



# ***TWIN VISES***

from SMW-AUTOBLOK

## **FOR AUTOMATION**

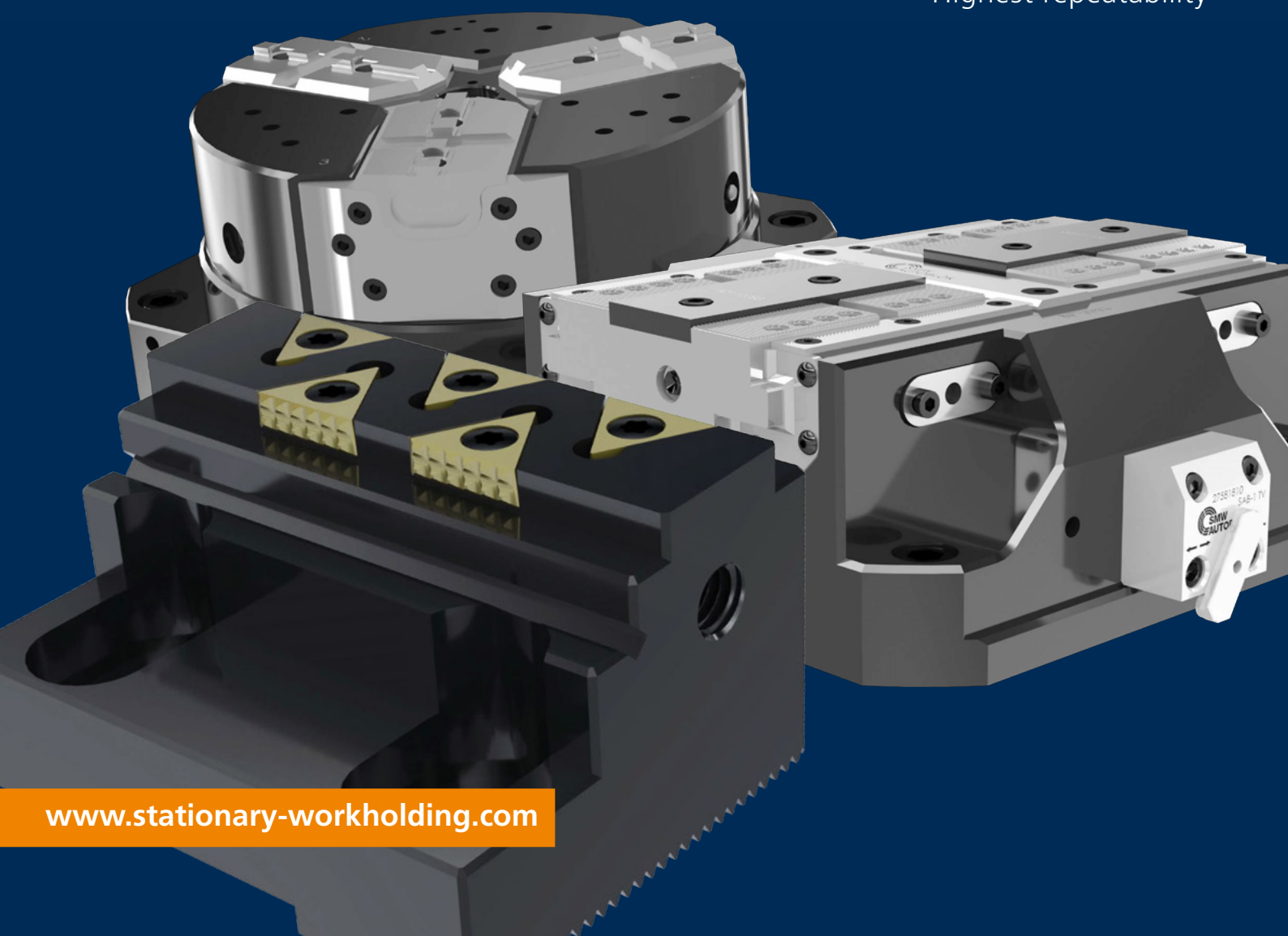
All products suitable for Industry 4.0 applications

## **SINTERGRIP JAWS**

Lowest clamping depth without pre-marking

## **HIGH PRECISE**

Highest repeatability



## Twin Vises from SMW-AUTOBLOK



# Twin Vises



proofline® series  
fully sealed – low maintenance

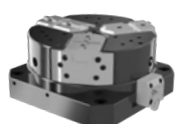
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## STV-2

**Spring and air operated vise 125, 180, 225**

- Protected against swarf and chips
- Springs to clamp, pneumatic to open
- Turbo function to increase the clamping forces
- Pneumatic jaw stroke control valve
- Normal stroke: STV-2N / Long stroke: STV-2L
- Air purge
- Air sensing



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## STV-3

**Spring and air operated vise 125, 180, 225**

- Protected against swarf and chips
- 3 jaws
- Springs to clamp, pneumatic to open
- Turbo function to increase the clamping forces
- Normal stroke: STV-3N
- Pneumatic jaw stroke control valve
- Air purge



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## TVP

**Pneumatic vise 100, 160, 200, 250, 315**

- Normal stroke: TVP-N
- Long stroke: TVP-L
- Fixed jaw: TVP-F
- Air purge



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## TVH

**Hydraulic vise 100, 160, 200**

- Normal stroke: TVH-N
- Long stroke: TVH-L
- Air purge



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## PTP

**Protected pneumatic vise 100, 125, 160, 200**

- Protected against swarf and chips
- Pneumatic version
- Normal stroke: PTP-N / Long stroke: PTP-L
- Fixed jaw: PTP-F
- Pneumatic jaw stroke control valve
- Air purge
- Air sensing



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## PTH

**Protected hydraulic vise 100, 125, 160, 200**

- Protected against swarf and chips
- Hydraulic version
- Normal stroke: PTH-N / Long stroke: PTH-L
- Pneumatic jaw stroke control valve
- Air purge
- Air sensing



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## SL-P

**Protected pneumatic vise 100, 160, 200**

- Protected against swarf and chips
- Pneumatic version
- Normal stroke
- Air purge
- Air sensing



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## Jaws

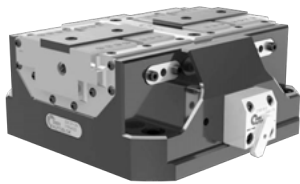
**Accessories**

- Soft blank top jaw
- Tongue & Groove or fine serration 1.5 mm x 60°
- Jaws for SinterGrip

# STV

## Spring and Air operated

STV-2



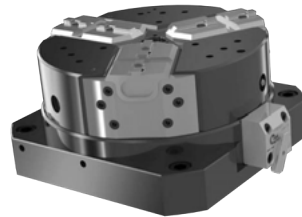
### Function:

- Springs to clamp
- Turbo function to increase the clamping forces
- Pneumatic to open



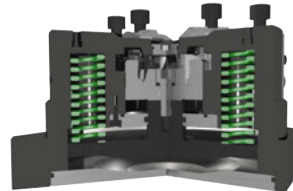
**proofline® series**  
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STV-3



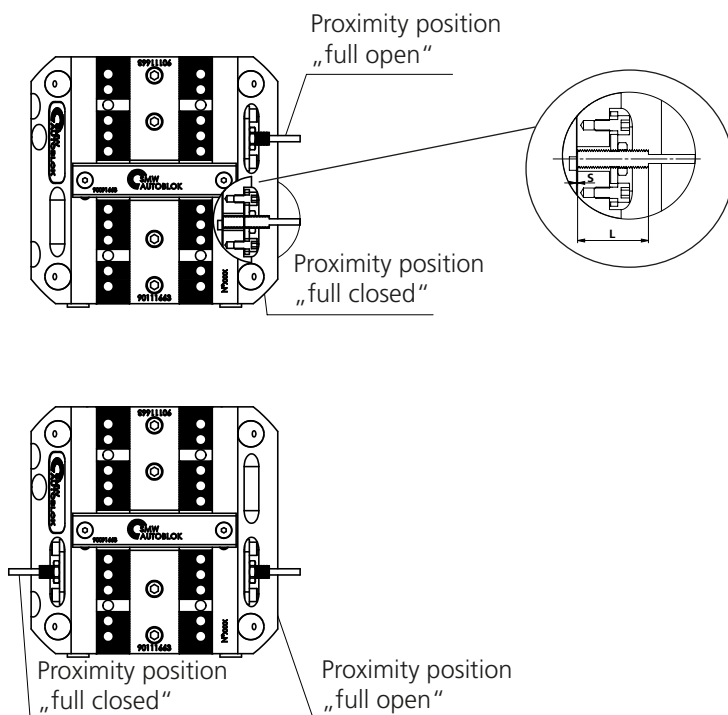
### Function:

- Springs to clamp
- Turbo function to increase the clamping forces
- Pneumatic to open



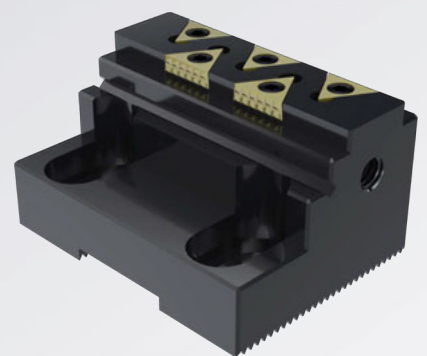
**proofline® series**  
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## Proximities stroke control



## SinterGrip

For lowest clamping depth of workpieces and without pre-marking



# ed Power Vises

## Convincing advantages

- Protected against contamination of swarf and chips, fully sealed (proofline)
- Compact design
- Highest repeatability
- Highest rigidity
- Housing and functional parts hardened for high precision and long life
- Air purge
- Master jaws with both tongue & groove and fine serration 1.5 mm x 60°
- OD clamping only
- Air sensing (only STV-2)
- Self-centering vise without top jaws
- All bolts and centering bushings included



Industry 4.0  
Product

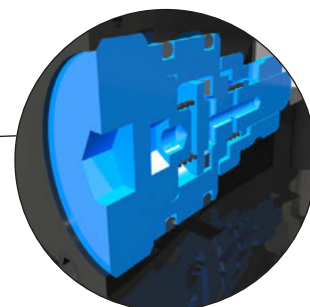


## Safety valve SAB-1

- Safety valve SAB-1 to maintain air pressure during pallet transportation / storage and machining without feed
- Easy and smart opening of the vise by air gun
- Turbo function to increase the clamping forces

## Pneumatic jaw stroke control valve (optional)

- For the monitoring of the jaw position
- Direct connection through the plate or the tombstone
- No cables needed
- Ideal for automation





# STV-2N

NORMAL STROKE

# STV-2L

LONG STROKE

## Spring and air operated twin vise

- Protected
- Springs clamping
- Pneumatic jaw stroke control valve

### Application/customer benefits

- Protected against contamination of swarf and chips, fully sealed (proofline)
- Compact design
- Highest repeatability
- Highest rigidity

### Technical features

- Spring to clamp, pneumatic open
- **proofline®** = fully sealed - low maintenance **1**
- Increase of the clamping force via Turbo function
- Housing and functional parts hardened for high precision and long life
- Air purge
- Master jaws with both Tongue & Groove and fine serration 1.5 mm x 60°
- OD clamping only
- Safety valve SAB-1 **2** to maintain air pressure during pallet transportation / storage and machining without feed (optional)
- Pneumatic jaw stroke control valve (optional)
- Stroke control via proximity switches (optional)
- Air sensing

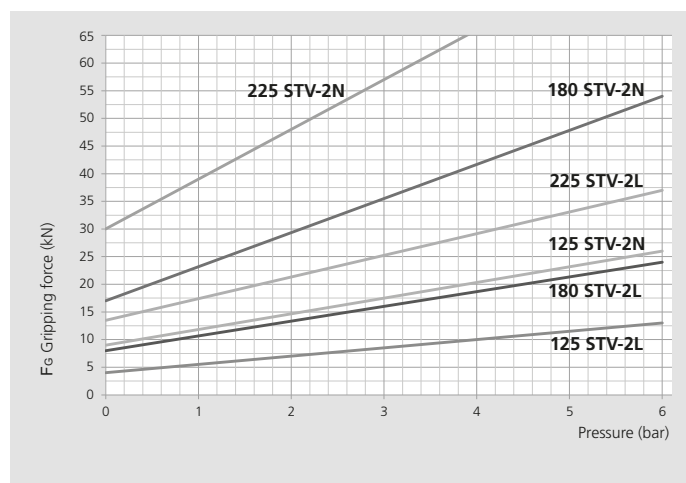
### Standard equipment

Self-centering vise without top jaws  
All bolts and centering bushings included

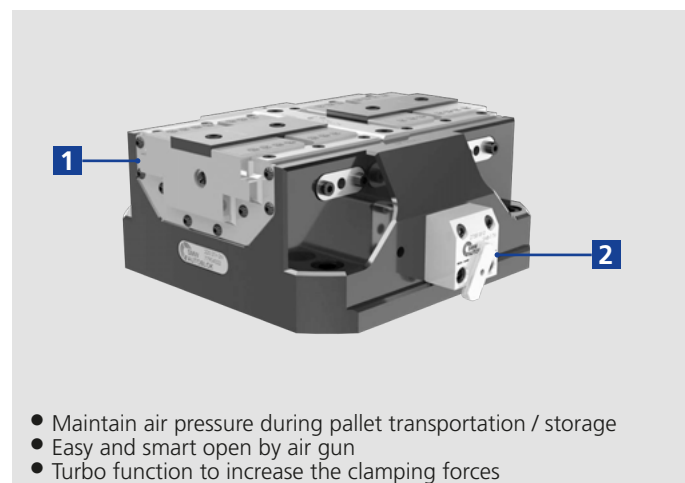


**proofline® series**  
fully sealed – low maintenance

### Actual gripping force diagrams



### SAB-1 safety valve



### Technical data

| Type       | Id. No.  | Id. No. incl. SAB-1 valve | Type stroke | Max. clamping force middle stroke |                  | Stroke per jaw | Piston area | Re-opening pressure | Operating pressure | Repeat-ability | Weight |
|------------|----------|---------------------------|-------------|-----------------------------------|------------------|----------------|-------------|---------------------|--------------------|----------------|--------|
|            |          |                           |             | Springs kN                        | Springs+turbo kN |                |             |                     |                    |                |        |
| 125 STV-2N | 77904312 | 77904812                  | Normal      | 9                                 | 26               | 2.6            | 78          | 5                   | 6                  | 0.01           | 7      |
| 125 STV-2L | 77904412 | 77904912                  | Long        | 4                                 | 13               | 6              | 78          | 5                   | 6                  | 0.01           | 7      |
| 180 STV-2N | 77904318 | 77904818                  | Normal      | 17                                | 54               | 3              | 170         | 5                   | 6                  | 0.01           | 17.5   |
| 180 STV-2L | 77904418 | 77904918                  | Long        | 8                                 | 24               | 8.4            | 170         | 5                   | 6                  | 0.01           | 17.5   |
| 225 STV-2N | 77904322 | 77904822                  | Normal      | 30                                | 66               | 4.2            | 250         | 6                   | 4                  | 0.02           | 28     |
| 225 STV-2L | 77904422 | 77904922                  | Long        | 13.5                              | 37               | 10.2           | 250         | 6                   | 6                  | 0.02           | 28     |

# Spring and air operated twin vise

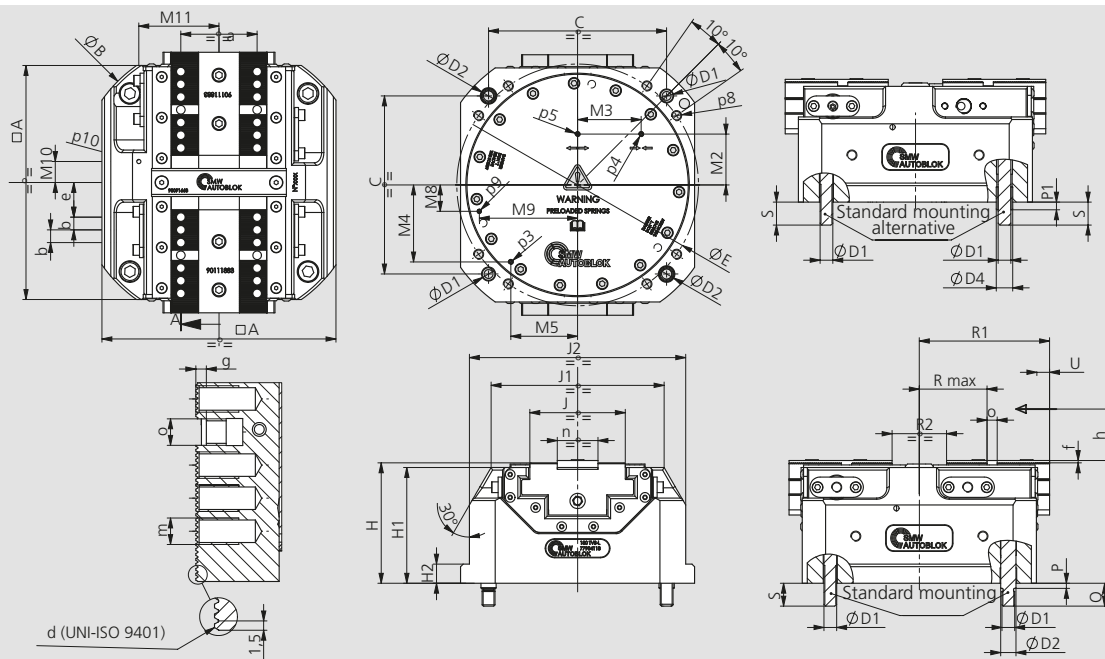
- Protected
- Springs clamping
- Pneumatic jaw stroke control valve

## STV-2N

NORMAL STROKE

## STV-2L

LONG STROKE



| SMW-AUTOBLOK Type           |           |    | STV-2 125   | STV-2 180   | STV-2 225     |
|-----------------------------|-----------|----|-------------|-------------|---------------|
|                             | A         | mm | 125         | 184         | 225           |
|                             | B (Ø)     | mm | 162         | 225         | 284           |
|                             | C         | mm | 100         | 140         | 180           |
|                             | D1 (Ø)    | mm | M8          | M10         | M12           |
|                             | D2 (Øf7)  | mm | 10          | 12          | 14            |
|                             | D4 (Øjs7) | mm | 11          | 13          | 16            |
|                             | E (Ø)     | mm | 136         | 190         | 240           |
|                             | H         | mm | 80.5        | 94.7        | 102           |
|                             | H1        | mm | 77          | 91          | 98            |
|                             | H2        | mm |             | 15          | 15            |
|                             | J         | mm | 47          | 75          | 94            |
|                             | J1        | mm | 100         | 136         | 172           |
|                             | J2        | mm | 125         | 170         | 216           |
|                             | M2        | mm | 32          | 40          | 50            |
|                             | M3        | mm | 29.5        | 50          | 65            |
|                             | M4        | mm | 40.5        | 60.5        | 79            |
|                             | M5        | mm | 38.5        | 52.5        | 63            |
|                             | P         | mm | 4           | 4           | 5             |
|                             | P1        | mm | 4           | 6           | 6             |
|                             | Q         | mm | 15          | 18          | 20            |
| Min. / max. (long stroke)   | R max     | mm | 25.6 / 31.6 | 44.8 / 53.2 | 54.5 / 64.7   |
| Min. / max. (normal stroke) | R max     | mm | 25.4 / 28   | 45 / 48     | 54.5 / 58.7   |
| Min. / max. (long stroke)   | R1        | mm | 64.5 / 70.5 | 94 / 102.4  | 114.5 / 124.7 |
| Min. / max. (normal stroke) | R1        | mm | 64.4 / 67   | 94.5 / 97.5 | 114.8 / 119   |
| Min. / max. (long stroke)   | R2        | mm | 20 / 32     | 26 / 42.8   | 30 / 50.4     |
| Min. / max. (normal stroke) | R2        | mm | 19.8 / 25   | 26 / 32     | 30.6 / 39     |
|                             | S         | mm | 15          | 18          | 20            |
| Long stroke                 | U         | mm | 6           | 8.4         | 10.2          |
| Normal stroke               | U         | mm | 2.6         | 3           | 4.2           |
|                             | a         | mm | 35          | 60          | 80            |
|                             | b         | mm | 7           | 10          | 10            |
| Serration                   | d         | mm | 1.5x60°     | 1.5 x 60°   | 1.5 x 60°     |
| Min. / max. (long stroke)   | e         | mm | 14.6 / 20.6 | 18.8 / 27.2 | 28.5 / 38.7   |
| Min. / max. (normal stroke) | e         | mm | 14.4 / 17   | 19 / 22     | 28.5 / 32.7   |
|                             | f         | mm | 1.8         | 1.8         | 2             |
|                             | g         | mm | 2.7         | 3.2         | 4             |
|                             | h         | mm | 16          | 25          | 35            |
|                             | m         | mm | M6 x 10     | M8 x 12     | M8 x 12       |
|                             | n (g6)    | mm | 20          | 32          | 40            |
|                             | o (H7)    | mm | 6           | 8           | 8             |
|                             | p3        | mm | M4          | M4          | M4            |
|                             | p4        | mm | M4          | M4          | M4            |
|                             | p5        | mm | M4          | M4          | M4            |
|                             | p8        | mm | M6 x 12     | M8 x 16     | M10 x 18      |
|                             | p9        | mm | M4          | M4          | M4            |
|                             | p10       | mm | M4          | M4          | M4            |
|                             | M8        | mm | 10.6        | 20.7        | 15            |
|                             | M9        | mm | 54.5        | 77.3        | 99.9          |
|                             | M10       | mm | 10.5        | 16.5        | 15            |
|                             | M11       | mm | 46          | 63          | 81            |

# STV-3N

NORMAL STROKE

## Spring and air operated twin vise

- Protected
- 3 jaws
- Springs clamping
- Pneumatic jaw stroke control valve

## Application/customer benefits

- Protected against contamination of swarf and chips, fully sealed (proofline)
- Compact design
- Highest repeatability
- Highest rigidity

## Technical features

- Spring to clamp, pneumatic open
- **proofline®** = fully sealed - low maintenance **1**
- Increase of the clamping force via Turbo function
- Housing and functional parts hardened for high precision and long life
- Air purge
- Master jaws with both Tongue & Groove
- O.D. clamping only
- Safety valve SAB-1 **2** to maintain air pressure during pallet transportation / storage and machining without feed
- Pneumatic jaw stroke control valve (optional)

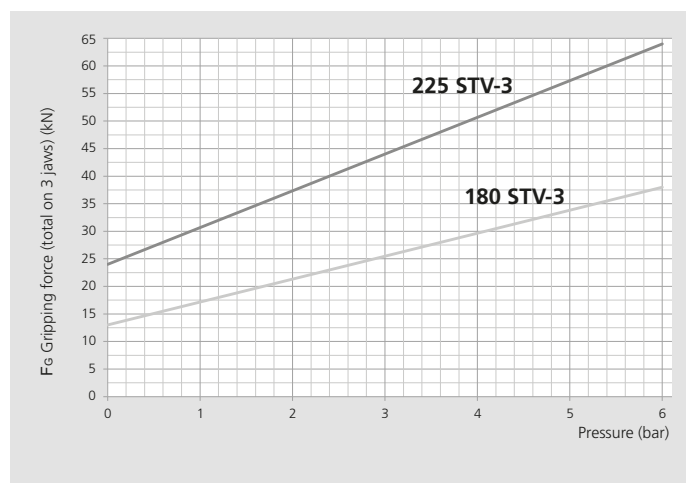
## Standard equipment

Self-centering vise without top jaws  
All bolts and centering bushings included

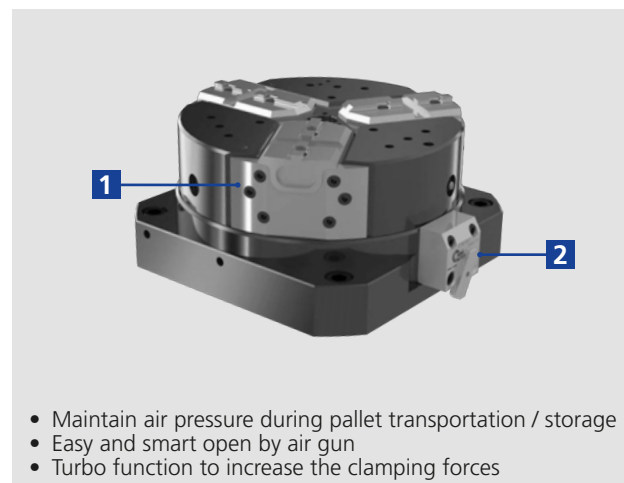


**proofline® series**  
fully sealed - low maintenance

## Actual gripping force diagrams



## SAB-1 safety valve



## Technical data

| Type      | Id. No.    | Id. No. incl. SAB-1 valve | Type stroke | Max. clamping force middle stroke |                  | Stroke per jaw | Piston area | Re-opening pressure | Operating pressure | Weight |
|-----------|------------|---------------------------|-------------|-----------------------------------|------------------|----------------|-------------|---------------------|--------------------|--------|
|           |            |                           |             | Springs kN                        | Springs+turbo kN |                |             |                     |                    |        |
| 125 STV-3 | on request | on request                | Normal      |                                   |                  |                |             |                     |                    |        |
| 180 STV-3 | 77904618   | 77905018                  | Normal      | 13                                | 38               | 3.8            | 170         | 5                   | 6                  | 18     |
| 225 STV-3 | 77904622   | 77905022                  | Normal      | 24                                | 64               | 4.2            | 250         | 6                   | 6                  | 29.5   |

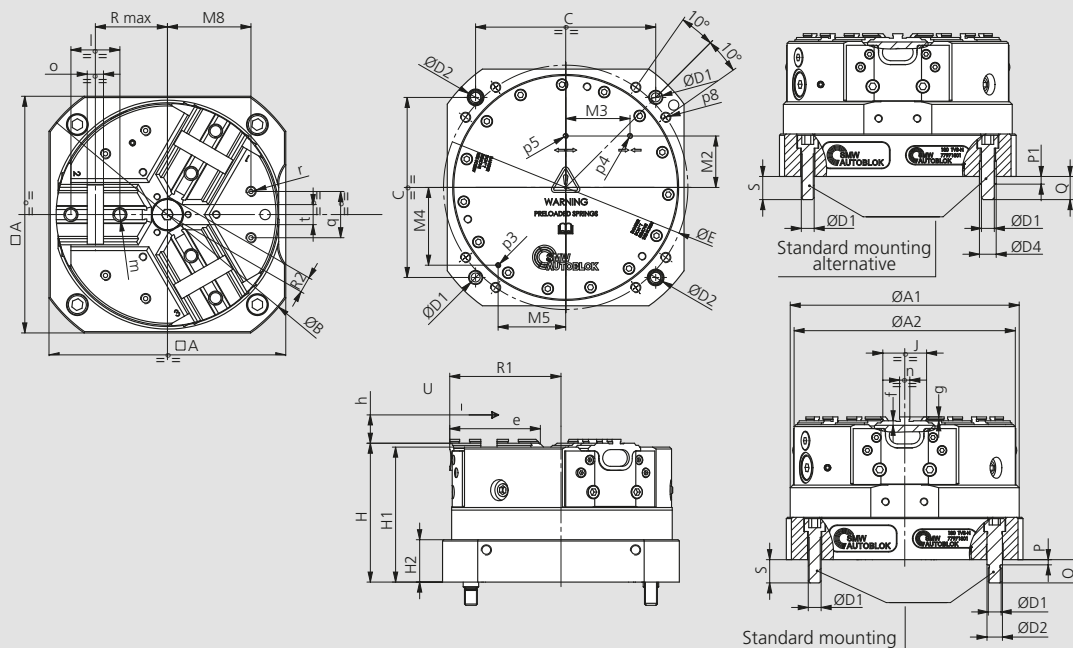


## Spring and air operated twin vise

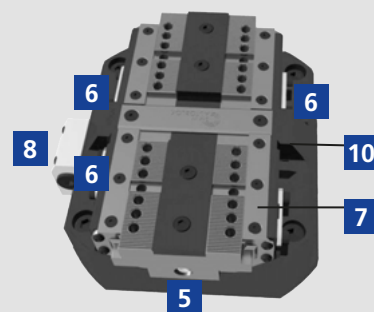
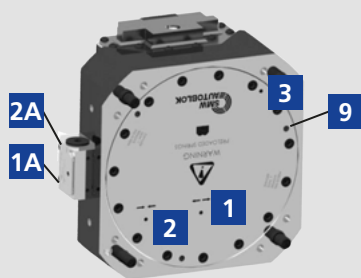
- Protected
- 3 jaws
- Springs clamping
- Pneumatic jaw stroke control valve

# STV-3N

## NORMAL STROKE

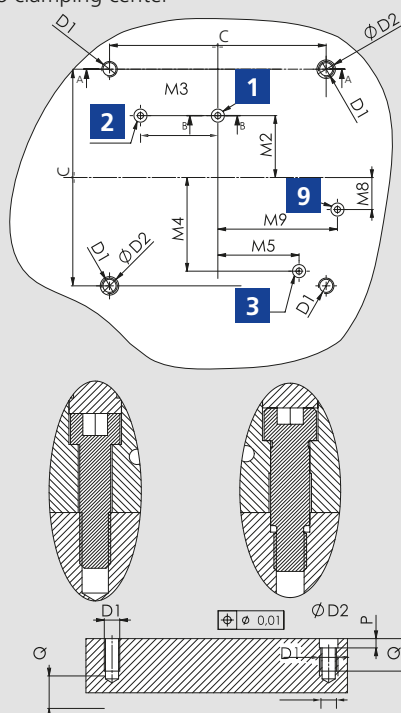


| SMW-AUTOBLOK Type               |           |    | STV-3 180   | STV-3 225   |
|---------------------------------|-----------|----|-------------|-------------|
|                                 | A         | mm | 184         | 225         |
|                                 | A1        | mm | 178         | 222         |
|                                 | A2        | mm | 172         | 216         |
|                                 | B (Ø)     | mm | 225         | 284         |
|                                 | C         | mm | 140         | 180         |
|                                 | D1 (Ø)    | mm | M10         | M12         |
|                                 | D2 (Øf7)  | mm | 12          | 14          |
|                                 | D4 (Øjs7) | mm | 13          | 16          |
|                                 | E (ø)     | mm | 190         | 240         |
|                                 | H         | mm | 108         | 115         |
|                                 | H1        | mm | 105         | 112         |
|                                 | H2        | mm | 33          | 38          |
|                                 | J         | mm | 34          | 46          |
|                                 | M2        | mm | 40          | 50          |
|                                 | M3        | mm | 50          | 65          |
|                                 | M4        | mm | 60.5        | 79          |
|                                 | M5        | mm | 52.5        | 63          |
|                                 | M8        | mm | 65          | 80          |
|                                 | P         | mm | 4           | 5           |
|                                 | P1        | mm | 6           | 6           |
|                                 | Q         | mm | 18          | 20          |
| Min. / max.                     | R max     | mm | 52.2 / 56   | 67.8 / 72   |
| Min. / max.                     | R1        | mm | 82.7 / 86.5 | 103.8 / 108 |
| Min. / max.                     | R2        | mm | 8.7 / 12.5  | 12.8 / 17   |
|                                 | S         | mm | 18          | 20          |
|                                 | U         | mm | 3.8         | 4.2         |
|                                 | e         | mm | 70          | 87          |
|                                 | f         | mm | 3.5         | 3.5         |
|                                 | g         | mm | 3           | 3           |
|                                 | h         | mm | 25          | 35          |
|                                 | l         | mm | 38          | 44.4        |
|                                 | m         | mm | M10 x 12    | M12 x 14    |
|                                 | n (h8)    | mm | 7.94        | 7.94        |
|                                 | o (H7)    | mm | 12.68       | 12.68       |
| Air stroke control or air purge | p3        | mm | M4          | M4          |
| Vise Closed                     | p4        | mm | M4          | M4          |
| Vise Open                       | p5        | mm | M4          | M4          |
|                                 | p8        | mm | M8 x 16     | M10 x 18    |
|                                 | q         | mm | 36          | 45          |
|                                 | r         | mm | M8 x 10     | M8 x 10     |
| Min. / max.                     | t         | mm | 9 / 15.6    | 13.5 / 20.9 |



### Solution 1 standard

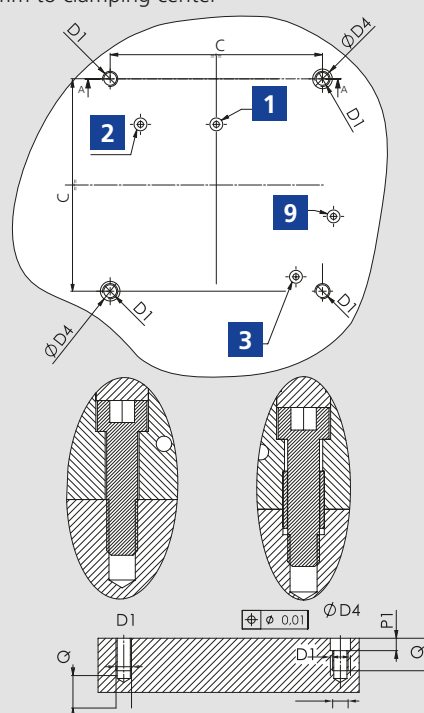
± 0,03 mm to clamping center



All bolts and centering bushings included

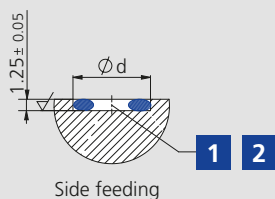
### Solution 2 standard

± 0,025 mm to clamping center

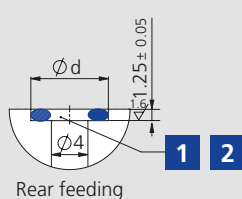


All bolts and centering bushings included

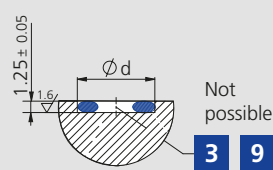
### Feeding seats



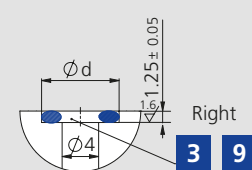
Side feeding



Rear feeding



Not possible



Right

### Functional overview

|          |                                        |           |                     |          |                                |           |                                          |
|----------|----------------------------------------|-----------|---------------------|----------|--------------------------------|-----------|------------------------------------------|
| <b>1</b> | Open-rear feeding                      | <b>1A</b> | Open-side feeding   | <b>6</b> | Proximity switches seats       | <b>9</b>  | Air sensing connection**                 |
| <b>2</b> | Closed-rear feeding                    | <b>2A</b> | Closed-side Feeding | <b>7</b> | Pneumatic stroke control valve | <b>10</b> | Air sensing outlet** (under front plate) |
| <b>3</b> | Pneumatic stroke control or air purge* | <b>5</b>  | Lubrication fitting | <b>8</b> | Safety valve                   |           |                                          |

\* The air purge can be used only without the valve.

\*\*9 and 10 Points available only on 2 jaws version.

| Type    | C   | D1  | D2 H7 | D4 H7 | M2 | M3   | M4   | M5   | M8   | M9   | P | P1 | Q  | Ød  | OR     |
|---------|-----|-----|-------|-------|----|------|------|------|------|------|---|----|----|-----|--------|
| STV 125 | 100 | M8  | 10    | 11    | 32 | 29.5 | 40.5 | 38.5 | 10.6 | 54.5 | 6 | 6  | 18 | 8   | OR2018 |
| STV 180 | 140 | M10 | 12    | 13    | 40 | 50   | 60.5 | 52.5 | 20.7 | 77.3 | 6 | 7  | 21 | 8.8 | OR2021 |
| STV 225 | 180 | M12 | 14    | 16    | 50 | 65   | 79   | 63   | 15   | 99.9 | 7 | 7  | 24 | 8.8 | OR2021 |

# Notes

# TVP-N

NORMAL STROKE

# TVP-L

LONG STROKE

# TVP-F

FIXED JAW

## Pneumatic twin vise



### Application/customer benefits

- Compact design
- Linear pressure adjustment
- Highest repeatability
- Highest rigidity

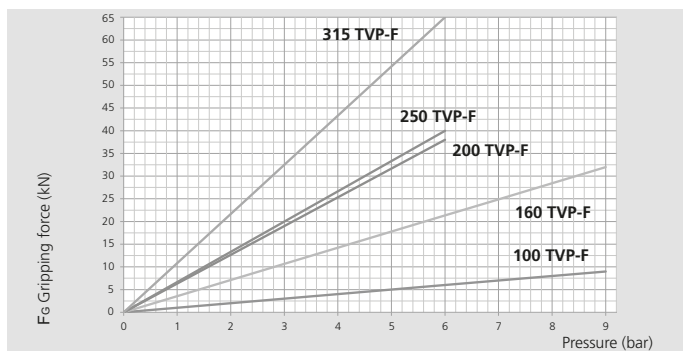
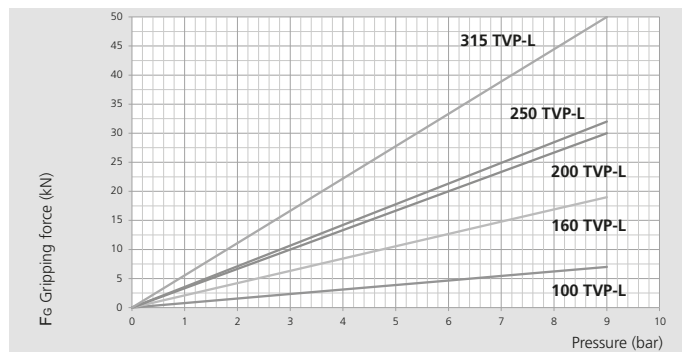
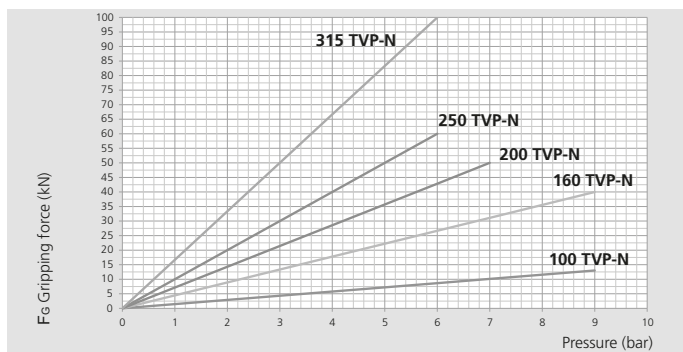
### Technical features

- H7 quality pilot bore
- Housing and functional parts hardened for high precision and long life
- Air purge
- Ready for central grease lubrication
- Master jaws with both Tongue & Groove and fine serration 1.5 mm x 60°
- OD and ID clamping
- Stroke control via proximity switches (optional)

### Standard equipment

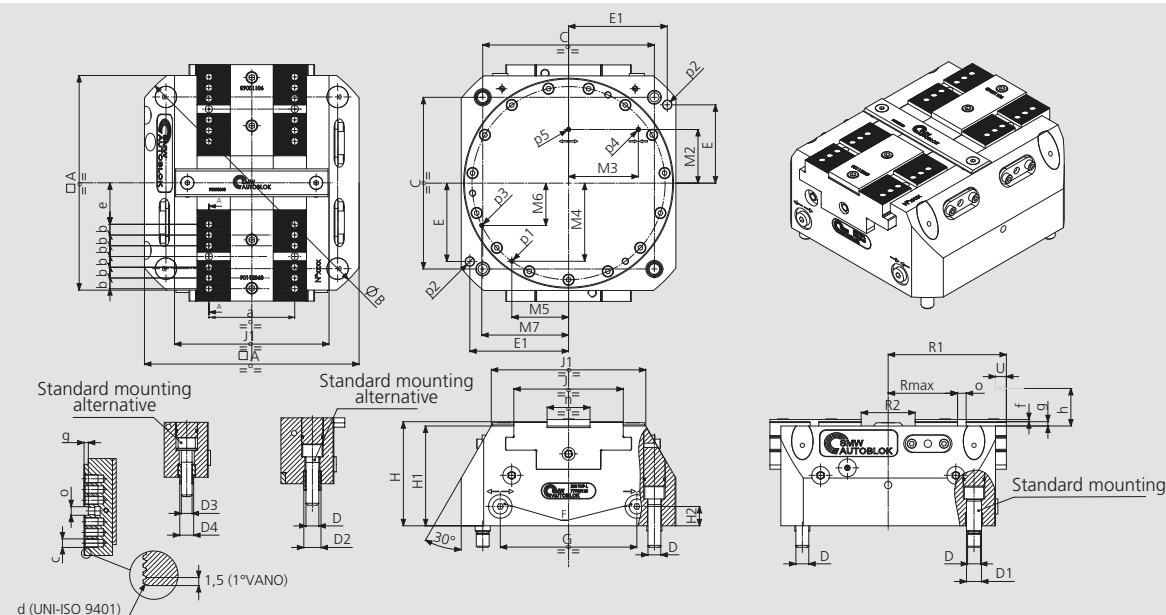
Self-centering vise without top jaws  
All bolts and centering bushings included

## Actual gripping force diagrams



## Technical data

| Type      | Id. No.  | Type stroke | Max. clamping force kN | Stroke per jaw mm | Max. operating pressure bar | Repeatability mm | Weight kg |
|-----------|----------|-------------|------------------------|-------------------|-----------------------------|------------------|-----------|
| 100 TVP-N | 77903010 | Normal      | 13                     | 2.6               | 9                           | 0.01             | 4.3       |
| 100 TVP-L | 77903110 | Long        | 7                      | 6                 | 9                           | 0.01             | 4.3       |
| 100 TVP-F | 77903210 | Fixed jaw   | 9                      | 6                 | 9                           | 0.01             | 4.3       |
| 160 TVP-N | 77903016 | Normal      | 40                     | 3                 | 9                           | 0.01             | 13        |
| 160 TVP-L | 77903116 | Long        | 19                     | 8.4               | 9                           | 0.01             | 13        |
| 160 TVP-F | 77903216 | Fixed jaw   | 32                     | 8.4               | 9                           | 0.01             | 13        |
| 200 TVP-N | 77903020 | Normal      | 50                     | 4.2               | 7                           | 0.02             | 23        |
| 200 TVP-L | 77903120 | Long        | 30                     | 10.2              | 9                           | 0.02             | 23        |
| 200 TVP-F | 77903220 | Fixed jaw   | 38                     | 10.2              | 6                           | 0.02             | 23        |
| 250 TVP-N | 77903025 | Normal      | 60                     | 5.3               | 6                           | 0.02             | 39        |
| 250 TVP-L | 77903125 | Long        | 32                     | 15                | 9                           | 0.02             | 39        |
| 250 TVP-F | 77903225 | Fixed jaw   | 40                     | 15                | 6                           | 0.02             | 39        |
| 315 TVP-N | 77903031 | Normal      | 100                    | 6.4               | 6                           | 0.03             | 84        |
| 315 TVP-L | 77903131 | Long        | 50                     | 18                | 9                           | 0.03             | 84        |
| 315 TVP-F | 77903231 | Fixed jaw   | 65                     | 18                | 6                           | 0.03             | 84        |



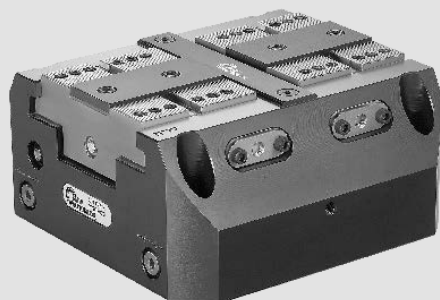
| SMW-AUTOBLOK Type           |        |    | TVP-N   TVP-L<br>TVP-F 100 | TVP-N   TVP-L<br>TVP-F 160 | TVP-N   TVP-L<br>TVP-F 200 | TVP-N   TVP-L<br>TVP-F 250 | TVP-N   TVP-L<br>TVP-F 315 |
|-----------------------------|--------|----|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| A                           | mm     |    | 100                        | 160                        | 200                        | 250                        | 315                        |
| B(Ø)                        | mm     |    | 132                        | 205                        | 255                        | 314                        | 394                        |
| C                           | mm     |    | 80                         | 125                        | 160                        | 200                        | 250                        |
| D(Ø)                        | mm     |    | M8 x 15                    | M10 x 18                   | M12 x 20                   | M12 x 20                   | M16 x 23                   |
| D1 (Øf7)                    | mm     |    | 10 x 4                     | 12 x 4                     | 14x5                       | 14 x 5                     | 18 x 6                     |
| D2 (Øjs7)                   | mm     |    | 11 x 4                     | 13 x 6                     | 16 x 6                     | 16 x 6                     | 21 x 6                     |
| D3                          | mm     |    | -                          | -                          | M10 x 18                   | -                          | -                          |
| D4 (Øjs7)                   | mm     |    | -                          | -                          | 13 x 6                     | -                          | -                          |
| E                           | mm     |    | 32                         | 53                         | 73                         | 77                         | 105                        |
| E1                          | mm     |    | 45                         | 73                         | 92                         | 115                        | 140                        |
| F                           | mm     |    | M5                         | G1/8"                      | G1/8"                      | G1/8"                      | G1/8"                      |
| G                           | mm     |    | 59.3                       | 99                         | 127.3                      | 157                        | 200.8                      |
| H                           | mm     |    | 75.5                       | 89.7                       | 97                         | 105                        | 139                        |
| H1                          | mm     |    | 72                         | 86                         | 93                         | 100                        | 133                        |
| H2                          | mm     |    | 15                         | 18                         | 18                         | 20                         | 25                         |
| J                           | mm     |    | 47                         | 75                         | 102                        | 125                        | 160                        |
| J1                          | mm     |    | 72                         | 108                        | 144                        | 180                        | 230                        |
| M2                          | mm     |    | 32                         | 40                         | 50                         | 64                         | 80                         |
| M3                          | mm     |    | 29.5                       | 50                         | 65                         | 75                         | 90                         |
| M4                          | mm     |    | 34.2                       | 59                         | 72.8                       | 89.8                       | 117.7                      |
| M5                          | mm     |    | 27.7                       | 41                         | 52.9                       | 65.2                       | 79.4                       |
| M6                          | mm     |    | 14.2                       | 30.7                       | 39.5                       | 48.7                       | 57.8                       |
| M7                          | mm     |    | 41.1                       | 62.9                       | 80.9                       | 99.8                       | 129.7                      |
| Lubrication                 | p1     | mm | M4                         | M4                         | M4                         | M5                         | M5                         |
|                             | p2 ØH7 | mm | 6 x 14                     | 8 x 14                     | 8 x 14                     | 10 x 20                    | 12 x 20                    |
| Air purge                   | p3     | mm | M4                         | M4                         | M4                         | M5                         | M5                         |
| Vise closed                 | p4     | mm | M4                         | M4                         | M4                         | M5                         | M5                         |
| Vise open                   | p5     | mm | M4                         | M4                         | M4                         | M5                         | M5                         |
| Min. / max. (long stroke)   | R2     | mm | 20 / 32                    | 26 / 42.8                  | 30 / 50.4                  | 39 / 69                    | 50 / 86                    |
| Min. / max. (long stroke)   | R1     | mm | 50 / 56                    | 82.5 / 90.9                | 100 / 110.2                | 119.5 / 134.5              | 151.5 / 169.5              |
| Min. / max. (long stroke)   | Rmax   | mm | 25.6 / 31.6                | 44.8 / 53.2                | 54.5 / 64.7                | 51.5 / 66.5                | 81.5 / 99.5                |
| Min. / max. (normal stroke) | R2     | mm | 19.8 / 25                  | 26 / 32                    | 30.6 / 39                  | 34.4 / 45                  | 49.2 / 62                  |
| Min. / max. (normal stroke) | R1     | mm | 47.4 / 50                  | 82.5 / 85.5                | 95.8 / 100                 | 119.7 / 125                | 151.1 / 157.5              |
| Min. / max. (normal stroke) | Rmax   | mm | 25.4 / 28                  | 45 / 48                    | 54.5 / 58.7                | 55.7 / 61                  | 87.1 / 93.5                |
| Min. / max. (fixed jaw)     | R2     | mm | 20 / 26                    | 26 / 34.4                  | 30 / 40.2                  | 39 / 54                    | 56 / 74                    |
| Min. / max. (fixed jaw)     | R1     | mm | 50 / 56                    | 82.5 / 90.9                | 100 / 110.2                | 119.5 / 134.5              | 151.5 / 169.5              |
| Min. / max. (fixed jaw)     | Rmax   | mm | 25.6 / 31.6                | 44.8 / 53.2                | 54.5 / 64.7                | 51.5 / 66.5                | 81.5 / 99.5                |
| Long stroke                 | U      | mm | 6                          | 8.4                        | 10.2                       | 15                         | 18                         |
| Normal stroke               | U      | mm | 2.6                        | 3                          | 4.2                        | 5.3                        | 6.4                        |
| Fixed jaw stroke            | U      | mm | 6                          | 8.4                        | 10.2                       | 15                         | 18                         |
| a                           | mm     |    | 35                         | 60                         | 80                         | 90                         | 120                        |
| b                           | mm     |    | 7                          | 10                         | 10                         | 12                         | 15                         |
| c                           | mm     |    | M6 x 10                    | M8 x 12                    | M8 x 12                    | M10 x 15                   | M12 x 17                   |
| Serration                   | d      | mm | 1.5 x 60°                  | 1.5 x 60°                  | 1.5 x 60°                  | 1.5 x 60°                  | 1.5 x 60°                  |
| Min. / max. (normal stroke) | e      | mm | 14.4 / 17                  | 19 / 22                    | 28.5 / 32.7                | 24.7 / 30                  | 33.1 / 39.5                |
| Min. / max. (long stroke)   | e      | mm | 14.6 / 20.6                | 18.8 / 27.2                | 28.5 / 38.7                | 32.5 / 47.5                | 42.5 / 60.5                |
| Min. / max. (fixed jaw)     | e      | mm | 14.6 / 20.6                | 18.8 / 27.2                | 28.5 / 38.7                | 32.5 / 47.5                | 42.5 / 60.5                |
| f                           | mm     |    | 1.8                        | 1.8                        | 2                          | 2.5                        | 2.5                        |
| g                           | mm     |    | 2.7                        | 3.2                        | 4                          | 4                          | 4                          |
| h                           | mm     |    | 16                         | 25                         | 35                         | 40                         | 40                         |
| o (H7)                      | mm     |    | 6                          | 8                          | 8                          | 10                         | 12                         |
| n (g6)                      | mm     |    | 20                         | 32                         | 40                         | 50                         | 60                         |

**TVH-N**

NORMAL STROKE

**TVH-L**

LONG STROKE

**Hydraulic twin vise****Application/customer benefits**

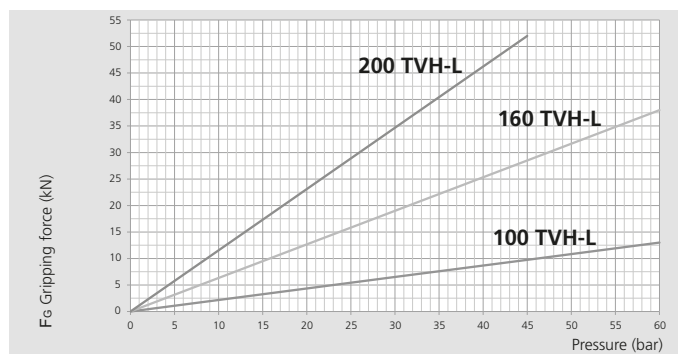
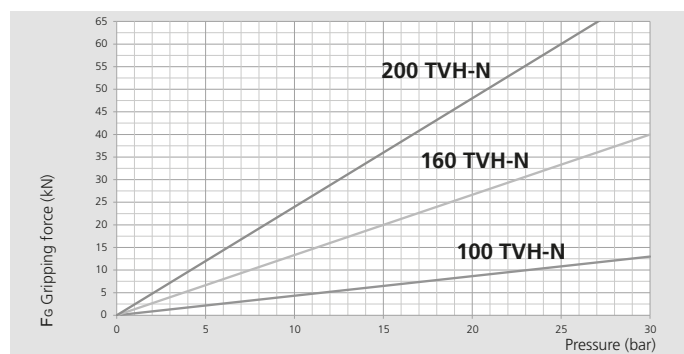
- Compact design
- Linear pressure adjustment
- Highest repeatability
- Highest rigidity

**Technical features**

- H7 quality pilot bore
- Housing and functional parts hardened for high precision and long life
- Air purge
- Ready for central grease lubrication
- Master jaws with both Tongue & Groove and fine serration 1.5 mm x 60°
- OD and ID clamping
- Stroke control via proximity switches (optional)

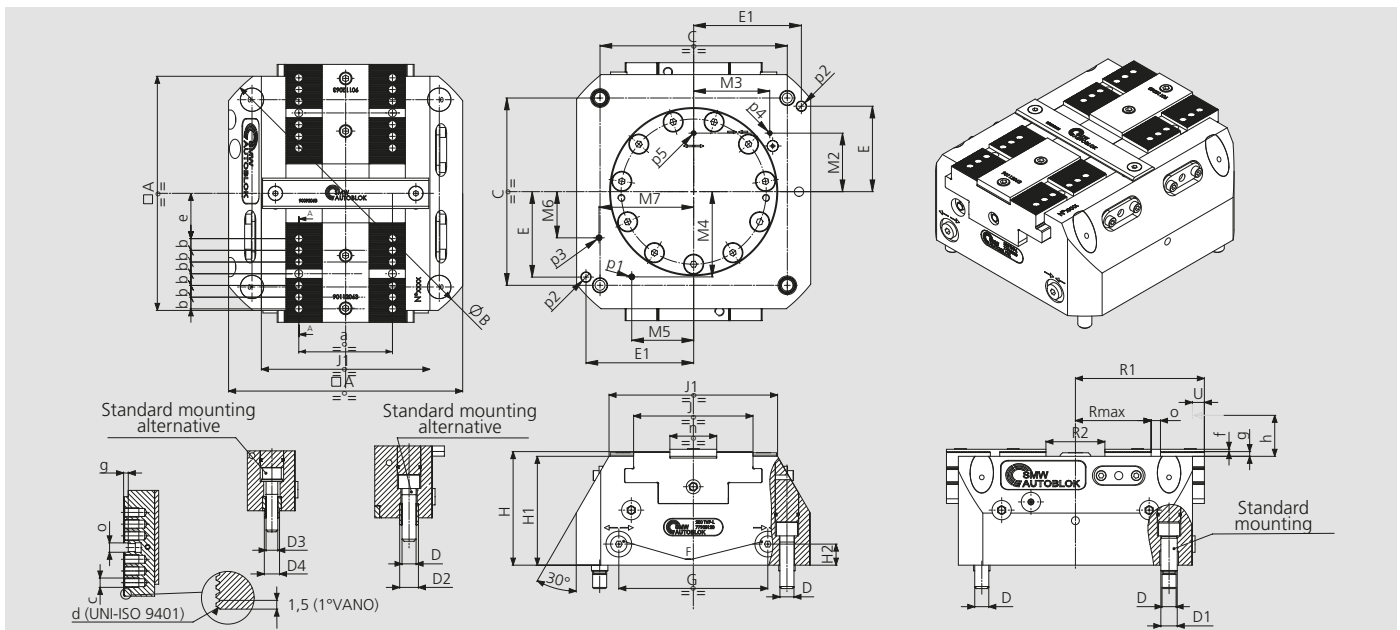
**Standard equipment**

Self-centering vise without top jaws  
All bolts and centering bushings included

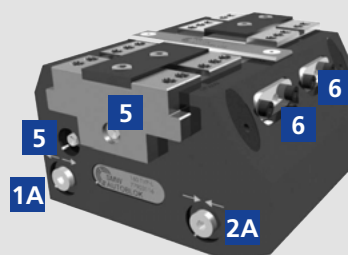
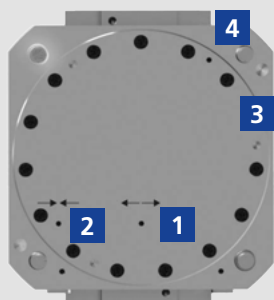
**Actual gripping force diagrams****Technical data**

| Type      | Id. No.  | Type stroke | Max. clamping force<br>kN | Stroke per jaw<br>mm | Max. operating pressure<br>bar | Repeatability<br>mm | Weight<br>kg |
|-----------|----------|-------------|---------------------------|----------------------|--------------------------------|---------------------|--------------|
| 100 TVH-N | 77903510 | Normal      | 13                        | 2.6                  | 30                             | 0.01                | 4.5          |
| 100 TVH-L | 77903610 | Long        | 13                        | 6                    | 60                             | 0.01                | 4.5          |
| 160 TVH-N | 77903516 | Normal      | 40                        | 3                    | 30                             | 0.01                | 14           |
| 160 TVH-L | 77903616 | Long        | 38                        | 8.4                  | 60                             | 0.01                | 14           |
| 200 TVH-N | 77903520 | Normal      | 60                        | 4.2                  | 25                             | 0.02                | 25           |
| 200 TVH-L | 77903620 | Long        | 52                        | 10.2                 | 45                             | 0.02                | 25           |



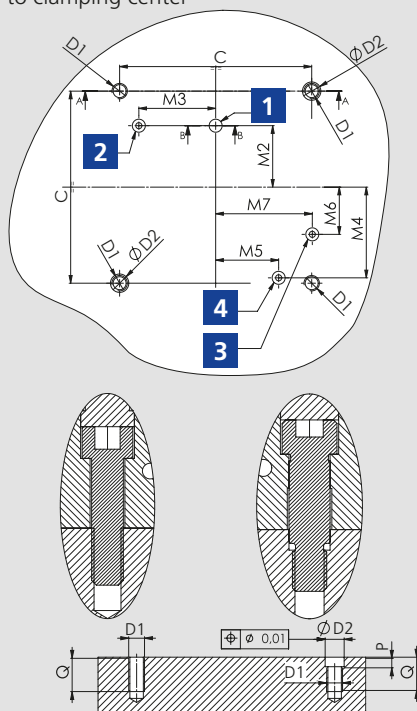


| SMW-AUTOBLOK Type           |           |    | TVH-N   TVH-L 100 | TVH-N   TVH-L 160 | TVH-N   TVH-L 200 |
|-----------------------------|-----------|----|-------------------|-------------------|-------------------|
|                             | A         | mm | 100               | 160               | 200               |
|                             | B (Ø)     | mm | 132               | 205               | 255               |
|                             | C         | mm | 80                | 125               | 160               |
|                             | D (Ø)     | mm | M8 x 15           | M10 x 18          | M12 x 20          |
|                             | D1 (Øf7)  | mm | 10 x 4            | 12 x 4            | 14 x 5            |
|                             | D2 (Øjs7) | mm | 11 x 4            | 13 x 6            | 16 x 6            |
|                             | D3        | mm | -                 | -                 | M10 x 18          |
|                             | D4 (Øjs7) | mm | -                 | -                 | 13 x 6            |
|                             | E         | mm | 32                | 53                | 73                |
|                             | E1        | mm | 45                | 73                | 92                |
|                             | F         | mm | G1/8"             | G1/8"             | G1/8"             |
|                             | G         | mm | 55                | 98                | 128               |
|                             | H         | mm | 75.5              | 89.7              | 97                |
|                             | H1        | mm | 72                | 86                | 93                |
|                             | H2        | mm | 15                | 18                | 18                |
|                             | J         | mm | 47                | 75                | 102               |
|                             | J1        | mm | 72                | 108               | 144               |
|                             | M2        | mm | 32                | 40                | 50                |
|                             | M3        | mm | 29.5              | 50                | 65                |
|                             | M4        | mm | 34.2              | 59                | 72.8              |
|                             | M5        | mm | 27.7              | 41                | 52.9              |
|                             | M6        | mm | 14.2              | 30.7              | 39.5              |
|                             | M7        | mm | 41.1              | 62.9              | 80.9              |
| Lubrication                 | p1        | mm | M4                | M5                | M5                |
|                             | p2 ØH7    | mm | 6 x 14            | 8 x 14            | 8 x 14            |
| Air purge                   | p3        | mm | M4                | M5                | M5                |
| Vise closed                 | p4        | mm | M4                | M4                | M4                |
| Vise open                   | p5        | mm | M4                | M4                | M4                |
| Min. / max. (long stroke)   | R2        | mm | 20 / 32           | 26 / 42.8         | 30 / 50.4         |
| Min. / max. (long stroke)   | R1        | mm | 50 / 56           | 82.5 / 90.9       | 100 / 110.2       |
| Min. / max. (long stroke)   | Rmax      | mm | 25.6 / 31.6       | 44.8 / 53.2       | 54.5 / 64.7       |
| Min. / max. (normal stroke) | R2        | mm | 19.8 / 25         | 26 / 32           | 30.6 / 39         |
| Min. / max. (normal stroke) | R1        | mm | 47.4 / 50         | 82.5 / 85.5       | 95.8 / 100        |
| Min. / max. (normal stroke) | Rmax      | mm | 25.4 / 28         | 45 / 48           | 54.5 / 58.7       |
| Long stroke                 | U         | mm | 6                 | 8.4               | 10.2              |
| Normal stroke               | U         | mm | 2.6               | 3                 | 4.2               |
|                             | a         | mm | 35                | 60                | 80                |
|                             | b         | mm | 7                 | 10                | 10                |
|                             | c         | mm | M6 x 10           | M8 x 12           | M8 x 12           |
| Serration                   | d         | mm | 1.5 x 60°         | 1.5 x 60°         | 1.5 x 60°         |
| Min. / max. (normal stroke) | e         | mm | 14.4 / 17         | 19 / 22           | 28.5 / 32.7       |
| Min. / max. (long stroke)   | e         | mm | 14.6 / 20.6       | 18.8 / 27.2       | 28.5 / 38.7       |
|                             | f         | mm | 1.8               | 1.8               | 2                 |
|                             | g         | mm | 2.7               | 3.2               | 4                 |
|                             | h         | mm | 16                | 25                | 35                |
|                             | o (H7)    | mm | 6                 | 8                 | 8                 |
|                             | n (g6)    | mm | 20                | 32                | 40                |



#### Solution 1 standard

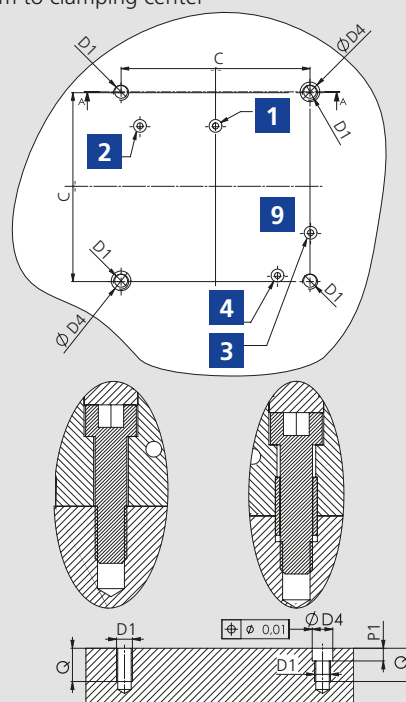
± 0,03 mm to clamping center



All bolts and centering bushings included

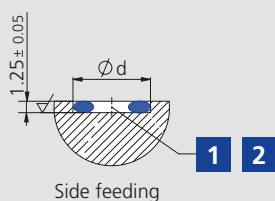
#### Solution 2 standard

± 0,025 mm to clamping center

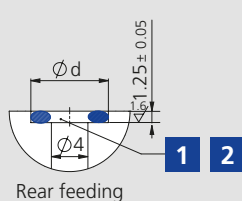


All bolts and centering bushings included

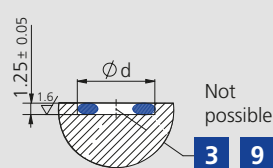
#### Feeding seats



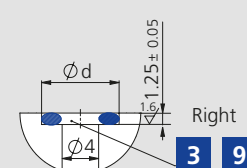
Side feeding



Rear feeding



Not possible



Right

#### Functional overview

|           |                   |           |                     |          |                     |          |                          |
|-----------|-------------------|-----------|---------------------|----------|---------------------|----------|--------------------------|
| <b>1</b>  | Open-rear feeding | <b>2</b>  | Closed-rear feeding | <b>3</b> | Air purge           | <b>5</b> | Lubrication fitting      |
| <b>1A</b> | Open-side feeding | <b>2A</b> | Closed-side Feeding | <b>4</b> | Central lubrication | <b>6</b> | Proximity switches seats |

| Type   | C   | D1  | D2H7 | D4H7 | M   | M1 | M2 | M3   | M4    | M5   | M6   | M7    | P | P1 | Q  | V    | Z    | Ød  | OR     |
|--------|-----|-----|------|------|-----|----|----|------|-------|------|------|-------|---|----|----|------|------|-----|--------|
| TV 100 | 80  | M8  | 10   | 11   | 45  | 29 | 32 | 29.5 | 34.2  | 27.7 | 14.2 | 41.1  | 6 | 6  | 18 | 37.3 | 96.5 | 8   | OR2018 |
| TV 160 | 125 | M10 | 12   | 13   | 69  | 48 | 40 | 50   | 59    | 41   | 30.7 | 62.9  | 6 | 7  | 21 | 50   | 155  | 8   | OR2018 |
| TV 200 | 160 | M12 | 14   | 16   | 88  | 62 | 50 | 65   | 72.8  | 52.9 | 39.5 | 80.9  | 7 | 7  | 24 | 62   | 195  | 8.8 | OR2021 |
| TV 250 | 200 | M12 | 14   | 16   | 113 | 77 | 64 | 75   | 89.8  | 65.2 | 48.6 | 99.8  | 7 | 7  | 24 | 80   | 239  | 8.8 | OR2021 |
| TV 315 | 250 | M15 | 18   | 21   | -   | -  | 80 | 90   | 115.7 | 84   | 62.7 | 128.5 | 8 | 7  | 27 | -    | -    | 8.8 | OR2021 |

# Notes

## PTP-N

NORMAL STROKE

## PTP-L

LONG STROKE

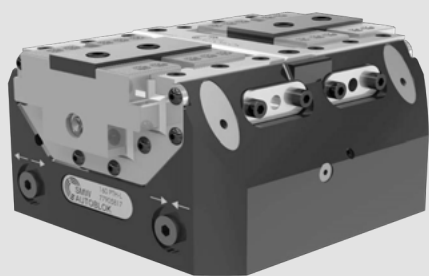
## PTP-F

FIXED JAW

## Protected pneumatic twin vise

■ Pneumatic version

■ Pneumatic jaw stroke control valve



**proofline® series**  
fully sealed – low maintenance

### Application/customer benefits

- Protected against contamination of swarf and chips, fully sealed (proofline)
- Compact design
- Highest repeatability
- Highest rigidity
- Linear pressure adjustment

### Technical features

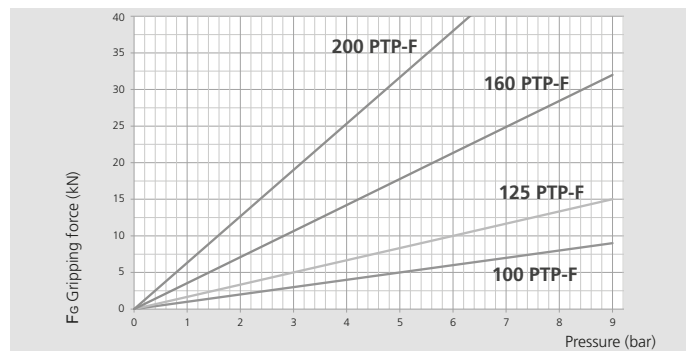
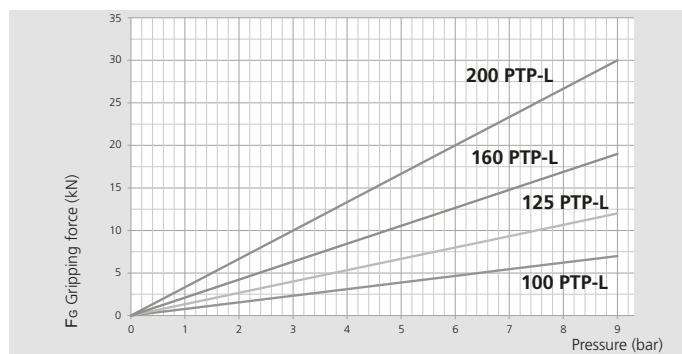
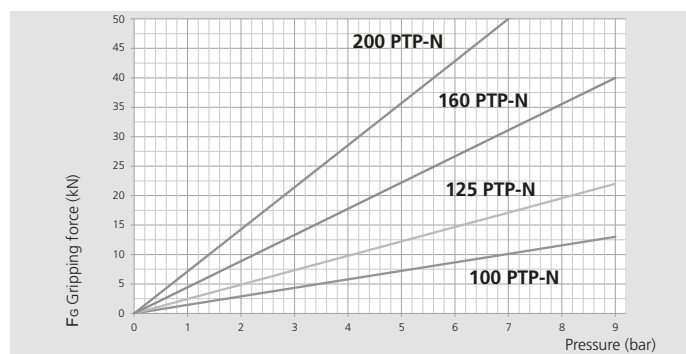
- Housing and functional parts hardened for high precision and long life
- **proofline®** = fully sealed - low maintenance
- Air purge
- Ready for central grease lubrication
- Master jaws with both Tongue & Groove and fine serration 1.5 mm x 60°
- OD and ID clamping
- Pneumatic jaw stroke control valve (optional)
- Air sensing
- Stroke control via proximity switches on all types and sizes except 100 PTP-F (optional)
- For 100 PTP-F only one stroke control via proximity switch for vise closed (optional)

### Standard equipment

Self-centering vise without top jaws

All bolts and centering bushings included

### Actual gripping force diagrams



### Technical data

| Type      | Id. No.  | Type stroke | Clamping force max. kN | Stroke per jaw mm | Piston area cm² | Operating pressure max. bar | Repeatability mm | Weight kg |
|-----------|----------|-------------|------------------------|-------------------|-----------------|-----------------------------|------------------|-----------|
| 100 PTP-N | 77905211 | Normal      | 13                     | 2.6               | 45              | 9                           | 0.01             | 5.5       |
| 100 PTP-L | 77905311 | Long        | 7                      | 6                 | 45              | 9                           | 0.01             | 5.5       |
| 100 PTP-F | 77905411 | Fixed jaw   | 9                      | 6                 | 45              | 9                           | 0.01             | 5.5       |
| 125 PTP-N | 77905212 | Normal      | 22                     | 2.6               | 78              | 9                           | 0.01             | 7         |
| 125 PTP-L | 77905312 | Long        | 12                     | 6                 | 78              | 9                           | 0.01             | 7         |
| 125 PTP-F | 77905412 | Fixed jaw   | 15                     | 6                 | 78              | 9                           | 0.01             | 7         |
| 160 PTP-N | 77905217 | Normal      | 40                     | 3                 | 128             | 9                           | 0.01             | 13        |
| 160 PTP-L | 77905317 | Long        | 19                     | 8.4               | 128             | 9                           | 0.01             | 13        |
| 160 PTP-F | 77905417 | Fixed jaw   | 32                     | 8.4               | 128             | 9                           | 0.01             | 13        |
| 200 PTP-N | 77905221 | Normal      | 50                     | 4.2               | 194             | 7                           | 0.02             | 23        |
| 200 PTP-L | 77905321 | Long        | 30                     | 10.2              | 194             | 9                           | 0.02             | 23        |
| 200 PTP-F | 77905421 | Fixed jaw   | 38                     | 10.2              | 194             | 6                           | 0.02             | 23        |

# Protected pneumatic twin vise

## PTP-N

## PTP-L

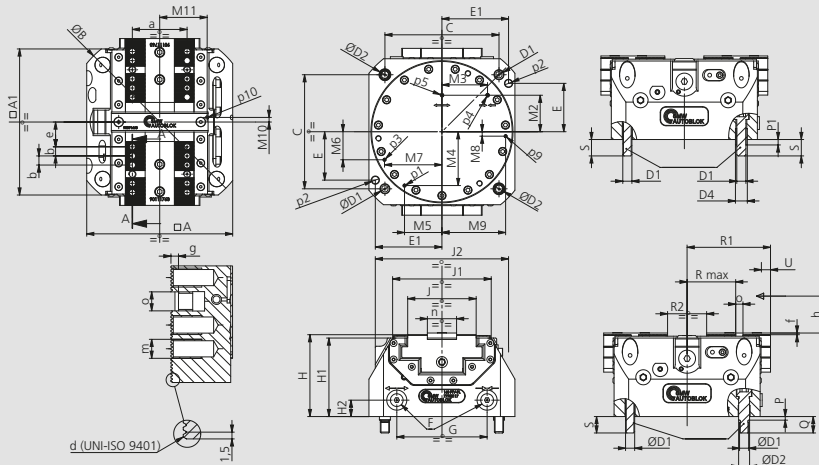
## PTP-F

- Pneumatic version
- Pneumatic jaw stroke control valve

NORMAL STROKE

LONG STROKE

FIXED JAW



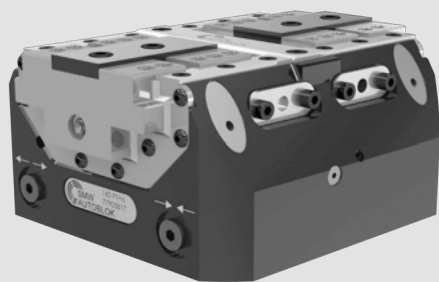
| SMW-AUTOBLOK Type                      |          |    | PTP-N   PTP-L<br>PTP-F 100 | PTP-N   PTP-L<br>PTP-F 125 | PTP-N   PTP-L<br>PTP-F 160 | PTP-N   PTP-L<br>PTP-F 200 |
|----------------------------------------|----------|----|----------------------------|----------------------------|----------------------------|----------------------------|
| A                                      | mm       |    | 100                        | 125                        | 160                        | 200                        |
| A1                                     | mm       |    | 110                        | 125                        | 160                        | 200                        |
| B (Ø)                                  | mm       |    | 136                        | 162                        | 205                        | 255                        |
| C                                      | mm       |    | 80                         | 100                        | 125                        | 160                        |
| D1 (Ø)                                 | mm       |    | M8                         | M8                         | M10                        | M12                        |
| D2 (Øf7)                               | mm       |    | 10                         | 10                         | 12                         | 14                         |
| D4 (Øjs7)                              | mm       |    | 11                         | 11                         | 13                         | 16                         |
| E                                      | mm       |    | 32                         | -                          | 53                         | 73                         |
| E1                                     | mm       |    | 45                         | -                          | 73                         | 92                         |
| F                                      | mm       |    | M5                         | M5                         | G1/8"                      | G1/8"                      |
| G                                      | mm       |    | 59                         | 59                         | 99                         | 127                        |
| H                                      | mm       |    | 75.5                       | 80.5                       | 89.7                       | 97                         |
| H1                                     | mm       |    | 72                         | 77                         | 86                         | 93                         |
| H2                                     | mm       |    | 15                         | 17                         | 18                         | 18                         |
| J                                      | mm       |    | 47                         | 47                         | 75                         | 94                         |
| J1                                     | mm       |    | 82                         | 100                        | 108                        | 144                        |
| J2                                     | mm       |    | 100                        | 121                        | 146                        | 166                        |
| M2                                     | mm       |    | 32                         | 32                         | 40                         | 50                         |
| M3                                     | mm       |    | 29.5                       | 29.5                       | 50                         | 65                         |
| M4                                     | mm       |    | 34.2                       | 40.5                       | 59                         | 72.8                       |
| M5                                     | mm       |    | 27.7                       | 38.5                       | 41                         | 52.9                       |
| M6                                     | mm       |    | 14.2                       | 10.6                       | 30.7                       | 39.5                       |
| M7                                     | mm       |    | 41.1                       | 54.5                       | 62.9                       | 80.9                       |
| M8                                     | mm       |    | 8.3                        | 4.8                        | 4.9                        | 9.4                        |
| M9                                     | mm       |    | 42.7                       | 55.3                       | 69.8                       | 89.5                       |
| M10                                    | mm       |    | 5                          | 5                          | 5                          | 8                          |
| M11                                    | mm       |    | 34                         | 34                         | 52                         | 60                         |
| P                                      | mm       |    | 4                          | 4                          | 4                          | 5                          |
| P1                                     | mm       |    | 4                          | 4                          | 6                          | 6                          |
| Q                                      | mm       |    | 15                         | 15                         | 18                         | 20                         |
| Min. / max. (long stroke)              | R max    | mm | 25.6 / 31.6                | 25.6 / 31.6                | 44.8 / 53.2                | 54.5 / 64.7                |
| Min. / max. (normal stroke)            | R max    | mm | 25.4 / 28                  | 25.4 / 28                  | 45 / 48                    | 54.5 / 58.7                |
| Min. / max. (fixed jaw)                | R max    | mm | 25.6 / 31.6                | 25.6 / 31.6                | 44.8 / 53.2                | 54.5 / 64.7                |
| Min. / max. (long stroke)              | R1       | mm | 57.5 / 63.5                | 64.5 / 70.5                | 82.5 / 90.9                | 102.5 / 112.7              |
| Min. / max. (normal stroke)            | R1       | mm | 57.4 / 60                  | 64.4 / 67                  | 82.5 / 85.5                | 102.8 / 107                |
| Min. / max. (fixed jaw)                | R1       | mm | 57.5 / 63.5                | 64.5 / 70.5                | 82.5 / 90.9                | 102.5 / 112.7              |
| Min. / max. (long stroke)              | R2       | mm | 20 / 32                    | 20 / 32                    | 26 / 42.8                  | 30 / 50.4                  |
| Min. / max. (normal stroke)            | R2       | mm | 19.8 / 25                  | 19.8 / 25                  | 26 / 32                    | 30.6 / 39                  |
| Min. / max. (fixed jaw)                | R2       | mm | 20 / 26                    | 20 / 26                    | 26 / 34.4                  | 30 / 40.2                  |
| S                                      | mm       |    | 15                         | 15                         | 18                         | 20                         |
| Long stroke                            | U        | mm | 6                          | 6                          | 8.4                        | 10.2                       |
| Normal stroke                          | U        | mm | 2.6                        | 2.6                        | 3                          | 4.2                        |
| Fixed jaw                              | U        | mm | 6                          | 6                          | 8.4                        | 10.2                       |
| a                                      | mm       |    | 35                         | 35                         | 60                         | 80                         |
| b                                      | mm       |    | 7                          | 7                          | 10                         | 10                         |
| Serration                              | d        | mm | 1,5x60°                    | 1,5x60°                    | 1,5x60°                    | 1,5x60°                    |
| Min. / max. (long stroke) (fixed jaw)  | e        | mm | 14.6/20.6                  | 14.6/20.6                  | 18.8/27.2                  | 28.5/38.7                  |
| Min. / max. (normal stroke)            | e        | mm | 14.4/17                    | 14.4/17                    | 19/22                      | 28.5/32.7                  |
| f                                      | mm       |    | 1.8                        | 1.8                        | 1.8                        | 2                          |
| g                                      | mm       |    | 2.7                        | 2.7                        | 3.2                        | 4                          |
| h                                      | mm       |    | 16                         | 16                         | 25                         | 35                         |
| m                                      | mm       |    | M6 x 10                    | M6 x 10                    | M8 x 12                    | M8 x 12                    |
| n (g6)                                 | mm       |    | 20                         | 20                         | 32                         | 40                         |
| o (H7)                                 | mm       |    | 6                          | 6                          | 8                          | 8                          |
| Lubrication fitting                    | p1       | mm | M4                         | M4                         | M4                         | M4                         |
|                                        | p2 (øH7) | mm | -                          | -                          | 8 x 14                     | 8 x 14                     |
| Air stroke control or air purge        | p3       | mm | M4                         | M4                         | M4                         | M4                         |
| Vise closed                            | p4       | mm | M4                         | M4                         | M4                         | M4                         |
| Vise open                              | p5       | mm | M4                         | M4                         | M4                         | M4                         |
| Air sensing connection                 | p9       | mm | M4                         | M4                         | M4                         | M4                         |
| Air sensing outlet (under front plate) | p10      | mm | M4                         | M4                         | M4                         | M4                         |

**PTH-N**

NORMAL STROKE

**PTH-L**

LONG STROKE

**Protected hydraulic twin vise**
**proofline® series**  
 fully sealed – low maintenance
**Application/customer benefits**

- Protected against contamination of swarf and chips, fully sealed (proofline)
- Compact design
- Highest repeatability
- Highest rigidity
- Linear pressure adjustment

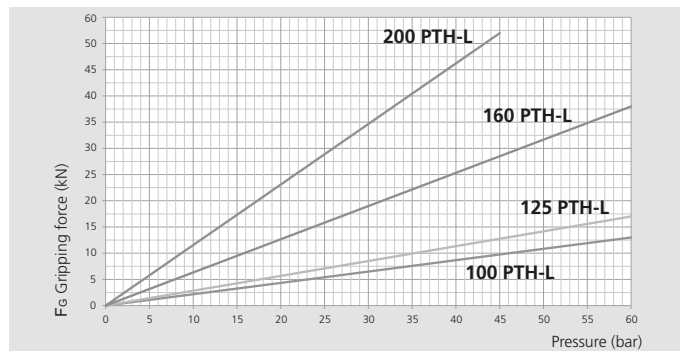
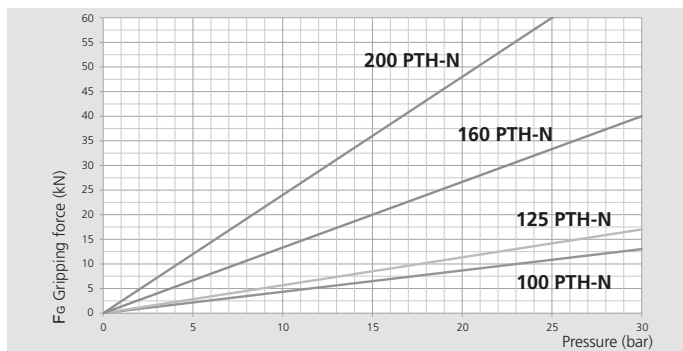
**Technical features**

- Housing and functional parts hardened for high precision and long life
- **proofline®** = fully sealed - low maintenance
- Air purge
- Ready for central grease lubrication
- Master jaws with both Tongue & Groove and fine serration 1.5 mm x 60°
- O.D. and I.D. clamping
- Pneumatic jaw stroke control valve (optional)
- Air sensing
- Stroke control via proximity switches (optional)

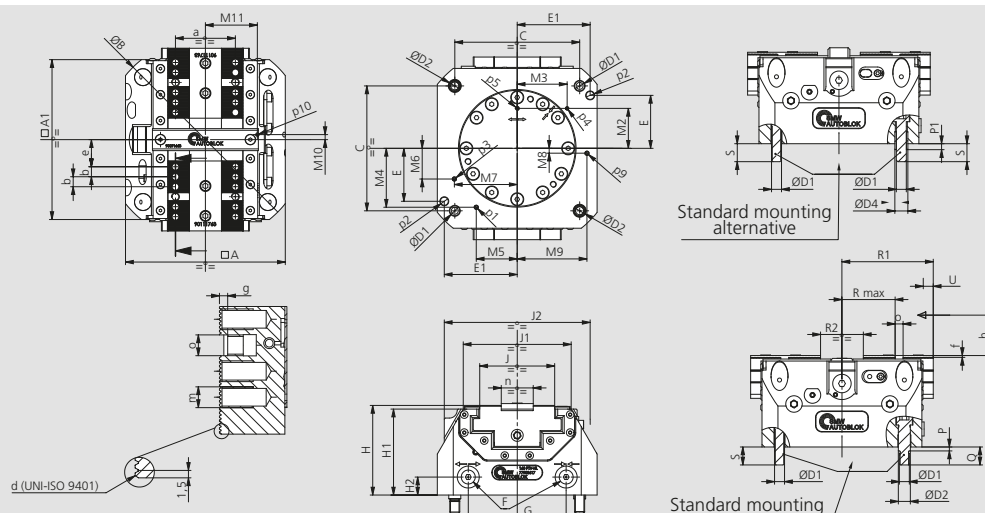
**Standard equipment**

Self-centering vise without top jaws

All bolts and centering bushings included

**Actual gripping force diagrams****Technical data**

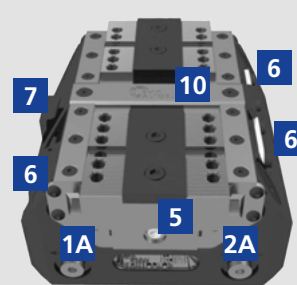
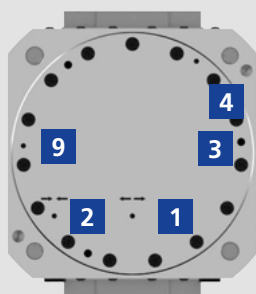
| Type      | Id. No.  | Type stroke | Clamping force max.<br>kN | Stroke per jaw<br>mm | Piston area<br>cm² | Operating pressure max.<br>bar | Repeatability<br>mm | Weight<br>kg |
|-----------|----------|-------------|---------------------------|----------------------|--------------------|--------------------------------|---------------------|--------------|
| 100 PTH-N | 77905711 | Normal      | 13                        | 2.6                  | 15                 | 30                             | 0.01                | 6            |
| 100 PTH-L | 77905811 | Long        | 13                        | 6                    | 15                 | 60                             | 0.01                | 6            |
| 125 PTH-N | 77905712 | Normal      | 17                        | 2.6                  | 20                 | 30                             | 0.01                | 8            |
| 125 PTH-L | 77905812 | Long        | 17                        | 6                    | 20                 | 60                             | 0.01                | 8            |
| 160 PTH-N | 77905717 | Normal      | 40                        | 3                    | 45                 | 30                             | 0.01                | 15           |
| 160 PTH-L | 77905817 | Long        | 38                        | 8.4                  | 45                 | 60                             | 0.01                | 15           |
| 200 PTH-N | 77905721 | Normal      | 60                        | 4.2                  | 68                 | 25                             | 0.02                | 25           |
| 200 PTH-L | 77905821 | Long        | 52                        | 10.2                 | 68                 | 45                             | 0.02                | 25           |



| SMW-AUTOBLOK Type                      |                  |    | PTH-N   PTH-L 100 | PTH-N   PTH-L 125 | PTH-N   PTH-L 160 | PTH-N   PTH-L 200 |
|----------------------------------------|------------------|----|-------------------|-------------------|-------------------|-------------------|
|                                        | <b>A</b>         | mm | 100               | 125               | 160               | 200               |
|                                        | <b>A1</b>        | mm | 110               | 125               | 160               | 200               |
|                                        | <b>B (Ø)</b>     | mm | 136               | 162               | 205               | 255               |
|                                        | <b>C</b>         | mm | 80                | 100               | 125               | 160               |
|                                        | <b>D1 (Ø)</b>    | mm | M8                | M8                | M10               | M12               |
|                                        | <b>D2 (Øf7)</b>  | mm | 10                | 10                | 12                | 14                |
|                                        | <b>D4 (Øjs7)</b> | mm | 11                | 11                | 13                | 16                |
|                                        | <b>E</b>         | mm | 32                | /                 | 53                | 73                |
|                                        | <b>E1</b>        | mm | 45                | /                 | 73                | 92                |
|                                        | <b>F</b>         | mm | G1/8"             | G1/8"             | G1/8"             | G1/8"             |
|                                        | <b>G</b>         | mm | 55                | 55                | 98                | 128               |
|                                        | <b>H</b>         | mm | 75.5              | 80.5              | 89.7              | 97                |
|                                        | <b>H1</b>        | mm | 72                | 77                | 86                | 93                |
|                                        | <b>H2</b>        | mm | 15                | 17                | 18                | 18                |
|                                        | <b>J</b>         | mm | 47                | 47                | 75                | 94                |
|                                        | <b>J1</b>        | mm | 82                | 100               | 108               | 144               |
|                                        | <b>J2</b>        | mm | 100               | 121               | 146               | 166               |
|                                        | <b>M2</b>        | mm | 32                | 32                | 40                | 50                |
|                                        | <b>M3</b>        | mm | 29.5              | 29.5              | 50                | 65                |
|                                        | <b>M4</b>        | mm | 34.2              | 40.5              | 59                | 72.8              |
|                                        | <b>M5</b>        | mm | 27.7              | 38.5              | 41                | 52.9              |
|                                        | <b>M6</b>        | mm | 14.2              | 10.6              | 30.7              | 39.5              |
|                                        | <b>M7</b>        | mm | 41.1              | 54.5              | 62.9              | 80.9              |
|                                        | <b>M8</b>        | mm | 8.3               | 4.8               | 4.9               | 9.4               |
|                                        | <b>M9</b>        | mm | 42.7              | 55.3              | 69.8              | 89.5              |
|                                        | <b>M10</b>       | mm | 5                 | 5                 | 5                 | 8                 |
|                                        | <b>M11</b>       | mm | 34                | 34                | 52                | 60                |
|                                        | <b>P</b>         | mm | 4                 | 4                 | 4                 | 5                 |
|                                        | <b>P1</b>        | mm | 4                 | 4                 | 6                 | 6                 |
|                                        | <b>Q</b>         | mm | 15                | 15                | 18                | 20                |
| Min. / max. (long stroke)              | <b>R max</b>     | mm | 25.6 / 31.6       | 25.6 / 31.6       | 44.8 / 53.2       | 54.5 / 64.7       |
| Min. / max. (normal stroke)            | <b>R max</b>     | mm | 25.4 / 28         | 25.4 / 28         | 45 / 48           | 54.5 / 58.7       |
| Min. / max. (long stroke)              | <b>R1</b>        | mm | 57.5 / 63.5       | 64.5 / 70.5       | 82.5 / 90.9       | 102.5 / 112.7     |
| Min. / max. (normal stroke)            | <b>R1</b>        | mm | 57.4 / 60         | 64.4 / 67         | 82.5 / 85.5       | 102.8 / 107       |
| Min. / max. (long stroke)              | <b>R2</b>        | mm | 20 / 32           | 20 / 32           | 26 / 42.8         | 30 / 50.4         |
| Min. / max. (normal stroke)            | <b>R2</b>        | mm | 19.8 / 25         | 19.8 / 25         | 26 / 32           | 30.6 / 39         |
|                                        | <b>S</b>         | mm | 15                | 15                | 18                | 20                |
| Long stroke                            | <b>U</b>         | mm | 6                 | 6                 | 8.4               | 10.2              |
| Normal stroke                          | <b>U</b>         | mm | 2.6               | 2.6               | 3                 | 4.2               |
|                                        | <b>a</b>         | mm | 35                | 35                | 60                | 80                |
|                                        | <b>b</b>         | mm | 7                 | 7                 | 10                | 10                |
| Serration                              | <b>d</b>         | mm | 1.5 x 60°         | 1.5 x 60°         | 1.5 x 60°         | 1.5 x 60°         |
| Min. / max. (long stroke)              | <b>e</b>         | mm | 14.6 / 20.6       | 14.6 / 20.6       | 18.8 / 27.2       | 28.5 / 38.7       |
| Min. / max. (normal stroke)            | <b>e</b>         | mm | 14.4 / 17         | 14.4 / 17         | 19/22             | 28.5 / 32.7       |
|                                        | <b>f</b>         | mm | 1.8               | 1.8               | 1.8               | 2                 |
|                                        | <b>g</b>         | mm | 2.7               | 2.7               | 3.2               | 4                 |
|                                        | <b>h</b>         | mm | 16                | 16                | 25                | 35                |
|                                        | <b>m</b>         | mm | M6 x 10           | M6 x 10           | M8 x 12           | M8x 12            |
|                                        | <b>n (g6)</b>    | mm | 20                | 20                | 32                | 40                |
|                                        | <b>o (H7)</b>    | mm | 6                 | 6                 | 8                 | 8                 |
| Lubrication fitting                    | <b>p1</b>        | mm | M4                | M4                | M5                | M5                |
|                                        | <b>p2 (øH7)</b>  | mm | /                 | /                 | 8 x 14            | 8 x 14            |
| Air stroke control or air purge        | <b>p3</b>        | mm | M4                | M4                | M5                | M5                |
| Vise closed                            | <b>p4</b>        | mm | M4                | M4                | M4                | M4                |
| Vise open                              | <b>p5</b>        | mm | M4                | M4                | M4                | M4                |
| Air sensing connection                 | <b>p9</b>        | mm | M4                | M4                | M5                | M5                |
| Air sensing outlet (under front plate) | <b>p10</b>       | mm | M4                | M4                | M4                | M4                |

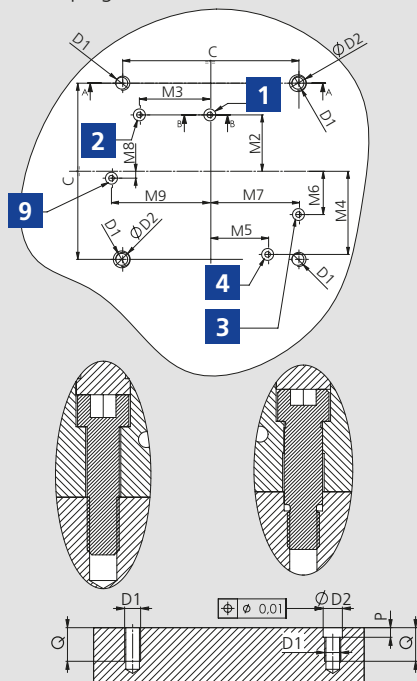


### ■ Mounting instruction



#### Solution 1 standard

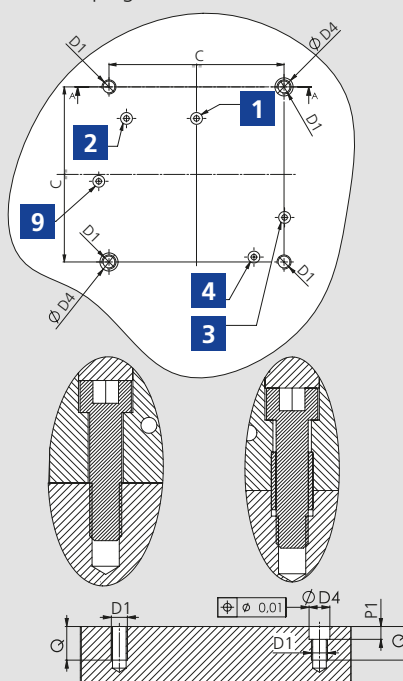
± 0,03 mm to clamping center



All bolts and centering bushings included

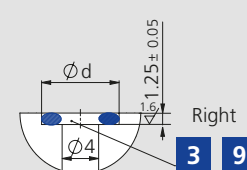
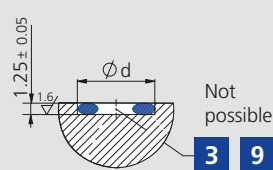
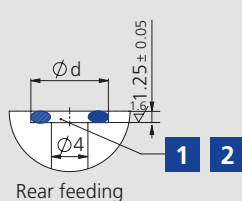
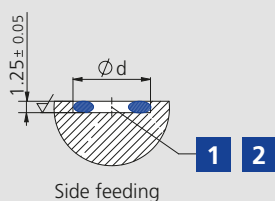
#### Solution 2 standard

± 0,025 mm to clamping center



All bolts and centering bushings included

#### Feeding seats



#### Functional Overview

|          |                                        |           |                     |          |                                    |           |                                        |
|----------|----------------------------------------|-----------|---------------------|----------|------------------------------------|-----------|----------------------------------------|
| <b>1</b> | Open-rear feeding                      | <b>1A</b> | Open-side feeding   | <b>5</b> | Lubrication fitting                | <b>9</b>  | Air sensing connection (only bottom)   |
| <b>2</b> | Closed-rear feeding                    | <b>2A</b> | Closed-side Feeding | <b>6</b> | Proximity switch seats             | <b>10</b> | Air sensing outlet (under front plate) |
| <b>3</b> | Pneumatic stroke control or air purge* | <b>4</b>  | Central lubrication | <b>7</b> | Pneumatic jaw stroke control valve |           |                                        |

\* The air purge can be used only without the valve.

| Type   | C   | D1  | D2 H7 | D4 H7 | M2 | M3   | M4   | M5   | M6   | M7   | M8  | M9   | P | P1 | Q  | Ød  | OR     |
|--------|-----|-----|-------|-------|----|------|------|------|------|------|-----|------|---|----|----|-----|--------|
| PT 100 | 80  | M8  | 10    | 11    | 32 | 29.5 | 34.2 | 27.7 | 14.2 | 41.1 | 7   | 43   | 6 | 6  | 18 | 8   | OR2018 |
| PT 125 | 100 | M8  | 10    | 11    | 32 | 29.5 | 40.5 | 38.5 | 9.6  | 54.6 | 4.8 | 55.3 | 6 | 6  | 18 | 8   | OR2018 |
| PT 160 | 125 | M10 | 12    | 13    | 40 | 50   | 59   | 41   | 30.7 | 62.9 | 4.9 | 69.8 | 6 | 7  | 21 | 8   | OR2018 |
| PT 200 | 160 | M12 | 14    | 16    | 50 | 65   | 72.8 | 52.9 | 39.5 | 80.9 | 9.4 | 89.5 | 7 | 7  | 24 | 8,8 | OR2021 |

- Normal stroke
- Central clamping



**proofline® series**  
fully sealed – low maintenance

### Application/customer benefits

- Industry 4.0 Product: Ideal for automation
- Protected against contamination of swarf and chips, fully sealed (proofline)
- Compact design
- Highest repeatability
- Highest rigidity
- Linear pressure adjustment

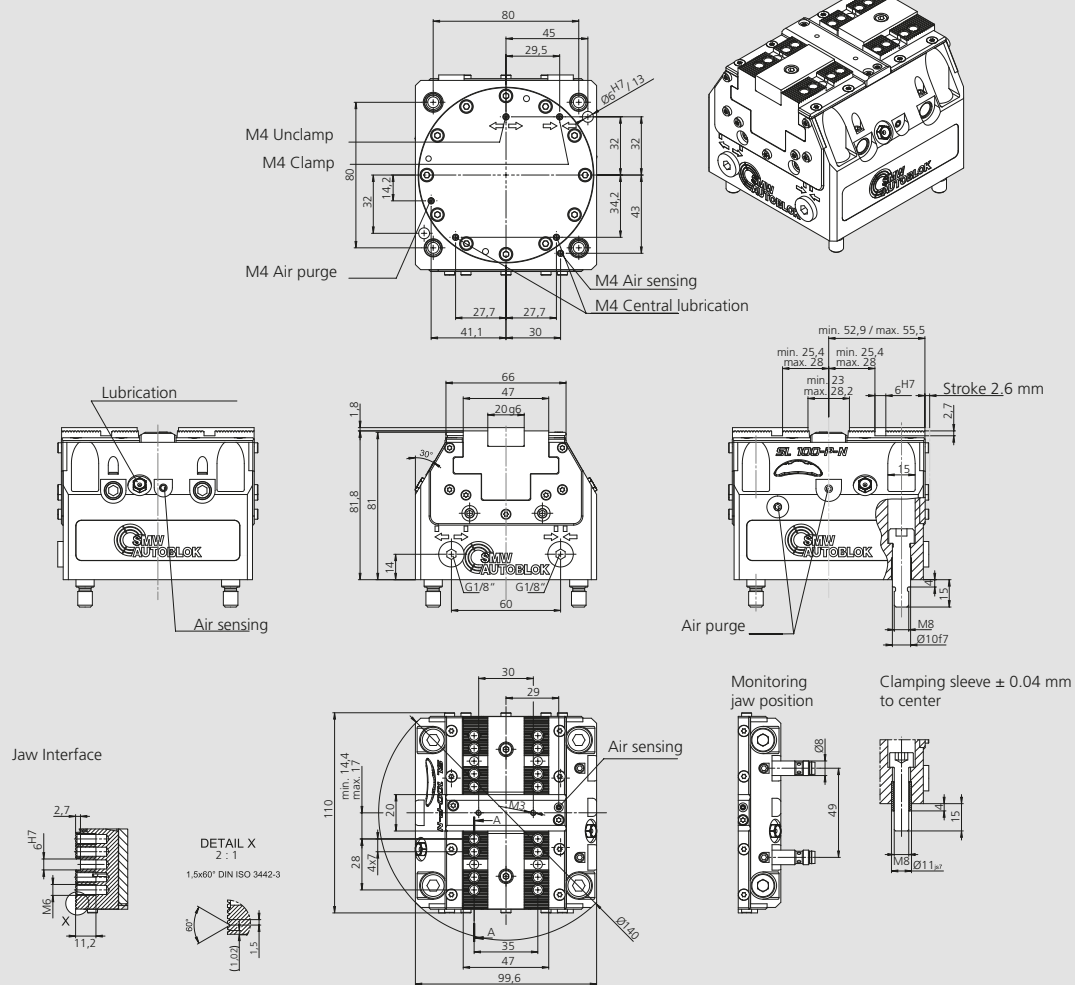
## Technical features

- Housing and functional parts hardened for high precision and long life
- **proofline®** = fully sealed - low maintenance
- Air purge
- Ready for central grease lubrication
- Master jaws with both Tongue & Groove and fine serration 1.5 mm x 60°
- Air sensing
- Stroke control via proximity switches (optional)

## Standard equipment

## Self-centering vise without top jaws

All bolts and centering bushings included



## Order review

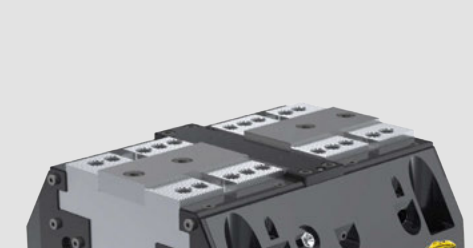
| Type       | Id. No. | Max. Clamping force kN | Stroke per jaw mm | Max. operating pressure bar | Repeatability mm | Weight kg |
|------------|---------|------------------------|-------------------|-----------------------------|------------------|-----------|
| SL 100-P-N | 461129  | 15                     | 2.6               | 9                           | 0.01             | 4.8       |

|                   |                                                                                               |
|-------------------|-----------------------------------------------------------------------------------------------|
| <b>SL 160-P-N</b> | <b>Protected pneumatic twin vise</b>                                                          |
|                   | <ul style="list-style-type: none"> <li>■ Normal stroke</li> <li>■ Central clamping</li> </ul> |

|                   |                                                                                               |
|-------------------|-----------------------------------------------------------------------------------------------|
| <b>SL 160-P-N</b> | <b>Protected pneumatic twin vise</b>                                                          |
|                   | <ul style="list-style-type: none"> <li>■ Normal stroke</li> <li>■ Central clamping</li> </ul> |

- |                   |                                                                                               |
|-------------------|-----------------------------------------------------------------------------------------------|
| <b>SL 160-P-N</b> | <b>Protected pneumatic twin vise</b>                                                          |
|                   | <ul style="list-style-type: none"> <li>■ Normal stroke</li> <li>■ Central clamping</li> </ul> |





## Application/customer benefits

- Industry 4.0 Product: Ideal for automation
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- Compact design
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- Highest rigidity
- Linear pressure adjustment

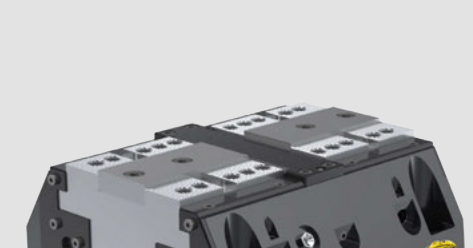
## Technical features

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- **proofline®** = fully sealed - low maintenance
- Air purge
- Ready for central grease lubrication
- Master jaws with both Tongue & Groove and fine serration 1.5 mm x 60°
- Air sensing
- Stroke control via proximity switches (optional)

## Standard equipment

Self-centering vise without top jaws  
All bolts and centering bushings included



- 

## Application/customer benefits

  - Industry 4.0 Product: Ideal for automation
  - Protected against contamination of swarf and chips, fully sealed (proofline)
  - Compact design
  - Highest repeatability
  - Highest rigidity
  - Linear pressure adjustment

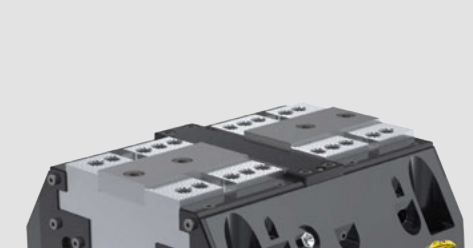
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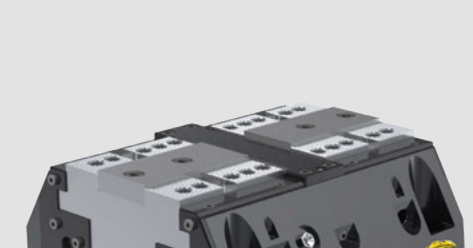
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- 

## Application/customer benefits

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  - Protected against contamination of swarf and chips, fully sealed (proofline)
  - Compact design
  - Highest repeatability
  - Highest rigidity
  - Linear pressure adjustment

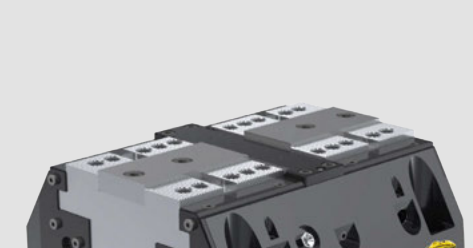
## Technical features

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  - **proofline®** = fully sealed - low maintenance
  - Air purge
  - Ready for central grease lubrication
  - Master jaws with both Tongue & Groove and fine serration 1.5 mm x 60°
  - Air sensing
  - Stroke control via proximity switches (optional)

## Standard equipment

Self-centering vise without top jaws  
All bolts and centering bushings included





## Application/customer benefits

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- Protected against contamination of swarf and chips, fully sealed (proofline)
- Compact design
- Highest repeatability
- Highest rigidity
- Linear pressure adjustment

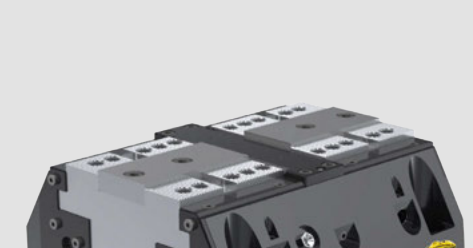
## Technical features

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All bolts and centering bushings included





## Application/customer benefits

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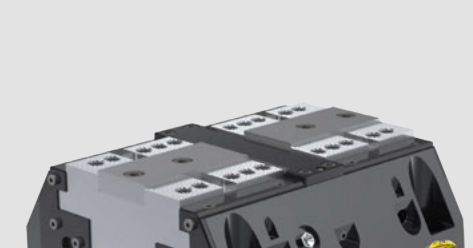
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- Master jaws with both Tongue & Groove and fine serration 1.5 mm x 60°
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Self-centering vise without top jaws  
All bolts and centering bushings included





## Application/customer benefits

- Industry 4.0 Product: Ideal for automation
- Protected against contamination of swarf and chips, fully sealed (proofline)
- Compact design
- Highest repeatability
- Highest rigidity
- Linear pressure adjustment

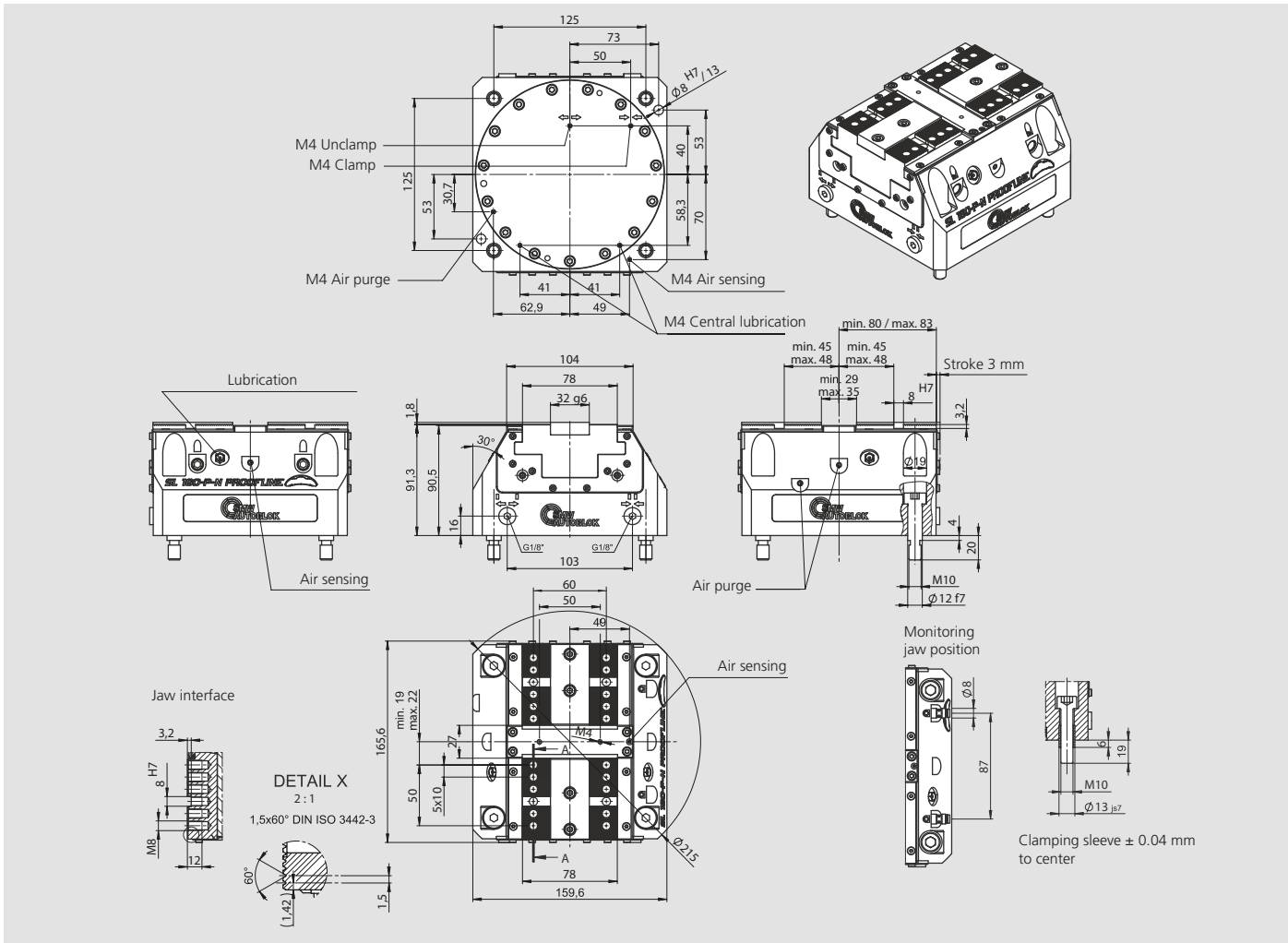
## Technical features

- Housing and functional parts hardened for high precision and long life
- **proofline®** = fully sealed - low maintenance
- Air purge
- Ready for central grease lubrication
- Master jaws with both Tongue & Groove and fine serration 1.5 mm x 60°
- Air sensing
- Stroke control via proximity switches (optional)

## Standard equipment

Self-centering vise without top jaws  
All bolts and centering bushings included





| Order review |         |                        |                   |                             |                  |           |
|--------------|---------|------------------------|-------------------|-----------------------------|------------------|-----------|
| Type         | Id. No. | Max. clamping force kN | Stroke per jaw mm | Max. operating pressure bar | Repeatability mm | Weight kg |
| SL 160-P-N   | 461130  | 42                     | 3                 | 9                           | 0.01             | 13        |

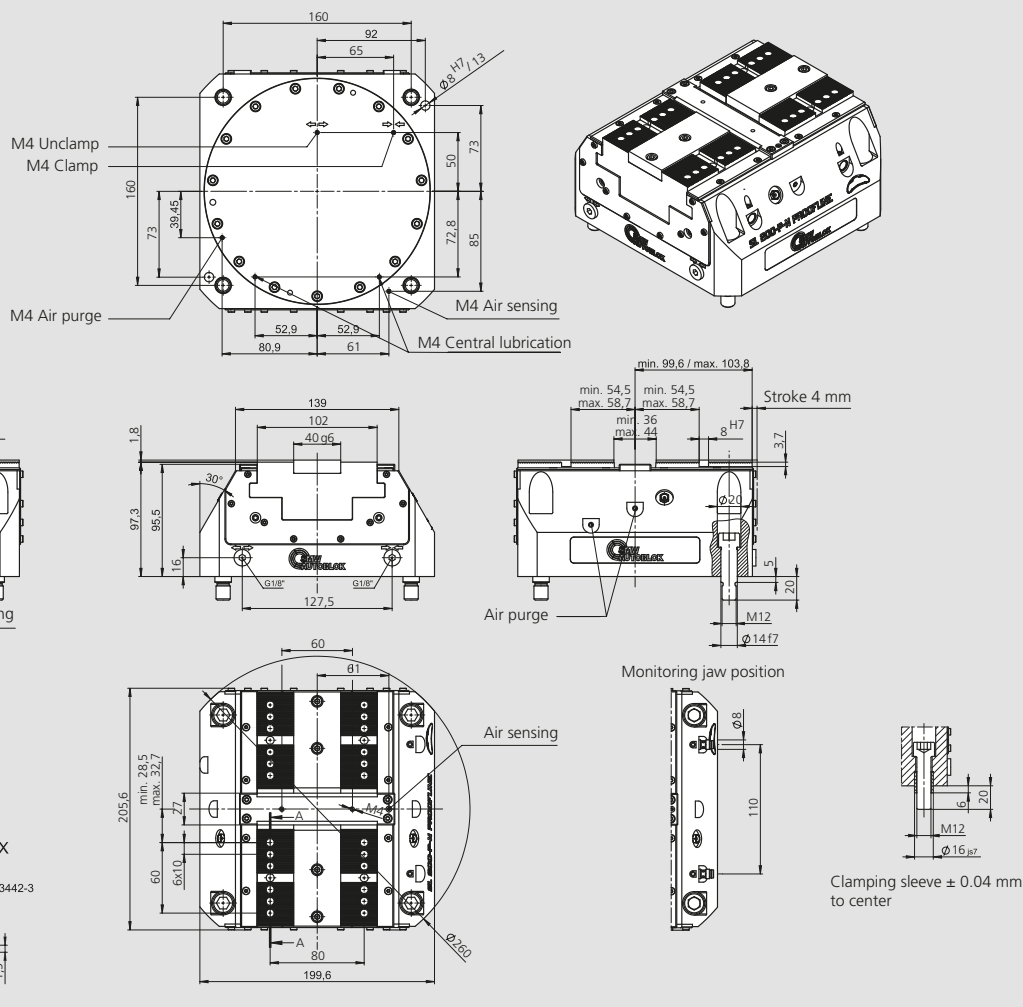
| Order review |         |                        |                   |                             |                  |           |
|--------------|---------|------------------------|-------------------|-----------------------------|------------------|-----------|
| Type         | Id. No. | Max. clamping force kN | Stroke per jaw mm | Max. operating pressure bar | Repeatability mm | Weight kg |
| SL 160-P-N   | 461130  | 42                     | 3                 | 9                           | 0.01             | 13        |

- 

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- Air sensing
- Stroke control via proximity switches (optional)

Self-centering vise without top jaws  
All bolts and centering bushings included

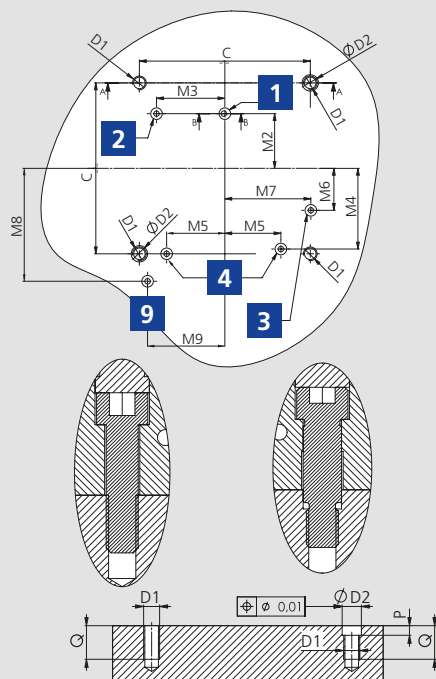


| Type       | Id. No. | Max. clamping force kN | Stroke per jaw mm | Max. operating pressure bar | Repeatability mm | Weight kg |
|------------|---------|------------------------|-------------------|-----------------------------|------------------|-----------|
| SL 200-P-N | 461131  | 54                     | 4                 | 7                           | 0.02             | 25.4      |

## ■ Mounting instruction

**Solution 1 standard**

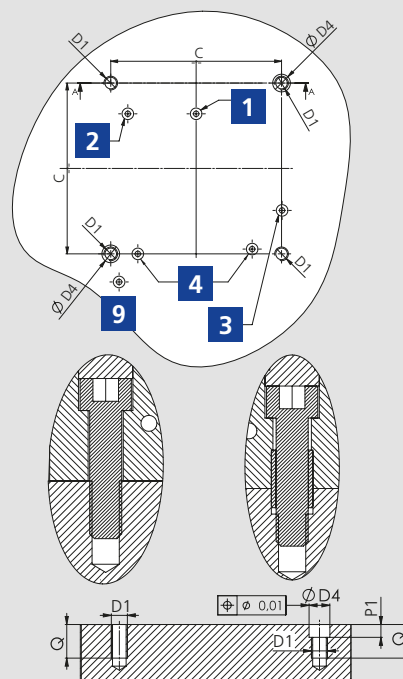
± 0,03 mm to clamping center



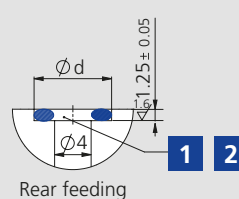
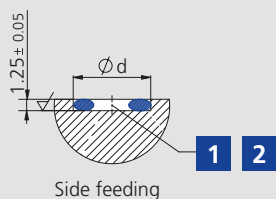
All bolts and centering bushings included

**Solution 2 standard**

± 0,025 mm to clamping center



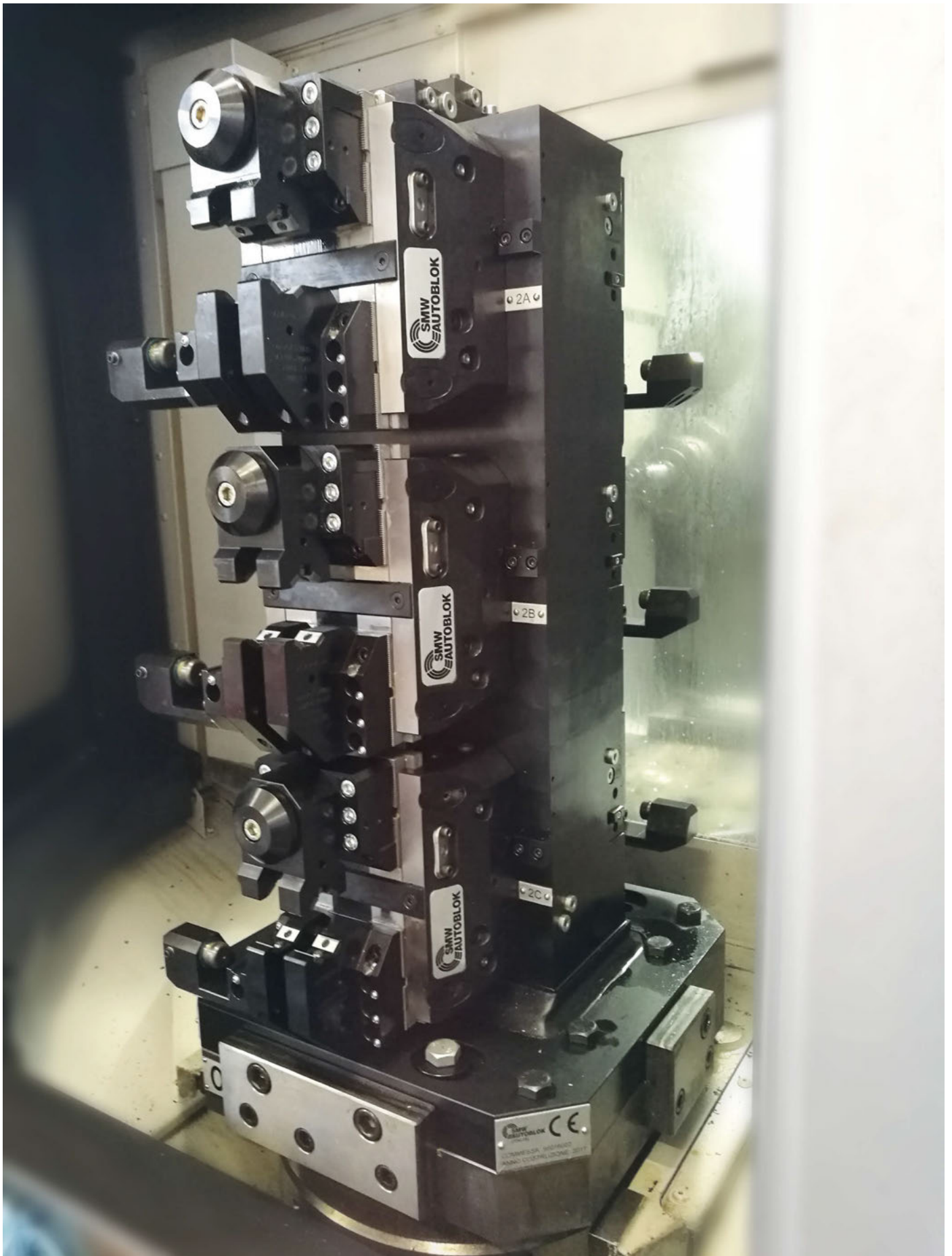
All bolts and centering bushings included

**Feeding seats****Functional Overview**

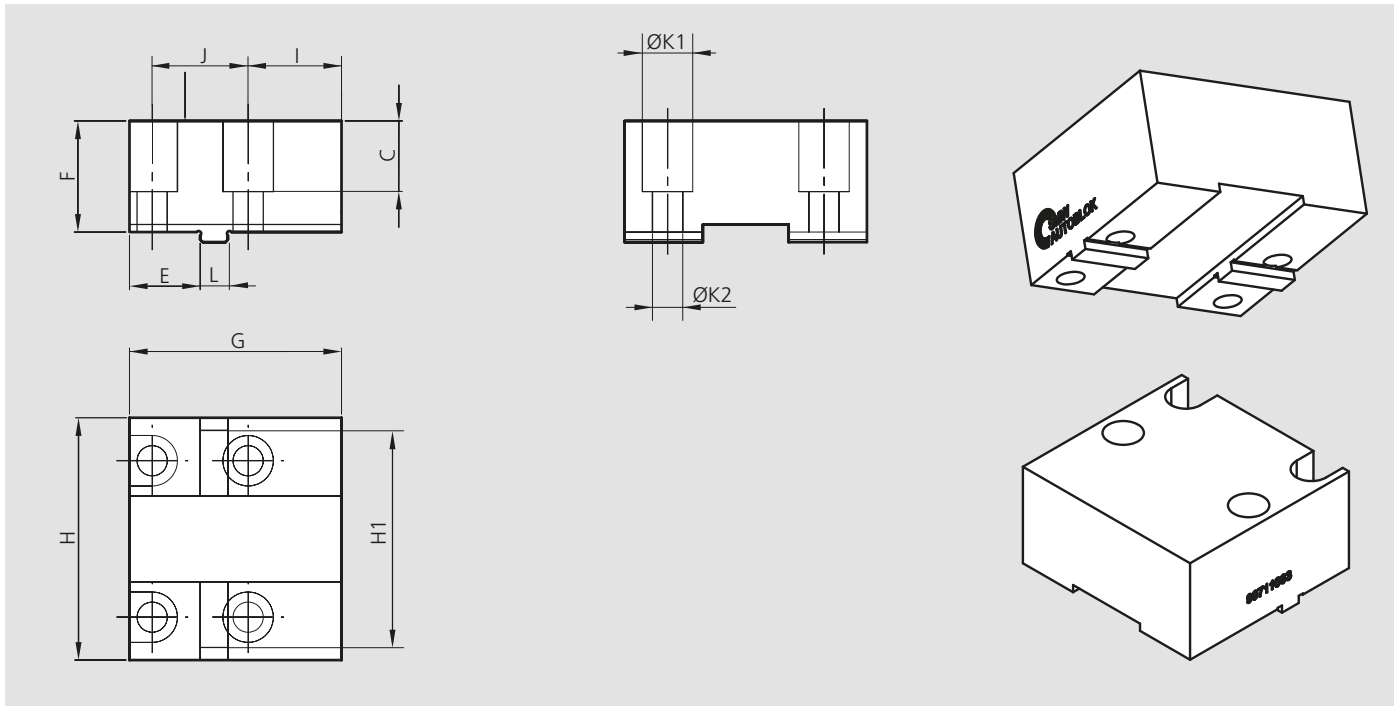
|          |                     |           |                     |          |                        |           |                                        |
|----------|---------------------|-----------|---------------------|----------|------------------------|-----------|----------------------------------------|
| <b>1</b> | Open-rear feeding   | <b>1A</b> | Open-side feeding   | <b>5</b> | Lubrication fitting    | <b>10</b> | Air sensing outlet (under front plate) |
| <b>2</b> | Closed-rear feeding | <b>2A</b> | Closed-side Feeding | <b>6</b> | Proximity switch seats |           |                                        |
| <b>3</b> | Air purge           | <b>4</b>  | Central lubrication | <b>9</b> | Air sensing connection |           |                                        |

| Type   | C   | D1  | D2 H7 | D4 H7 | M2 | M3   | M4   | M5   | M6   | M7   | M8 | M9 | P | P1 | Q  | Ød  | OR     |
|--------|-----|-----|-------|-------|----|------|------|------|------|------|----|----|---|----|----|-----|--------|
| SL 100 | 80  | M8  | 10    | 11    | 32 | 29.5 | 34.2 | 27.7 | 14.2 | 41.1 | 43 | 30 | 6 | 6  | 18 | 8   | OR2018 |
| SL 160 | 125 | M10 | 12    | 13    | 40 | 50   | 58.3 | 41   | 30.7 | 62.9 | 70 | 49 | 6 | 7  | 21 | 8   | OR2018 |
| SL 200 | 160 | M12 | 14    | 16    | 50 | 65   | 72.8 | 52.9 | 39.5 | 80.9 | 85 | 61 | 7 | 7  | 24 | 8,8 | OR2021 |





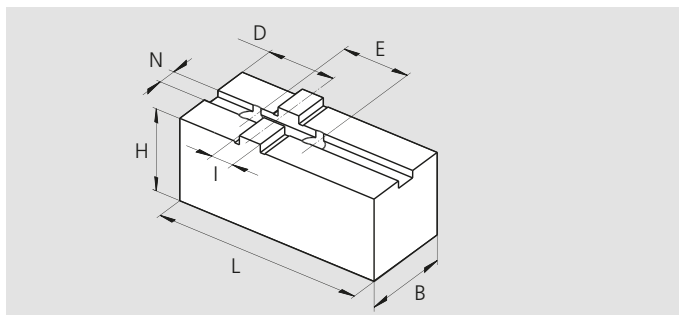
### Soft blank top jaws, tongue & groove



| Type             | Id. No.  | C<br>mm | E<br>mm | F<br>mm | G<br>mm | H<br>mm | H1<br>mm | I<br>mm | J<br>mm | K1<br>mm | K2<br>mm | L<br>mm | Clamping<br>range |
|------------------|----------|---------|---------|---------|---------|---------|----------|---------|---------|----------|----------|---------|-------------------|
| 100 TV / PT      | 90711063 | 20      | 18      | 27.5    | 49      | 54.5    | 45       | 21      | 21      | 11       | 7        | 6h7     | 0 - 70            |
| 125 STV-2 / PT   | 90711283 | 20      | 33      | 27.5    | 64      | 54.5    | 45       | 21      | 35      | 11       | 7        | 6h7     | 0 - 100           |
| 100 TV / PT / SL | 90721063 | 40      | 18      | 47.5    | 49      | 54.5    | 45       | 21      | 21      | 11       | 7        | 6h7     | 0 - 70            |
| 125 STV-2 / PT   | 90721283 | 40      | 33      | 47.5    | 64      | 54.5    | 45       | 21      | 35      | 11       | 7        | 6h7     | 0 - 100           |
| 160 TV / PT / SL | 90711663 | 27      | 27      | 37      | 79      | 79      | 74       | 38      | 30      | 14       | 9        | 8h7     | 0 - 120           |
| 180 STV-2 / PT   | 90711883 | 27      | 41      | 37      | 93      | 79      | 74       | 38      | 40      | 14       | 9        | 8h7     | 0 - 140           |
| 160 TV / PT / SL | 90721663 | 66.5    | 27      | 76.5    | 79      | 79      | 74       | 38      | 30      | 14       | 9        | 8h7     | 0 - 120           |
| 180 STV-2 / PT   | 90721883 | 66.5    | 41      | 76.5    | 93      | 79      | 74       | 38      | 40      | 14       | 9        | 8h7     | 0 - 140           |
| 200 TV / PT / SL | 90712063 | 37      | 37      | 47      | 98.5    | 109     | 92       | 47.5    | 40      | 14       | 9        | 8h7     | 0 - 150           |
| 200 TV / PT / SL | 90722063 | 76.5    | 37      | 86.5    | 98.5    | 109     | 92       | 47.5    | 40      | 14       | 9        | 8h7     | 0 - 150           |
| 225 STV-2        | 90712283 | 37      | 52      | 47      | 113.5   | 109     | 92       | 47.5    | 50      | 14       | 9        | 8h7     | 0 - 180           |
| 225 STV-2        | 90722283 | 76.5    | 52      | 86.5    | 113.5   | 109     | 92       | 47.5    | 50      | 14       | 9        | 8h7     | 0 - 180           |
| 250 TV           | 90712563 | 31      | 59      | 47      | 120     | 124     |          | 44      | 48      | 18       | 11       | 10h7    | 0 - 170           |
| 250 TV           | 90722563 | 81.5    | 59      | 97.5    | 120     | 124     |          | 44      | 48      | 18       | 11       | 10h7    | 0 - 170           |
| 315 TV           | 90713163 | 42      | 54      | 57      | 150     | 160     |          | 75      | 60      | 20       | 13.5     | 12h7    | on request        |
| 315 TV           | 90723163 | 87.5    | 54      | 102.5   | 150     | 160     |          | 75      | 60      | 20       | 13.5     | 12h7    | on request        |

Consisting of 1 piece of jaw

### Soft blank top jaws, tongue & groove, for STV-3



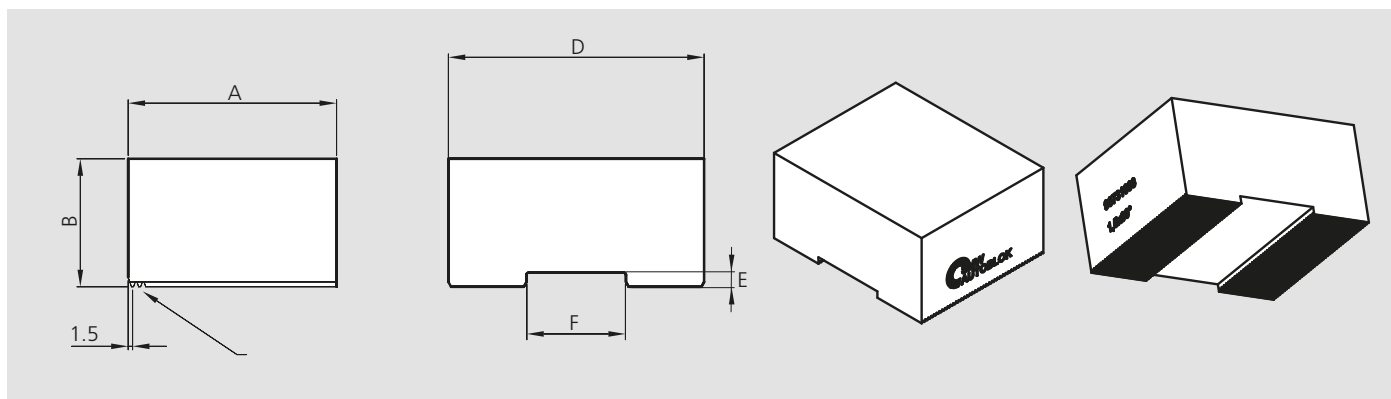
| Type      | Id. No.  | B<br>mm | H<br>mm | L<br>mm | N<br>mm | D<br>mm | E<br>mm | I<br>mm |
|-----------|----------|---------|---------|---------|---------|---------|---------|---------|
| 180 STV-3 | 12041660 | 30      | 32      | 80      | 7.94    | 30      | 38.1    | 12.68   |
| 225 STV-3 | 12042060 | 35      | 37      | 100     | 7.94    | 35      | 44.4    | 12.68   |

Consisting of 1 piece of jaw



■ Fine serration 1.5 mm x 60°

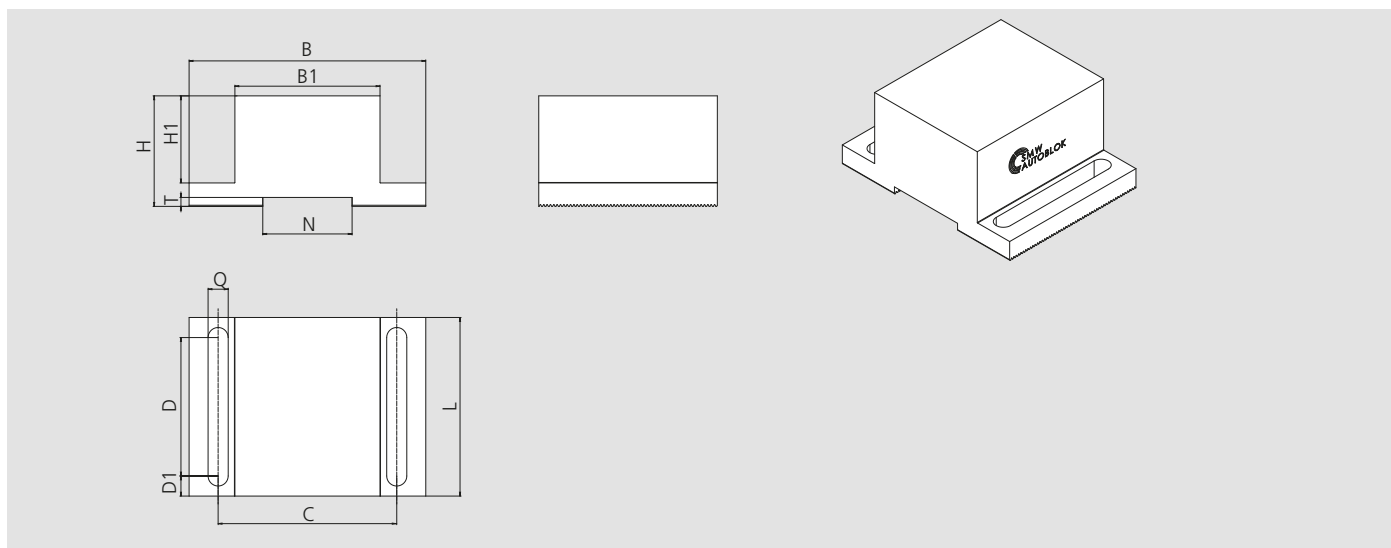
### Soft blank top jaws, fine serration 1.5 mm x 60°



| Type                       | Id. No.  | A<br>mm | B<br>mm | D<br>mm | E<br>mm | F<br>mm |
|----------------------------|----------|---------|---------|---------|---------|---------|
| 100-125 STV / TV / PT / SL | 90731063 | 42      | 29.5    | 54.5    | 2.5     | 20H8    |
| 100-125 STV / TV / PT / SL | 90741063 | 47      | 49.5    | 54.5    | 2.5     | 20H8    |
| 160-180 STV / TV / PT / SL | 90731663 | 66      | 39.5    | 79      | 3       | 32H8    |
| 160-180 STV / TV / PT / SL | 90741663 | 76      | 79      | 79      | 3       | 32H8    |
| 200-225 STV / TV / PT / SL | 90732063 | 87      | 49.5    | 109     | 4       | 40H8    |
| 200-225 STV / TV / PT / SL | 90742063 | 87      | 89      | 109     | 4       | 40H8    |
| 250 TV                     | 90732563 | 108     | 49.5    | 124     | 4       | 50H8    |
| 250 TV                     | 90742563 | 108     | 99      | 124     | 4       | 50H8    |
| 315 TV                     | 90733163 | 160     | 49.5    | 160     | 4       | 60H8    |
| 315 TV                     | 90743163 | 160     | 105     | 160     | 4       | 60H8    |

Consisting of 1 piece of jaw

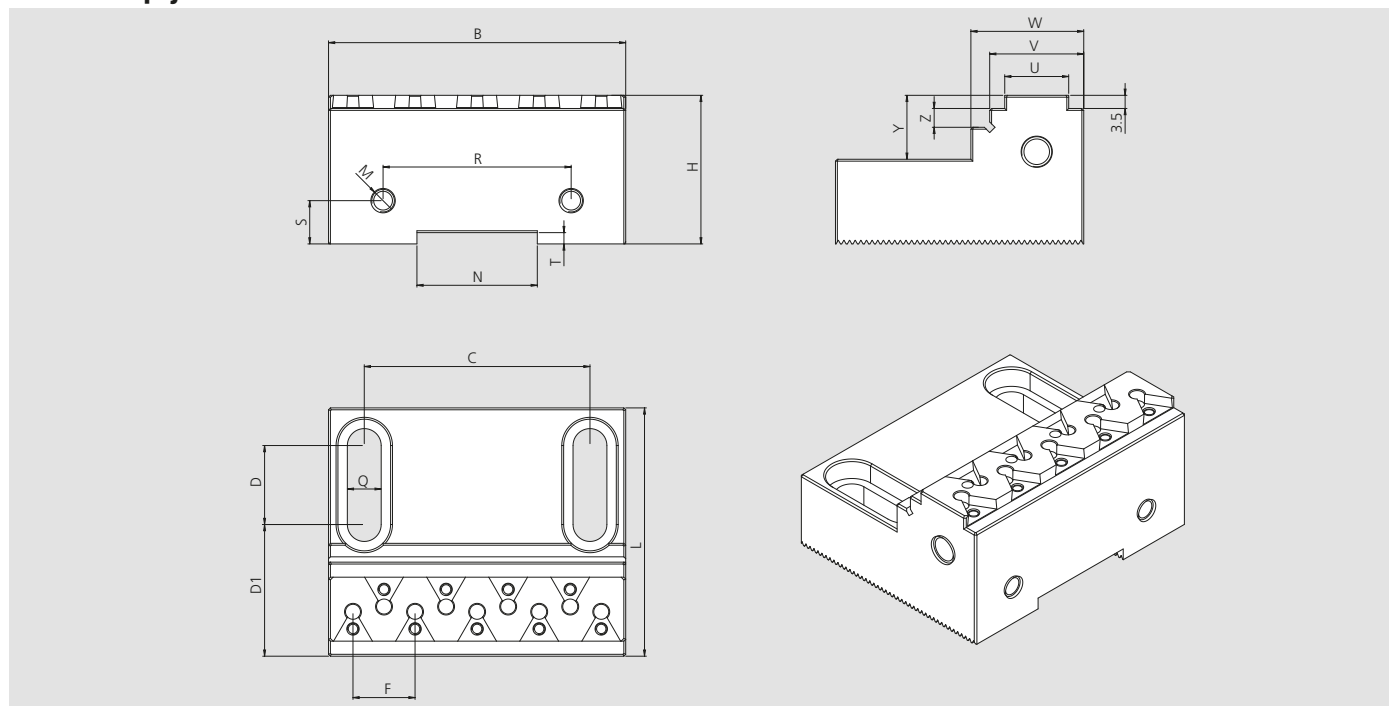
### Soft blank top jaws, narrow, fine serration 1.5 mm x 60°



| Type                       | Id. No.  | B<br>mm | B1<br>mm | C<br>mm | D<br>mm | D1<br>mm | H<br>mm | H1<br>mm | L<br>mm | N<br>mm | Q<br>mm | T<br>mm |
|----------------------------|----------|---------|----------|---------|---------|----------|---------|----------|---------|---------|---------|---------|
| 100-125 STV / TV / PT / SL | 90751063 | 54.5    | 24       | 35      | 30      | 6        | 29.5    | 21.5     | 42      | 20H8    | 6.6     | 2.5     |
| 160-180 STV / TV / PT / SL | 90751663 | 79      | 45       | 60      | 42      | 9        | 39.5    | 29       | 60      | 32H8    | 9       | 3       |
| 200-225 STV / TV / PT / SL | 90752063 | 109     | 65       | 80      | 62      | 9        | 49.5    | 39       | 80      | 40H8    | 9       | 4       |
| 250 TV                     | 90752563 | 124     | 72       | 90      | 62      | 14       | 49.5    | 33       | 90      | 50H8    | 11      | 4       |
| 315 TV                     | 90753163 | 160     | 90       | 120     | 82      | 12       | 49.5    | 31.5     | 106     | 60H8    | 13.5    | 4       |

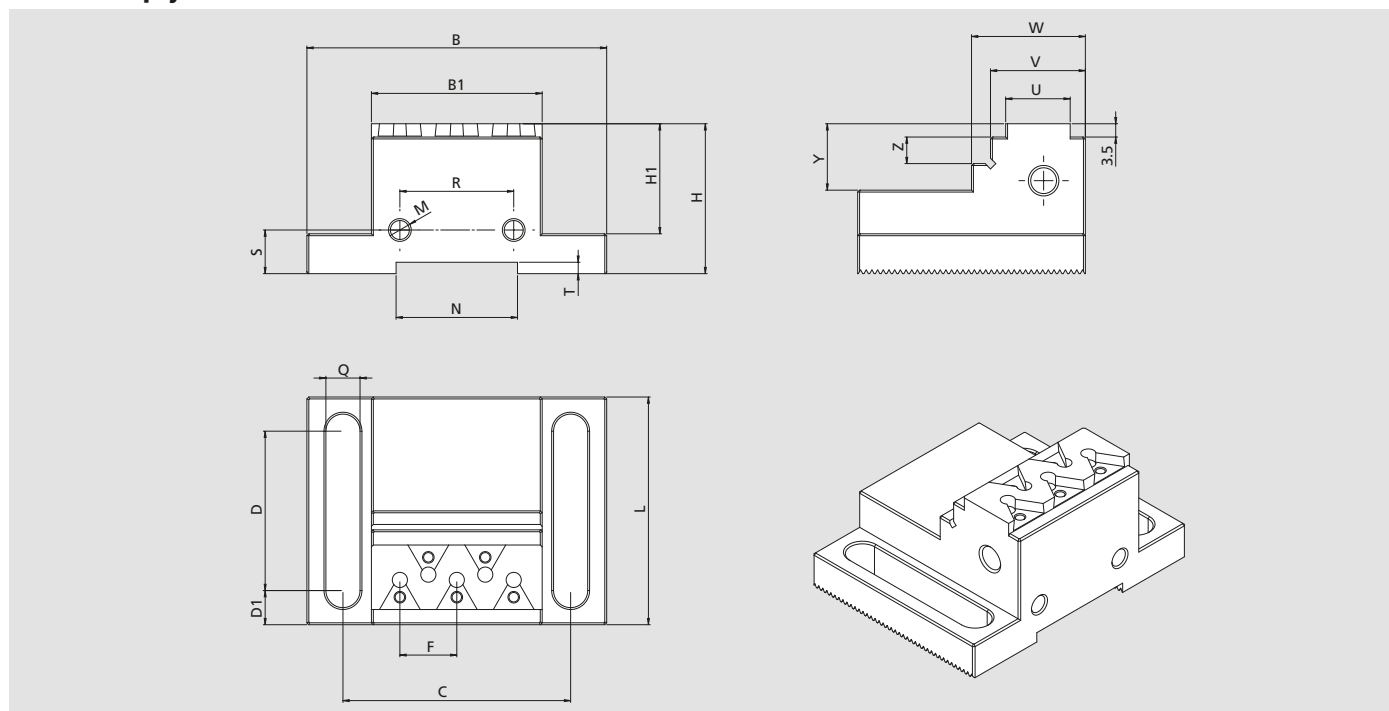
Consisting of 1 piece of jaw

## SinterGrip jaws



| Type                    | Id. No.  | B<br>mm | C<br>mm | D<br>mm | D1<br>mm | F<br>mm | H<br>mm | L<br>mm | M<br>mm | N<br>mm | Q<br>mm | R<br>mm | S<br>mm | T<br>mm | U<br>mm | V<br>mm | W<br>mm | Y<br>mm | Z<br>mm | Inserts<br>mm |
|-------------------------|----------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------------|
| 100-125 (S)TV / PT / SL | 58454119 | 54.5    | 35      | 7.4     | 28.3     | 16.5    | 29.5    | 42      | M6      | 20 H8   | 6.6     | 35      | 11.5    | 2.5     | 14      | 22      | 27      | 17      | 5       | 5             |
| 160-180 (S)TV / PT / SL | 58454129 | 79      | 60      | 21      | 35       | 16.5    | 39.5    | 66      | M6      | 32 H8   | 9       | 50      | 11.5    | 3       | 17      | 25      | 30      | 17      | 5       | 9             |
| 200-225 (S)TV / PT / SL | 58454139 | 109     | 80      | 21      | 39.5     | 18      | 49.5    | 87      | M6      | 40 H8   | 9       | 70      | 11.5    | 4       | 17      | 25      | 30      | 27.5    | 7       | 11            |
| 250 TV                  | 58454149 | 124     | 90      | 41      | 49.5     | 18      | 49.5    | 90      | M6      | 50 H8   | 9       | 70      | 11.5    | 4       | 25      | 33      | 38      | 27.5    | 7       | 14            |
| 315 TV                  | 58454159 | 160     | 120     | 66.5    | 66.75    | 18      | 49.5    | 160     | M6      | 60 H8   | 13.5    | 70      | 11.5    | 4       | 30      | 38      | 43      | 27.5    | 7       | 16            |

## SinterGrip jaws narrow



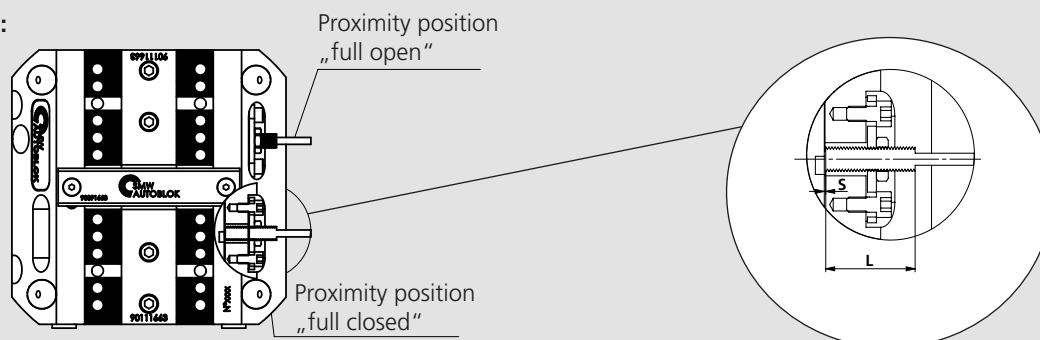
| Type                    | Id. No.  | B<br>mm | B1<br>mm | C<br>mm | D<br>mm | D1<br>mm | F<br>mm | H<br>mm | H1<br>mm | L<br>mm | M<br>mm | N<br>mm | Q<br>mm | R<br>mm | S<br>mm | T<br>mm | U<br>mm | V<br>mm | W<br>mm | Y<br>mm | Z<br>mm | Inserts<br>mm |
|-------------------------|----------|---------|----------|---------|---------|----------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------------|
| 160-180 (S)TV / PT / SL | 58454229 | 79      | 45       | 60      | 42      | 9        | 15      | 39.5    | 29       | 60      | M6      | 32 H8   | 9       | 30      | 11.5    | 3       | 17      | 25      | 30      | 17.5    | 7       | 5             |
| 200-225 (S)TV / PT / SL | 58454239 | 109     | 65       | 80      | 62      | 9        | 16.5    | 49.5    | 39       | 80      | M6      | 40 H8   | 9       | 40      | 11.5    | 4       | 17      | 25      | 30      | 17.5    | 7       | 7             |
| 250 TV                  | 58454249 | 124     | 72       | 90      | 12      | 14       | 16.5    | 49.5    | 33       | 90      | M6      | 50 H8   | 11      | 40      | 11.5    | 4       | 17      | 25      | 30      | 17.5    | 7       | 7             |
| 315 TV                  | 58454259 | 160     | 90       | 120     | 82      | 12       | 15      | 49.5    | 31       | 106     | M6      | 60 H8   | 13.5    | 40      | 11.5    | 4       | 17      | 25      | 30      | 17.5    | 7       | 11            |

All SinterGrip jaws: Consisting of 1 piece of jaw, key T9 and mounting screws (depending on numbers of seats for SinterGrip), without SinterGrip inserts

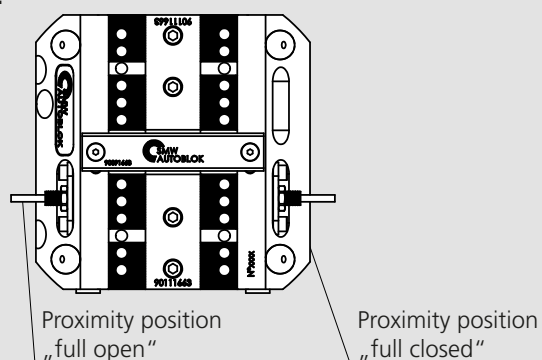
## ■ Proximities for stroke control

### Proximities for stroke control (optional)

#### 2 sliding jaws:



#### 1 fixed jaw:

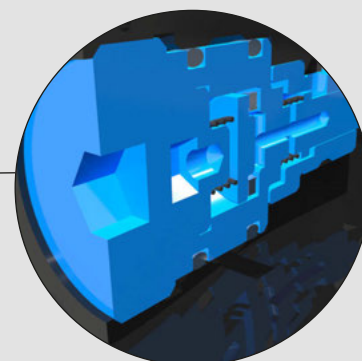


| Twin vise Type | Thread | Sensor Balluff *        | Omron alternative  | Telemecanique alternative | S   | L  |
|----------------|--------|-------------------------|--------------------|---------------------------|-----|----|
| 100 TV         | M5x0.5 | BES516-3005-G-E4-C-PU02 | E2EX1-B1           | XS1N05PA310               | 0.5 | 20 |
| 160-200-250 TV | M8x1   | BES516-324-G-E4-C-PU02  | E2AS08KS02-WP-B12M | XS508B1PAL2               | 1   | 30 |
| 315 TV         | M8x1   | BESE08EF-PSC20B-BP02    | E2AS08LS02-WP-B12M | XS508BLPAL2               | 1   | 40 |
| 125 STV-2      | M5x0.5 | BES516-3005-G-E4-C-PU02 | E2EX1-B1           | XS1N05PA310               | 0.5 | 20 |
| 180-225 STV-2  | M8x1   | BES516-324-G-E4-C-PU02  | E2AS08KS02-WP-B12M | XS508B1PAL2               | 1   | 30 |
| 100-125 PT     | M5x0.5 | BES516-3005-G-E4-C-PU02 | E2EX1-B1           | XS1N05PA310               | 0.5 | 20 |
| 160-200 PT     | M8x1   | BES516-324-G-E4-C-PU02  | E2AS08KS02-WP-B12M | XS508B1PAL2               | 1   | 30 |
| 100 / 160 SL   | M8x1   | BES516-324-549-C        | -                  | -                         | -   | 40 |
| 200 SL         | M8x1   | BES516-324-SA33         | -                  | -                         | -   | 53 |

\* Recommended by SMW-AUTOBLOK

- Pneumatic jaw stroke control valve
- Safety valve SAB-1

### Pneumatic jaw stroke control valve

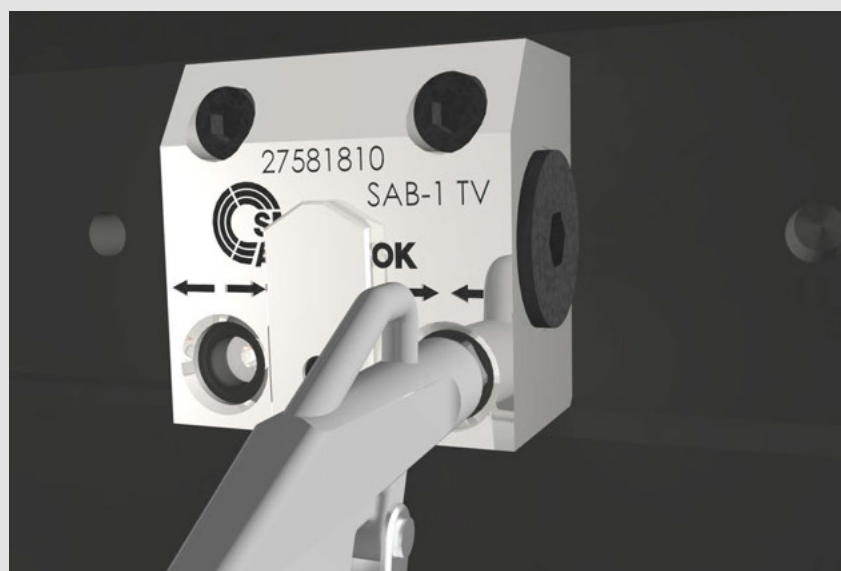


- For the monitoring of the jaw position
- Direct connection through the plate or the tombstone
- No cables needed
- Ideal for automation

Available for STV-2 / STV-3 and PTP / PTH

| Twin vice type | Id. No.  |
|----------------|----------|
| 125 STV-2      | 90902283 |
| 180 STV-2      | 90902283 |
| 225 STV-2      | 90902283 |
| 180 STV-3      | 97901801 |
| 225 STV-3      | 97902204 |
| 100 PTP / PTH  | 90901163 |
| 125 PTP / PTH  | 90901763 |
| 160 PTP / PTH  | 90901763 |
| 200 PTP / PTH  | 90901763 |

### Safety valve SAB-1



Safety valve SAB-1 to maintain air pressure during pallet transportation / storage and machining

Available for STV-2 / STV-3

# Notes

## Notes

# Notes





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