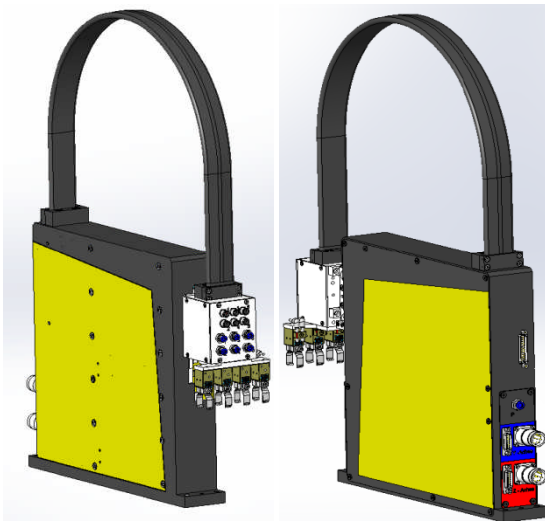


Product



No. 1 Position

The fastest Pick & Place unit on the market

- ✓ Cycle time 0,6 s at a horizontal stroke of 145 mm, vertical 45 mm, 1 kg additional mass and 2 x 60 ms gripping time
- ✓ No moving motor cable

Market and Competitors

Main Competitors

- ✓ Weiss Automation type HP 70
- ✓ Festo AG type HSP
- ✓ KML type LMS- M
- ✓ eps

System advantages towards

Pneum. P&P (e.g. Festo HSP)	freely programmable much faster more precise more compact less maintenance
--	--

Weiss HP 70

The advantage of a direct drive is that there is no transmission required between drive/engine and construction/gripper. Therefore it has higher precision and less maintenance. Weiss has no moving motor cable (like the PPU-E), though Weiss has more connections between drive and gripper due the use of a scissor kinematic (so no direct drive) the disadvantages are maintenance prone and complex programming.

Features

Unique Selling Points:

- ✓ Fastest Pick & Place unit on the market
- ✓ Direct drive without moving motor cable – no wear
- ✓ Integrated valve / easy mounting of e.g. grippers
- ✓ Hybrid cable

Further Features:

- ✓ Minimal interfering contours – max. 60 mm
- ✓ Optional absolute measurement system
- ✓ Freely programmable - highest flexibility
- ✓ Compact design – easy assembly
- ✓ Plug & play – easy commissioning
- ✓ Highest repeat accuracy – reliable processes
- ✓ Spring load compensation for the Z-axis

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 lead to more produced products per time unit.
- ✓ Due the compact size the PPU-E could be placed next to each other, therefore compact system concepts are possible.
- ✓ The compact PPU-E could be also fixed on rotary indexing tables with smaller inner diameter.
- ✓ The extension arm does not extend outside of (as for all other units). Therefore no moving interference contour, leading to increased process reliability in planning and operating.
- ✓ 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.
- ✓ Due to the high repeat accuracy, the joining and placing processes can be carried out more process reliable.

Technical Data/Functions

Horizontal stroke: 150mm
 Vertical stroke: 60 mm
 Max. additional mass: 1,5kg
 Max. drive force, horizontal: 160 N
 Nominal force, horizontal: 80 N
 Max. drive force, vertical: 480 N
 Nominal force, vertical: 160 N
 Repeat accuracy per axis: 0,01 mm

With flat hybridcable / tube (ERD)

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: ERD + 2-fold air + 2-fold sensor system
- ✓ Version 5: Vacuum via venturi nozzle
- ✓ Version 6: Vacuum via external pump

Same expansion stages as PPU-E 30/50 with same screw pattern

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
- ✓ Food industry
- ✓ Assembly of consumer goods
- ✓ Automotive industry (supplier)
- ✓ Pharmaceutical industry

Applications

- ✓ Assembly of disposable razors
- ✓ Production of circuit boards
- ✓ Assembly of lipsticks
- ✓ Assembly of toothbrushes
- ✓ Mounting process for medical technology

Additional Information

Illustration of the various versions



Complementary Products:

Micro valves MV, mechatronic rotary unit ERD, miniature parallel gripper MPG-plus



Cross Section

Will follow