

# Suction Cups

## HSN

Needle suction

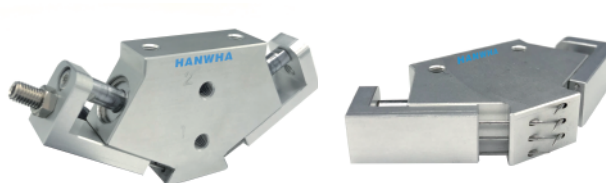
**HANWHA**



Composite    Textile

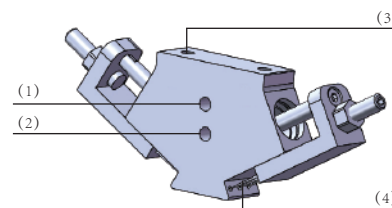
### Product characteristics

- \* Needle suckers for handling non-rigid and porous materials (mainly textiles)
- \* Handling materials that are difficult to pick up with vacuum, such as composite fibers, fluff fabrics, filtration materials, insulation and foam materials
- \* Small needle inserted deep money, can be quickly released
- \* Adjustable needle stroke
- \* Prevents workpiece from falling even in the event of power failure
- \* Firmly absorb high-permeability difficult-to-use vacuum handling parts



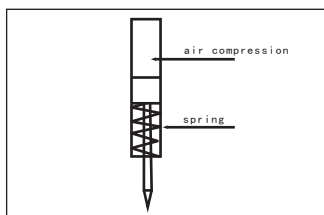
### Product structure

- \* Body: made of aluminum alloy, small size, light weight
- \* (1) Connection port: used for compressed air connection "control needle ejection"
- \* (2) Connection port: used for compressed air connection "control needle ejection"
- \* (3) Mounting screw: M5x2
- \* (4) Steel needle: The steel needle insertion Angle is 30°

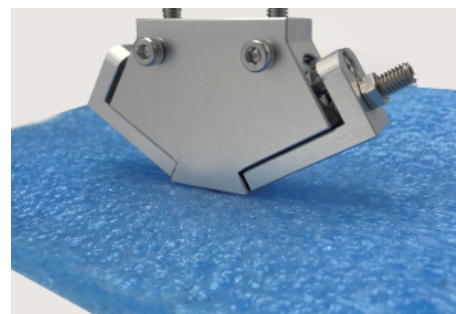


### Product advantages

- \* Especially suitable for installation in confined Spaces
- \* Only one control signal
- \* Perfect for other mounting parts
- \* Can handle small workpieces
- \* Simple control pneumatic valve, simple control
- \* Can handle slender or diverse workpieces



Schematic diagram of gas path



\*Example of needle suction composite material

## Suction Cups

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Needle suction

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Composite

Textile



### HSN100 Ordering NO

HSN	—	100
1		2

1-Series	2-Operating stroke
HSN	100   10mm



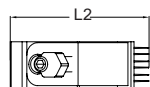
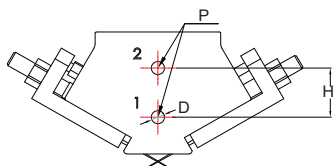
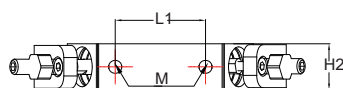
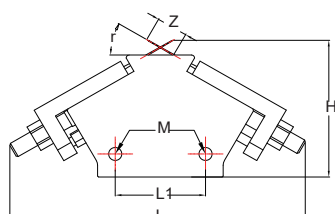
### HSN100 Technical Data

Models	Number of needles	Needle diameter [mm]	Operating angle [o]	Manner of execution	Stroke [mm]
HSN100	6	φ1	30	double-acting	2

Models	Operating temperature [°C]	Maximum working pressure [MPa]	Minimum working pressure [MPa]	Inlet diameter	Weight [g]
HSN100	5~60	0.7	0.4	M5	85



### HSN100 Design Data



Size[mm]<sup>(1)</sup>

Models	L	L1	L2	H	H1	H2	M2
HSN100	95	29	44.6	45	16	15	2-M5

Size[mm]<sup>(3)</sup>

Models	P	D	r	Z
HSN100	M5	φ4	30°	10

HSN100

(1) Compliant with DIN ISO 3302-1 M3 rubber parts allowable dimensional tolerances. Z is the trip



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