



Smart pneumatics meets centric gripping.

With the new ZPG 75 the proven smart gripping technology of the award winning RPG series is now also available as a 3-finger centric gripper. The ZPG 75 has a powerful electropneumatic drive and a precise gripping mechanism. The integrated position sensor and the built-in IO-Link capable gripping control make it a powerful and flexible gripping module for the handling of cylindrical workpieces.

Patented part detection

The ZPG 75 is equipped with Weiss Robotics' patented part detection. The gripped part is thus quickly and reliably detected with no external sensors required. It allows high gripping rates of typically 320 cycles per minute. In addition, the gripped part is continuously monitored during handling. This avoids expensive additional sensors and makes the ZPG 75 the most reliable pneumatic gripper solution on the market.

No external sensors

The integrated sensor system of the ZPG 75 detects the exact position of the base jaws with a resolution of 0.1 mm. This is why you won't need external proximity switches any more, thus minimizing the interfering contour of the gripping unit. In addition, you will benefit from a precise and reliable setting of the gripping point, which can be adjusted flexibly via IO-Link to optimize the ongoing production.

High reliability

The ZPG 75 achieves a long service life and a high precision thanks to its precision grinded T-slot guide and a particularly torsion-resistant design. Inside the gripper, advanced self-diagnosis algorithms ensure the correct function of the gripping module at all times and even under difficult conditions. Plant downtimes due to difficult locatable faults are now a thing of the past.

Predictive maintenance

Get access to characteristic parameters of the gripping process directly from the gripping module. The ZPG 75 not only provides the current gripping distance in millimeters but also the average gripping and releasing time as well as the remaining number of cycles up to the next maintenance via IO-Link. This provides you with detailed insights into the stability of your gripping process, as well as a predictive planning of maintenance and service.

The smart choice for machine loading

Make sure you are safe by using the ZPG 75 from Weiss Robotics. With its protection class of IP 54K, a coolant-resistant design, electronically adjustable gripping points and a very compact interfering contour, it is the first choice for machine loading applications.

Technical Data

Stroke (diameter)	12 mm
Gripping force at nominal pressure (closing)	550 N
Grip rate ¹	320 cycles/min
Operating pressure (min. · norm · max.)	2 bar · 6 bar · 7 bar
Power supply	24 V / 80 mA
Communication	IO-Link V1.1, COM2 (38.4 kbit/s)
Mechanical repeatability	0.01 mm
Position resolution	0.1 mm
Permitted finger length	80 mm
Permitted finger weight	0.35 kg
Protection class	IP 54K
Compressed air requirement	ISO 8573-1:2010 [7:4:4]
Operating temperature	5 ... 50 °C
Weight	650 g
Dimensions (L x B x H)	87 x 82.4 x 42 mm

¹⁾ over IO-Link, cycle: grip and release over the total stroke.

Gripping Force

