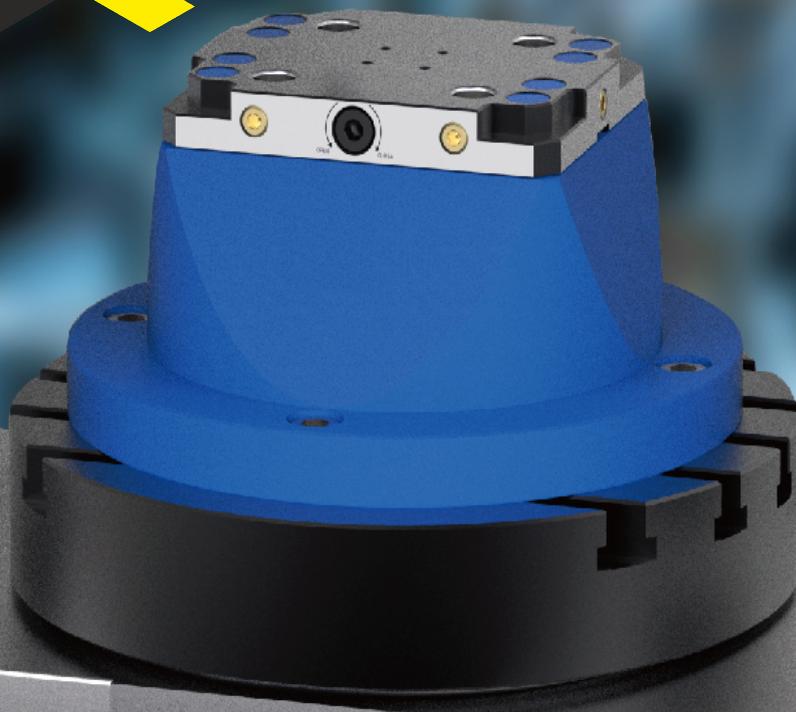
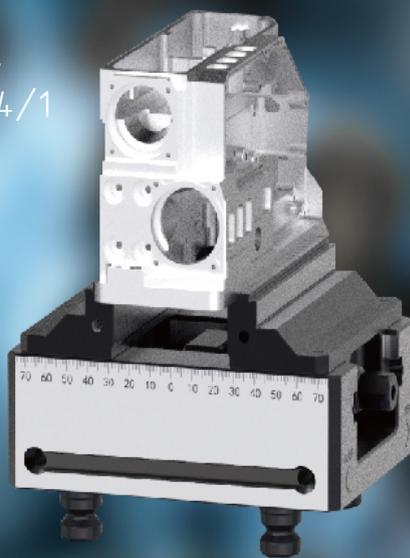
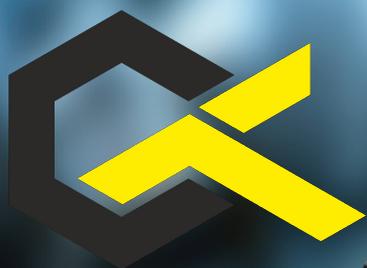


SELF CENTERING VISE & ZERO POINT PLATE

A solution that can run different products on the same platform to maintain a consistent and repeatable machining process.

Besides the demands of cutting tools, toolholders in industry, HARLINGEN pay also special attention for workholding system. For this reason Harlingen developed the Centering Vise and Zero Point plate to unlock the full potential of your 3-, 4- and 5-Axis machines

ООО "Современные Технологии НС"
125310, г. Москва, Пятницкое шоссе,
домовладение 54, корпус 1, офис 204/1
Тел.: +7 (495) 181-23-88
Моб.: +7 (968)712-88-42
office@creativetechnologyns.ru
www.creativetechnologyns.ru



2025

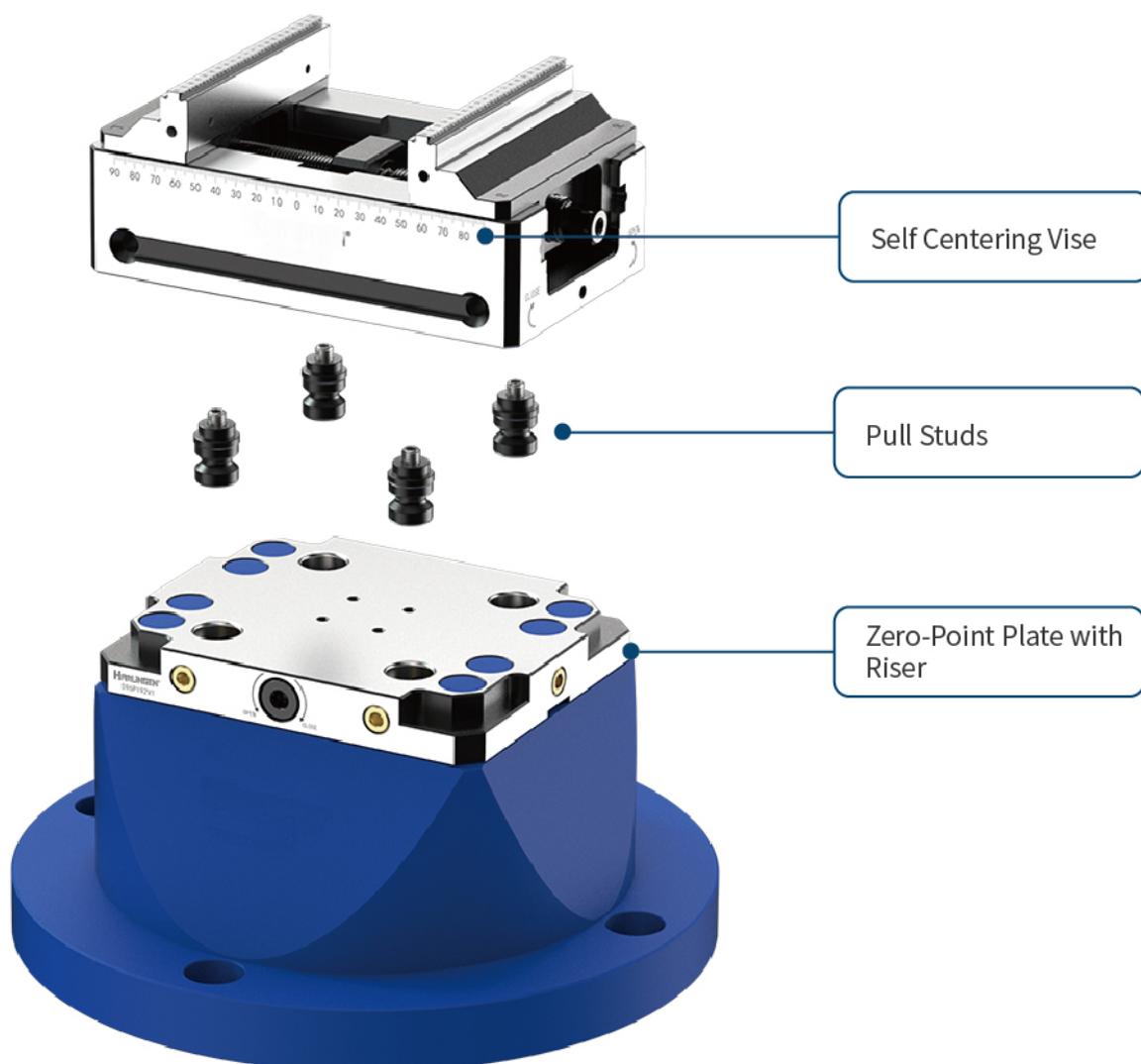
Self centering vise & zero point plate

With this workholding system you can easily set up new or prototype job, It will save much time and cost specially while moving jobs from one machine to another due to reduced set-up time and repeatable clamping accuracy in the μ -range guarantees high process reliability

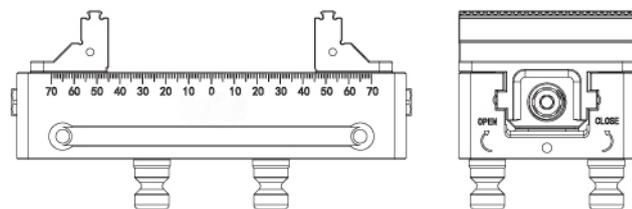
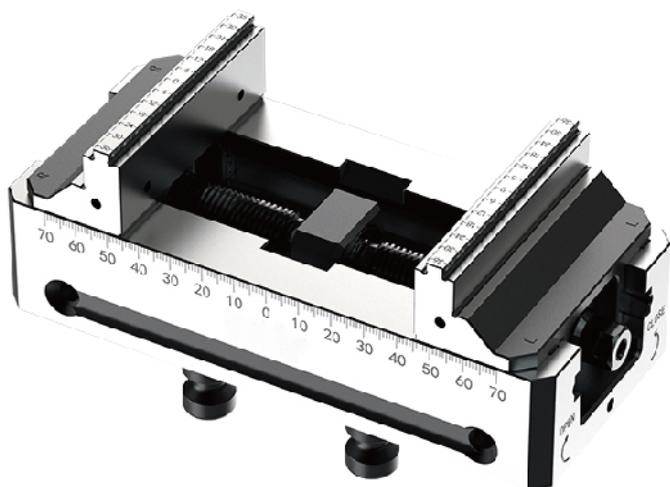
This system has following features

- High clamping force
- Perfect repeatability
- Strong stability
- Modular design for flexible extensions
- Compact design
- Low maintenance cost

Due to the centric clamping and the slim design, clamped work-pieces are ideally processed from all sides.



52mm Grid Self Centering Vise



- Center Repeatability: 0.02mm
- Clamping Force: 14,000N
- Max.Torque: 70N.m
- Material: Stainless Steel Integrated automation interface
- Reversible Jaws can be used on both sides

Reversible Jaw with serration on both side for clamping rigidity and general clamping height 3.0mm

Jaw with threaded holes for fixing Positioning block

Hardened and DLC processed Screw for long life time

Centering device with sealing, repeated clamping accuracy $\pm 0.02\text{mm}$.

Solid Hardened Jaw with DLC processed surface for long life time

T-type guide design ensures clamping accuracy and rigidity.

More clearly scaling.

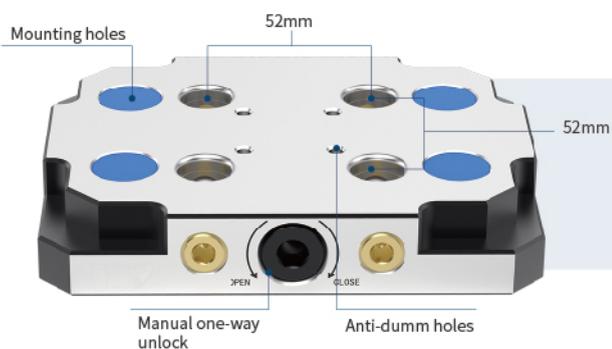
Pre-tightening device eliminate gap for improving the clamping accuracy and stability.

M5 thread hole for RFID insert for automation.

Gripper groove for improved handling and automation pickup.

Hardened and QPQ processed Base made of Martensitic Stainless Steel for Anticorrosion/Wear-resistant and Long life time.

Order No.	Model	Size(mm)			Capacity(mm)	Weight (kg)
		Jaw width	Overall Length	Height		
733-11-005	S52P105V2	77	105	87	0-95	2.8
733-11-010	S52P130V2	77	130	87	0-120	3.2
733-11-015	S52P170V2	77	170	87	0-160	3.8
733-11-020	S52P210V2	77	210	87	0-200	4.4



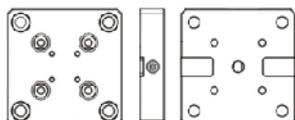
52mm Grid Quick change Zero-Point Plate

- Repeatability: 0.005mm
- Material: Steel
- Clamping Force: 20,000N
- Unlock: Manual



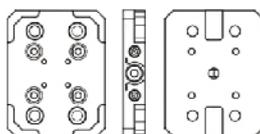
Model: S52P125V1

Order No.771-11-005
Size: 125x125mm



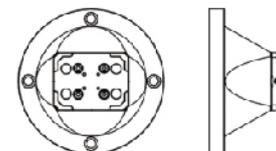
Model: S52P150V1

Order No.771-11-010
Size: 150x116mm



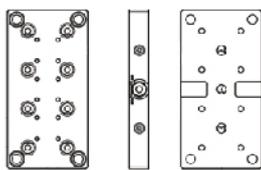
Model: S52P315V1

Order No.771-11-015
Size: 150x116mm with Riser



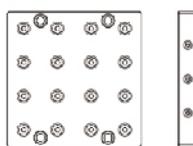
Model: S52P213V1

Order No.771-11-020
Double Grid plate
Size: 213x108mm



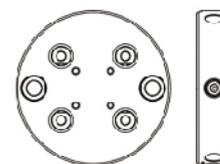
Model: S52P208V1

Order No.771-11-025
Multi- Grid plate
Size: 208x208mm



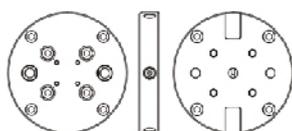
Model: S52P125V2

Order No.771-11-030
Size: Ø125mm



Model: S52P160V1

Order No.771-11-035
Size: Ø160mm

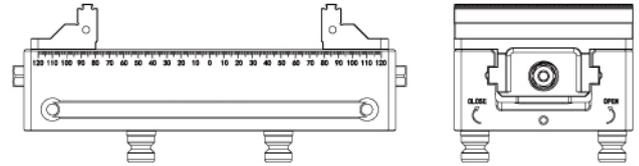
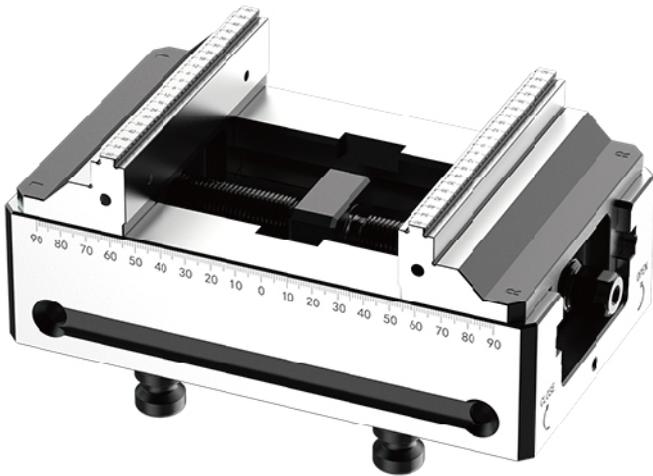


Model: S52P290V1

Order No.771-11-040
3 Sided Grid plate
Size: Ø290mm

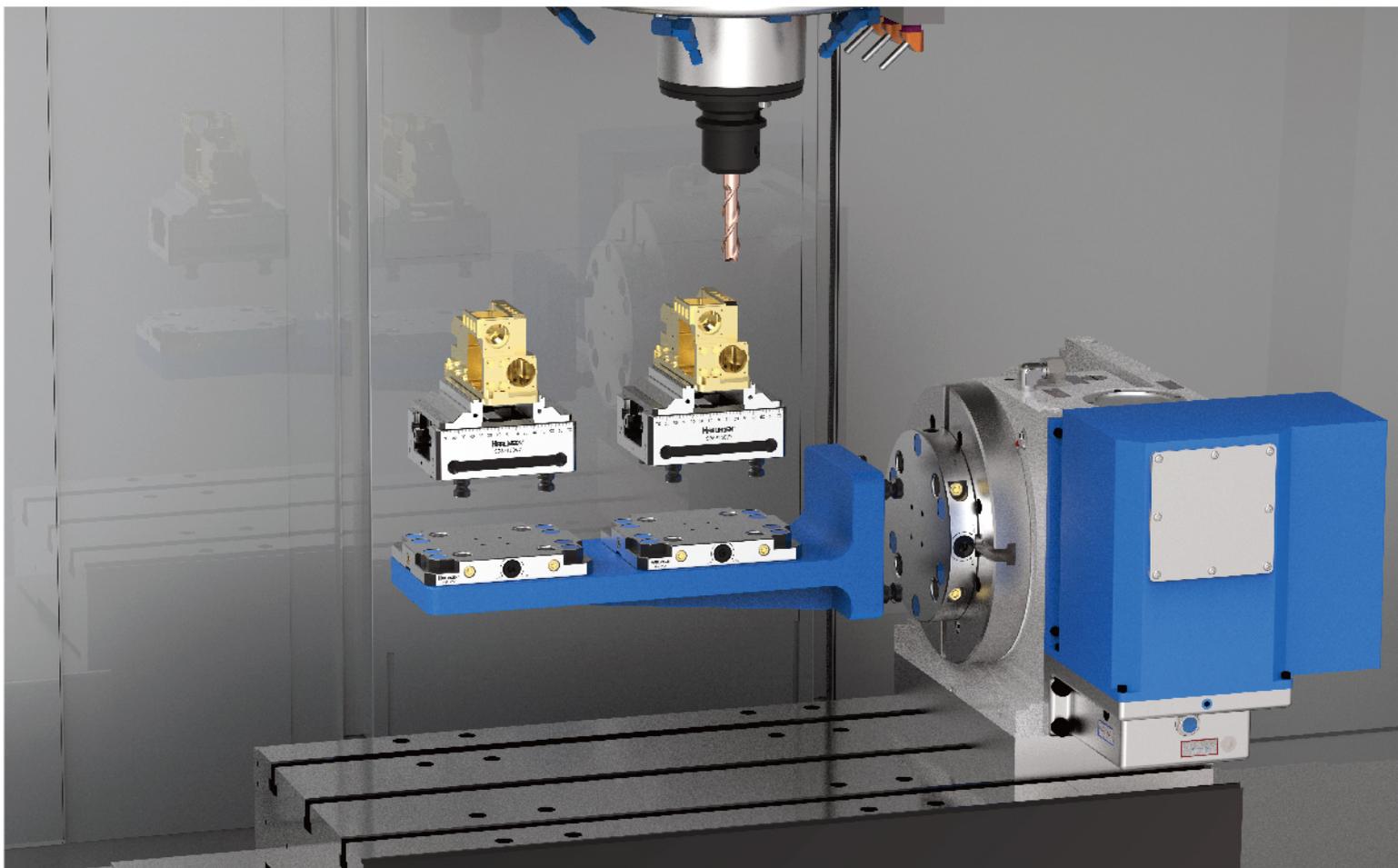


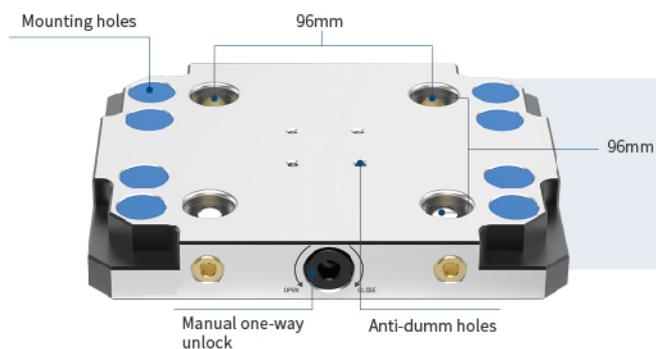
96mm Grid Self Centering Vise



- Center Repeatability: 0.02mm
- Clamping Force: 20,000N
- Max.Torque: 100N.m
- Material: Stainless Steel
- Integrated automation interface
- Reversible Jaws can be used on both sides

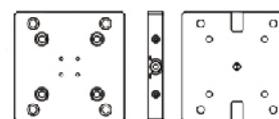
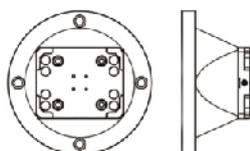
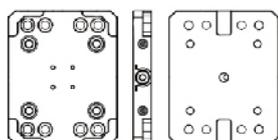
Order No.	Model	Size(mm)			Capacity(mm)	Weight (kg)
		Jaw width	Overall Length	Height		
733-12-005	S96P160V2	125	160	111	0-150	8.9
733-12-010	S96P210V2	125	210	111	0-200	10.8
733-12-015	S96P260V2	125	260	111	0-250	12.6
733-12-020	S96P310V2	125	310	111	0-300	14.5
733-12-025	S96P360V2	125	360	111	0-350	16.4





96mm Grid Quick change Zero-Point Plate

- Repeatability: 0.005mm
- Clamping Force: 30,000N
- Material: Steel
- Unlock: Manual



Model: S96P192V1

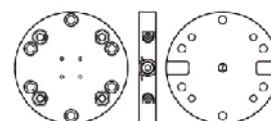
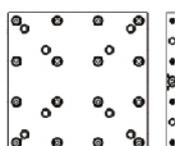
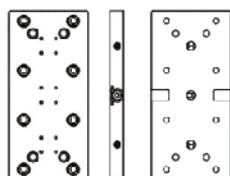
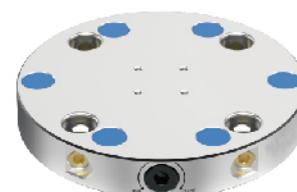
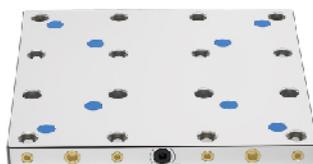
Order No.771-12-005
Size: 156x192mm

Model: S96P315V1

Order No.771-12-010
Size: 156x192mm with Riser

Model: S96P192V2

Order No.771-12-015
Size: 192x192mm



Model: S96P330V1

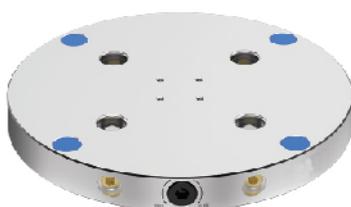
Order No.771-12-020
Double Grid plate
Size: 156x330mm

Model: S96P330V2

Order No.771-12-025
Multi- Grid plate
Size: 330x330mm

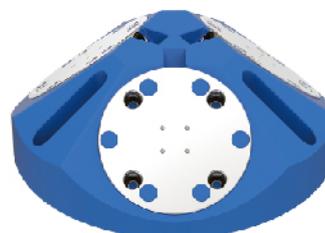
Model: S96P176V1

Order No.771-12-030
Size: Ø176mm



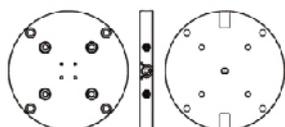
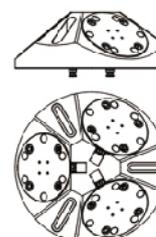
Model: S96P246V1

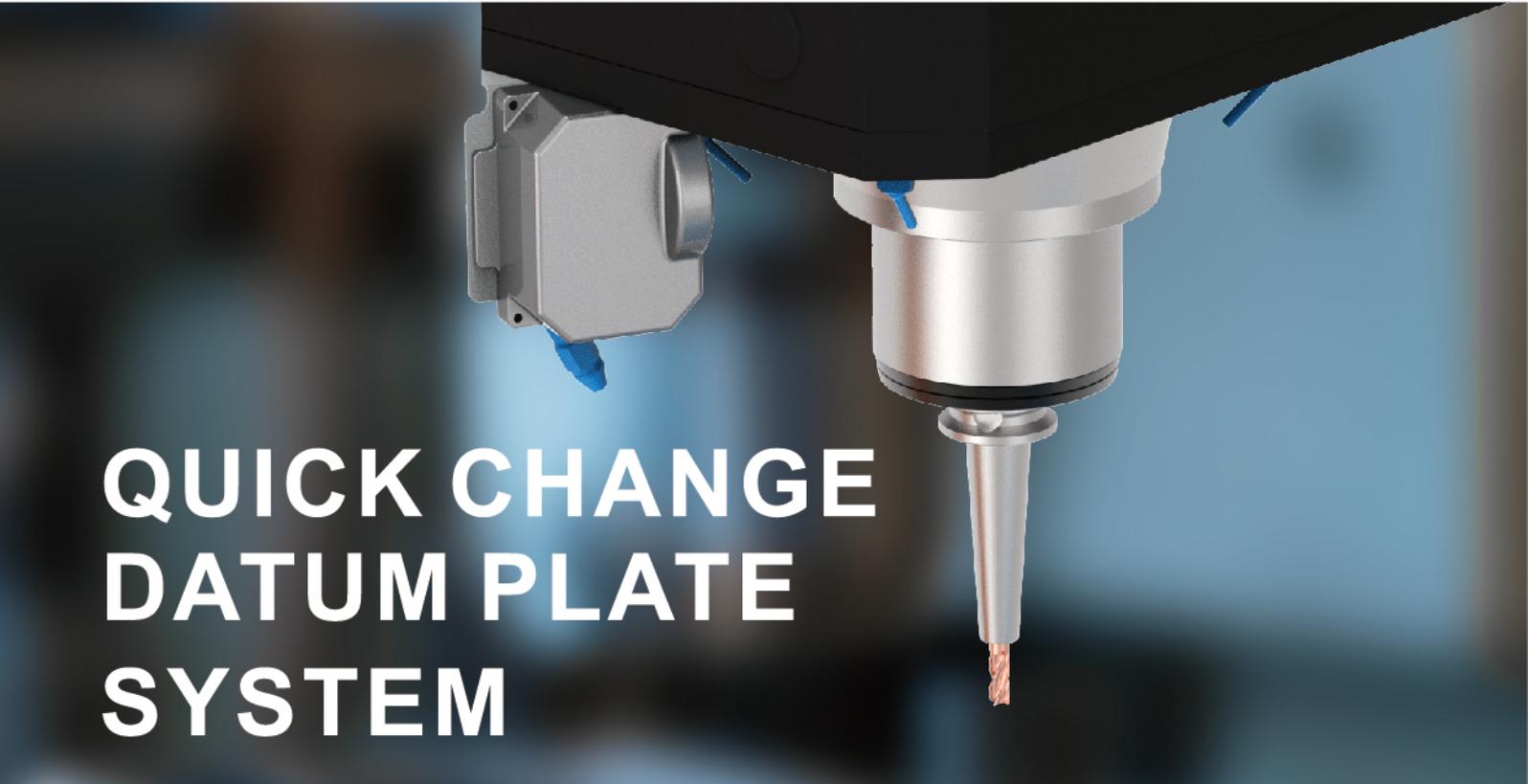
Order No.771-12-035
Size: Ø246mm



Model: S96P390V1

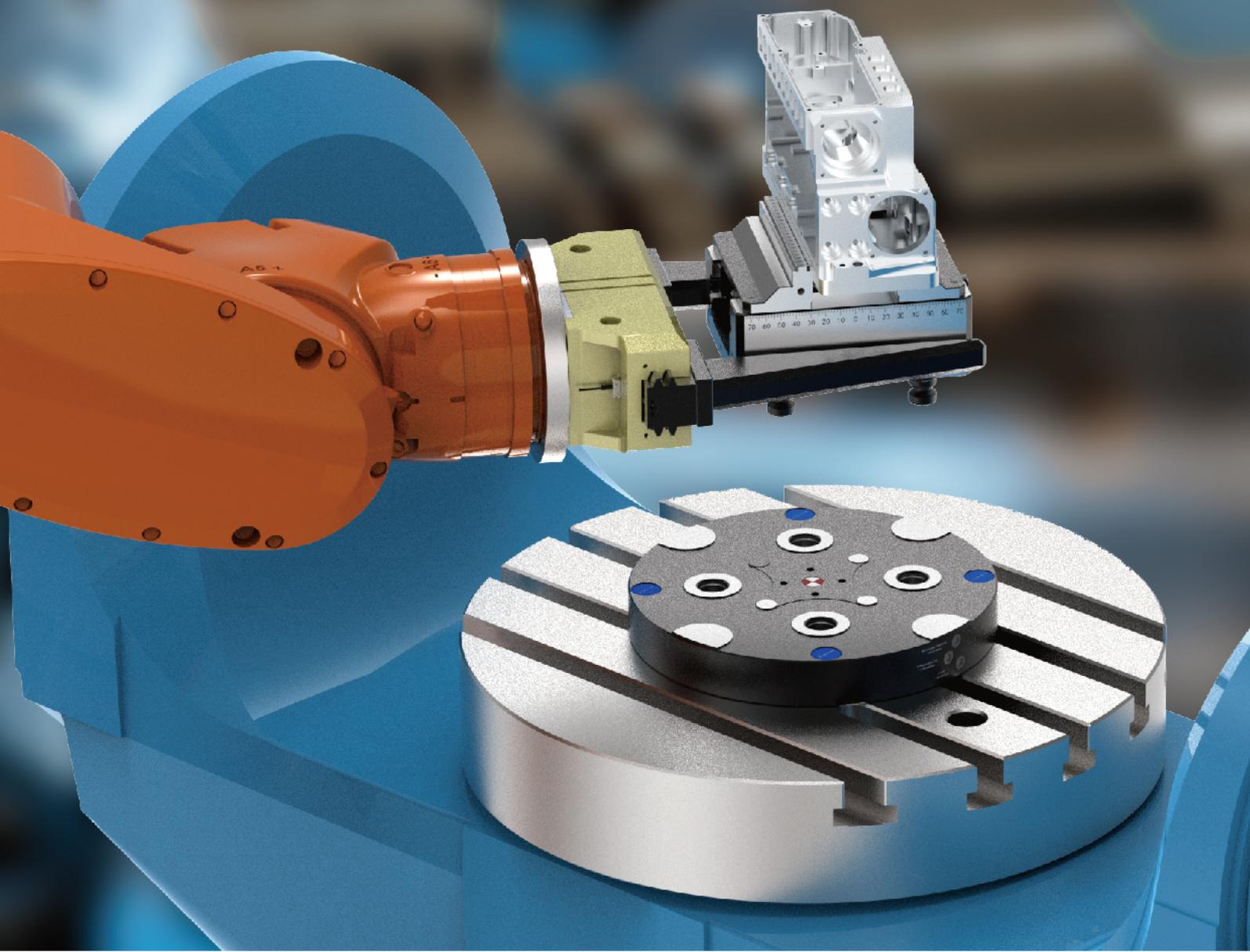
Order No.771-12-040
3 Sided Grid plate
Size: Ø390mm

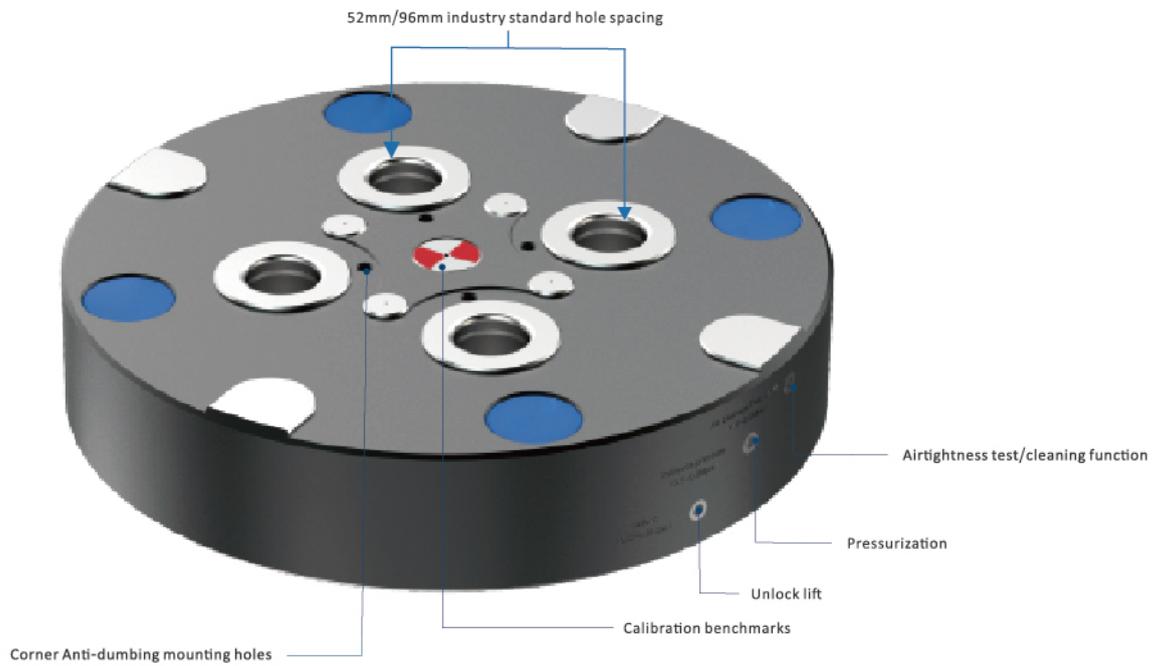




QUICK CHANGE DATUM PLATE SYSTEM

Ultra-thin and powerful clamping zero-point pneumatic quick change plate, help industrial manufacturing multi-scenario applications.





<5µm
Repeat positioning accuracy

20kN
Clamping force

330kg
Unlocked lifting capacity

52/96mm
Universal industry standard drawbar interface


Air pressure unlocking method


Martensitic stainless steel

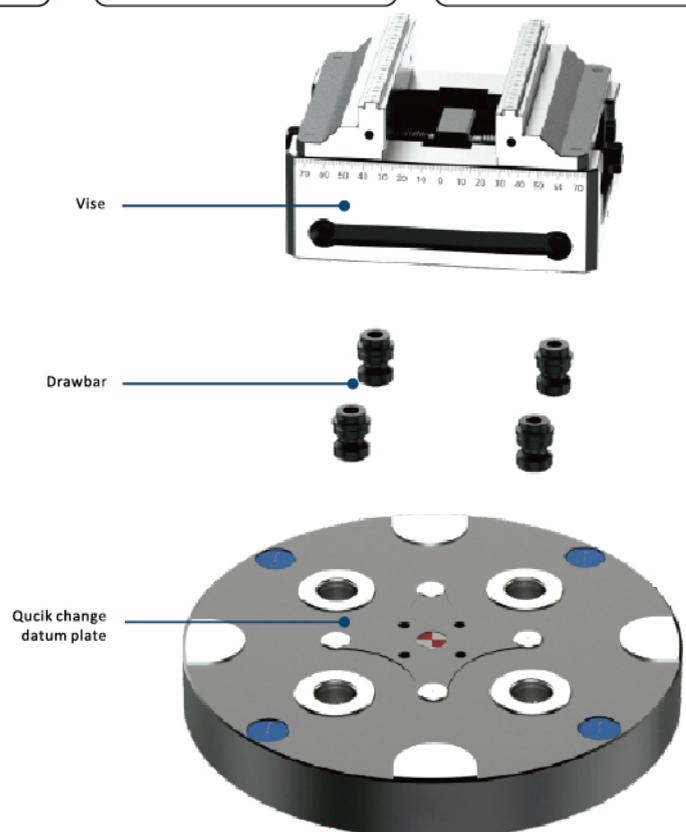

4x90° fixed indexing positions

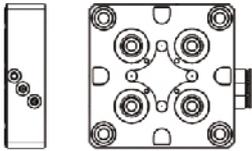

Self-cleaning, airtightness test function


52mm/96mm industry-standard modular design


Reduce setup and changeover time


Solutions available for 3, 4, & 5 axis machines

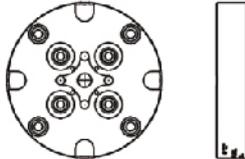




Model: S52P125QD1

Order No.771-21-005

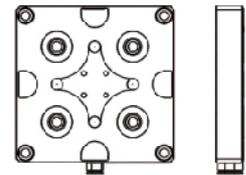
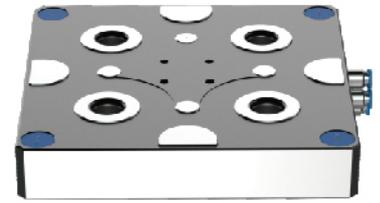
Size: 125x125mm



Model: S52P168QD1

Order No.771-21-010

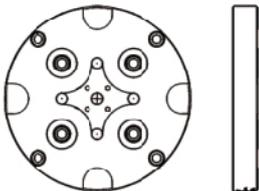
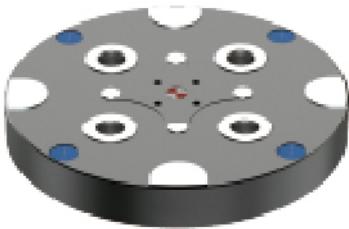
Size: Ø168mm



Model: S96P200QD1

Order No.771-22-005

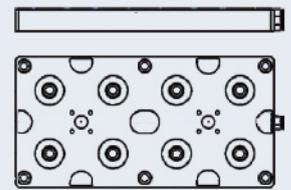
Size:200x200mm



Model: S96P250QD1

Order No.771-22-010

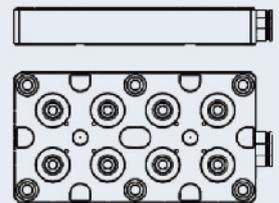
Size: Ø250mm



Model: S96P392QD1

Order No.771-22-015

Size: 200x392mm

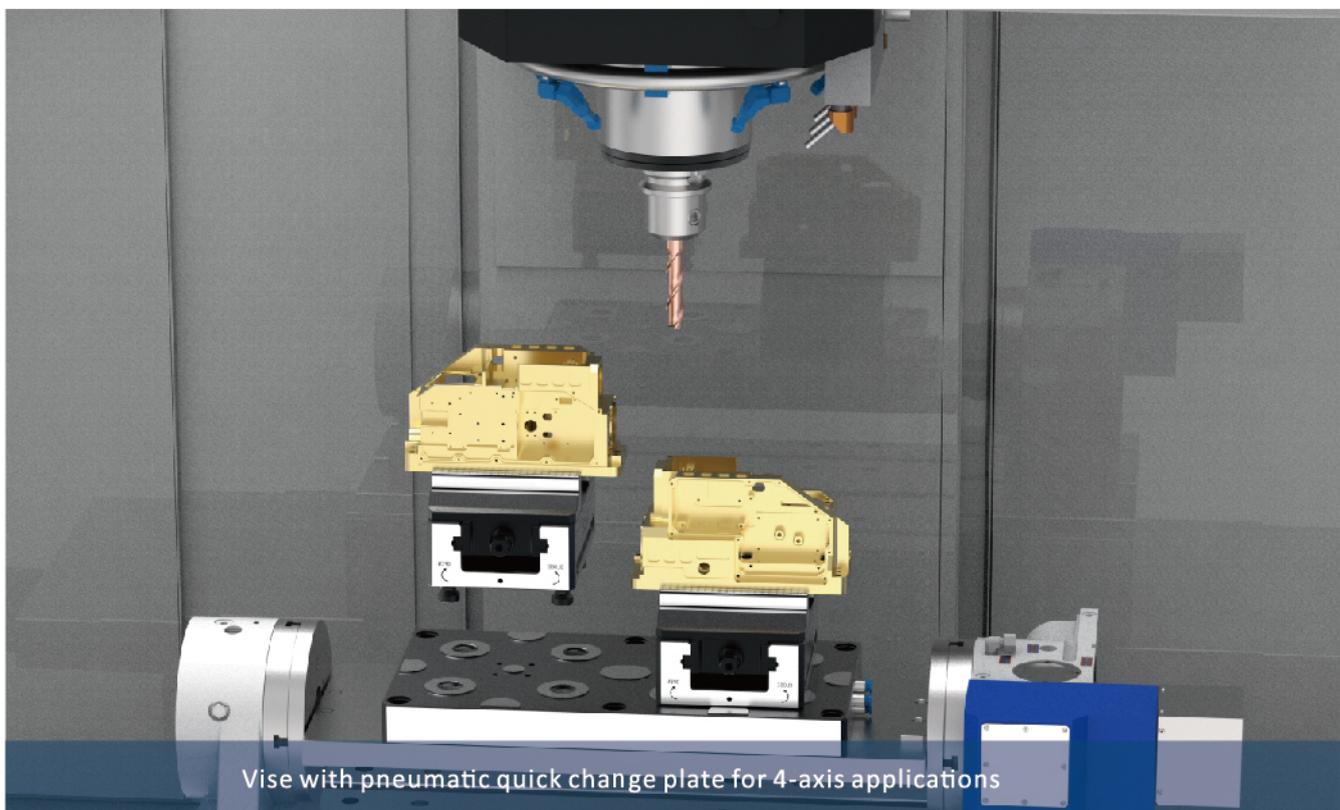


Model: S52P229QD1

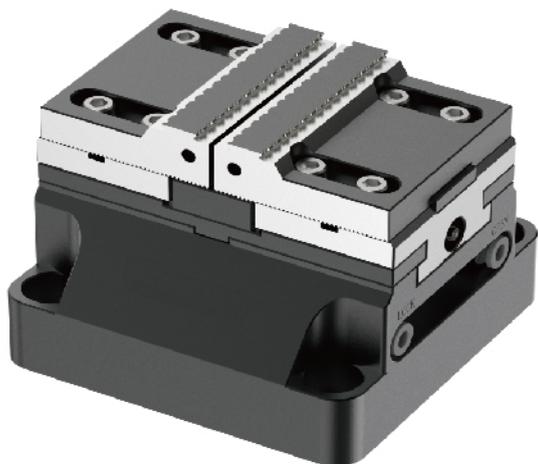
Order No.771-21-015

Size: 125x229mm

Application Cases



Pneumatic centering vise- Features & Parameters



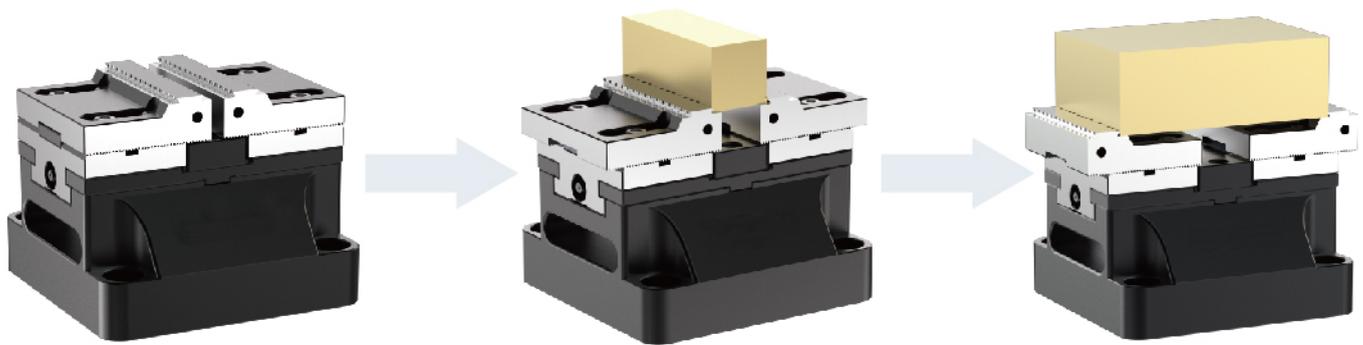
- Pneumatic mechanical self-locking design “ventilate-unlock, disconnect-Lock”- to keep the clamping force stability in production.
- Large-capacity power piston chamber structure design, which can provide doubled clamping force.
- S-shaped structure oil slot lubrication system design, improve accuracy and life time of products
- Install a rail toothed strip to match structure in Jaws, which can help to flexibly adjust the jaws width to obtain clamping range needed.
- Design a Flexible&Rigid jaws positioning connector in guide rail, compatibly select different kinds of jaws to clamp different kinds of products.
- The smooth face of the jaws can be used to clamp machined face of the parts, and the lateral threaded holes can be used for lateral positioning.
- Serrated jaw design of dovetail jaws can mostly improve clamping bite force, only need 3mm set up distance that can achieve clamping force stability.

Model	Specification	Operating air pressure/Mpa	Repeatable clamping accuracy	Clamping force/N	Single jaw set up distance(mm)	Clamping range (mm)
S75P75V1	P75 (Pneumatic type)	0.5~0.8	<0.01mm	4200	2.5	0~125
S75P75V2	P75 (Hydraulic type)	6	<0.01mm	9000	2.5	0~125
S110P110V1	P110 (Pneumatic type)	0.5~0.8	<0.01mm	12000	2.5	0~210
S110P110V2	P110 (Hydraulic type)	6	<0.01mm	30000	2.5	0~210
S150P150V1	P150 (Pneumatic type)	0.5~0.8	<0.01mm	20000	2.5	0~250
S150P150V2	P150 (Hydraulic type)	6	<0.01mm	45000	2.5	0~250

Pneumatic centering vise- Features & Structures introduction



Pneumatic centering vise- Front and back sides usage



The rigid jaws can be used on both front and back sides

Front side clamping diagram

Back side clamping diagram

HOW TO INSTALL



1

Use an Allen wrench to disassemble the left and right jaws from the holder.



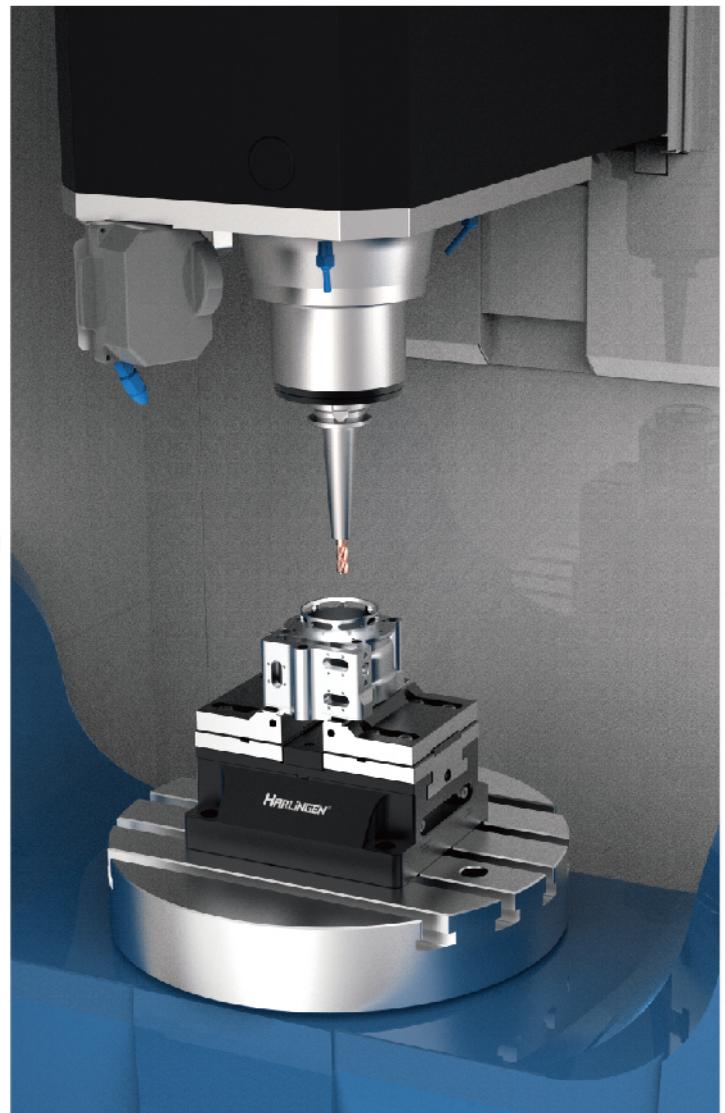
2

Turn the disassembled left and right jaws to install or adjust the clamping range.



3

The installation is completed and ready to use.



Pneumatic centering vise- Flexible jaws usage introduction



Instructions for use of
vise Flexible jaws.



Flexible jaws clamping



Duplicate shape
positioning clamping

HOW TO INSTALL



1

Prepare the needed Flexible
jaws and corresponding vise.



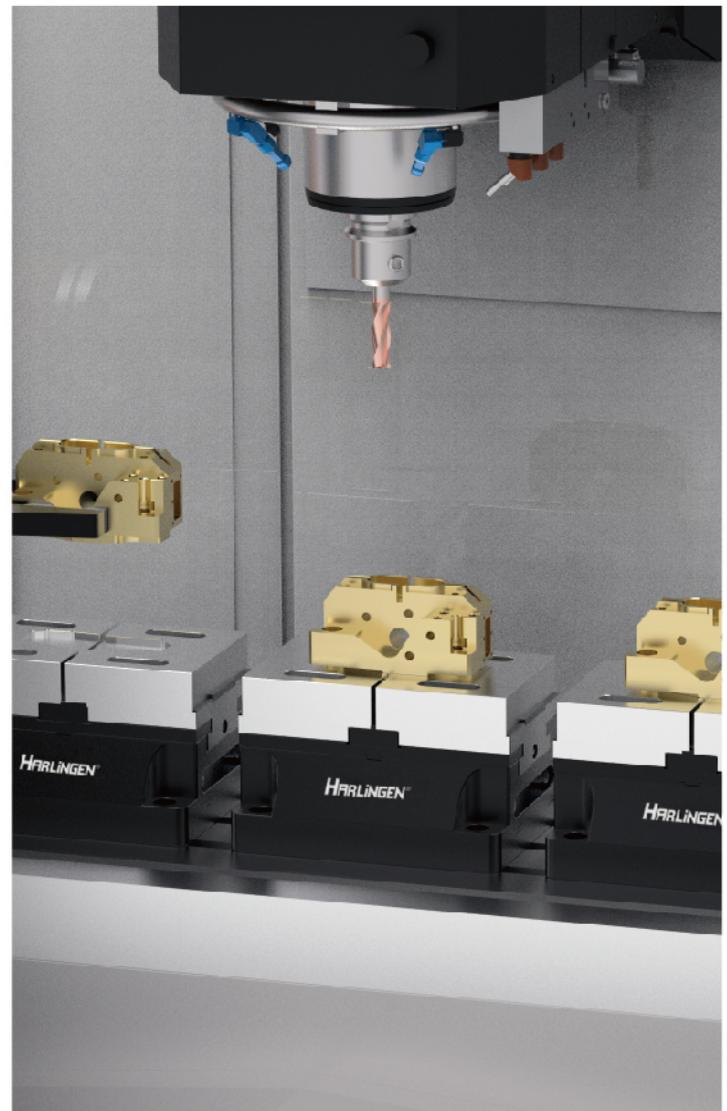
2

Screwing to install the
Flexible jaws or adjust the
jaw clamping range

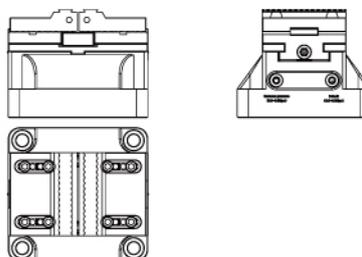


3

The installation is
completed and ready to use.

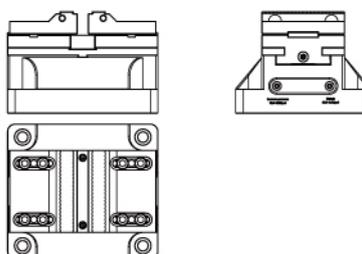


P75 Pneumatic centering vise -- Dimensional drawings



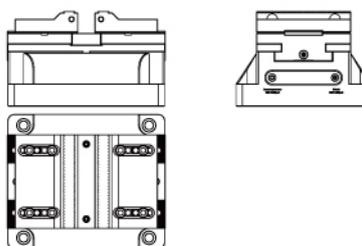
Order No.	Model	Operating air pressure/Mpa	Repeatable clamping accuracy	Clamping force/N	Single jaw set up distance(mm)	Clamping range (mm)	Total weight (KG)	Remark
733-20-005	S75P75V1	0.5-0.8	<0.01mm	4200	2.5	0~125	7	Soft jaws can be customized
733-30-005	S75P75V2	6	<0.01mm	9000	2.5	0~125	7	Soft jaws can be customized

P110 Pneumatic centering vise -- Dimensional drawings



Order No.	Model	Operating air pressure/Mpa	Repeatable clamping accuracy	Clamping force/N	Single jaw set up distance(mm)	Clamping range (mm)	Total weight (KG)	Remark
733-20-010	S110P110V1	0.5-0.8	<0.01mm	12000	2.5	0~210	24.9	Soft jaws can be customized
733-30-010	S110P110V2	6	<0.01mm	30000	2.5	0~210	24.9	Soft jaws can be customized

P150 Pneumatic centering vise -- Dimensional drawings



Order No.	Model	Operating air pressure/Mpa	Repeatable clamping accuracy	Clamping force/N	Single jaw set up distance(mm)	Clamping range (mm)	Total weight (KG)	Remark
733-20-015	S150P150V1	0.5-0.8	<0.01mm	20000	2.5	0~250	41.6	Soft jaws can be customized
733-30-015	S150P150V2	6	<0.01mm	45000	2.5	0~250	41.6	Soft jaws can be customized