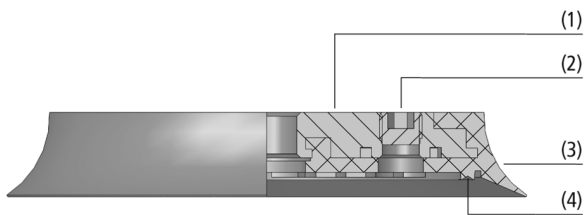


Suction Plates SHF

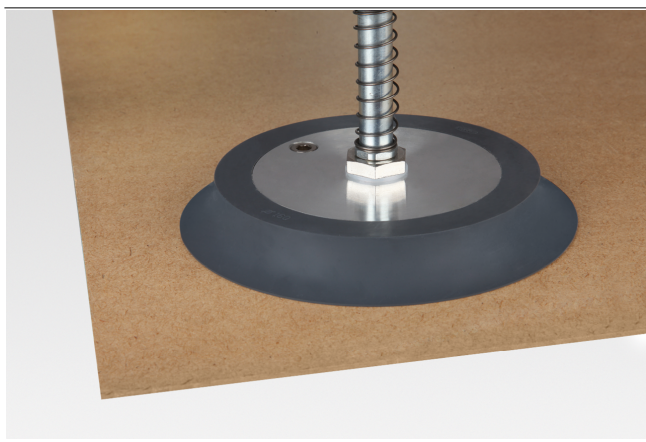
Suction area (\emptyset) from 125 mm to 210 mm



Suction Plates SHF



System Design Suction Plates SHF



Suction plates SHF being used for handling pressed wooden boards

Suitability for Industry Specific Applications

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)
- Side connection (2) normally sealed with a screw plug (glued into position for extra safety)
- Sealing ring clipped securely onto supporting plate with positive locking (can be changed without tools)
- Double internal sealing edge (4) for better sealing to rough surfaces
- Optional touch valve can be ordered separately (use medium-strength locking compound for installation)
- Filter screen available optionally

Product Highlights

- Soft sealing lip adapts optimally to uneven workpieces
- Double internal sealing edge provides optimum sealing on rough and smooth surfaces
- Special structure of the suction cup bottom enables applications with highest dynamics and short cycle times
- Seal can be changed quickly and without tools

Suction Plates SHF

Suction area (Ø) from 125 mm to 210 mm

Designation Code Suction Plates SHF

SHF	–	210	–	NK-45	–	G1/2-IG
1		2		3		4

1 – Abbreviated designation

Code	Version
SHF	Flat

2 – Suction area

Code	Diameter in mm
125...210	ø 125 to 210

3 – Material

Code	Material
NK-45	Natural rubber

4 – Connection

Code	Connection
G1/4-IG	G1/4-IG (IG = female (F))
G1/2-IG	G1/2-IG

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
- Aluminum support plate – available with various threads

Available spare parts: sealing ring DR-SHF

Available accessories: touch valve, filter screen

Ordering Data Suction Plates SHF

Type*	Part no.
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 Cups"

Ordering Data Spare Parts Suction Plates SHF

Type	Spare Parts	Part no.
SHF 125 NK-45 G1/4-IG	Sealing ring for SHF suction plate	DR-SHF 125 NK-45 10.01.01.11783
SHF 160 NK-45 G1/2-IG	Sealing ring for SHF suction plate	DR-SHF 160 NK-45 10.01.01.12023
SHF 210 NK-45 G1/2-IG	Sealing ring for SHF suction plate	DR-SHF 210 NK-45 10.01.01.11809

Ordering Data Accessories Suction Plates SHF

Type	Accessories	Part no.
SHF 125 NK-45 G1/4-IG	Touch Valve	TV G1/4-AG 13 10.05.10.00061
SHF 160 NK-45 G1/2-IG	Touch Valve	TV G1/4-AG 13 10.05.10.00061
SHF 210 NK-45 G1/2-IG	Touch Valve	TV G1/4-AG 13 10.05.10.00061

Type	Accessories	Part no.
SHF 125 NK-45 G1/4-IG	Filter screen (outside)	SIEB 19.5x1 MS 100 10.07.01.00215
SHF 160 NK-45 G1/2-IG	Filter screen (outside)	SIEB 19.5x1 MS 100 10.07.01.00215
SHF 210 NK-45 G1/2-IG	Filter screen (outside)	SIEB 19.5x1 MS 100 10.07.01.00215

Type	Accessories	Part no.
SHF 125 NK-45 G1/4-IG	Filter screen (center)	SIEB 19.5x1 MS 100 10.07.01.00215
SHF 160 NK-45 G1/2-IG	Filter screen (center)	SIEB 27x1 MS-A2 100 10.07.01.00110
SHF 210 NK-45 G1/2-IG	Filter screen (center)	SIEB 27x1 MS-A2 100 10.07.01.00110

Suction Plates SHF

Suction area (Ø) from 125 mm to 210 mm

Technical Data Suction Plates SHF

Type	Suction force (-600 mbar) [N]*	Suction force d2 [N]**	Volume [cm ³]	Workpiece radius min. (convex) [mm]	Hose diameter (recom.) d [mm]***
SHF 125 NK-45 G1/4-IG	625	290	70	305	9
SHF 160 NK-45 G1/2-IG	1,025	580	117	500	12
SHF 210 NK-45 G1/2-IG	1,770	1,160	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

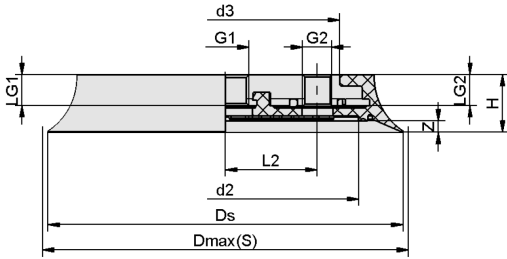
**Suction force referred to the sealing-edge diameter d2

***The recommended hose diameter is based on a hose length of approx. 2 m

Suction Plates SHF

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

Design Data Suction Plates SHF



SHF

Suction Plates SHF

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

Design Data Suction Plates SHF

Type*	d2 [mm]	d3 [mm]	Dmax(S) [mm]**	Ds [mm]	G1	G2***	H [mm]	L2 [mm]	LG1 [mm]	LG2 [mm]	Z (Stroke) [mm]
SHF 125 NK-45 G1/4- IG	85	70	133	125	G1/4"-F	G1/4"-F	26	26.5	14	12.8	6
SHF 160 NK-45 G1/2- IG	120	103	168	160	G1/2"-F	G1/4"-F	26	41.4	14	12.8	6
SHF 210 NK-45 G1/2- IG	170	134	218	210	G1/2"-F	G1/4"-F	26	52.8	14	12.8	6

*Acceptable dimensional tolerances for rubber parts concerning to DIN ISO 3302-1 E3

**External dimension of the suction cup when it is pressed against the workpiece by the vacuum

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