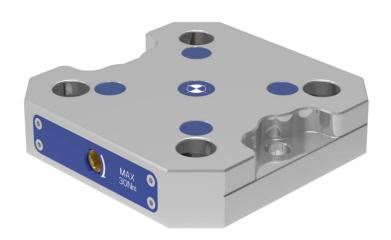


# Mechanical zero point

# Specification&Dimensions



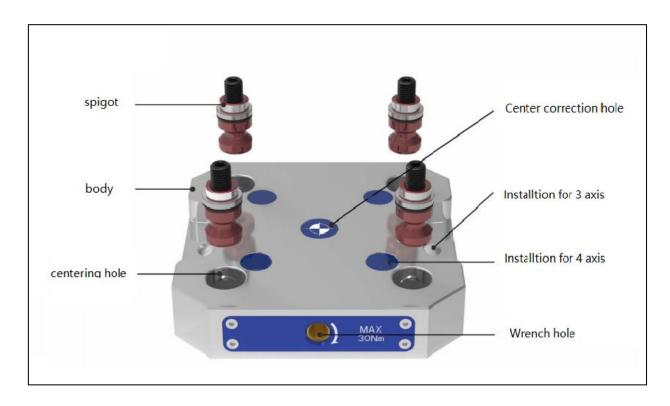
#### Mechanical zero point basic:

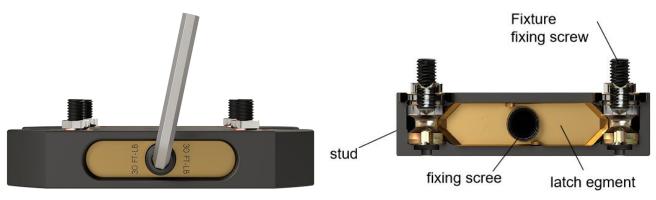
The four hole mechanical zero point clamping is a positioning tool that can quickly exchange fixtures and centering fixtures. The standard installation ways enables the rapid and repeatable conversion of vice, pallet, chuck and other tools between machine tools, and ensures the accuracy without disassembly and aligement time

#### Benefits used zero point clamping system

- Repetition accuracy is within 0.005mm
- Large bearing area, suitable for heavy cutting
- Reduce fixture replacement and adjustment time by more than 80%
- Fixtures can be standardized
- Numerous combinations of tooling and fixtures can be designed

#### **Mechanical zero point structure:**



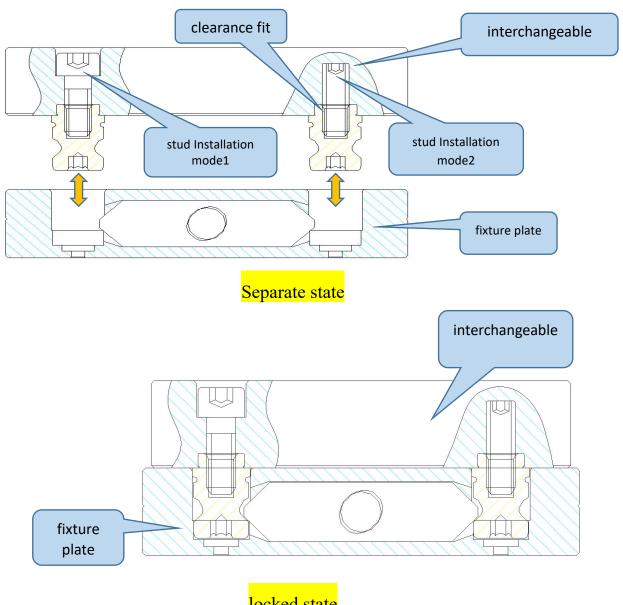


#### Fixture combination case

With the mechanical zero point plate, you can design various tooling fixtures flexibly, and exchange them among three-axis, four axis and five axis machine tools quickly to reduce the downtime of the machine tool



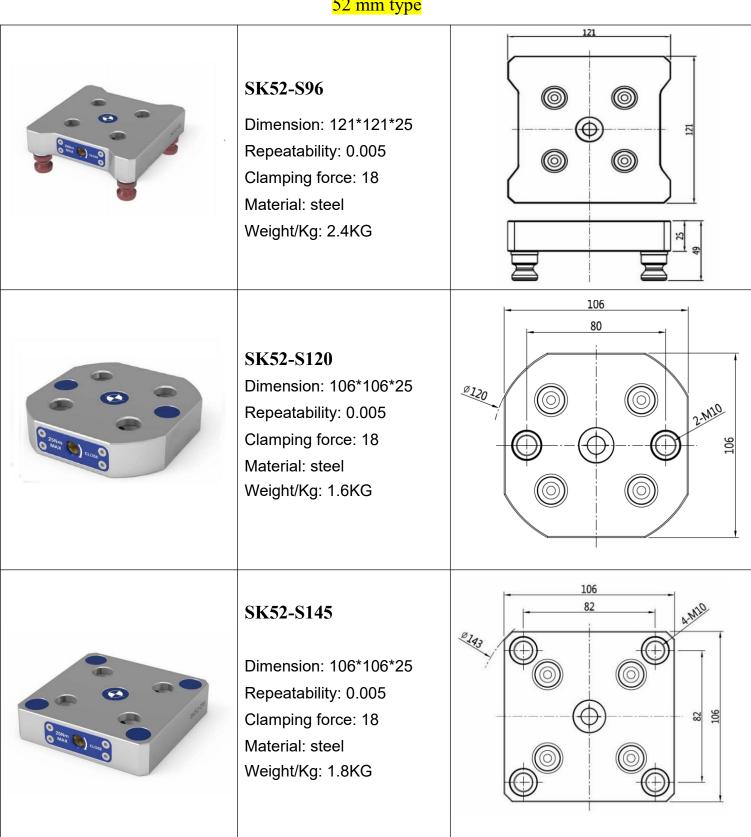
#### Plate installation



locked state

### Mechanical zero point specification:

### 52 mm type

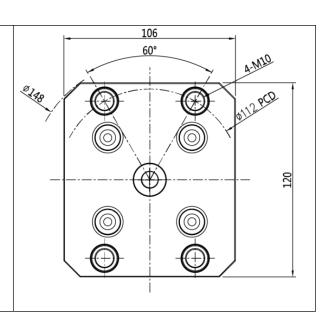




#### SK52-S150

Dimension: 120\*106\*25 Repeatability: 0.005 Clamping force: 18

Material: steel Weight/Kg: 2KG



# 96mm type

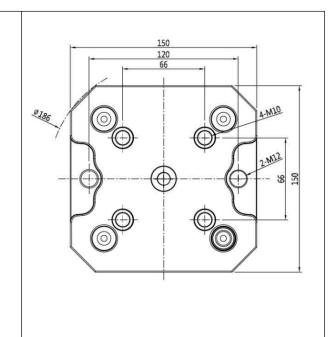


#### SK96-S190

Dimension: 150\*150\*30 Repeatability: 0.005

Clamping force: 22

Material: steel Weight/Kg: 4KG

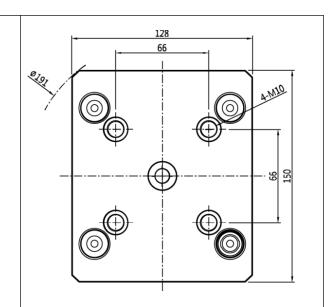


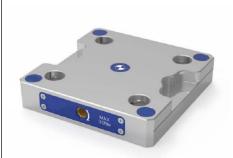


#### SK96-S195

Dimension: 150\*128\*30 Repeatability: 0.005 Clamping force: 22

Material: steel Weight/Kg: 4.6KG

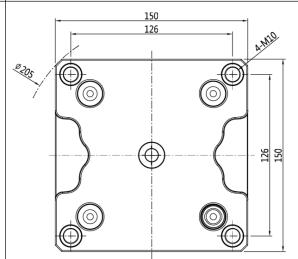


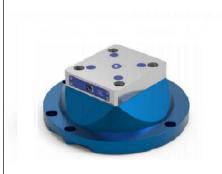


#### SK96-S205

Dimension: 150\*150\*30 Repeatability: 0.005 Clamping force: 22

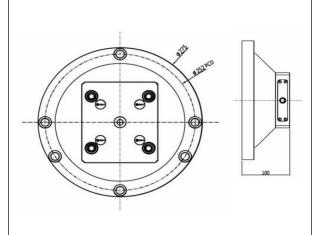
Material: steel Weight/Kg: 4KG



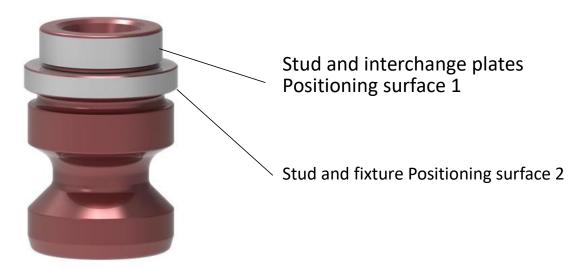


#### SK96-S275

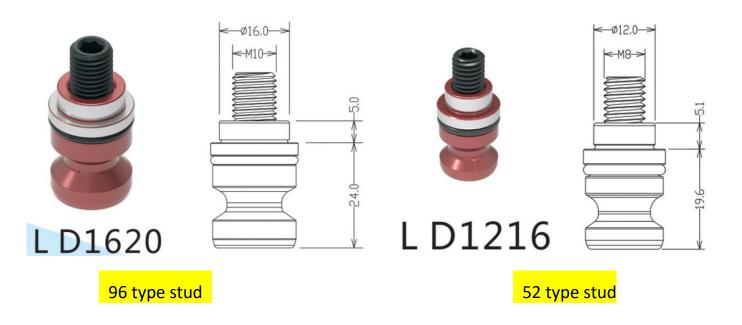
Material: steel Weight/Kg: 9.6KG



### Zero point stud:



☆ Note: the stud and the exchange plate should be interstitial. When installing stud, lubricate the cylinder surface to prevent straining the surface



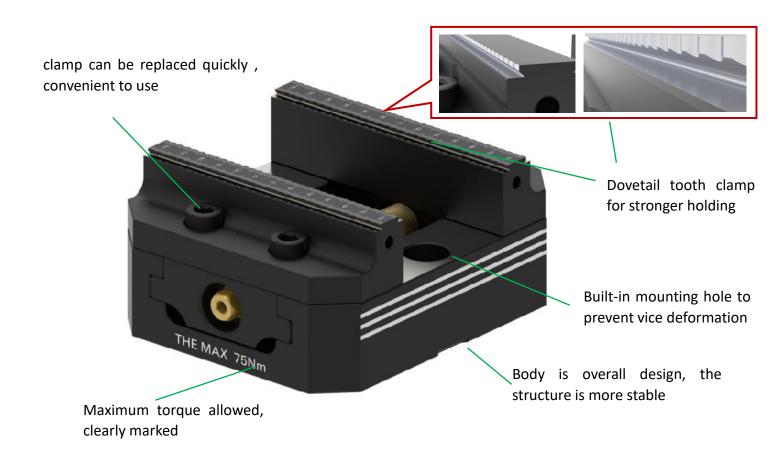
## **Self-centering vise**

SILVERCNC Self centering vise is applicable to various CNC processing fields. It has the characteristics of high precision, light weight, large clamping range and flexible operation. It can realize positioning and clamping in one step, and its claw can hold the work piece with complex contour. The work piece with different contour can be processed by simply changing the claw. The accuracy of repeated positioning is within 0.02mm. Vises can be connected and replaced with major foreign brands, such as Lang brand, 5th, Jaggens, Schunk, etc.

Its compact structure and practical design make it the most popular choice for most machining plants in the world.

It is more flexible when used with four hole mechanic zero point system.

SILVERCNC self centering vise is a good choice for flexible production!



### **Various Self-centering vise**

#### 1. small size vise

SC-75100 and SC-75150 are small size vise. They are suitable for clamping small products and can be used with 52 type four hole zero point base to realize rapid clamping and positioning and improve production efficiency.





Model:SC-75100

Dimensions: 75\*100\*56mm

Repeatability: 0.01mm

Clamping range: 0-77mm

Width: 75mm

maximum torque: 60N/m

Weight: 2.5KG

Model: SC-75150

Dimensions: 75\*150\*56mm

Repeatability: 0.02mm

Clamping range: 0-121mm

Width: 75mm

maximum torque: 60N/m

Weight: 4KG

#### 2. Medium size vise

SC-130155 and SC125-128 are medium size self centering vise, they are the most widely used and are most loved by the majority of users. It can be used with 96 type four hole zero point base, which is more convenient and fast, and can quickly improve the production efficiency.



Model: SC-130155

Dimensions: 130\*155\*73.5mm

Repeatability: 0.02mm

Clamping range: 0-150mm

Width: 130mm

maximum torque: 75N/m

Weight: 7KG



Model: SC-125128

Dimensions: 125\*128\*73.5mm

Repeatability: 0.02mm

Clamping range: 0-128mm

Width: 125mm

maximum torque: 75N/m

Weight: 6KG

### 3. Large size centering vice

SC-130250 and SC150-250 are large size self centering vise, they are used for clamping large parts. It can be used with 96 type four hole zero point base, which is more convenient and fast, and can quickly improve the production efficiency.





`

Model: SC-150250

Dimensions: 130\*250\*73.5mm

Repeatability: 0.02mm

Clamping range: 0-240mm

Width: 130mm

maximum torque: 75N/m

Weight: 9KG

Model: SC-150250

Dimensions: 150\*250\*94mm

Repeatability: 0.02mm

Clamping range: 0-240mm

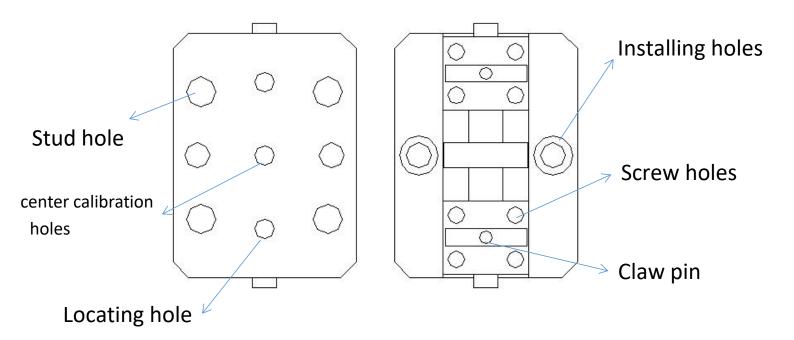
Width: 150mm

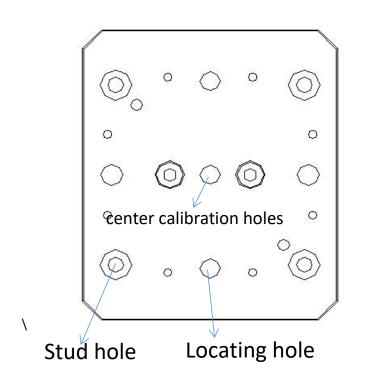
maximum torque: 100N/m

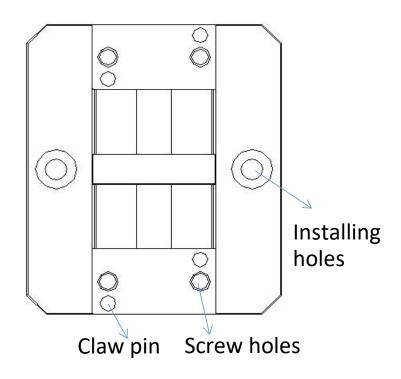
Weight: 16KG

### Installation and positioning mode of self centering vices

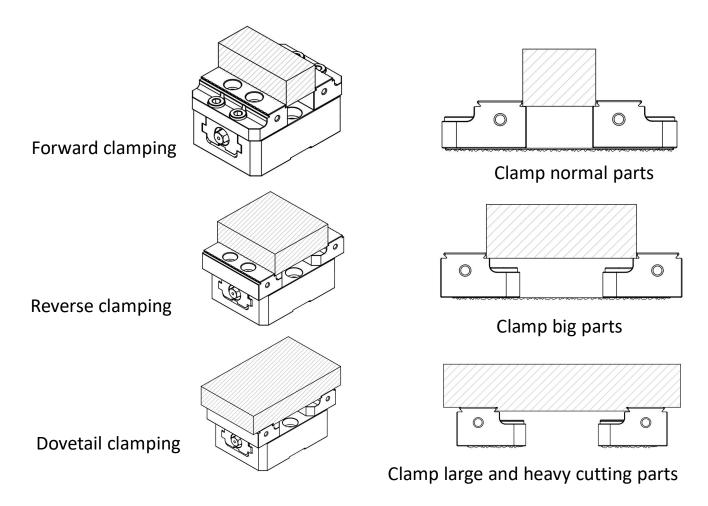
- 1. It can be directly installed on the machine tool workbench. There are positioning holes and center calibration holes on the back of the jaw, which is convenient for the center calibration of four axis and five axis machine tools.
- 2. It can be used together with four hole zero point base clamp to realize rapid exchange between machine tools and quickly improve production efficiency.



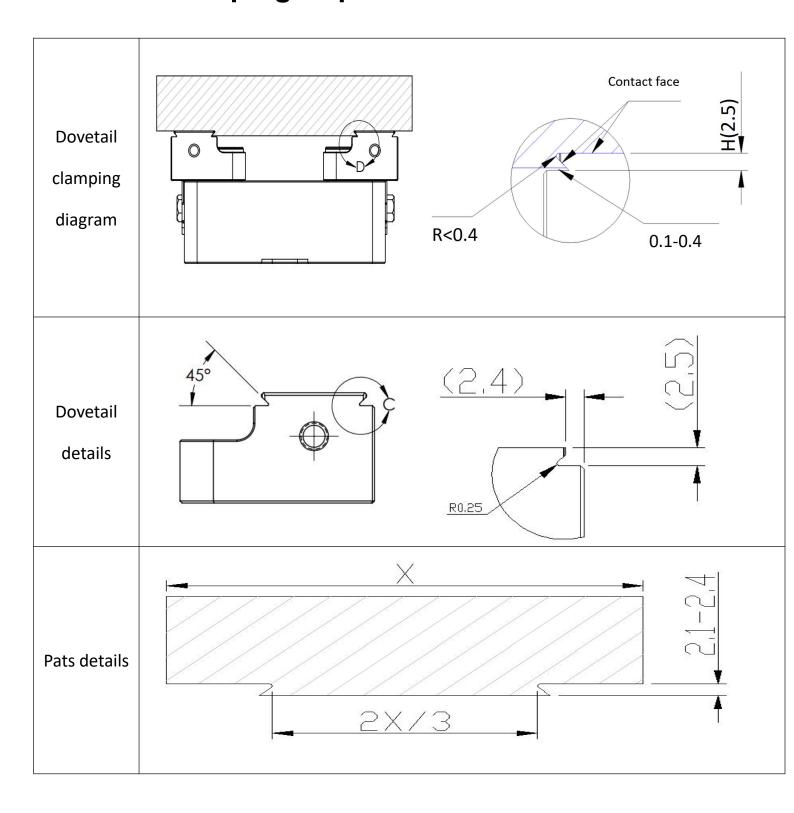




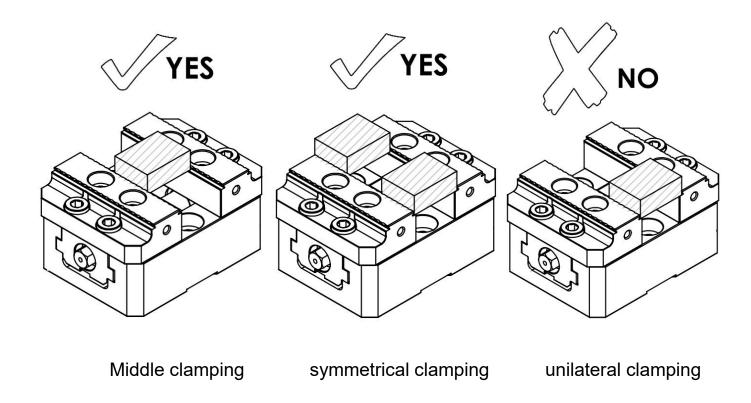
# Usage of self centering vise



# **Dovetail clamping requirements**



# **Correct clamping method**



# Zero point plate and self centering vise example







