

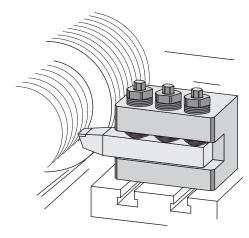
# **High-Pressure Spindles, Mechanical**

with integrated wedge system clamping force 40 to 140 kN



## **Advantages**

- Easy to retrofit
- Temperature resistance up to 250 °C
- Compact design allows for multiple clamping
- High clamping force with low tightening torque
- Self-locking due to patented wedge system
- Individual use



## **Application**

- In bars and blocks
- Clamping and locking of workpieces and dies
- When the available space is limited
- In presses, punching machines and machine tools

### Description

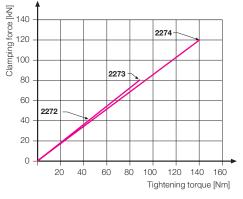
Following manual positioning of the high-pressure spindle against the clamping edge, the drive spindle is operated by turning the hexagon nut SW1. Thus, the clamping force is transmitted in axial direction to the clamping point by the wedge system.

The required clamping force is achieved by selecting the appropriate torque on the torque wrench (see force torque diagram). For unclamping, proceed in the reverse order.

# sw1 unclamping max. clamping position position

max. clamping position (s)

## Clamping force/tightening torque diagram



## Important note

Before applying the tightening torque, the high-pressure spindle must be screwed against the clamping edge so that there is no play. If the parts are not rigid, tighten the high-pressure spindle using the hexagon nut SW2 until there is no play.

The clamping screws are permanently lubricated and maintenance free in case of normal operating conditions.

## **Application example**



Clamping force	[kN]	40	80	140
Clamping stroke	[mm]	1.5	2.2	2.5
Max. tightening torque	[Nm]	30	70	120
Max. static load	[kN]	80	160	240
a	[mm]	62	75	90
b	[mm]	73	90	110
Ød	[mm]	19	28	39
g	[mm]	M36 x 3	M48 x 3	M64 x 4
Monitoring of clamping stroke s	[mm]	5	7.5	8.5
SW 1	[mm]	13	17	19
SW 2	[mm]	30	41	55
Weight	[kg]	0.5	2.0	2.5
Part no.		2272210	2273210	2274210

Other sizes and threads (e.g. inch) are available on request.

clamping stroke

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