

Product



No. 1 Position

The fastest pneumatic Pick&Place unit on the market

Cycle time more than 100% faster than of competitive products

Features

Unique Selling Points:

- ✓ Highly flexible actuation
- ✓ Due to intelligent valve box – plug&play possible
- ✓ Compact design – easy assembly

Further Features:

- ✓ Rigid design
- ✓ Short cycle times
- ✓ With the control unit two waiting positions can be actuated
- ✓ The vertical and the horizontal motions overlap and are positively guided. Quick and smooth running operation possible.
- ✓ Available as of September 2010
- ✓ Price on request

Market and Competitors

Main Competitors

- ✓ Festo
System advantages towards the HSP (high-speed picker)
 - min. cycle time 2000 ms (pneumatic) compared with SCHUNK 1000 ms (incl. 2 x 50 ms gripping time – small size)
 - more flexible – due to the control unit waiting positions can be actuated
 - intermediate position possible
 - Intelligent valve box available on request
 - Due to the intelligent valve box up to two handling components can be actuated
- ✓ e.p.s. automation
System advantages towards the EDP standard (pneumatic)
 - min. cycle time 1800 ms compared with SCHUNK 1000 ms (incl. 2 x 50 ms gripping time – small size)
 - more robust design
 - also available without control block, can be programmed by the user himself

Economy/Customer Benefits

Maximum productivity due to shorter cycle times and maximum robustness.

- ✓ Higher cycle times – therefore lower cycle rates and a considerably higher productivity
- ✓ Highly flexible control – it can be stopped directly over the mounting or support position, if they are not yet ready. Due to the release signal the process is continued => higher process reliability.
- ✓ Horizontal stroke per side 18 mm adjustable. Therefore set-up tolerances can be compensated.
- ✓ Vertical stroke per side 20 mm independently adjustable. Support and deposit positions are feasible.
- ✓ Fully integrated into the GEMOTEC modular system => therefore highest flexibility/modularity.
- ✓ On request with intelligent valve box. Therefore high ease of use, and less time needed for commissioning

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

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Technical Data/Functions

Technical Data

Horizontal stroke: 210 mm
Vertical stroke: 60 mm (30 mm linear)
Max. payload: 3 kg
Horizontal force: 100 N
Vertical force: 246 N
Max. picks per minute (number of cycle) 75 1/min
Two waiting positions can be actuated

Function

The movement of a vertical and horizontal cylinder is positively driven via a cam roller. Therefore the cylinder can be switched sooner as in conventional pick & place solutions. Therefore pick rates of up to 90 picks/min are achieved.

Complementary Products:

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

Industries and Applications

The PPU-P particularly convinces in the following industries:

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

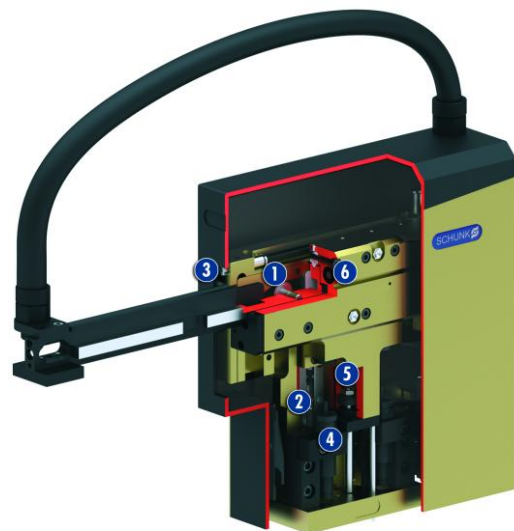
Applications

- ✓ Assembly of electrical plug
- ✓ Production of circuit boards
- ✓ Assembly of cannulas
- ✓ 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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