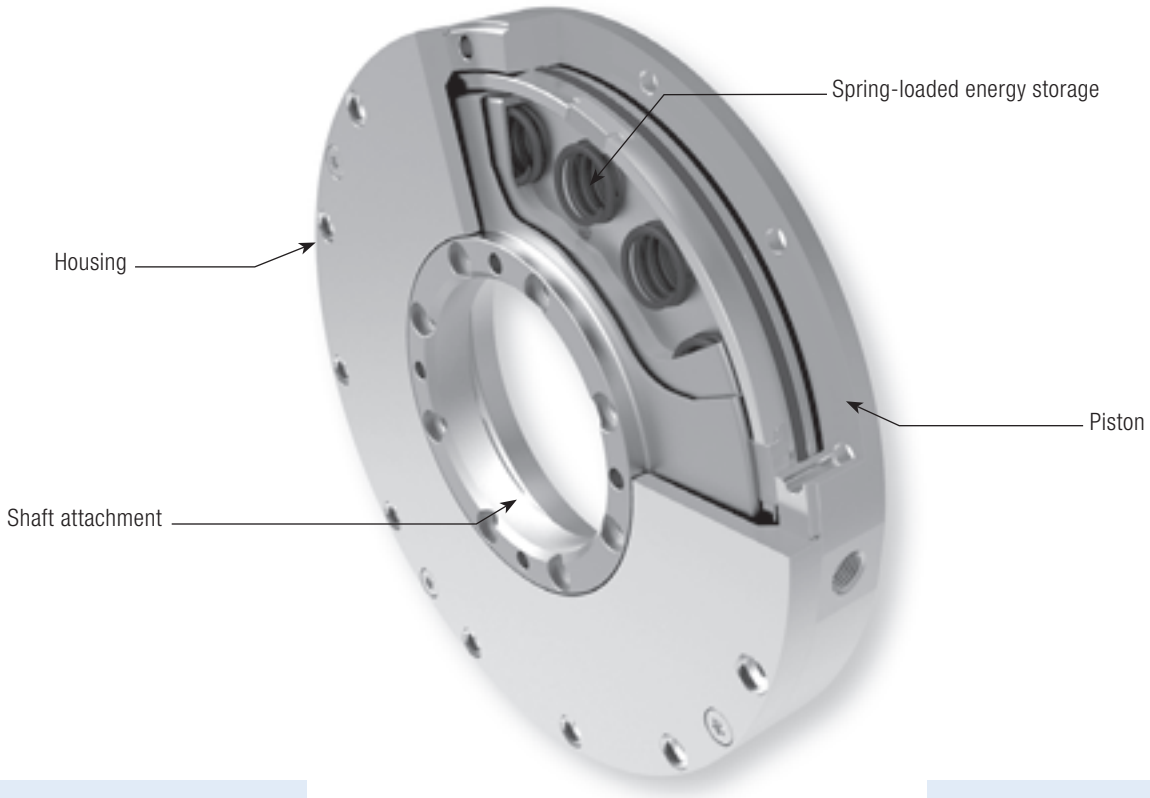
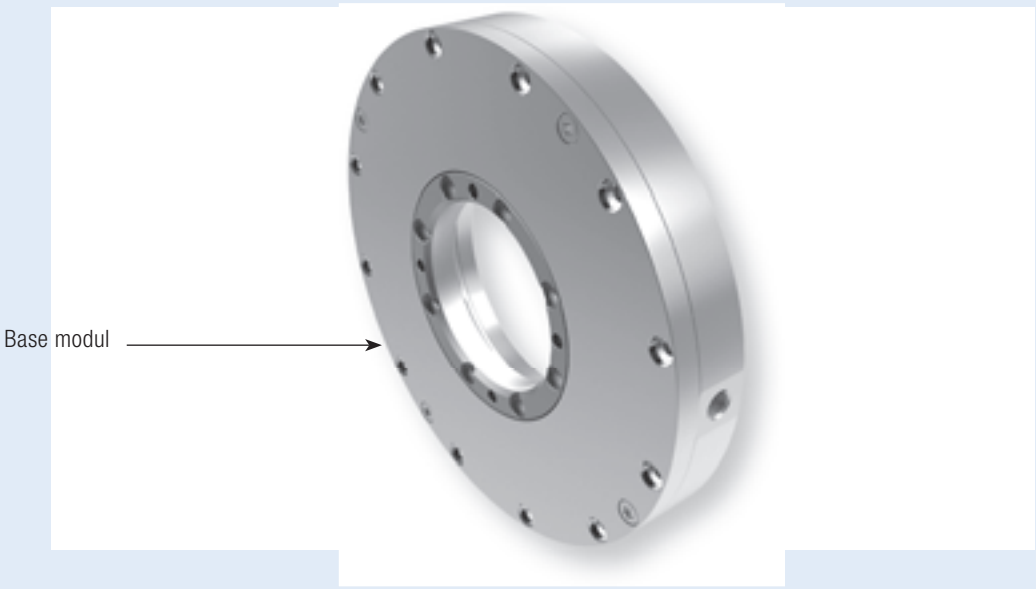


Active without pressure – flat design:
The Clamping Element for torque take-up with spring-loaded energy storage **TPS.**

The TPS series is a pneumatic clamping element for torque motors or for rotational axes. It works with a newly developed spring-loaded energy storage system. Torque take-up occurs inside the TPS which excludes wear on the driven shaft. TPS achieves high holding torques at a pneumatic opening pressure of > 4 bar.

The TPS is very precise due to its high rigidity and positioning accuracy.
The zero maintenance TPS is suitable for shaft diameters of Ø 50 to Ø 320 mm. It is characterised by easy assembly and a flat design.

TPS Series



Technical data for TPS series:

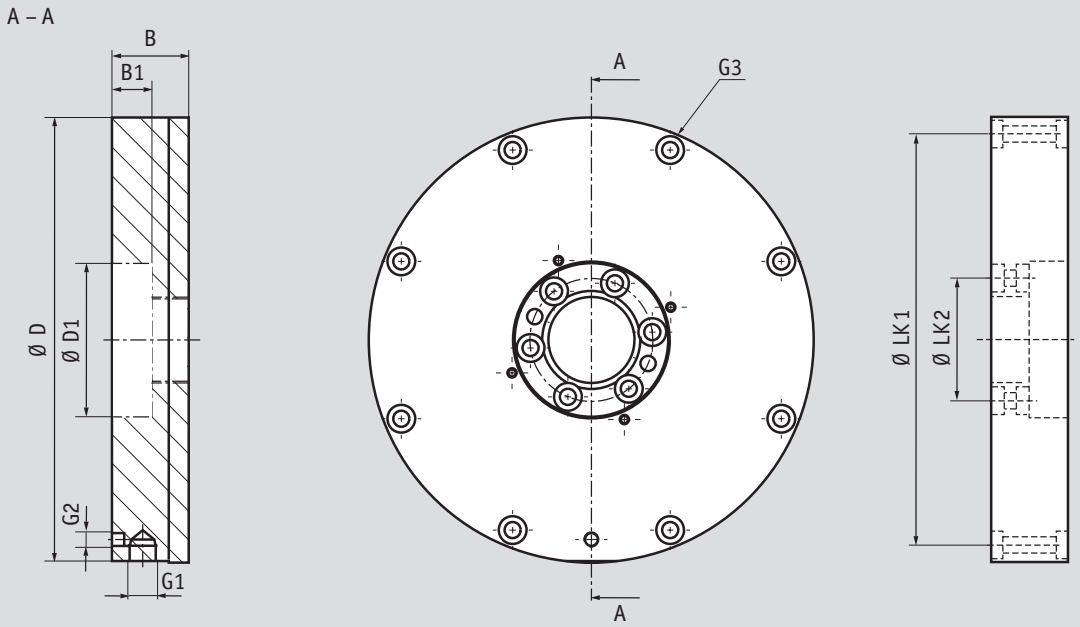
Shaft size [mm]	50–320
Holding torque	60 Nm–1,000 Nm
Min. pressure	5.5 bar
Max. pressure	8 bar
Spring-loaded energy storage	√
PLUS connection	-
Clamping cycles	5 mil. (B10d-value)
Braking cycles	unsuitable

Application scenarios for TPS:
- For deployment in torque motors
- For deployment in rotating disc contactors
- For deployment in axis modules
- Torque take-up of shafts
- Clamping in case of pressure drop

Variations TPS:
Available as 6 bar variation with higher holding forces on request.

Connection options TPS:
The air connection features a radial and axial arrangement.
PLUS connection is not possible with this TPS series.

TPS



G1/G2: Air connection

Size [mm]	Item number	Holding torque [Nm] TP	B [mm]	B1 [mm]	Ø D [mm]	Ø D1 [mm]	Ø LK1 [mm]	Ø LK2 [mm]	G1	G2	G3
50	TPS050	60	25	13	145	51	134	40	G1/8“	M5	M5
60	TPS060	80	25	13	155	61	144	50	G1/8“	M5	M5
70	✆										
80	TPS080	120	25	13	175	81	164	70	G1/8“	M5	M5
90	TPS090	130	28	14	185	91	174	80	G1/8“	M5	M5
100	✆										
120	✆										
160	TPS160	400	35	19	288	161	270	136	G1/8“	G1/8“	M6
200	TPS200	500	35	19	328	201	310	176	G1/8“	G1/8“	M6
220	TPS220										
240	TPS240	770	35	19	368	241	350	216	G1/8“	G1/8“	M6
320	TPS320	1000	35	19	450	321	430	296	G1/8“	G1/8“	M6