



# New Products Zero-Point-Systems

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**VIELFALT FÜR JEDEN ANWENDUNGSFALL**  
VARIETY FOR EVERY APPLICATION



<https://www.youtube.com/user/AMF509>

## > Clamping module K01 pneumatic

### Order-No. 561989

- |                    |                                  |
|--------------------|----------------------------------|
| > Compact Design:  | Ø 18 mm x 34,3 mm                |
| > External Thread: | M22 x 1                          |
| > Pull-In Force:   | 100 N                            |
| > Holding force:   | 1000 N                           |
| > Weight:          | 40 g                             |
| > Repeatability:   | 0,1 mm                           |
| > Material:        | Stainless steel, vacuum hardened |



### Advantages

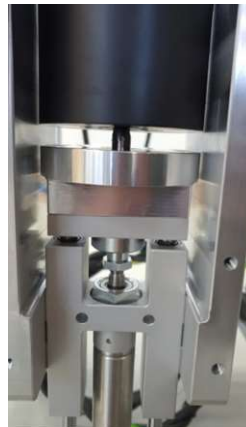
- > Easy handling
- > Insertion tool available
- > No possibility to damage existing surfaces by hardened pull-studs

## > Applications Clamping module K01 pneumatic

### Order-No. 561989 for Non-Cutting processes

- > every industry sector
- > e.g. assembly of electronics (phones, tablets, TVs), medical devices production, food industry, transferautomation
- > Packaging and Filling machines

### Application - Wire Winding Machine



## > Clamping module K01 mechanic

### Order-No. 559090

- |                    |                                  |
|--------------------|----------------------------------|
| > Compact Design:  | Ø 18 mm                          |
| > External Thread: | M16                              |
| > Pull-In force:   | 100 N                            |
| > Holding force:   | 1000 N                           |
| > Weight:          | 26 g                             |
| > Repeatability:   | 0,1 mm                           |
| > Material:        | Stainless steel, vacuum hardened |



### Advantages

- > Easy handling, no operation medium necessary
- > Insertion tool available
- > No possibility of damage on surfaces by hardened pull-studs



## > Applications Clamping module K01, mechanic

### Order-No. 559090 for Non-Cutting Processes

- > E.g. measuring machines, custom machines, assembly of electronics, rubber products for babies

### Application – Production Baby Bottles (1-3) and Centering usage (4)



## > Pin Extension Clamping module K01 mechanic

### Order-No. 561391

- > Diameter:  $\varnothing$  9,5 mm
- > Weight: 26 g
- > Length: 2 cm



### Advantages

- > The original pin can be easily exchanged by the longer pin
- > Pin can be shortened to the desired height

### Application

- > Improvement of the accessibility when using thicker plates



## > K01 sleeves for all K01 modules

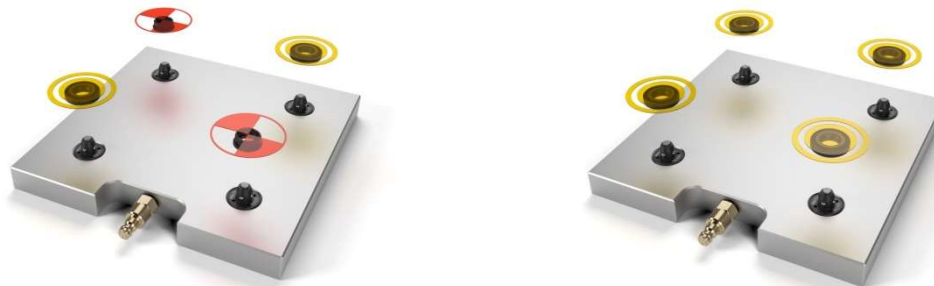
### Zero-point clamping sleeve K01 Order No. 559092

- > Diameter: 18 mm
- > External Thread: M16

### Counterbalance clamping sleeve K01 Order No. 559093

- > Compensation X-Y: 1,0 mm
- > External Thread: M16

### Usage





## > K20.4 with increased pull-in/locking force

### Order No. 561990

- > Diameter: 112 mm
- > Height: 54 mm
- > Opening pressure: min. 60 - max. 70 bar.
- > Pull-In force: 30 kN
- > Holding force: 55 kN
- > Repeatability: 0,005 mm
- > Material: Stainless steel, vacuum hardened

### Application

- > Milling applications with increased pulling forces, e.g.
- > Mold production Automotive sector
- > Manufacturing of Injection molds





## > K5, pneumatic for Automation Solutions

### Order-No. 561992

- > Compact Design: Ø M45 x 1
- > Height: 28,8 mm
- > Opening pressure: 8 bar - 12 bar
- > Retensioning operating pressure: min. 5 bar – max. 6 bar
- > Pull-In force : 1,5 kN
- > Holding force: 13 kN
- > Repeatability: 0,005 mm
- > Material: Stainless steel, vacuum hardened
- > Controls: Centric blow-out, support control, opening and locking control

### Applications

Powder filling machines – exchange of tools e.g. diameter change of the packaging



Please carefully read the instruction manual due to changes in the wiring diagramm (controls/bleeding)



## > Clamping module K5 with Blow-Out function

### Order-No. 563900 (new order number!)

- > Compact Design: Ø M45 x 1
- > Height: 19,8 mm
- > Opening Pressure: min. 8 –max. 12 bar
- > Pull-In force: 1,5 N
- > Holding force: 13 kN
- > Repeatability: 0,005 mm
- > Material: Stainless steel, vacuum hardened

### Advantages

- > New Blow-Out function is optional (can be used without)
- > Low height
- > As hydraulic version available 305953

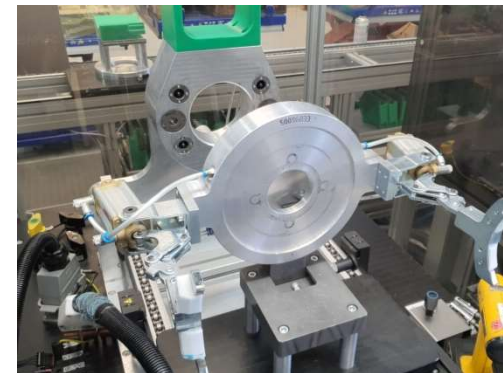
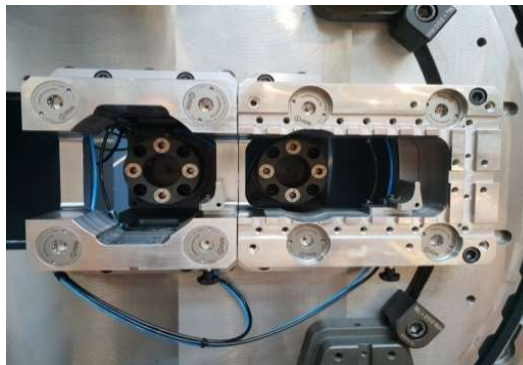


## > Application K05 Clamping Module

**Order-No. 563900**

- > Usage in Dental Milling Machines
- > assembly of electronics or components
- > tool exchange at special machines
- > Print head exchange in 3D-Printers

**Application – Dental Milling Machines (1) , Tool Exchange (2) and Engine Test Bench (3)**



<https://www.youtube.com/watch?v=t7aSgsuWd6M>



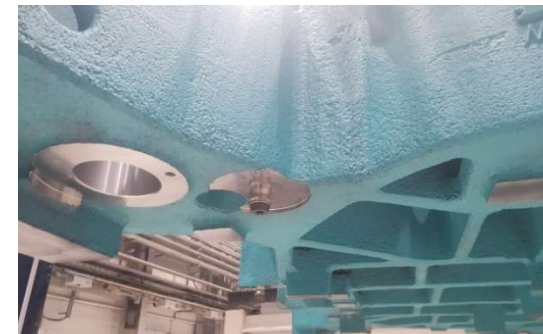
## > Pull-stud K10 without fitting collar

**Order-No. – K10 562753 (M8) and K20 562767 (M12)**

- > For clamping workpieces in a threaded hole without a fitting collar.
- > Usage with AMFs' Modular Clamping System only

### Applications

- > In some cases it is not allowed or possible to cut an additional fitting on a thread
- > This might cause from design restrictions or if contract manufacturers are not allowed to modify the part drawing
- > It allows to use existing threads on parts without modification



## > Pull-stud with reduced fitting collars

### Several Order-No.

- > K10 in M8 and M10
- > K20 in M12 and M16

### Application

- > For clamping in a fitting hole with a reduced diameter e.g. before heat treatment of a workpiece. After the heat treatment, the fitting hole can be drilled and the standard pull-stud can be used.





## > Protection Pull-Stud upon request

### Several Order-No.

- > Protection Pull-Studs in 4 sizes
- > K5: #563614 / 6370ZN-5-021
- > K10: #563615 / 6370ZN-10-050
- > K20: #562852 / 6370ZN-20-094
- > K40: #563616 / 6370ZN-40-028





## > New Engagement Screw K20 / M10

No. 6370ZNS-001

**Engagement screw**

Strength class 12.9.



**NEW!**

Order no.	Size	Holding force [kN]	L	L1	M	SW	TORX	Weight [g]
306092	K 5	8,5	25	3,4	M6	5	-	10
554926	K 5	13,0	29	3,4	M8	-	T30	13
303578	K10	17,0	37	6,0	M8	6	-	25
554927	K10	25,0	41	6,0	M10	-	T45	32
559120	K20	25,0	54	9,0	M10	8	-	63
303222	K20	43,0	54	9,0	M12	8	-	70
554928	K20	55,0	63	9,5	M16	-	T60	125
303230	K40	75,0	69	10,0	M16	14	-	130
554929	K40	105,0	73	11,0	M18	-	T70	195

No. 6370ZNSF

**Engagement screw**

Strength class 12.9.

Suitable for pull-stud without fitting collar 6370ZNF.

**NEW!**

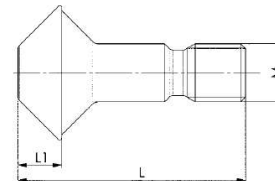


CAD

Order no.	Size	Holding force [kN]	M	SW	L	L1
562861	K10	17,0	M8	6	34	6
562862	K20	43,0	M12	8	47	9

**On request:**

Engagement screws in various lengths and materials (e.g. STAINLESS STEEL).





## > Alignment tool for K02 for timing pull-stud

### Order-No. 427286

- > Compact Design: Ø22x38,5 mm
- > Holding forces: 6000 N
- > Opening pressure: from 6bar
- > Material: Stainless steel



### Advantages

- > Easy Handling
- > Easy pneumatic connection by M-Thread connection from the bottom
- > Alignment tools for the module and timing pull-stud available



Order No. 561992



## > Modular Clamping System





## > Adapter for Modular Clamping System K10

**Order-No. 561993**

- > Adapter for installation of the mechanical clamping module 6212M size K20 (559094) to an intermediate or base element size K10.
- > The adapter can be aligned axially on the intermediate or base element using the centring sleeve and then bolted on

### Advantages

- > Simple, quick and flexible clamping of complex workpiece contours on the machine table.
- > Particularly suitable for levelling workpieces or clamping fixtures at the necessary machining heights in the machine tool and clamping these securely



A horizontal banner at the top of the slide features a grayscale image of mechanical gears and technical drawings on the left, transitioning into a solid orange bar on the right.

## > Herzlichen Dank

**Danke** für Ihre Aufmerksamkeit.

*Tack.* *Merci beaucoup.* Thank you. ¡muchas gracias!

*Grazie.* *Dziękujemy.* *Спасибо.* *Tak.* *Bedankt.*