



# MBN Floating suction cup

Diameter:20~120mm

Holding force:2.0~104N



Composite material



Air permeability

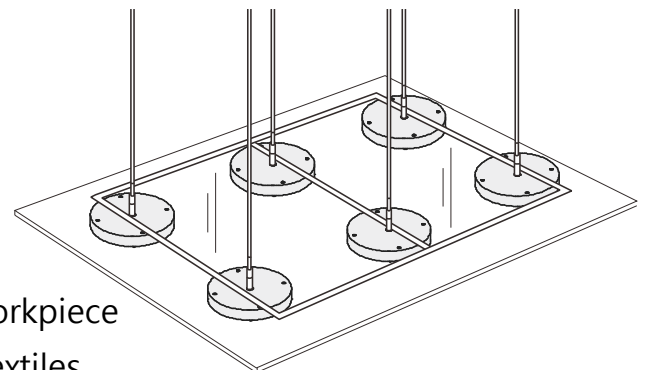


## Introduction

- The suction cup "floats" on an air cushion
- High volume flow rate at a low vacuum
- No air is drawn in through the workpieces
- Vacuum device manufactured according to Bernoulli's principle
- Can handle workpieces without contacting the workpiece
- Good compensation for air leakage
- Can securely and effectively separate light, thin and breathable workpieces
- Compressed air connected directly without additional generator

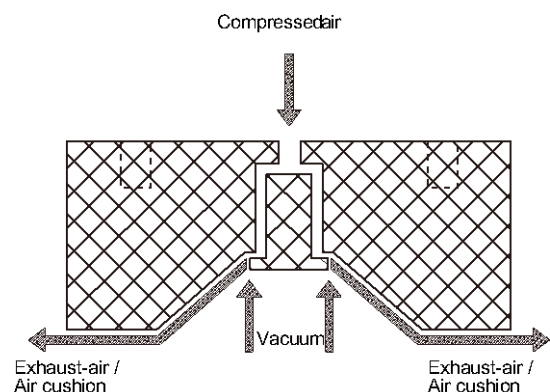
## Application

- Applicable to handling easily-damaged and sensitive workpieces such as silicon wafers, solar cells
- Applicable to handling air permeable workpieces such as PCBs, PVC boards, textiles
- Applicable to separating light and thin workpieces such as plastic film, paper



## Structure

- 4 threaded holes in the top
- Compressed air inlets in vertical and horizontal directions



## purchase guide

### MBN 20 SF M5-IG

① ② ③ ④

① Product series	② Size specification		③ Streaming element	④ Joint specification		
MBN	20	- φ 20mm	60	- φ 60mm	SF - Standard Flow	M5-IG - M5 female thread
	30	- φ 30mm	100	- φ 100mm	HF - High Flow	G1/8-IG - G1/8 female thread
	40	- φ 40mm	120	- φ 120mm		G1/4-IG - G1/4 female thread
Note: IG=Female thread						

## Model specifications

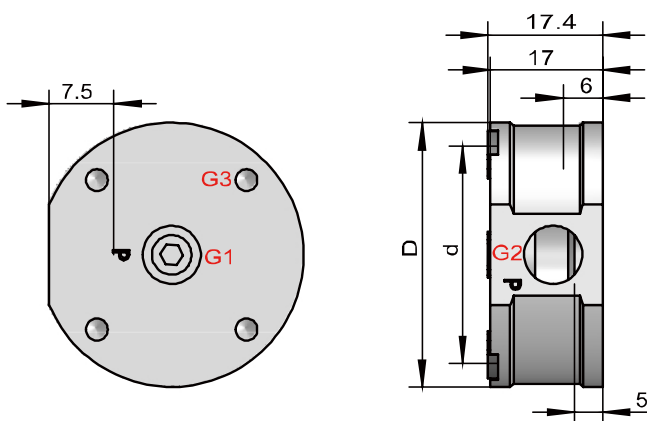
Model specification	M5-IG	G1/8-IG	G1/4-IG
MBN 20 SF	●	-	-
MBN 20 HF	●	-	-
MBN 30 SF	●	-	-
MBN 30 HF	●	-	-
MBN 40 SF	-	●	-
MBN 40 HF	-	●	-
MBN 60 SF	-	●	-
MBN 60 HF	-	●	-
MBN 100 SF	-	-	●
MBN 100 HF	-	-	●
MBN 120 SF	-	-	●
MBN 120 HF	-	-	●

## Technical parameters

Model	Holding force N	Air consumption l/min	Operating pressure bar	Weight g
MBN 20 SF M5-IG	2.0	100	1...6	12
MBN 20 HF M5-IG	3.0	140	1...6	12
MBN 30 SF M5-IG	4.0	100	1...6	31
MBN 30 HF M5-IG	5.0	140	1...6	31
MBN 40 SF G1/8-IG	6.5	100	1...6	51
MBN 40 HF G1/8-IG	10.5	190	1...6	51
MBN 60 SF G1/8-IG	13.0	150	1...6	118
MBN 60 HF G1/8-IG	18.5	225	1...6	118
MBN 100 SF G1/4-IG	46.0	225	1...6	330
MBN 100 HF G1/4-IG	55.5	420	1...6	330
MBN 120 SF G1/4-IG	89.0	225	1...6	500
MBN 120 HF G1/4-IG	104.0	420	1...6	500

Note: MBN (20\30\40\60\100\120 represents diameter); SF: standard flow; HF: high flow; IG: female thread

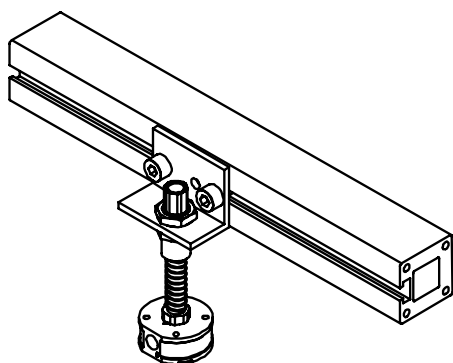
## Design parameters



G1: Compressed air inlet  
G2: Compressed air inlet  
G3: Mounting hole

Model	Size (mm)	Size (mm)				
		D	d	G1	G2	G3
MBN 20 SF M5-IG		20	15	M5-IG	M5-IG	M3-IG
MBN 20 HF M5-IG		20	15	M5-IG	M5-IG	M3-IG
MBN 30 SF M5-IG		30	22	M5-IG	M5-IG	M4-IG
MBN 30 HF M5-IG		30	22	M5-IG	M5-IG	M4-IG
MBN 40 SF G1/8-IG		40	32	G1/8-IG	G1/8-IG	M4-IG
MBN 40 HF G1/8-IG		40	32	G1/8-IG	G1/8-IG	M4-IG
MBN 60 SF G1/8-IG		60	45	G1/8-IG	G1/8-IG	M4-IG
MBN 60 HF G1/8-IG		60	45	G1/8-IG	G1/8-IG	M4-IG
MBN 100 SF G1/4-IG		100	75	G1/4-IG	G1/8-IG	M4-IG
MBN 100 HF G1/4-IG		100	75	G1/4-IG	G1/8-IG	M4-IG
MBN 120 HF G1/4-IG		120	105	G1/4-IG	G1/8-IG	M4-IG
MBN 120 SF G1/4-IG		120	105	G1/4-IG	G1/8-IG	M4-IG

## Installation illustration



## Recommended buffer plunger specifications

Type	Model
Buffer plunger	MTE G1/8-AG□ -M16(VG)
	MTE G1/4-AG□ -M20(VG)