

**FASTER!**  
The fastest pneumatic Pick & Place Unit on the market



**Highly efficient with sensational pick rates**

**Up to 120 cycles per minute**

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SCHUNK is setting new standards in handling and assembly. The pneumatically driven PPU-P allows pick & place operations at an unprecedented speed.

- ▶ **Force-driven – up to 50 % shorter cycles in comparison to conventional Pick & Place Units**  
Horizontal and vertical motions overlap and are positively driven by a curved roller. Both can be actuated sooner and cycle times can be shortened.
- ▶ **Highly efficient pace-maker**  
With 145 mm horizontal stroke, 45 mm (20 mm linear) vertical stroke and up to 1 kg moving mass, the unit achieves a cycle time of up to 0.63 s – including 2 x 50 ms gripping time!
- ▶ **Adjustment of strokes – faster balance of built-up tolerances**  
The horizontal stroke can be adjusted by up to 12 mm per side. Both vertical end positions can be adjusted by 15 mm, independently from each other.
- ▶ **Compatibility – the SCHUNK Modular System**  
The PPU-P smoothly fits to the modular system for modular assembly automation, and can be easily combined with numerous gripping and rotary modules.



**EXCEPTIONAL PRECISION FROM THE COMPETENCE LEADER.**



- 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

## Fast – faster – PPU-P

With up to 120 cycles per minute, it is the fastest pneumatic Pick & Place Unit on the market. SCHUNK integrated a smart feature for synchronizing the PPU-P with up- or downstream located units or process steps: Thanks to the control unit, the gripper can be placed directly over the individual target position, and is actuated through the standard control interface. This feature can positively influence two of a production line's key performance factors: cycle time and process reliability.

## Fields of application

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



## Valve box increases efficiency of the PPU-P even more

Combined with an intelligent valve box, which is optional, efficiency of the PPU-P increases even more. The valve box minimizes the consumption of compressed air, in turn boost energy consumption, and pulsing.

The optimum circuit of both drive cylinders is already pre-adjusted. Up to four additional valves directly control the pneumatic actuators; for example, a gripper and a rotary actuator. By one single air feed, all the valves are comfortably and economically supplied with air.

## Technical data

| Description                              |      | PPU-P  |
|------------------------------------------|------|--------|
| Horizontal stroke                        | [mm] | 145    |
| Total vertical stroke                    | [mm] | 45     |
| Linear vertical stroke                   | [mm] | 20     |
| Maximum payload                          | [kg] | 1      |
| Horizontal force                         | [N]  | 50     |
| Vertical force                           | [N]  | 103    |
| Repeat accuracy                          | [mm] | ± 0.01 |
| Two stand-by positions can be approached |      |        |