

# SNC Series

## Needle Gripper

**AIRBEST**



COMPOSITE MATERIAL



FABRIC

### Features

- ◊ Handling the workpieces by needles
- ◊ Needles controlled by spring or double -acting pneumatic cylinder
- ◊ Designed with intersecting needles
- ◊ Adjustable needle stroke
- ◊ Reduce the effective contact area

### Advantages

- ◊ Suitable for handling small size workpieces
- ◊ Simple pneumatic valve, easy to control
- ◊ Short work cycle, speed up the process
- ◊ For handling narrow and long or irregular workpieces
- ◊ The workpiece can be prevented from falling even in the case of power failure
- ◊ Preset separately according to the thickness, size and shape of workpieces
- ◊ Reliable handling of high porous workpieces

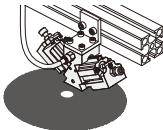


### Application

- ◊ Needles with different dimensions, fixed or adjustable needle stroke is optional, to handle non-rigid or high porous material, which is hardly gripped by vacuum, such as composite material, fluffy fabric, filter material, woven FRP, carbon fiber, insulation and foam material, etc.

### Notice

- ◊ Be careful when taking the needle gripper, there are needles at the bottom
- ◊ The exhaust function must be reserved when the solenoid valve controls the air circuit in order to prevent abnormal temperature during high frequency action



### Structure



- ◊ Solid aluminum housing
- ◊ 4pcs needles, insertion angle 30°
- ◊ Needles are controlled by compressed air



- ◊ Solid aluminum housing
- ◊ 10pcs needles, insertion angle 30°
- ◊ Double-acting pneumatic cylinder drive
- ◊ Continuous variable stroke adjustment



- ◊ Solid aluminum housing
- ◊ 32pcs needles, insertion angle 30°
- ◊ Compressed air drives plunger to control needle movement
- ◊ Continuous variable stroke adjustment

Special Vacuum Grippers

SLG

SNC

SNV

SLP

SLB

SLW

SLF

### How to order

## SNC 10

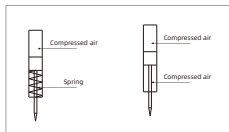
① ②

① Series	② Needle specification
SNC	4 - 4× $\phi$ 0.8mm 10 - 10× $\phi$ 1.2mm 32 - 32× $\phi$ 0.8mm

### Technical parameters

Model	QTY of Needle PCS	Needle dia. mm	Air supply pressure range bar	Rated air supply pressure bar	Stroke mm	Working temperature °C	Weight g
SNC4	4	$\phi$ 0.8	4.0~6.0	4.0	3	5~60	85
SNC10	10	$\phi$ 1.2	3.0~7.0	4.0	7	5~60	310
SNC32	32	$\phi$ 0.8	4.0~6.0	4.0	5	5~60	125

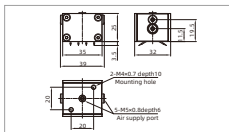
### Air circuit schematic diagram



SNC4

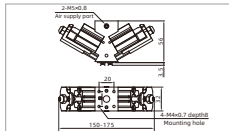
SNC10 SNC32

### Dimensions(mm)

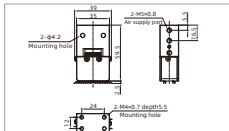


SNC4

### Dimensions(mm)



SNC10



SNC32