

STÖGER Spin Pull Unit

The STÖGER Spin Pull Unit (SPU) enables the fully automated setting of press-in nuts in closed profiles with one-sided accessibility. This state-of-the-art system impresses with fast cycle times and guarantees maximum process reliability—an ideal solution for demanding applications in fastening technology.



Advantages of the STÖGER Spin Pull Unit (SPU):

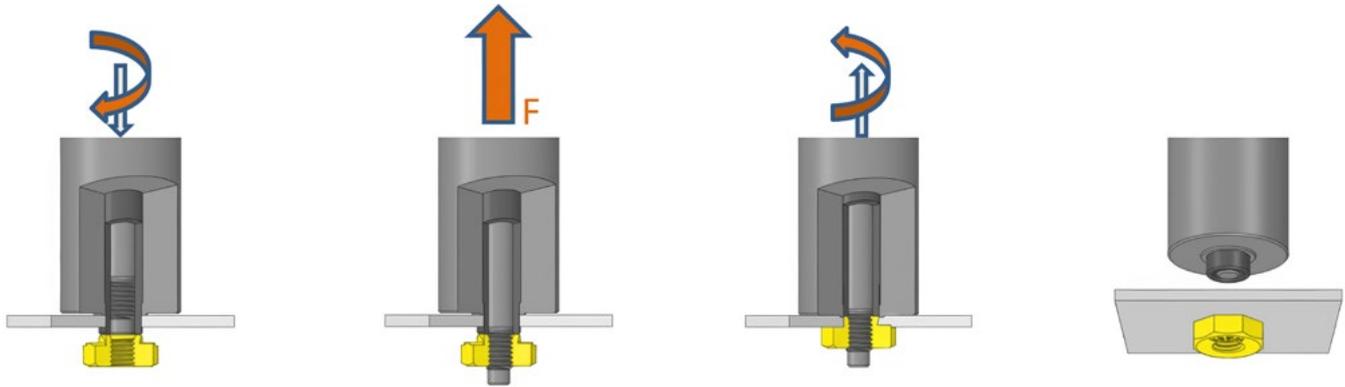
- + Automatic axial and radial compensation for correct component positioning
- + Setting in closed profiles with one-sided accessibility
- + Minimal wear due to duplex steel pulling screw
- + High durability: up to 1 million cycles before machine maintenance
- + Automatic thread inspection during the process
- + Quality assurance via force and displacement monitoring (sensor-based monitoring)
- + Additional stroke of 250 mm (other strokes optional)
- + Cost efficiency: reduced process steps, use of a DIN screw as a pulling tool

Advantages of press-in nuts:

Press-in nuts are specifically designed for applications in aluminum hollow profiles. They meet the highest media-tightness requirements, are suitable for material thicknesses from 2 mm and can therefore handle wide-ranging applications flexibly.

- + Best mechanical properties: highest torque-out and push-out values
- + **Independent of material thicknesses**
- + Sustainable solution due to **repairability** with wire thread inserts

Functionality



1.
Threading of the press-in nut, including radial misalignment compensation

2.
Threading pin is retracted, and the press-in nut is pulled against the component

3.
Press-in nut is set, and the pulling screw unthreads

4.
Installed element

Technical data

	SPU25	SPU90
Dimensions	860x 180x 240 mm	1000x 400x 400 mm
Axle distance	150 mm	400 mm
Weight	32 kg	115 kg
Cycle time	7 seconds	9 seconds
Retraction force	25 kN (M6)	100 kN (M14)
Pulling stroke	20 mm	20 mm
Pulling screw change interval	10,000 cycles / Duration: 3 min	10,000 cycles / Duration: 3 min

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