conveyor belt for the crates which are set on adjustable feet. The top part is formed by aluminium profiles and PVC covers. The door of the cover is fitted with an electromagnetic safety lock.
- The conveyor belt for the crates is used to move the crates into the working area where the robot places the parts into the crates.
- It is driven with a motor with a worm-gear unit.
- The crate is secured with a backstop which is controlled by a pneumatic cylinder, the presence of the backstop is sensed by an optical sensor.
- Full crates leave the machine on a gravity conveyor by means of multidirectional wheel bars.
- The fill of the gravity conveyor is sensed by a sensor.
- The conveyor and dropping are used to transport the sleeves in connection to a manufacturing line.
- It is driven with a motor with a worm-gear unit.
- The optical sensor secures the position of sleeves and gives a signal to the ejector - the pneumatic cylinder which drops a sleeve from the conveyor into the holder at the correct moment.
- The robotic manipulator - Scara Robot Epson is used to place the parts into crates.
- Using the gripper, it always lifts three parts dropped from the conveyor belt and places them on the correct place in the crate with a correct orientation.
- The direction of placement is given by the recipe depending on the length of the sleeves - longitudinally or transversally and placement to different depth is controlled according to the fill of the crate.
- The control panel with HMI is used to control the state of the equipment.
- The panel includes: a touch screen to display the state of the equipment, a double push-button START/STOP, a reset push-button and the emergency stop push-button.
- The touch screen displays information on the length of sleeves, number of pieces going into a crate, number of pieces in a crate, the total number of pieces, the number of crates and the number of sleeves which have not been placed yet.
- An indicator lamp OPERATION / FAILURE, an acoustic annunciator.



Basic technical data:

Length:	3320 mm.
Width:	1721 mm.
Height:	2000 mm.
Weight:	550 kg.
Power supply:	3 NPE 400/230V AC 50 Hz TN-S