

Product



No. 1 Position

The fastest pneumatic Pick & Place Unit on the market

The cycle time is 30 % faster than of competing products

Product Features

Unique Selling Points:

- ✓ Highly flexible actuation
- ✓ Due to the intelligent valve box - Plug & Play is possible
- ✓ Compact design – easy assembly

Further product features:

- ✓ Rigid design
- ✓ Short cycle times
- ✓ Thanks to the control unit, the gripper can be put into two parking positions
- ✓ Since the horizontal and vertical motions overlap, the unit is running very quiet and fast.
- ✓ Available as of September 2010
- ✓ Price available on request

Market and Competitors

Key Competitors

- ✓ Festo
 - System advantages towards HSP (High-Speed-Picker)
 - Min. cycle time 1000 ms (pneumatically) compared to SCHUNK 630 ms (incl. 2 x 50 ms gripping time)
 - Flexible. Thanks to the control unit, the gripper can be put into two parking positions
 - Intermediate position can be set
 - Intelligent valve box available on option
 - With the intelligent valve boxes, up to two handling components can be actuated
- ✓ e.p.s. automation
 - System advantages towards EDP standard (pneumatically)
 - Min. cycle time 1100 ms compared with SCHUNK 630 ms (incl. 2 x 50 ms gripping time)
 - Robust design
 - For self-programming also available without control block.

Cost Effectiveness/ Customer Benefits

Maximum productivity due to shorter cycle times and maximum robustness.

- ✓ Higher clock rates due to lower cycle times and a considerably higher productivity
- ✓ Very flexible control, since the gripper can be stopped over the picking and placing position, if they should not be ready. With a release signal the process can be continued. Therefore the total process reliability is higher.
- ✓ Horizontal stroke per side can be adjusted by 12 mm and the build-up tolerance can be compensated.
- ✓ The end positions of the vertical stroke can be adjusted by 15 mm per side, independent from each other. Therefore different picking and placing positions can be set.
- ✓ Fully integrated into the GEMOTEC modular system. Therefore highest flexibility and modularity is assured.
- ✓ Option intelligent valve box: assures a higher operating convenience and short times for commissioning.

Questions about the product? Your contact partner of the Product Management Automation is J. Khoury (+49 - 7133 - 103 -2667)

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Technical Data/ Functions

Technical Data

Horizontal stroke: 145 mm .. 210 mm
Vertical stroke: 45 .. 60 mm (20 .. 30 mm linear)
Maximum payload: 1 kg .. 3 kg
Horizontal force: 103 N
Vertical force: 294 N
Two parking positions can be used

Function

The motions of a vertical and a horizontal cylinder overlap and are force-guided via a curved roller. Therefore the cylinder can be switched sooner than in conventional Pick & Place solutions. This allows a picking rate of up to 90 cycles/ min.

Complementary products:

- ✓ Valves
- ✓ SCHUNK grippers which are integrated into the GEMOTEC system
- ✓ GEMOTEC system (gripper, rotary actuators, gripper-swivel modules)

Industries and Fields of Application

The PPU-P particularly convinces in the following industries

- ✓ Electronic assembly
- ✓ Assembly and handling technology
- ✓ Leisure time-/household goods
- ✓ Medical technology

Applications

- ✓ Assembly of electric plug connectors
- ✓ Insertion of circuit boards
- ✓ Assembly of cannulae
- ✓ Assembly of ABS valves
- ✓ Assembly of safety switches

Additional Information

Part of the GEMOTEC modular system

Cross Section



1. Cam roller
2. Junction roller guide
3. Horizontal end position adjustment
4. Vertical end position adjustment
5. Vertical drive cylinder
6. Horizontal drive cylinder

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