



**TANDEM® KSP3-S**

**Pneumatic powerhouses with  
compensating function**

# Compact, pneumatically actuated powerhouses with compensation function to reduce vibrations and deformations on long workpieces

TANDEM KSP3-S from SCHUNK stand for high-performance, pneumatically actuated clamping force blocks with compensation function. The vises have a "floating" piston that enables jaw compensation of  $\pm 0.5$  mm. This makes them ideal for clamping long workpieces in particular, as well as minimizing vibrations and deformations. All KSP3-S vises are 100% compatible with the KSP3 vises so that they can be exchanged 1:1.



## Advantages – Your benefits

- + Compensation function**  
Enables axial jaw compensation and thus compensating clamping for long workpieces
- + Precision wedge hook clamping force block for top-quality demands**  
Allows excellent machining results
- + Square design with ideal external contour**  
Ideal for 6-sided machining in two set-ups with the best lateral accessibility
- + High degree of efficiency of the wedge hook system**  
Process-reliable clamping due to high clamping forces
- + Base jaws with tongue and groove and fine serration as a dual interface as standard**  
High flexibility of system jaws
- + Optimal jaw support due to the use of a very long base jaw guidance**  
Allows high clamping forces at a long service life
- + All sides of the functional parts are hardened and ground**  
Ensures a long service life

## Function KSP3-S

The force is transferred from the axially adjustable pneumatic cylinder to the base jaws with the help of the diagonal pull on the wedge hook, and generates a synchronous jaw movement towards the clamping center. A "floating" piston enables axial jaw compensation of  $\pm 0.5$  mm.

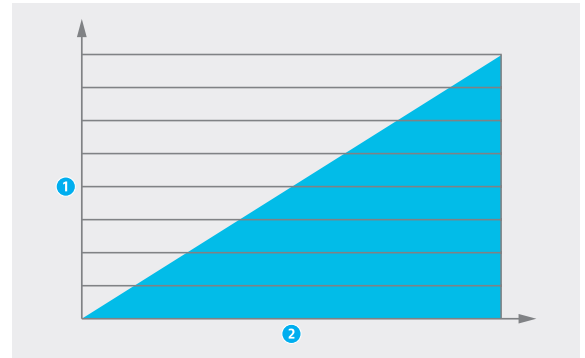


- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>1 Wedge hook drive</b><br/>Offers constantly high clamping forces in operation</p> <p><b>2 Floating piston</b><br/>Enables axial jaw compensation of <math>\pm 0.5</math> mm</p> <p><b>3 Hardened and extremely rigid base body</b><br/>Therefore a longer service life at highest precision. Even with maximum clamping force</p> <p><b>4 Innovative greasing system</b><br/>For enhanced efficiency and constant clamping force</p> <p><b>5 Long jaw guidance</b><br/>Offers optimal support for O.D.- and I.D. clamping</p> <p><b>6 Low height design</b><br/>Expands your machine's workspace</p> | <p><b>7 Improved design which is insensitive to dirt</b><br/>By means of targeted sealing</p> <p><b>8 Standard jaw interface</b><br/>For the use of standard jaws from SCHUNK</p> <p><b>9 Ideal outside contour</b><br/>For best accessibility and optimal chip fall</p> <p><b>10 Control of the clamping force block</b><br/>From the side or bottom as desired</p> <p><b>11 Greasing channels in the cover plate</b><br/>Enable bottom greasing via a central greasing system</p> <p><b>12 Fitting screws available as an option</b><br/>For positioning the clamping device with high repetition precision</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Clamping force depending on the actuation pressure

The clamping force increases in direct proportion to the increase in actuation pressure. The minimum air pressure should not drop below 2 bar during this process.

- ① Clamping force
- ② Actuation pressure



## Coolant drainage holes

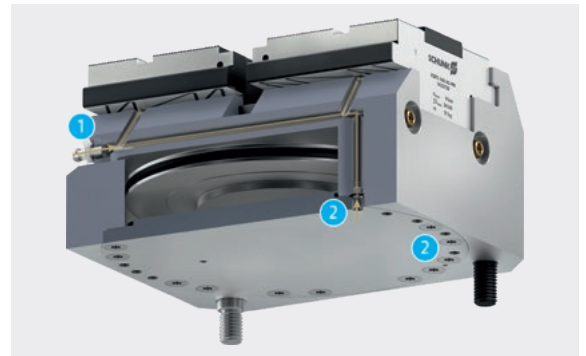
All clamping force blocks are equipped with two coolant drainage holes. That allows coolant that penetrates to be drained to the outside. The drainage holes are sealed with a sintered filter to prevent entry of chips.



## Greasing system

All clamping force blocks are equipped with a dual greasing system.

- ① **Manual lubrication**  
A grease gun is used to supply all friction surfaces (jaw guidance, piston guidance, and diagonal pull) evenly.
- ② **Central lubrication**  
The connections on the base side are used to supply all friction surfaces (jaw guidance, piston guidance and diagonal pull) evenly with grease. Several vises can be greased at the same time by means of the base plate.



## Console plates

Console plates offer several options for mounting the clamping force blocks on the machine table. To minimize the set-up time the clamping force blocks can be placed on the VERO-S NSE3 quick-change pallet modules with anti-rotation protection using the existing VERO-S interface. Alternatively, they can be mounted on the machine table or dividing heads using cylindrical clamps or T-nuts.

- ① Mounting via quick-change pallet system
- ② Mounting via cylindrical clamps
- ③ Mounting via T-nuts

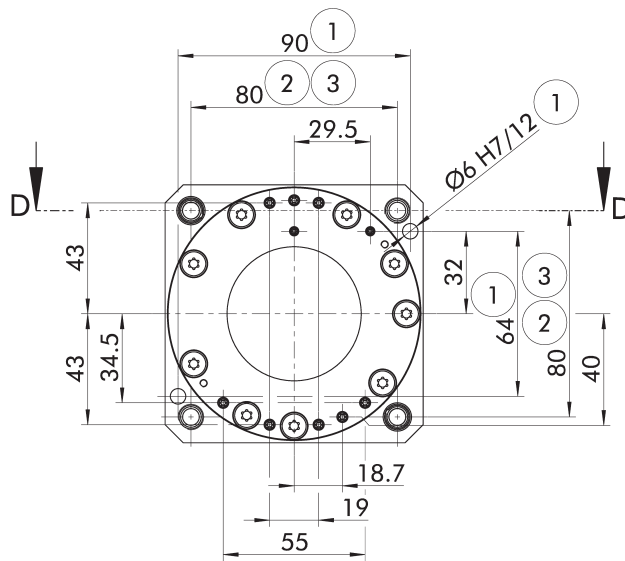


## Application example

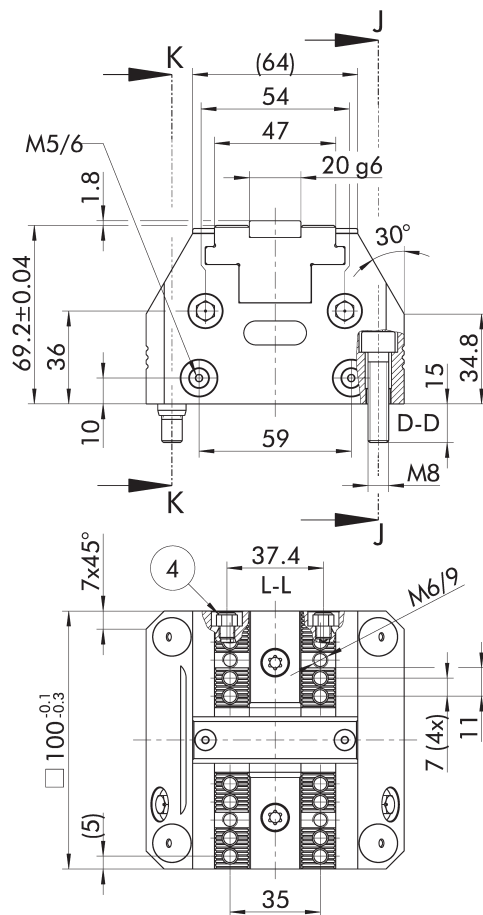
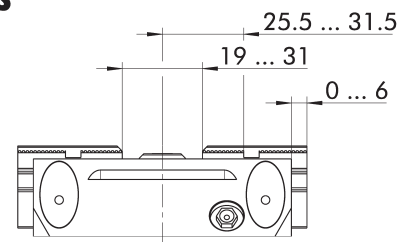


When clamping long workpieces, vibration and deformation of the workpiece may occur. To effectively counteract these vibrations and deformations, "compensating" clamping force blocks can be used between the outer clamping points. Due to the compensation, the system jaws contact the workpiece and hold it in position.

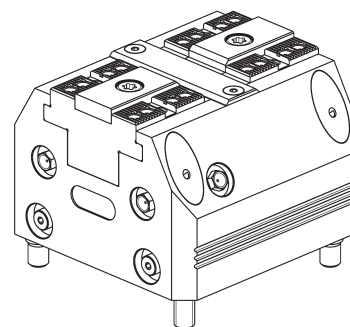
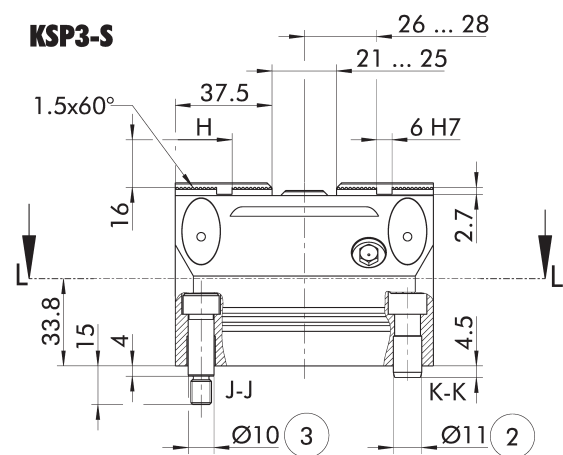
- 1 Clamping force block in standard version**  
Clamping force blocks of standard design are used for the two outer clamping points.
- 2 Clamping force block in compensating design**  
Clamping vises with compensation function are used for all internal clamping points to avoid deformation of the workpiece.
- 3 Maximum length compensation**  
The value is  $\pm 0.5$  mm for all clamping force blocks.



**KSP3-LH-S**



**KSP3-S**



Subject to technical changes.

- ① Z-variant  $\pm 0.01$  mm to clamping center
- ② Clamping sleeve  $\pm 0.04$  mm to clamping center

- ③ Fitting screw  $\pm 0.02$  mm to clamping center
- ④ Connection M5 for air purge

## Technical data

| Description     | ID                      | Jig-produced positioning bores | Compensation function | Clamping force at max. operating pressure<br>[kN] | Jaw compensation<br>[mm] | Operating pressure<br>[bar] |
|-----------------|-------------------------|--------------------------------|-----------------------|---------------------------------------------------|--------------------------|-----------------------------|
| KSP3-S 100      | <a href="#">1607221</a> |                                | ●                     | 18                                                | ±0.5                     | 2 - 9                       |
| KSP3-S 100-Z    | <a href="#">1607234</a> | ●                              | ●                     | 18                                                | ±0.5                     | 2 - 9                       |
| KSP3-LH-S 100   | <a href="#">1607222</a> |                                | ●                     | 8                                                 | ±0.5                     | 2 - 9                       |
| KSP3-LH-S 100-Z | <a href="#">1607235</a> | ●                              | ●                     | 8                                                 | ±0.5                     | 2 - 9                       |

## Scope of delivery

Clamping force block, mounting screws for system jaws and clamping force block, cover plugs, fitting screws, clamping sleeves, operating manual

## Notes

### Definition clamping force

The clamping force is the arithmetic sum of the individual forces occurring at the jaws at distance "H" at maximum pressure.

### Jaw compensation

Enables compensating clamping of long workpieces and a reduction in vibration and deformation.

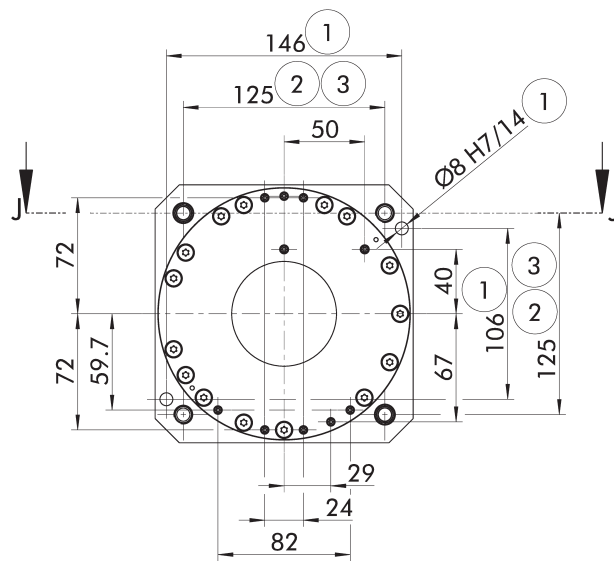
### General note

The specifications exclusively refer to the grease LP 410 used by SCHUNK.

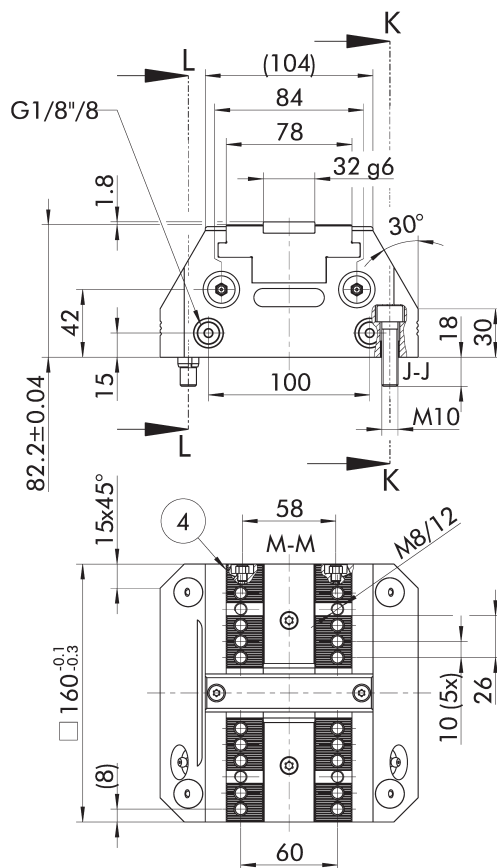
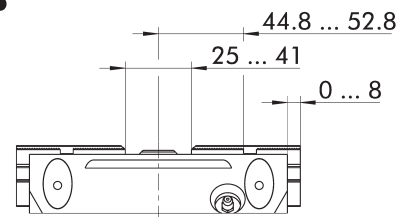
## Further technical data

| Description       | Stroke version    | Stroke per jaw<br>[mm] | Max. jaw height<br>[mm] | Repeat accuracy<br>[mm] | Air consumption per double stroke at 6 bar<br>[cm³] | Closing/opening time<br>[s] | Weight<br>[kg] |
|-------------------|-------------------|------------------------|-------------------------|-------------------------|-----------------------------------------------------|-----------------------------|----------------|
| KSP3-S 100 ...    | Standard stroke   | 2                      | 60                      | 0.01                    | 1000                                                | 0.2                         | 3.7            |
| KSP3-LH-S 100 ... | Long stroke (-LH) | 6                      | 150                     | 0.01                    | 1000                                                | 0.2                         | 4              |

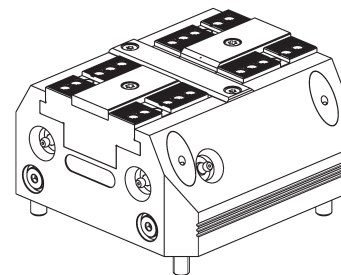
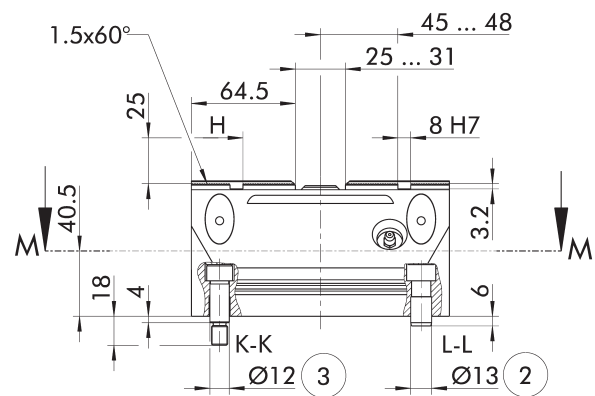




**KSP3-LH-S**



**KSP3-S**



Subject to technical changes.

- ① Z-variant  $\pm 0.01$  mm to clamping center
- ② Clamping sleeve  $\pm 0.04$  mm to clamping center

- ③ Fitting screw  $\pm 0.02$  mm to clamping center
- ④ Connection M5 for air purge



## Technical data

| Description     | ID                      | Jig-produced positioning bores | Compensation function | Clamping force at max. operating pressure<br>[kN] | Jaw compensation<br>[mm] | Operating pressure<br>[bar] |
|-----------------|-------------------------|--------------------------------|-----------------------|---------------------------------------------------|--------------------------|-----------------------------|
| KSP3-S 160      | <a href="#">1607225</a> |                                | ●                     | 45                                                | ±0.5                     | 2 - 9                       |
| KSP3-S 160-Z    | <a href="#">1607239</a> | ●                              | ●                     | 45                                                | ±0.5                     | 2 - 9                       |
| KSP3-LH-S 160   | <a href="#">1607226</a> |                                | ●                     | 20                                                | ±0.5                     | 2 - 9                       |
| KSP3-LH-S 160-Z | <a href="#">1607250</a> | ●                              | ●                     | 20                                                | ±0.5                     | 2 - 9                       |

## Scope of delivery

Clamping force block, mounting screws for system jaws and clamping force block, cover plugs, fitting screws, clamping sleeves, operating manual

## Notes

### Definition clamping force

The clamping force is the arithmetic sum of the individual forces occurring at the jaws at distance "H" at maximum pressure.

### Jaw compensation

Enables compensating clamping of long workpieces and a reduction in vibration and deformation.

### General note

The specifications exclusively refer to the grease LP 410 used by SCHUNK.

## Further technical data

| Description       | Stroke version    | Stroke per jaw<br>[mm] | Max. jaw height<br>[mm] | Repeat accuracy<br>[mm] | Air consumption per double stroke at 6 bar<br>[cm³] | Closing/opening time<br>[s] | Weight<br>[kg] |
|-------------------|-------------------|------------------------|-------------------------|-------------------------|-----------------------------------------------------|-----------------------------|----------------|
| KSP3-S 160 ...    | Standard stroke   | 3                      | 60                      | 0.01                    | 3400                                                | 0.4                         | 11             |
| KSP3-LH-S 160 ... | Long stroke (-LH) | 8                      | 200                     | 0.01                    | 3400                                                | 0.4                         | 11             |

## System jaws

### Supporting jaw TBA-D

Reversible supporting jaws with fine serration for mounting standard top jaws from SCHUNK.



| Suitable for | Description | Interface | ID                      |
|--------------|-------------|-----------|-------------------------|
| KSP3-S 100   | TBA-D 100   | W-65-1    | <a href="#">0402294</a> |
| KSP3-S 160   | TBA-D 160   | W-100-1   | <a href="#">0402295</a> |

### 3-axis jaw grip S3A-G5

With grip step, 5 mm.  
For embossed clamping of unhardened materials up to 22 HRC.



| Suitable for | Description | ID                      |
|--------------|-------------|-------------------------|
| KSP3-S 100   | S3A-G5 100  | <a href="#">1471166</a> |
| KSP3-S 160   | S3A-G5 160  | <a href="#">1471168</a> |

### 5-axis jaw grip S5A-G5

With grip step, 5 mm.  
For embossed clamping of unhardened materials up to 22 HRC.



| Suitable for | Description | ID                      |
|--------------|-------------|-------------------------|
| KSP3-S 100   | S5A-G5 100  | <a href="#">1471190</a> |
| KSP3-S 160   | S5A-G5 160  | <a href="#">1471198</a> |

### Top jaw blank STR

Top jaw blanks with fine serration for customer rework.



| Suitable for | Description | ID                      |
|--------------|-------------|-------------------------|
| KSP3-S 100   | STR 100     | <a href="#">0402101</a> |
| KSP3-S 160   | STR 160     | <a href="#">0402102</a> |

### Top jaw blank STR-H

High top jaw blanks with fine serration for customer rework.



| Suitable for | Description | ID                      |
|--------------|-------------|-------------------------|
| KSP3-S 100   | STR-H 100   | <a href="#">0402201</a> |
| KSP3-S 160   | STR-H 160   | <a href="#">0402202</a> |

### Top jaw blank KTR

Top jaw blanks with tongue and groove and preassembled mounting holes for customer rework.



| Suitable for | Description | ID                      |
|--------------|-------------|-------------------------|
| KSP3-S 100   | KTR 100     | <a href="#">0402121</a> |
| KSP3-S 160   | KTR 160     | <a href="#">0402122</a> |

### Top jaw blank KTR-H

High top jaw blanks with tongue and groove and preassembled mounting holes for customer rework.



| Suitable for | Description | ID                      |
|--------------|-------------|-------------------------|
| KSP3-S 100   | KTR-H 100   | <a href="#">0402221</a> |
| KSP3-S 160   | KTR-H 160   | <a href="#">0402222</a> |

### Top jaw blank STR-S

Top jaw blanks with fine serration and preassembled mounting groove for customer rework.



| Suitable for | Description | ID                      |
|--------------|-------------|-------------------------|
| KSP3-S 100   | STR-S 100   | <a href="#">0402111</a> |
| KSP3-S 160   | STR-S 160   | <a href="#">0402112</a> |

### Swivel plate

Used – in combination with adapter plates and 6-way reversal jaws – to clamp bulky workpieces.



| Suitable for | Description | Interface | ID                      |
|--------------|-------------|-----------|-------------------------|
| KSP3-S 160   | KTP 160     | W-38      | <a href="#">1580334</a> |

### Adapter plate

Used – in combination with swivel plates and 6-way reversal jaws – to clamp bulky workpieces.

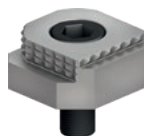


| Suitable for | Description | Interface | ID                      |
|--------------|-------------|-----------|-------------------------|
| KSP3-S 160   | KTA 160     | W-38      | <a href="#">1580335</a> |

## Top jaws

**6-way reversible jaws grip**

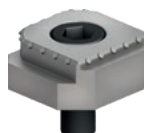
With five grip steps as well as a coated clamping face.



| Description     | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|-----------------|-------------|--------------|-------------|-----------|-------------------------|
| GBG-6W 38-38-18 | 38.5        | 18           | 38.2        | W-38      | <a href="#">0430803</a> |

**6-way reversible jaw carbide grip**

With five carbide grip steps as well as a smooth clamping face.



| Description      | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|------------------|-------------|--------------|-------------|-----------|-------------------------|
| GBCG-6W 38-38-18 | 38.5        | 18           | 38.2        | W-38      | <a href="#">1395550</a> |

**Jaw profiled**

For increasing the friction between jaw and workpiece without clamping impressions.



| Description   | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|---------------|-------------|--------------|-------------|-----------|-------------------------|
| GBD 100-35-10 | 100         | 35           | 10          | W-100-1   | <a href="#">1373346</a> |

**Soft jaw**

Hardenable jaws for rework at the customer site, e.g. for incorporating contours or special shapes.



| Description   | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|---------------|-------------|--------------|-------------|-----------|-------------------------|
| GBW 100-35-16 | 100         | 35           | 16          | W-100-1   | <a href="#">1373287</a> |

**Stepped jaw**

With ground step, 8 mm.



| Description     | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|-----------------|-------------|--------------|-------------|-----------|-------------------------|
| GBS 100-35-10-5 | 100         | 35           | 10          | W-100-1   | <a href="#">1373325</a> |

**Stepped jaw**

With coated step, 5 mm.



| Description       | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|-------------------|-------------|--------------|-------------|-----------|-------------------------|
| GBS-W 100-35-10-5 | 100         | 35           | 10          | W-100-1   | <a href="#">1395510</a> |

**Stepped jaw**

With grip step, 3 mm.  
For embossed clamping of unhardened materials up to 22 HRC.



| Description      | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|------------------|-------------|--------------|-------------|-----------|-------------------------|
| GBS-G3 100-35-10 | 100         | 35           | 10          | W-100-1   | <a href="#">1373330</a> |

**Stepped jaw**

With grip step, 5 mm.  
For embossed clamping of unhardened materials up to 22 HRC.



| Description      | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|------------------|-------------|--------------|-------------|-----------|-------------------------|
| GBS-G5 65-22-8   | 65          | 22           | 8           | W-65-1    | <a href="#">1465122</a> |
| GBS-G5 100-35-10 | 100         | 35           | 10          | W-100-1   | <a href="#">1373333</a> |

**Stepped jaw**

With grip step, 8 mm.  
For embossed clamping of unhardened materials up to 22 HRC.



| Description      | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|------------------|-------------|--------------|-------------|-----------|-------------------------|
| GBS-G8 100-35-10 | 100         | 35           | 10          | W-100-1   | <a href="#">1373337</a> |

**Stepped jaw**

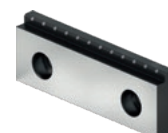
With carbide grip step, 3 mm.  
For embossed clamping of hardened materials up to 58 HRC.



| Description       | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|-------------------|-------------|--------------|-------------|-----------|-------------------------|
| GBS-CG3 100-35-10 | 100         | 35           | 10          | W-100-1   | <a href="#">1428440</a> |

**Stepped jaw**

With carbide grip step, 5 mm.  
For embossed clamping of hardened materials up to 58 HRC.



| Description       | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|-------------------|-------------|--------------|-------------|-----------|-------------------------|
| GBS-CG5 100-35-12 | 100         | 35           | 12          | W-100-1   | <a href="#">1428441</a> |

**Stepped jaw with T-slot**

With grip step, 3 mm.  
T-slot for mounting the positioning strip.



| Description          | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|----------------------|-------------|--------------|-------------|-----------|-------------------------|
| GBS-G3-T 100-35-17.5 | 100         | 35           | 17.5        | W-100-1   | <a href="#">0430242</a> |

**Stepped jaw with T-slot**

With grip step, 5 mm.

T-slot for mounting the positioning strip.



| Description          | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|----------------------|-------------|--------------|-------------|-----------|-------------------------|
| GBS-65-T 100-35-17.5 | 100         | 35           | 17.5        | W-100-1   | <a href="#">0430241</a> |

**Stepped jaw with T-slot**

With grip step, 8 mm.

T-slot for mounting the positioning strip.



| Description          | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|----------------------|-------------|--------------|-------------|-----------|-------------------------|
| GBS-G8-T 100-35-17.5 | 100         | 35           | 17.5        | W-100-1   | <a href="#">0430240</a> |

**Positioning bar**

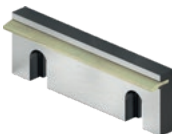
To suit all stepped jaws with T-slot.



| Description     | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|-----------------|-------------|--------------|-------------|-----------|-------------------------|
| GPL 100-32-13.5 | 100         | 32           | 13.5        | W-100-1   | <a href="#">0430246</a> |

**Spring leaf pull-down jaw**

For an active jaw pull-down function with a light clamping impression on the workpiece for more precise machining results.



| Description   | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|---------------|-------------|--------------|-------------|-----------|-------------------------|
| GFA 100-35-10 | 100         | 35           | 10          | W-100-1   | <a href="#">1373301</a> |

**Spring plate pull-down jaw**

For an active jaw pull-down function without clamping impressions on the workpiece for more precise machining results.



| Description   | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|---------------|-------------|--------------|-------------|-----------|-------------------------|
| GFB 100-34-10 | 100         | 34           | 10          | W-100-1   | <a href="#">0430191</a> |

**Precision pull-down jaw**

For an active jaw pull-down function without clamping impressions on the workpiece for more precise machining results.

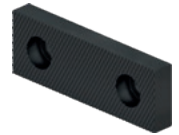


| Description     | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|-----------------|-------------|--------------|-------------|-----------|-------------------------|
| GBN-P 100-35-25 | 100         | 35           | 25          | W-100-1   | <a href="#">0430146</a> |

**Serrated jaw**

For increasing the friction between jaw and workpiece with minimal clamping impressions.

Height = 22 mm.



| Description   | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|---------------|-------------|--------------|-------------|-----------|-------------------------|
| GBC 65-22-8   | 64          | 22           | 8           | W-65-1    | <a href="#">0490566</a> |
| GBC 100-35-11 | 100         | 35           | 11          | W-100-1   | <a href="#">1373267</a> |

**Ground jaw**

With a completely ground clamping face.

Height = 22 mm.



| Description   | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|---------------|-------------|--------------|-------------|-----------|-------------------------|
| GBP 65-22-7.7 | 64          | 22           | 7.7         | W-65-1    | <a href="#">0490566</a> |
| GBP 100-35-10 | 100         | 35           | 10          | W-100-1   | <a href="#">1373272</a> |

**Soft jaw**

Blanks for rework by the customer

Height = 22 mm.



| Description  | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|--------------|-------------|--------------|-------------|-----------|-------------------------|
| GBW 65-22-20 | 65          | 22           | 20          | W-65-1    | <a href="#">0490567</a> |

**Grip jaw**

For embossed clamping of unhardened materials up to 22 HRC.

Height = 22 mm.



| Description   | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|---------------|-------------|--------------|-------------|-----------|-------------------------|
| GBG 100-35-10 | 100         | 35           | 10          | W-100-1   | <a href="#">1373282</a> |
| GBG 65-22-7.8 | 64          | 22           | 7.8         | W-65-1    | <a href="#">0430804</a> |

**Reversible grip jaw**

Reversible jaw with grip step 3 mm in vertical direction and 5 mm in horizontal direction.



| Description   | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|---------------|-------------|--------------|-------------|-----------|-------------------------|
| GBG-W 65-22-8 | 65          | 22           | 8           | W-65-1    | <a href="#">0430729</a> |

**Prism jaw, ground**

For precise clamping of round workpieces.

Height = 22 mm.



| Description     | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|-----------------|-------------|--------------|-------------|-----------|-------------------------|
| GVA 100-35-15.5 | 100         | 35           | 15.5        | W-100-1   | <a href="#">1373342</a> |
| GVA 65-22-15    | 65          | 22           | 15          | W-65-1    | <a href="#">0430707</a> |

### Universal stepped jaw

Versatile stepped jaw with ground step.



| Description   | Width<br>mm | Height<br>mm | Depth<br>mm | Interface | ID                      |
|---------------|-------------|--------------|-------------|-----------|-------------------------|
| GPE 65-22-8-3 | 65          | 22           | 8           | W-65-1    | <a href="#">0430704</a> |

## Base plates

### Consol plate

For direct mounting on VERO-S or T-slot tables.



| Suitable for | Description | ID                      |
|--------------|-------------|-------------------------|
| KSP3-S 100   | KSL3 100-1  | <a href="#">1466119</a> |
| KSP3-S 160   | KSL3 160-1  | <a href="#">1466121</a> |

### Single base plate

For direct mounting and actuation of one TANDEM clamping force block both with and without VERO-S.



| Suitable for | Description          | ID                      |
|--------------|----------------------|-------------------------|
| KSP3-S 100   |                      |                         |
| KSP3-S 160   | ABP-h plus 100/160-1 | <a href="#">1323973</a> |

### Double base plate

For direct mounting and actuation of up to two TANDEM clamping force blocks with and also without VERO-S.



| Suitable for | Description          | ID                      |
|--------------|----------------------|-------------------------|
| KSP3-S 100   |                      |                         |
| KSP3-S 160   | ABP-h plus 100/160-2 | <a href="#">1323974</a> |

### Triple base plate

For direct mounting and actuation of up to three TANDEM clamping force blocks with and also without VERO-S.



| Suitable for | Description          | ID                      |
|--------------|----------------------|-------------------------|
| KSP3-S 100   |                      |                         |
| KSP3-S 160   | ABP-h plus 100/160-3 | <a href="#">1323975</a> |

## Accessories

### Clamping force tester

For measuring the jaw clamping force of stationary clamping devices.



| Suitable for | Description | ID                      |
|--------------|-------------|-------------------------|
| KSP3-S 100   |             |                         |
| KSP3-S 160   | IFT SST Set | <a href="#">1475766</a> |

### Clamping pins SPx

Clamping pin for positive connection with NSE3 clamping modules.



| Suitable for         | Description | ID                      |
|----------------------|-------------|-------------------------|
| ABP-h plus 100/160-1 |             |                         |
| ABP-h plus 100/160-2 |             |                         |
| ABP-h plus 100/160-3 |             |                         |
| KSL3 100-1           |             |                         |
| KSL3 160-1           | SPA 40      | <a href="#">0471151</a> |
| ABP-h plus 100/160-2 |             |                         |
| ABP-h plus 100/160-3 | SPB 40      | <a href="#">0471152</a> |
| ABP-h plus 100/160-3 | SPC 40      | <a href="#">0471153</a> |

### Indexing pin

Used as an anti-rotation protection for VERO-S modules with anti-rotation protection V1.



| Suitable for         | Description | ID                      |
|----------------------|-------------|-------------------------|
| ABP-h plus 100/160-1 |             |                         |
| KSL3 100-1           |             |                         |
| KSL3 160-1           | IXB V1      | <a href="#">0471980</a> |

### Cylindrical clamp blanks

For individual fastening of the clamping stations or console plates on all common machine table slot spacings



| Suitable for | Description | ID                      |
|--------------|-------------|-------------------------|
| KSL3 100-1   |             |                         |
| KSL3 160-1   | BRR 50      | <a href="#">0470020</a> |

### Plate spring for pull-down jaw

Spare part for spring plate pull-down jaw



| Suitable for  | Description | ID                      |
|---------------|-------------|-------------------------|
| GFA 100-35-10 | GFB 100     | <a href="#">0430054</a> |

## Grease

### LP 410

High-performance grease as standard for regularly lubricating SCHUNK TANDEM clamping force blocks.



| Bundle    | Description      | ID                      |
|-----------|------------------|-------------------------|
| Cartridge | LP 410 cartridge | <a href="#">0184213</a> |

### LINOMAX plus

High-performance grease as standard for regularly lubricating SCHUNK manual and power lathe chucks and steady rests.



| Bundle    | Description            | ID                      |
|-----------|------------------------|-------------------------|
| Cartridge | LINOMAX plus cartridge | <a href="#">1342585</a> |

### Grease gun

Auxiliary tools for lubrication of all kinds of SCHUNK products. The grease gun can be used for cartridges of all types of SCHUNK grease.



| Bundle    | Description | ID                      |
|-----------|-------------|-------------------------|
| Cartridge | Grease gun  | <a href="#">9900543</a> |







**H.-D. SCHUNK GmbH & Co.  
Spanntechnik KG**

Lothringer Str. 23  
D-88512 Mengen  
Tel. +49-7572-7614-1300  
Fax +49-7572-7614-1039  
CMM@de.schunk.com  
schunk.com