

Subject to technical changes.  
For more detailed information please ask our customer service.

| SMW-AUTOBLOK Type               |             | D-PLUS 260        |                | D-PLUS 315 |                |
|---------------------------------|-------------|-------------------|----------------|------------|----------------|
| Mounting                        | Size        | 225               | 275            | 275        | 275            |
|                                 | <b>A</b>    | mm                | 260            |            | 315            |
|                                 | <b>B</b>    | mm                | 111            |            | 111            |
|                                 | <b>C</b>    | mm                | 125            |            | 125            |
|                                 | <b>D1</b>   | mm                | 227            |            | 275            |
|                                 | <b>E</b>    | mm                | 225            |            | 275            |
|                                 | <b>F</b>    | mm                | 140            |            | 171.4          |
|                                 | <b>G</b>    |                   | M16            |            | M16            |
|                                 | <b>G1</b>   |                   | M42 x 1.5      |            | M60 x 1.5      |
|                                 | <b>J</b>    | mm                | 6              |            | 6              |
|                                 | <b>P</b> H6 | mm                | 45             |            | 63             |
| Piston stroke                   | <b>S</b>    | mm                | 1.5            |            | 1.5            |
| Through-hole                    | <b>T</b>    | mm                | 32             |            | 50             |
| Draw pull min. / max.*          | <b>F1</b>   | kN                | 0-25           |            | 0-30           |
| Draw push for chuck open        | <b>F2</b>   | kN                | 25             |            | 30             |
| Moment of inertia               |             | kg·m <sup>2</sup> | 0.45           |            | 0.75           |
| Weight without top tooling      |             | kg                | 44             |            | 65             |
| Recommended actuating cylinders | <b>Type</b> |                   | <b>SIN-DFR</b> |            | <b>SIN-DFR</b> |

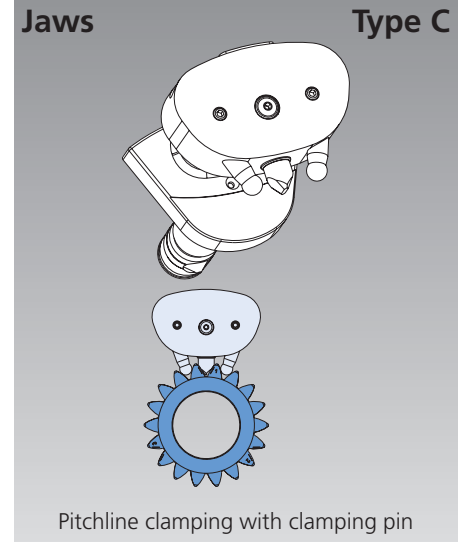
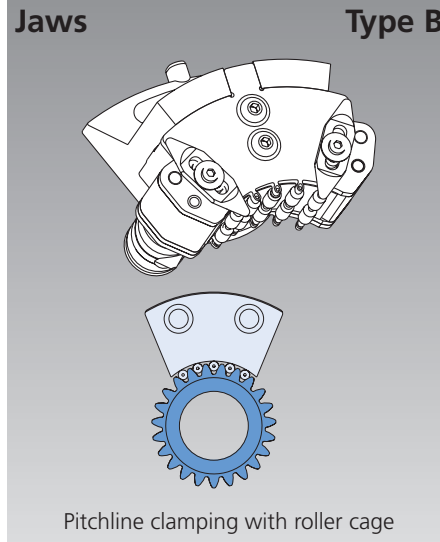
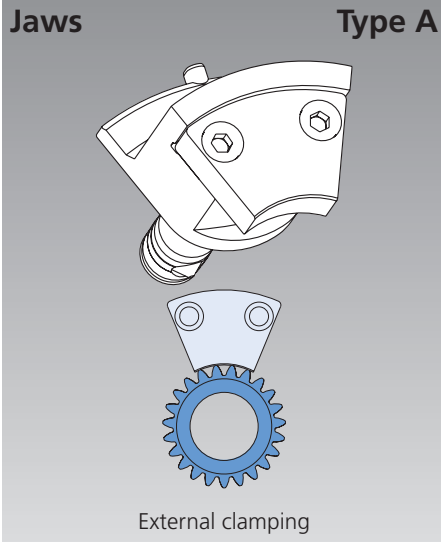
\* Additional actuation force to the diaphragm spring clamping force applied by the clamping cylinder.

**Advice:** The max. allowed speed for the application is permanently marked on the corresponding top jaws and must not be exceeded.

**Advice:** Please note, that it is important, that the cylinder force for pushing and pulling can be set to different values independently!

**Important:** Never rotate the chuck without inserted jaws, otherwise the centrifugal force compensation mechanism will get damaged.

- Radial O.D. or pitch line clamping
- With central bore
- Centrifugal force compensation



## Actuating cylinder SIN-DFR for diaphragm chuck Type D-PLUS

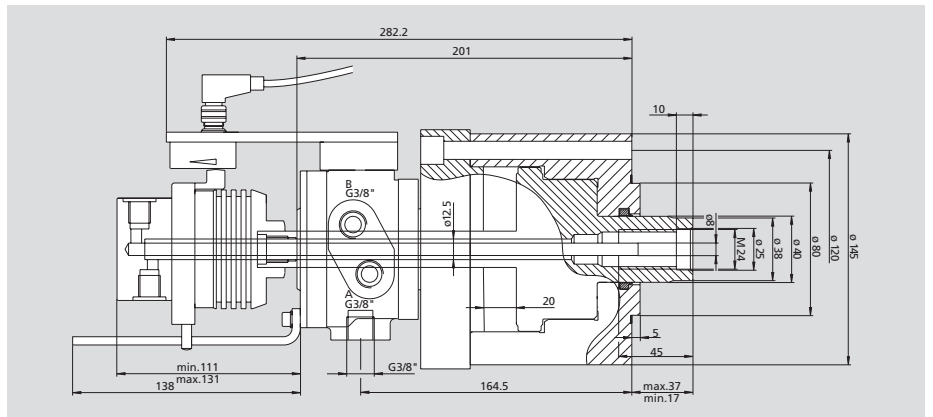
### Technical features

- Special cylinder to actuate the diaphragm chuck
- Large / small piston area for opening / clamping
- Rotary unions for 1 or 2 media
- Linear positioning system LPS 4.0 to monitor the piston stroke

### Standard equipment

- Cylinder with kit for LPS 4.0 installation without LPS 4.0 position sensor

LPS 4.0 see total catalog page 343



SIN-DFR-LPS 4.0 for rotary union 1 medium Id. No. 046914 (without rotary union\*)

SIN-DFR-LPS 4.0 with rotary union 2 media Id. No. 046887 (rotary union 2 media included)

| Piston surface          |                         | Pressure    |             | pull<br>min. / max. | push<br>min. / max.<br>(36 bar max.) | Speed<br>max. | Leakage<br>at 30 bar / 50°C | Weight<br>cylinder | Moment<br>of<br>inertia | Weight of<br>rotary union<br>1 medium | Weight of<br>rotary union<br>2 media |
|-------------------------|-------------------------|-------------|-------------|---------------------|--------------------------------------|---------------|-----------------------------|--------------------|-------------------------|---------------------------------------|--------------------------------------|
| A                       | B                       | A           | B           |                     |                                      |               |                             |                    |                         |                                       |                                      |
| pull<br>cm <sup>2</sup> | push<br>cm <sup>2</sup> | min.<br>bar | max.<br>bar | kN                  | kN                                   | r.p.m.        | dm <sup>3</sup> / min       | kg                 | kg·m <sup>2</sup>       | kg                                    | kg                                   |
| 21                      | 74                      | 3 - 70      | 3 - 36      | 0.6 / 14            | 2.2 - 27                             | 7000          | 1.5                         | 9                  | 0.016                   | 0.4                                   | 1.5                                  |

\* To be ordered separately!

### Example of application

