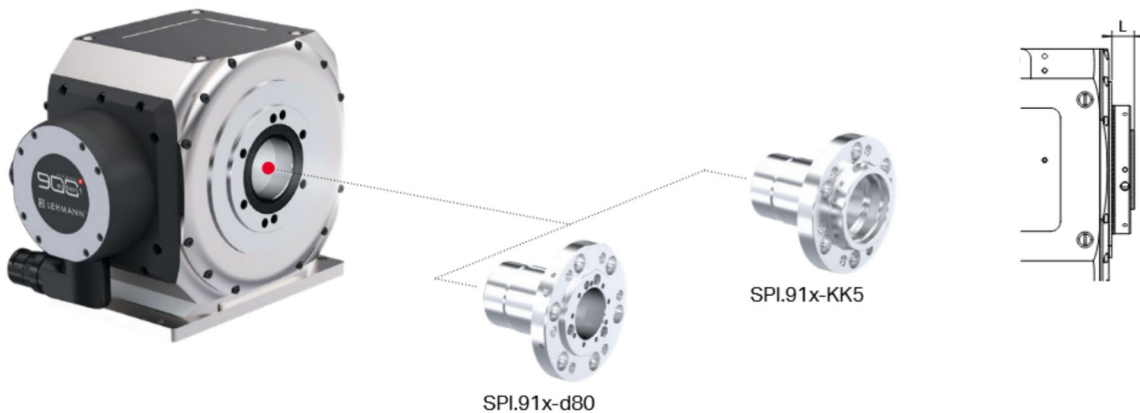


A multitude of accessories adaptable thanks to standardized interface

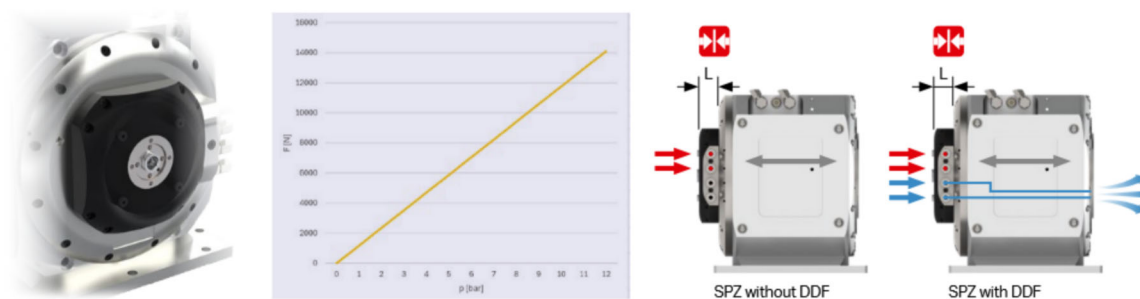
Spindle adapter



Item no.	Designation	Dimensions	L from spindle [mm]
SPI.91x-d80	Spindle adapter	Outer diameter 80 mm	20
SPI.91x-KK5	Spindle adapter bigBore with KK5		32.3

Clamping cylinder and rotary union

All items for max. speed: 400 rpm

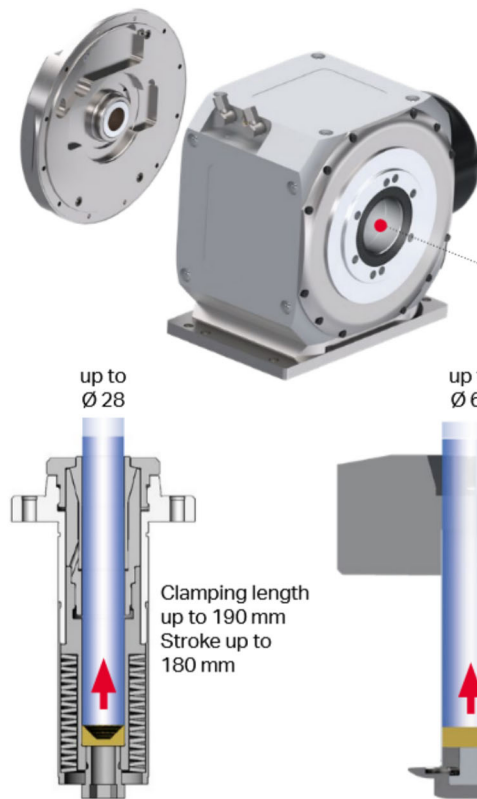


Item No.	Designation	H min [mm]	Air [cm ²]	L [mm]	Weight [kg]	can be retrofitted
SPZ.91x-15p	Pneumatic clamping cylinders	15	167	51	10.5	•
SPZ.91x-15p-DDF4*	Pneumatic clamping cylinders with rotary union	15	167	51	12.5	•

Valve set and pressure booster, see p. 32/33
* max. pressure at DDF 6 bar (only air)

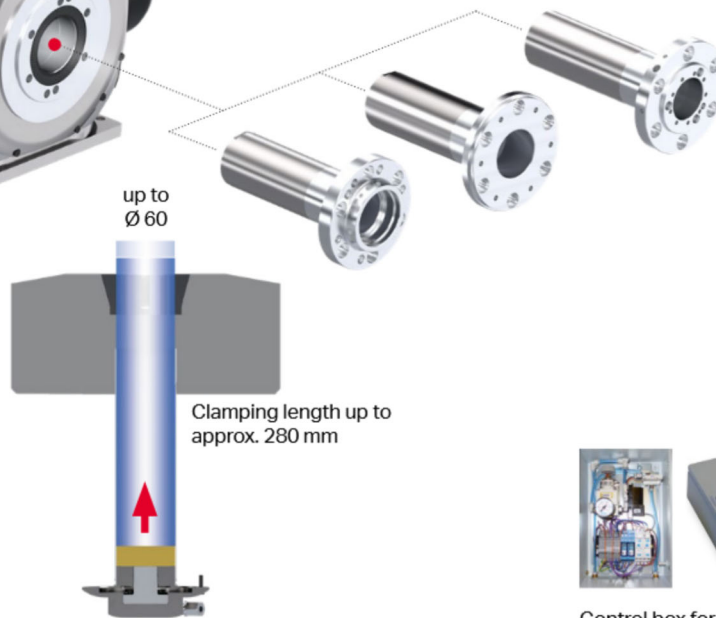
Clamped even without power or pressure:
The safe solution for workpiece clamping when
operating at high speeds

Release cylinder



F35 bar feed, see **p. 96**

Clamping cartridges with spring pack



Hainbuch bar feed, see **p. 101**



Control box for presence
check (SPZ.Awk)

Item No.	Designation	Dimension	can be retrofitted
SPZ.91x-s3-d80	Clamping cartridge d80, incl. release cylinder	pushing, F: 2 kN (6 bar), stroke: 3.0 mm	
SPZ.91x-s9-d80	Clamping cartridge d80, incl. release cylinder	pushing, F: 2 kN (6 bar), stroke: 9.0 mm	
SPZ.91x-s3-KK5	Clamping cartridge KK5, incl. release cylinder	pushing, F: 10.5kN (6 bar), stroke: 3.0 mm, effective passage increased	
SPZ.91x-s9-KK5	Clamping cartridge KK5, incl. release cylinder	pushing, F: 7.5kN (6bar), stroke: 9.0mm, effective passage increased	
SPZ.91x-s3-d125	Clamping cartridge d125, incl. release cylinder	pushing, F: 10.5kN (6 bar), stroke: 3.0 mm, effective passage increased	
SPZ.91x-z3-d80	Clamping cartridge d80, incl. release cylinder	pulling, F: 10kN (6 bar), stroke: 3.0 mm, M24x1.5	
SPZ.91x-z9-d80	Clamping cartridge d80, incl. release cylinder	pulling, F: 10kN (6 bar), stroke: 9.0mm, M24x1.5	
SPZ.91x-Stange	Bar feed ø28, stroke 180 mm	fits SPZ.91x-s3-KK5	•

Clamping cartridges for ED8 require option SPZ.918-ada
Clamping force depending on clamping device (angle, transmission ratio, etc.)
F=draw-in force

Options for all sizes

SPZ.Awk-Vor	Preparation for presence check only possible for automatic clamping (only with adapter from pL)
SPZ.Awk	Control box for presence check

cannot be combined with bar feed

Overview
& Facts

System &
smartBOX

Rotary tables

K4B, WDF,
CNC, VMS

AGB, DDF,
RST, LOZ

Service &
Technology

Tooling