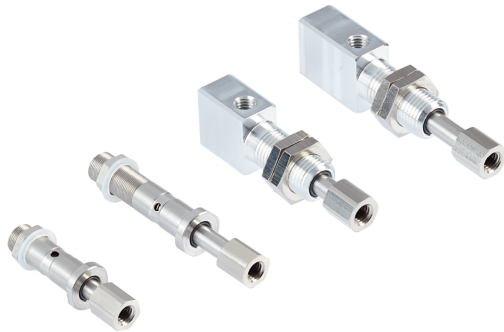
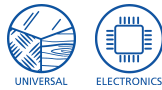
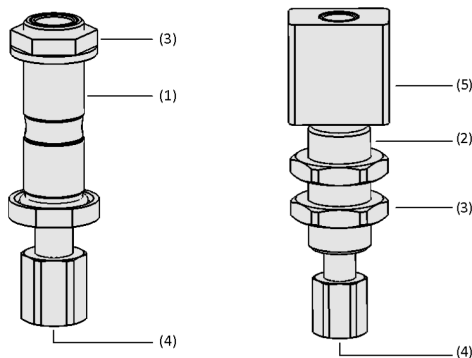
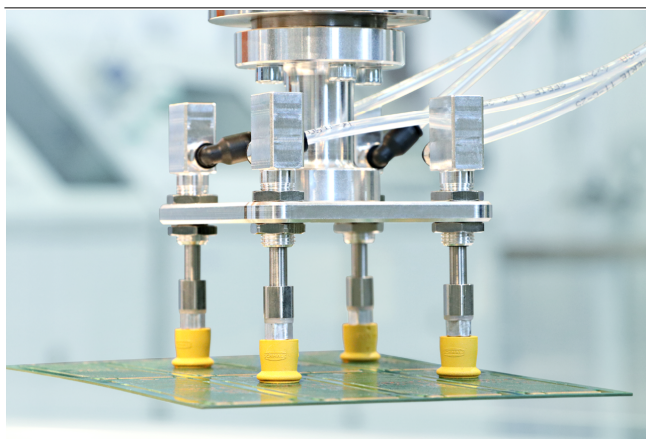




Spring Plungers FSTImc



System design Spring Plungers FSTImc



Spring plunger FSTImc when handling printed circuit boards

Suitability for industry specific applications

Application

- Compact spring plunger with internal damping spring for handling workpieces with height differences or curvatures
- Handling of very sensitive workpieces (e.g. printed circuit boards) without additional control expenses; ensures gentle placement
- Diverse handling tasks in the electronics industry

Design

- Modular spring plunger for mounting to vacuum-guiding section (1) or to screw in with a M10 thread (2)
- Lock nuts (3) for mounting
- Suction cup connector (4) for mounting suction cups
- Vacuum connection thread (5)

Product highlights

- Low spring forces for gently handling very fragile workpieces
- Suitable for tight spaces and highly dynamic tasks thanks to its compact size
- Internal damping spring protected against dirt and mechanical damage
- Very responsive plunger motion for high process safety
- Vacuum connection via beam with integrated vacuum feed or rigid hose connection for strain-free movement

Spring Plungers FSTImc

Stroke from 5 to 10 mm

Designation code Spring Plungers FSTImc

FSTImc	–	P	–	20	–	M5-IG	–	M5-IG	–	5	–	CO
1		2		3		4		5		6		7

1 – Abbreviated designation

Code	Version
FSTImc	FSTImc

2 – Variant

Code	Type
P	Section
S	Screw

3 – Mounting length

Code	Length in mm
20...30	20 to 30

4 – Suction cup connection

Code	Connection
M5-IG	M5-IG (IG= female (F))

5 – Vacuum connection

Code	Connection
M5-IG	M5-IG (IG= female (F))

6 – Plunger stroke

Code	Plunger stroke in mm
5...10	5 to 10

7 – Product addition

Code	Type
CO	Electrically conductive

Spring Plunger FSTImc is delivered assembled.

Available accessories: vacuum hose, hose sleeve

Ordering data Spring Plungers FSTImc

Type	Part no.
FSTImc P 20 M5-IG 5 CO	10.01.02.01684
FSTImc P 30 M5-IG 10 CO	10.01.02.01685
FSTImc S M5-IG M5-IG 5 CO	10.01.02.01686
FSTImc S M5-IG M5-IG 10 CO	10.01.02.01687

Technical data Spring Plungers FSTImc

Type	Spring rate [N/mm]	Spring pretension [N]	Spring force center [N]*	Vertical load [N]**	Horizontal load [N]***	Anzugsdrehmoment (max) [Nm]	Weight [g]	Operating temperature
FSTImc P 20 M5-IG 5 CO	0.057	0.19	0.33	15	1.5	2	13	10 ... 45 °C
FSTImc P 30 M5-IG 10 CO	0.051	0.32	0.58	15	1.5	2	16	10 ... 45 °C
FSTImc S M5-IG M5-IG 10 CO	0.051	0.42	0.67	15	1.5	4	26	10 ... 45 °C
FSTImc S M5-IG M5-IG 5 CO	0.057	0.31	0.45	15	1.5	4	23	10 ... 45 °C

*Referred to 50 % of operating stroke

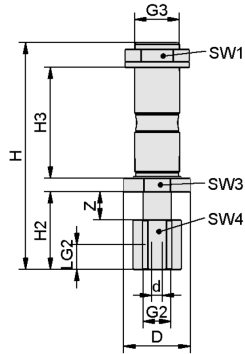
**Maximum static loading

***The specification of the horizontal load refers to the lower edge of the plunger with extended spring. It is a maximum static stress and it impairs the spring compression and extension in horizontal position.

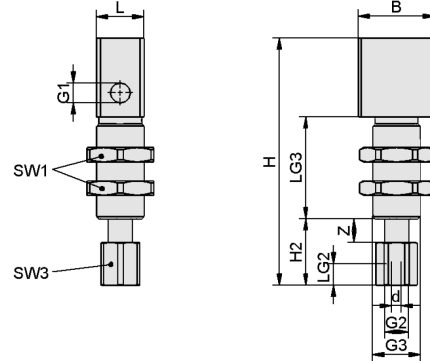
Spring Plungers FSTImc

Stroke from 5 to 10 mm

Design data Spring Plungers FSTImc



FSTImc P



FSTImc S

Spring Plungers FSTImc

Stroke from 5 to 10 mm

Design data Spring Plungers FSTImc

Type	B [mm]	D [mm]	d [mm]	G1	G2		H [mm]	H2 [mm]	H3 [mm]	L [mm]	LG2 [mm]	LG3 [mm]	SW1	SW3 [mm]	Z [mm]
FSTImc P 20 M5-IG 5 CO	-	12	2	-	M5-F	M8x0.5-M	41.0	14	20	-	4.1	-	10	11	5
FSTImc P 30 M5-IG 10 CO	-	12	2	-	M5-F	M8x0.5-M	56.0	19	20	-	4.1	-	10	11	10
FSTImc S M5-IG M5-IG 5 CO	16	-	2	M5-F	M5-F	M10x1-M	52.0	14	-	10	4.1	21.5	14	8	5
FSTImc S M5-IG M5-IG 10 CO	16	-	2	M5-F	M5-F	M10x1-M	61.5	19	-	10	4.1	21.5	14	8	10

Multimedia product presentation

Medium

Product video

Link

<https://vimeo.com/511082172>