

Product



No. 1 Position

The fastest Pick&Place unit on the market

- ✓ Cycle time 0,92 s at a horizontal stroke of 300 mm, vertical 105 mm, 2 kg additional mass and 2 x 60 ms gripping time
- ✓ No moving motor cable
- ✓ Winner of the Industry Prize 2010 (PPU-E 30)

Features

Unique Selling Points:

- ✓ Fastest Pick&Place unit on the market
- ✓ No moving motor cable - no wear

Further Features:

- ✓ Freely programmable - highest flexibility
- ✓ Compact design – easy assembly
- ✓ Plug&play – easy commissioning
- ✓ Highest repeat accuracy – reliable processes
- ✓ On request with spring load compensation for the Z-axis
- ✓ On request with parking break for Z-axis

Market and Competitors

Main Competitors

- ✓ Weiss Automation type HP
- ✓ Festo AG type HSP
- ✓ KML type LMS- M

System advantages towards

Pneum. P&P (e.g. Festo HSP)	freely programmable much faster more precise
Weiss HP	shorter cycle times no moving motor cable
KML LMS-M	shorter cycle times no moving motor cable - practice-relevant force ranges - all the moving parts are open

Economy/Customer Benefits

Maximum productivity due to shortest cycle times, highest repeat accuracy and maximum robustness.

- ✓ Higher working speeds lead to lower cycle times. More cycles per time unit to more produced products per time unit.
- ✓ In competitor's products the motors are mostly moved, and the motor cables, too. These highly dynamic movements will sooner or later lead to a cable break. The motor of the PPU-E is fixed. No cable movement => no cable break.
- ✓ The sliding blocks of the P&P units ensure that they can be moved within these tight limits. Due to the free programmability of the PPU-E 30, the processes can be flexibly changed.
- ✓ Due to the high repeat accuracy, the joining and placing processes can be carried out more process reliable.

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

Horizontal stroke: 280 mm
Vertical stroke: 150 mm
Max. additional mass: 5 kg
Max. acceleration: 100 m/s²
Max. speed: 4 m/s
Max. drive force, horizontal: 400 N
Nominal force, horizontal: 150 N
Max. drive force, vertical: 1250 N
Nominal force, vertical: 500 N
Repeat accuracy per axis: 0,01 mm

Basic version: without gripper interface for free configuration

- ✓ Version 1: 2-fold air + 2-fold sensor system
- ✓ Version 2: 4-fold air + 4-fold sensor system
- ✓ Version 3: 6-fold air + 6-fold sensor system
- ✓ Version 4: MRDS + 2-fold air + 2-fold sensor system
- ✓ Version 5: Vacuum via venturi nozzle
- ✓ Version 6: Vacuum via external pump
- ✓ Moreover an interface to the LM 200 is available (can be integrated into the modular system)

Industries and Applications

PPU-E – The perfect solution for equipment in the electronic assembly!

The PPU-E particularly convinces in the following industries

- ✓ Electronic assembly
- ✓ Assembly of consumer goods
- ✓ Pharmaceutical industry

Applications

- ✓ Assembly of disposable razors
- ✓ Production of circuit boards
- ✓ Assembly of "Trodat" stamps
- ✓ Assembly of lipsticks
- ✓ Assembly of toothbrushes

Additional Information

Illustration of the various versions



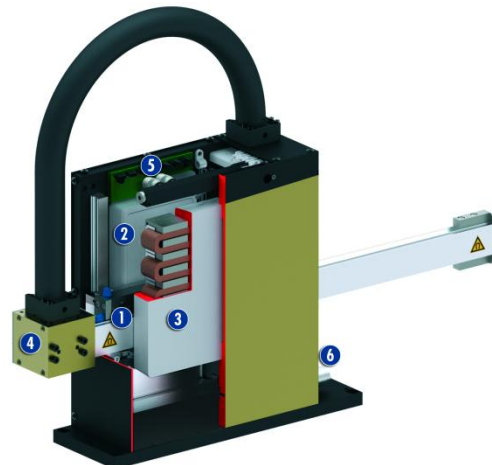
Complementary Products:

- ✓ MV micro valves
- ✓ MRD-S mechatronic rotary unit
- ✓ MPG-plus miniature parallel gripper



Category production and mechanical engineering

Cross Section



1. Rail system
2. Motor for vertical axis
3. Motor for horizontal axis
4. Distributor box
5. Micro valves
6. Motor plug

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