

# 2PXM

## 2 jaws self-centering grippers Ø125-160-200

### ALUMINIUM

### Pneumatics - Protected



#### Technical features

- Aluminium body to contain the gripper weight
- Functional parts heat-treated for high precision and long life
- Master jaws with calibrated bushings
- Protection class IP40
- Highest rigidity and Repeatability: 0,02 mm
- Prepared for Air purge

#### OPTIONAL

- Analogic stroke control sensor ON/OFF or continuous
- Magnetic stroke control sensor ON/OFF or continuous

#### Applications/Customer benefits

- Compact and light design
- OD and/or ID clamping
- Side or rear feeding
- Interchangeable with most existing universal grippers

#### Standard equipment

Grippers without top jaws and without sensors.  
All bolts for the double mounting, all centering bushings and all interface OR included.

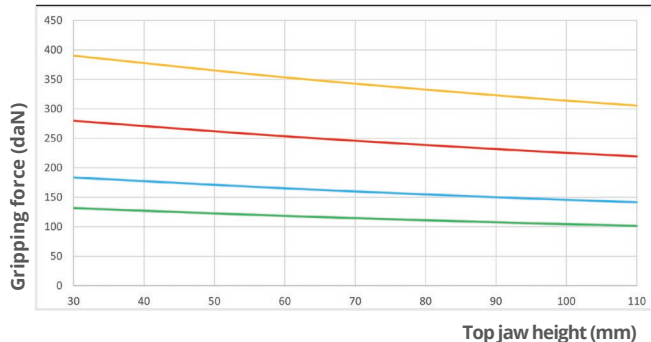
| SMW-Autoblok TYPE | Id. No.  | Clamping force (daN) at 6 bar | Spring force min. (daN) | U (mm) jaw stroke | Air volume (cm³) | Pressure (bar) min./max. | Opening/ Closing time (s) at 6 bar | Weight (Kg) | Workpiece weight recommended (Kg) | e (mm) min. /max. | R1 (mm) min. /max. | R2 (mm) min. /max. |
|-------------------|----------|-------------------------------|-------------------------|-------------------|------------------|--------------------------|------------------------------------|-------------|-----------------------------------|-------------------|--------------------|--------------------|
| 2PXM-N 125        | 77901864 | 280                           | -----                   | 6                 | 79               | 2/8                      | 0,1/0,1                            | 1,6         | 14,0                              | 30,5/36,5         | 71,5/77,5          | 23,5/29,5          |
| 2PXM-NSE 125      | 77902064 | 390                           | 110                     | 6                 | 151              | 4/6,5                    | 0,12/0,08                          | 2           | 14,0                              | 30,5/36,5         | 71,5/77,5          | 23,5/29,5          |
| 2PXM-NSI 125      | 77901164 | 407                           | 110                     | 6                 | 157              | 4/6,5                    | 0,08/0,12                          | 2           | 14,0                              | 30,5/36,5         | 71,5/77,5          | 23,5/29,5          |
| 2PXM-L 125        | 77901964 | 132                           | -----                   | 13                | 79               | 2/8                      | 0,1/0,1                            | 1,6         | 7,0                               | 30,5/43,5         | 64,5/77,5          | 23,5/36,5          |
| 2PXM-LSE 125      | 77902164 | 184                           | 52                      | 13                | 151              | 4/6,5                    | 0,12/0,08                          | 2           | 7,0                               | 30,5/43,5         | 64,5/77,5          | 23,5/36,5          |
| 2PXM-LSI 125      | 77901264 | 192                           | 52                      | 13                | 157              | 4/6,5                    | 0,08/0,12                          | 2           | 7,0                               | 30,5/43,5         | 64,5/77,5          | 23,5/36,5          |
| 2PXM-N 160        | 77901868 | 456                           | -----                   | 8                 | 161              | 2/8                      | 0,14/0,14                          | 2,9         | 23,0                              | 38,5/46,5         | 90/98              | 29,5/37,5          |
| 2PXM-NSE 160      | 77902068 | 651                           | 195                     | 8                 | 318              | 4/6,5                    | 0,22/0,11                          | 3,7         | 23,0                              | 38,5/46,5         | 90/98              | 29,5/37,5          |
| 2PXM-NSI 160      | 77901168 | 685                           | 195                     | 8                 | 330,5            | 4/6,5                    | 0,11/0,22                          | 3,7         | 23,0                              | 38,5/46,5         | 90/98              | 29,5/37,5          |
| 2PXM-L 160        | 77901968 | 215                           | -----                   | 16                | 161              | 2/8                      | 0,14/0,14                          | 2,9         | 11,0                              | 38,5/54,5         | 82/98              | 29,5/45,5          |
| 2PXM-LSE 160      | 77902168 | 307                           | 92                      | 16                | 318              | 4/6,5                    | 0,22/0,11                          | 3,7         | 11,0                              | 38,5/54,5         | 82/98              | 29,5/45,5          |
| 2PXM-LSI 160      | 77901268 | 324                           | 92                      | 16                | 330,5            | 4/6,5                    | 0,11/0,22                          | 3,7         | 11,0                              | 38,5/54,5         | 82/98              | 29,5/45,5          |
| 2PXM-N 200        | 77901872 | 556                           | -----                   | 14                | 373              | 2/8                      | 0,3/0,3                            | 5,8         | 28,0                              | 38/52             | 105/119            | 28,5/42,5          |
| 2PXM-NSE 200      | 77902072 | 756                           | 200                     | 14                | 733              | 4/6,5                    | 0,5/0,3                            | 7,3         | 28,0                              | 38/52             | 105/119            | 28,5/42,5          |
| 2PXM-NSI 200      | 77901172 | 790                           | 200                     | 14                | 758              | 4/6,5                    | 0,3/0,5                            | 7,3         | 28,0                              | 38/52             | 105/119            | 28,5/42,5          |
| 2PXM-L 200        | 77901972 | 370                           | -----                   | 25                | 373              | 2/8                      | 0,3/0,3                            | 5,8         | 18,5                              | 38/63             | 94/119             | 28,5/53,5          |
| 2PXM-LSE 200      | 77902172 | 502                           | 132                     | 25                | 733              | 4/6,5                    | 0,5/0,3                            | 7,3         | 18,5                              | 38/63             | 94/119             | 28,5/53,5          |
| 2PXM-LSI 200      | 77901272 | 526                           | 132                     | 25                | 758              | 4/6,5                    | 0,3/0,5                            | 7,3         | 18,5                              | 38/63             | 94/119             | 28,5/53,5          |

**Note:** 2PXM-N: Normal stroke 2PXM-L: Long stroke 2PXM-NSE: Normal stroke OD 2PXM-NSI: Normal stroke ID  
2PXM-LSE: Long stroke OD 2PXM-LSI: Long stroke ID

# 125

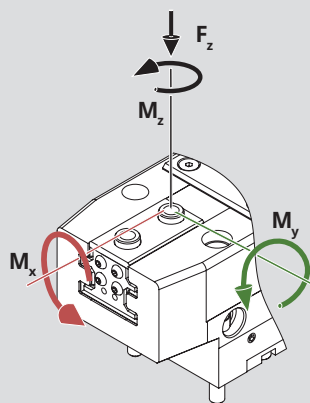
# 2PXM

■ 2PXM-N ■ 2PXM-NSE ■ 2PXM-L ■ 2PXM-LSE



## DIAGRAM DATA

|                                                            |        |
|------------------------------------------------------------|--------|
| GRIPPING FORCE CALCULATED AT                               | 6 bar  |
| MAX. RECOMMENDED TOP JAWS HEIGHT                           | 110 mm |
| MAX. TOP JAWS WEIGHT                                       | 2,3 kg |
| I.D. CLAMPING (of the gripping force shown in the diagram) | +5%    |
| USE CONNECTING SCREWS CLASS                                | 12.9   |



- $M_x$  max. 125 Nm\*
- $M_y$  max. 140 Nm\*
- $M_z$  max. 110 Nm\*
- $F_z$  max. 3350 N\*

\*THE MOMENTS OF INERTIA INDICATED REFER TO ONE MASTER JAWS AND CAN BE OCCUR SIMULTANEOUSLY. THE  $M_y$  MOMENT CAN BE ADDED TO THE GRIPPING FORCE MOMENT.



max allowed temperature using proximities is 60°C

