

Product

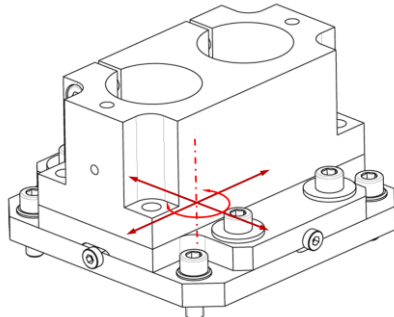


Image: VEH (adjustment unit) with two linear and one rotating compensation direction

New modules for the pillar assembly system for more flexibility and easy adjustment of the handling units

Product Features

Unique Selling Points:

- ✓ Easy adjustment of the pick and place positions used in handling systems

Further Product Features:

- ✓ Ground and hard-chromium plated steel pillars
- ✓ Precise shape and positional tolerances
- ✓ Three pillar diameters Ø 20, 35, and 55 mm
- ✓ Four elements for all pillar diameters
- ✓ Assembly and centering bore holes
- ✓ One module for all directions
- ✓ Two linear compensation directions
- ✓ One rotating compensation direction
- ✓ Can be adjusted simply using one hexagon socket
- ✓ Low-profile design
- ✓ Suitable for single and double bases
- ✓ Further clamping element for the compact structure of complete handling systems
- ✓ Further structure can now be attached directly above the pillars
- ✓ Many mounting options

Market and Competitors

Key Competitors

- ✓ Afag
Two pillar diameters Ø 25 and 45 mm
No adjustment unit
Difference to our modules
 - SCHUNK has three diameters
 - Finer regulation
 - SCHUNK has more elements
 - Brand new: now the adjustment unit is here
- ✓ Norelem
Norelem has two different assembly systems that are not compatible among each other. One system is reasonable and simple, but is not sturdy (small wall thickness in the pillars and elements that are not sturdy) and so not suitable for handling modules. The second system is purchased from Heinz Mayer (<http://www.heinz-mayer.de>) and is therefore sturdy and technically comparable with ours.
 - ➔ Similar price level
 - ➔ Fewer elements than SCHUNK
 - ➔ Fewer pillar diameters

Cost-effectiveness / Customer Benefits

These items relate to the entire system

- ✓ Versatile pillar assembly system for rapid construction of frames, e.g. for handling modules
- ✓ Simple and modular, thus having less design time and effort (not like welded frames)
- ✓ Ground and hard-chromium plated steel pillars
For a high degree of rigidity and low-vibration movements
- ✓ Precise shape and positional tolerances
For high accuracy even for long pillars
- ✓ Several pillar diameters
For minimum interfering contours in the entire system
- ✓ Many clamping elements
Standardized, with a large variety of combinations possible
- ✓ Assembly and centering bore holes
Reproducible, precisely angled assembly of the elements

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

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Technical Data / Functions

Technical Data

VEH adjustment unit

Pillar Ø: 35 mm and 55 mm

Compatible modules: SOE (single base) and SOD (double base)

Compensation directions: 2 x linear, 1 x rotating

APDA mounting plate, double, axial

Pillar Ø: 35 mm and 55 mm

Compatible modules: SLH (pillars)

Mounting surfaces: Five surfaces

Complementary Products:

- ✓ Pillar assembly system
- ✓ Modular assembly automation

Industries and Applications

The pillar assembly system convinces in the following industries

- ✓ Electronics assembly
- ✓ Automated assembly and handling
- ✓ Household goods/ sports equipment
- ✓ Medical/surgical equipment
- ✓ Test and measuring instruments
- ✓ Powertrain / driving elements
- ✓ Metalware

Applications

- ✓ Anywhere where small to medium welded frames are used today
 - ➔ The pillar assembly system is much more versatile than the welded frame, but is not as stable when larger structures are used
- ✓ Everywhere where aluminum sections are used today for constructing handling modules or purely for fastening a diverse range of things such as cameras, cylinders, valves, metal sheets, etc.
 - ➔ The pillar assembly system is more precise when it comes down to shape and positional tolerances and is more precise in the reproducibility, particularly for structures that, for example, have to be removed and reinstalled for the purpose of maintenance.

Additional Information

Function of VEH adjustment unit

The adjustment unit serves to make the mechanical adjustment of complete handling systems easier. Each axis (linear unit) can normally be set in the direction of motion, thus enabling the customer to set the gripping center precisely, for example. In a 2-axis system, the customer can therefore set two axes optimally just by means of the linear modules. However, since three axes are "spatially" present, the third axis cannot be adjusted in this way. Until now

Sectional Diagram



Die VEH kann nun unterhalb des Doppelsockels montiert werden in den Achsversatz ausgleichen