

Suction Pads for Handling Wood



Suction Plates SHF

Suction area (\emptyset) from 125 mm to 210 mm



Suitability for Industry-Specific Applications



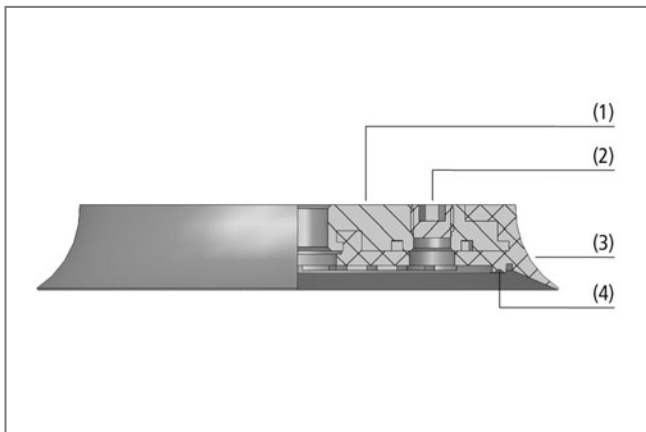
Suction plates SHF

Applications

- Round suction plate for handling of sheets, furniture elements, parquet and similar large, flat workpieces
- Handling of wooden parts with rough surfaces

Design

- Suction plate SHF, consisting of sealing ring (3) and aluminum mounting plate (1)
- Connection (2) on the side, normally sealed with a screw plug (glued into position for extra safety)
- Sealing ring clipped securely to mounting plate (can be changed without tools)
- Double internal sealing edge (4) for better sealing to rough surfaces
- Optional sensing valve can be ordered separately (use medium-strength locking compound for installation)
- Filter screen available optionally



System design suction plates SHF

Our Highlights...

- Soft sealing lip
- Double internal sealing edge
- Specifically structured lower surface
- Modular design

Your Benefits...

- > Optimal adaptation to uneven workpiece surfaces
- > Very good sealing on rough and smooth surfaces
- > Highly dynamic movement and short cycle times
- > Gasket can be changed quickly without tools



Suction plates SHF being used for handling pressed wooden boards

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Suction area (Ø) from 125 mm to 210 mm

Designation Code Suction Plates SHF

Abbreviated designation	Suction area Ø in mm	Material and Shore hardness	Connection thread
Example SHF 210 NK-45 G1/2-IG:			
SHF	210	NK-45	G1/2-IG
SHF	125	NK-45	G1/4-IG (IG = female (F))
	160		G1/2-IG
	210		

Ordering Data Suction Plates SHF

Suction plate SHF (sealing ring + support plate) is delivered assembled. The assembly consists of:

- Sealing ring of type DR-SHF – elastomer part, available in various diameters
- Aluminium support plate – available with various threads

Available spare parts: sealing ring DR-SHF

Available accessories: sensing valve, filter screen

Suction Plates SHF

Type*	Part Number
SHF 125 NK-45 G1/4-IG	10.01.01.11788
SHF 160 NK-45 G1/2-IG	10.01.01.12025
SHF 210 NK-45 G1/2-IG	10.01.01.11814

*Additional material specifications at beginning of the section "Vacuum Suction Pads"

Ordering Data Spare Parts And Accessories Suction Plates SHF

Type	Sealing ring DR-SHF	Filter screen (center)	Filter screen (outside)	Sensing valve
SHF 125 NK-45 G1/4-IG	10.01.01.11783	10.07.01.00215	10.07.01.00215	10.05.10.00061
SHF 160 NK-45 G1/2-IG	10.01.01.12023	10.07.01.00110	10.07.01.00215	10.05.10.00061
SHF 210 NK-45 G1/2-IG	10.01.01.11809	10.07.01.00110	10.07.01.00215	10.05.10.00061

Technical Data Suction Plates SHF

Type	Suction force Ds [N]*	Suction force d2 [N]**	Volume [cm³]	Min. curve radius [mm] (convex)	Recom. internal hose diameter d [mm]***
SHF 125 G1/4-IG	625	290	72	305	9
SHF 160 G1/2-IG	1025	580	117	500	12
SHF 210 G1/2-IG	1770	1160	224	885	12

*The specified suction forces are theoretical values at a vacuum of -0.6 bar and with a smooth, dry workpiece surface - they do not include a safety factor

**Suction force referred to the sealing-edge diameter d2

***The recommended hose diameter refers to a hose length of approx. 2 m

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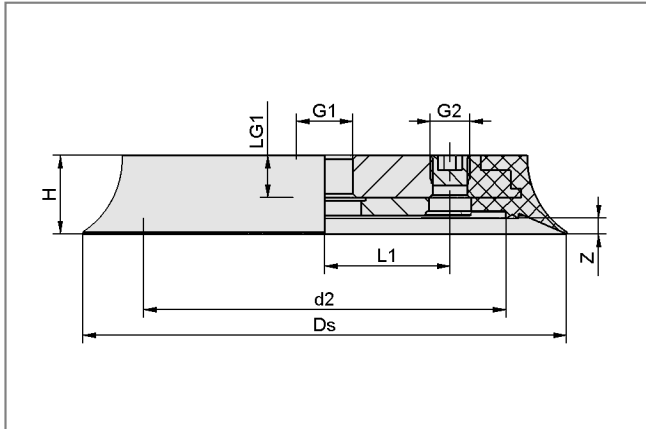


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Design Data Suction Plates SHF



SHF 125 to 210

Type*	Dimensions in mm**							
	d2	Ds	G1	G2***	H	L1	LG1	Z (Stroke)
SHF 125 G1/4-IG	85	125	G1/4"-F	G1/4"-F	26	26.5	14	6
SHF 160 G1/2-IG	120	160	G1/2"-F	G1/4"-F	26	41.4	14	6
SHF 210 G1/2-IG	170	210	G1/2"-F	G1/4"-F	26	52.8	14	6

*The connection dimensions for the sensing valve can be found under "Sensing valves TV/TVN" in Section "Valve technology"

**Acceptable dimensional tolerances for rubber sealings concerning to DIN ISO 3302-1 M3

***A plug is fitted in this connection in the factory

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- Vacuum Generators
- Valve Technology
- Switches and Monitoring
- Filters and Connections
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