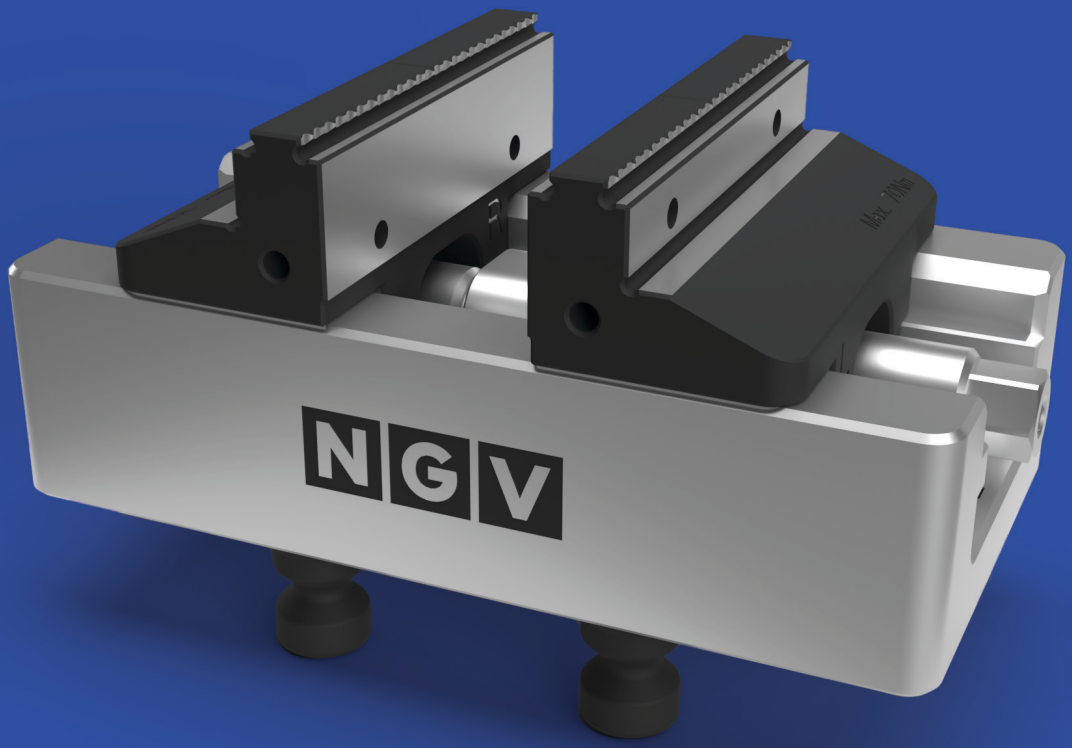
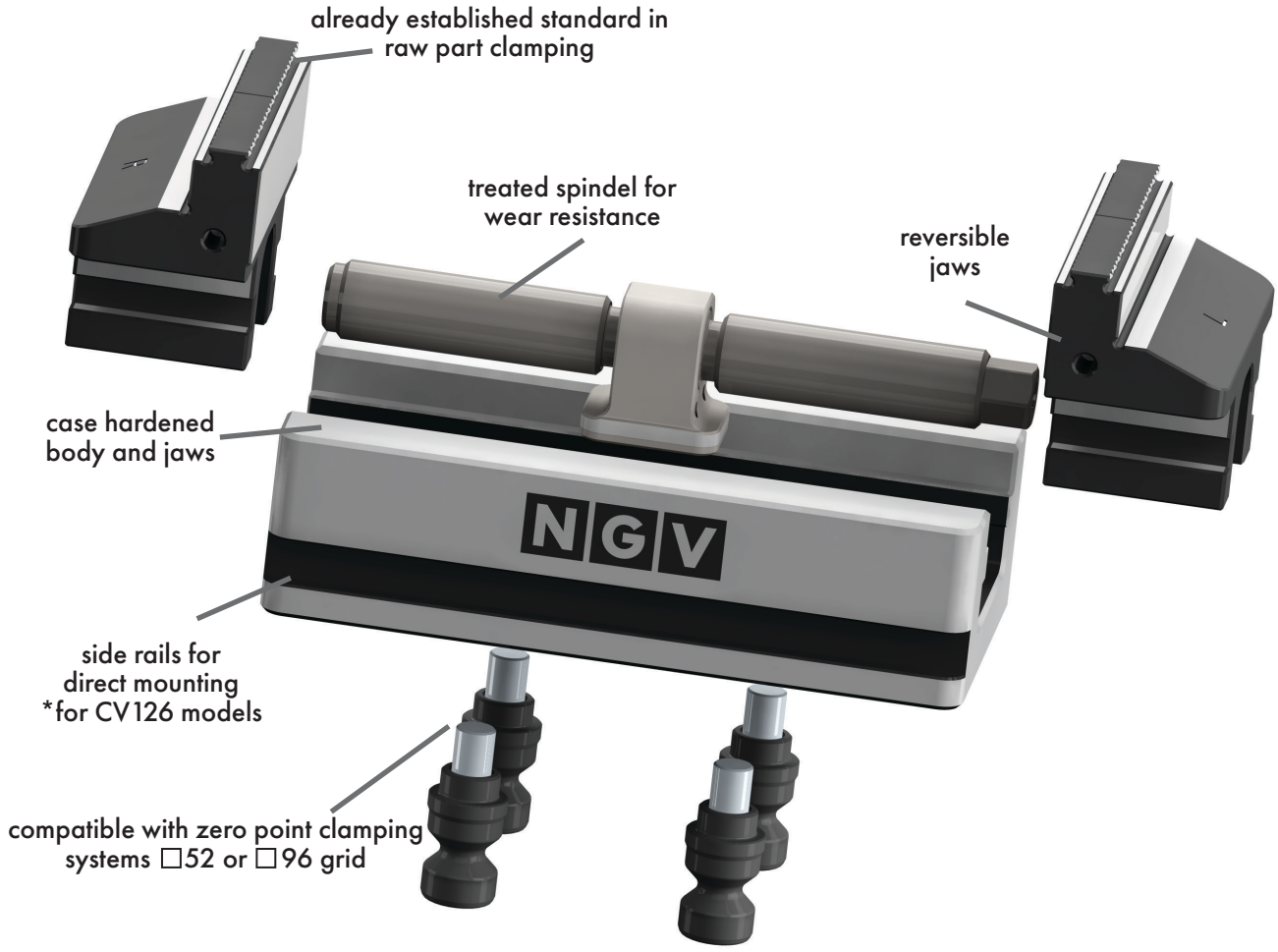
NOVA GRUP





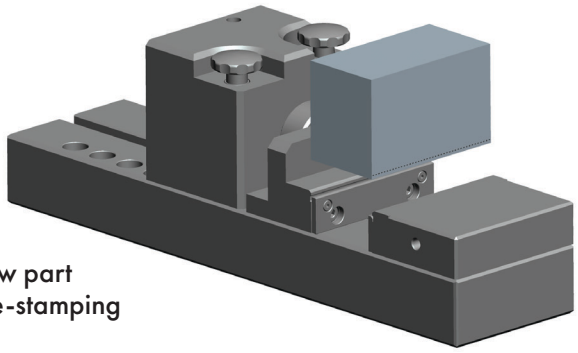
NGV PRODUCTS

The NGV centring vices have a simple and robust design with a wide range of applications in manufacturing technology. Made with accessibility in mind, NGV vices offer a great benefit to the user and provide an efficient solution in clamping parts. The jaws are reversible and have smooth and serrated zones on both sides which can also clamp pre-stamped raw parts.



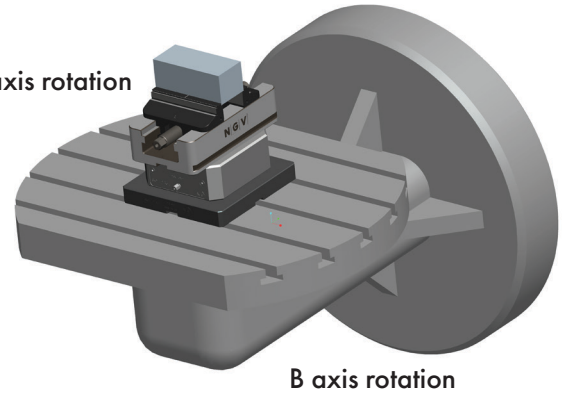
Compatibility

The vices are compatible with zero point systems in the 52 and 96 grid, but can be also direct mounted with clamps thanks to the available side rails. Made to last, all vices have their body and jaws case hardened and the spindle has a wear resistant treatment. With available accessories one can use soft jaws for custom contour parts.



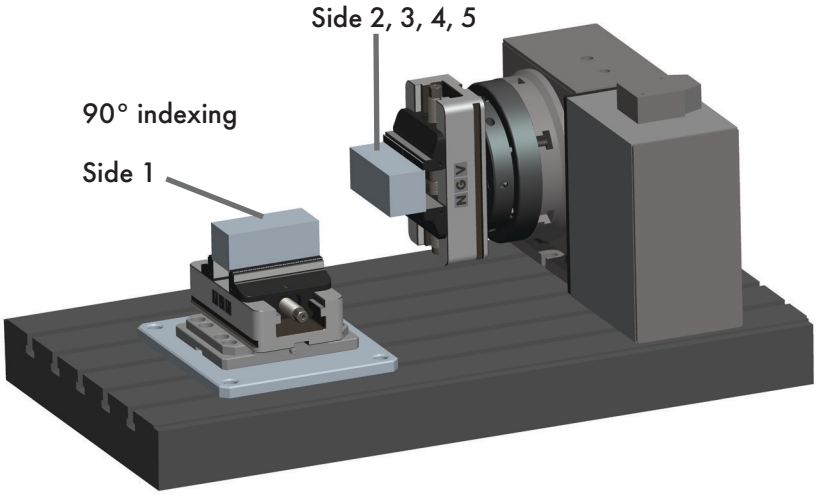
Raw part
pre-stamping

Pre-stamp the raw part for a better grip in the vice and then use your machine configuration to your own advantage with this simple to use and reliable type of centring vice.



C axis rotation

B axis rotation

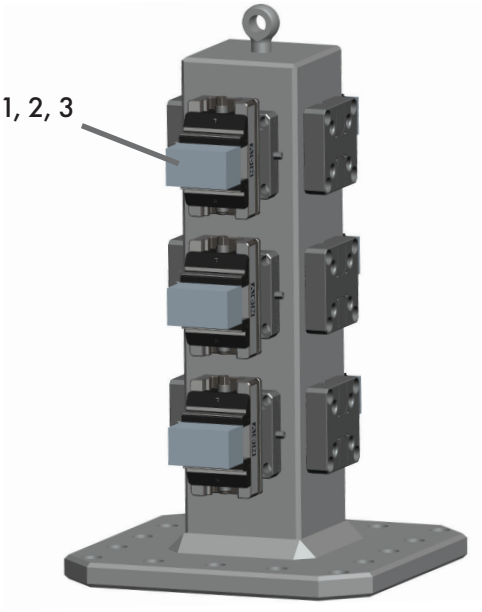


Side 2, 3, 4, 5

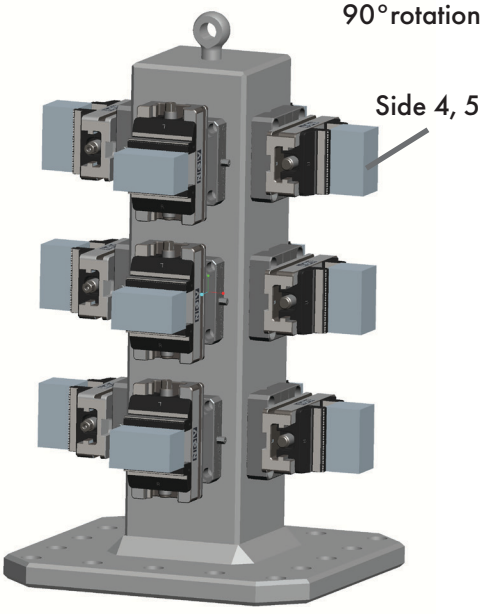
90° indexing

Side 1

Depending on how many axis are available on the milling center you can machine 5 out of 6 sides of the part with maximum one changeover of the vice.



Side 1, 2, 3



90°rotation

Side 4, 5

You can use the sides of a tower/tombstone or an added 4th axis for a 3 axis machine.

5-axis centring vice CV78S

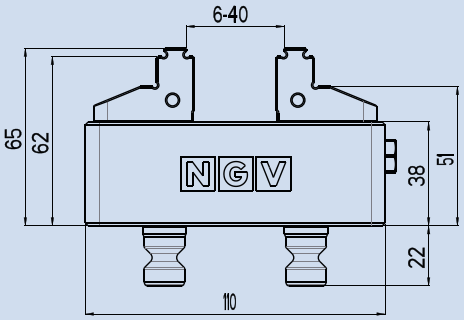
NOVA GRUP

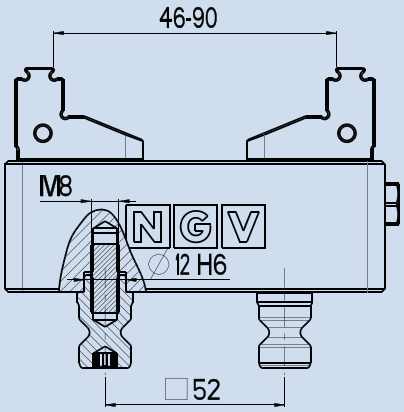
- suitable for zero point clamping systems with 52 grid
- can be used for pre-stamped parts or with smooth surfaces
- reversible jaws
- accessories and spare parts available

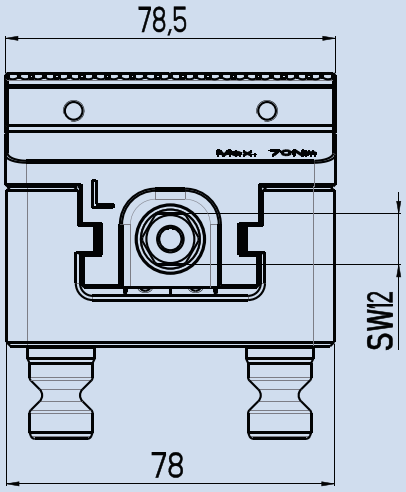


jaws can be reversed for
a larger clamping range

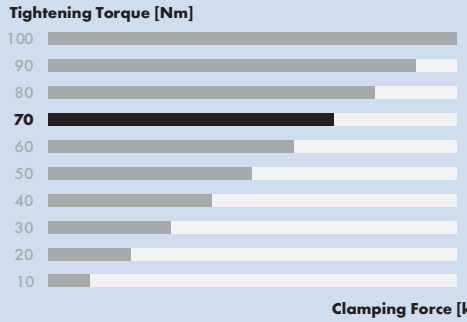








CV78S		
Jaw width	mm	78,5
Body length	mm	110
Clamping range	mm	0 - 90
Zero Point clamping system	mm	□ 52
Zero Point bolt diameter	mm	Ø 16
Tightening torque (max)	Nm	70
Clamping force	kN	14
Centring accuracy	mm	±0,02
Weight	Kg	2.93



5-axis centring vice CV78M

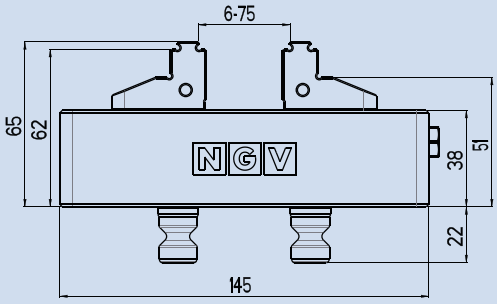
NOVA GRUP

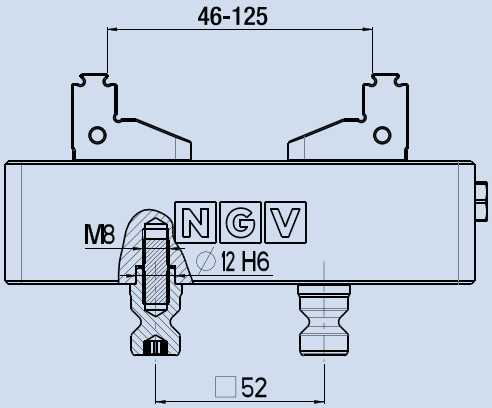
- suitable for zero point clamping systems with 52 grid
- can be used for pre-stamped parts or with smooth surfaces
- reversible jaws
- accessories and spare parts available

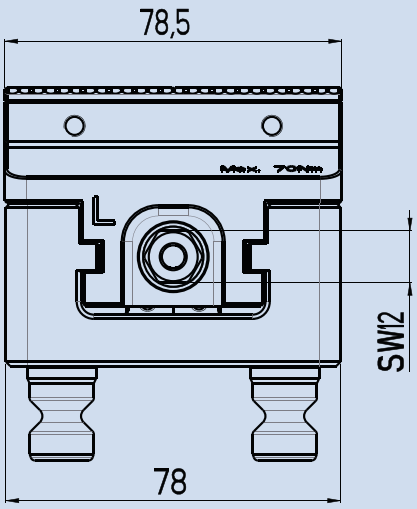


jaws can be reversed for
a larger clamping range

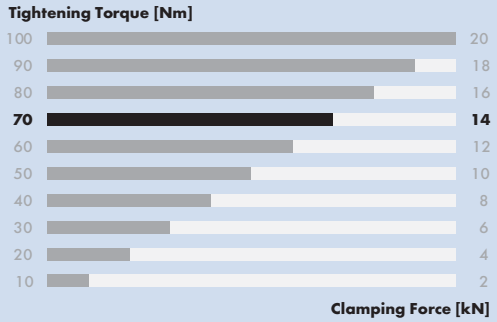








CV78M		
Jaw width	mm	78,5
Body length	mm	145
Clamping range	mm	0 - 125
Zero Point clamping system	mm	□ 52
Zero Point bolt diameter	mm	Ø 16
Tightening torque (max)	Nm	70
Clamping force	kN	14
Centring accuracy	mm	±0,02
Weight	Kg	3.5



5-axis centring vice CV78L

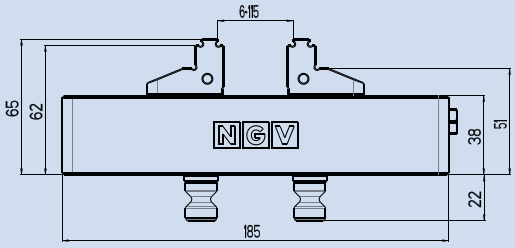
NOVA GRUP

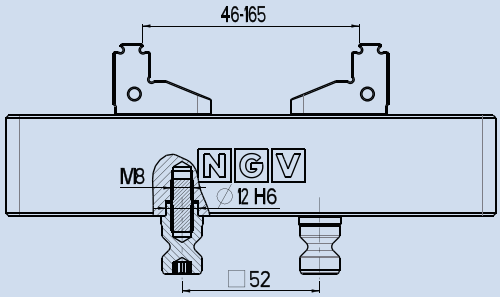
- suitable for zero point clamping systems with 52 grid
- can be used for pre-stamped parts or with smooth surfaces
- reversible jaws
- accessories and spare parts available

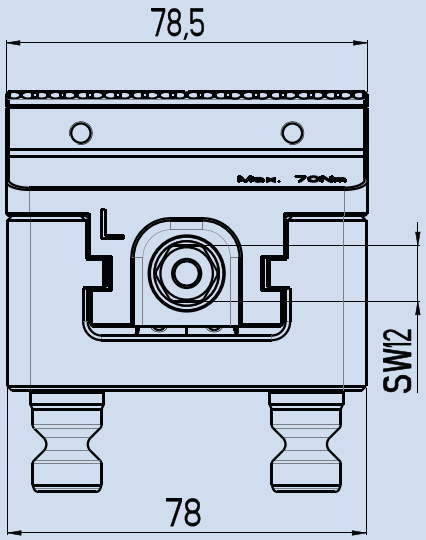


jaws can be reversed for
a larger clamping range

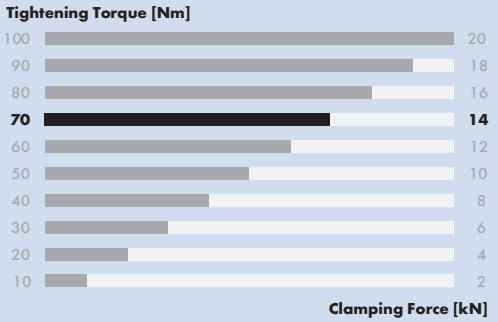








CV78L		
Jaw width	mm	78,5
Body length	mm	185
Clamping range	mm	0 - 165
Zero Point clamping system	mm	□ 52
Zero Point bolt diameter	mm	Ø 16
Tightening torque (max)	Nm	70
Clamping force	kN	14
Centring accuracy	mm	±0,02
Weight	Kg	4.16



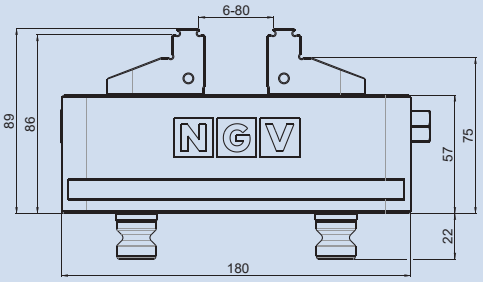
5-axis centring vice CV126S

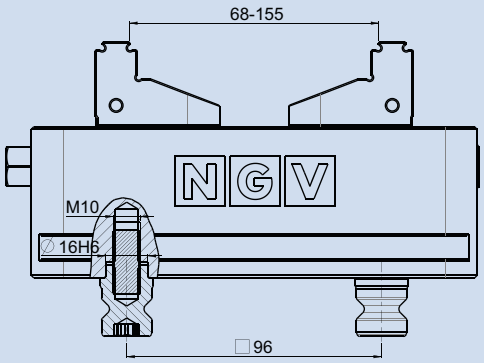
- suitable for zero point clamping systems with 96 grid
- can be used for pre-stamped parts or with smooth surfaces
- reversible jaws
- accessories and spare parts available

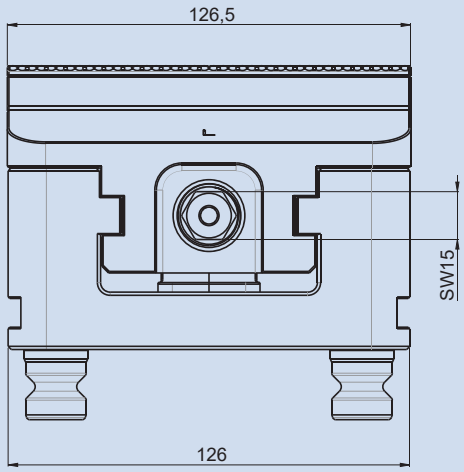


jaws can be reversed for
a larger clamping range

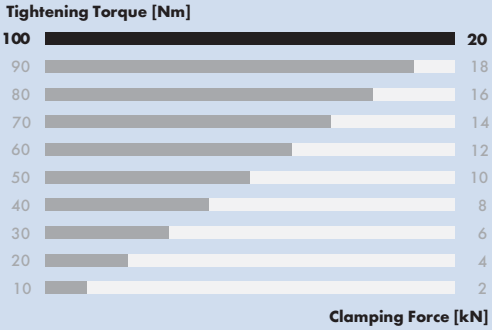








CV126S		
Jaw width	mm	126,5
Body length	mm	180
Clamping range	mm	0 - 155
Zero Point clamping system	mm	☐ 96
Zero Point bolt diameter	mm	Ø 20
Tightening torque (max)	Nm	100
Clamping force	kN	20
Centring accuracy	mm	±0,02
Weight	Kg	9.94



5-axis centring vice CV126M

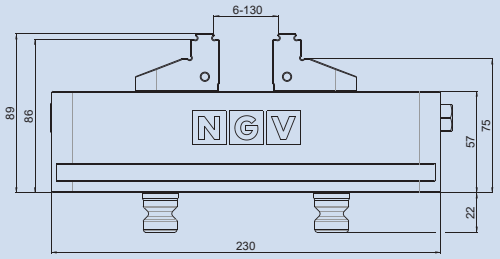
NOVA GRUP

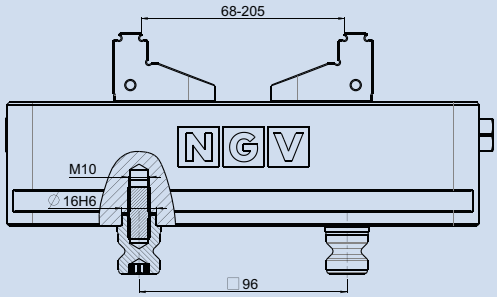
- suitable for zero point clamping systems with 96 grid
- can be used for pre-stamped parts or with smooth surfaces
- reversible jaws
- accessories and spare parts available

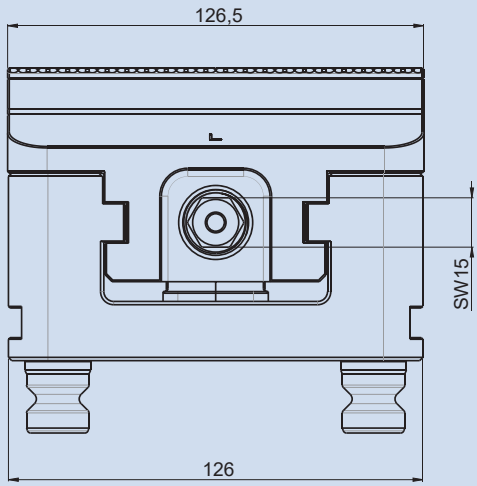


jaws can be reversed for a larger clamping range

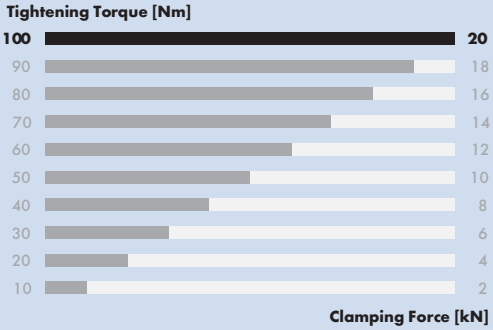








CV126M		
Jaw width	mm	126,5
Body length	mm	230
Clamping range	mm	0 - 205
Zero Point clamping system	mm	☐ 96
Zero Point bolt diameter	mm	Ø 20
Tightening torque (max)	Nm	100
Clamping force	kN	20
Centring accuracy	mm	±0,02
Weight	Kg	11.86



CV126M

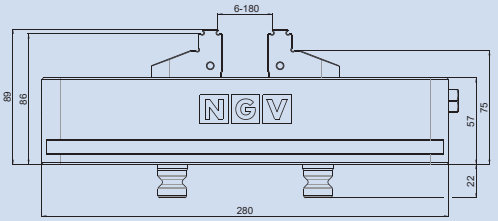
5-axis centring vice CV126L

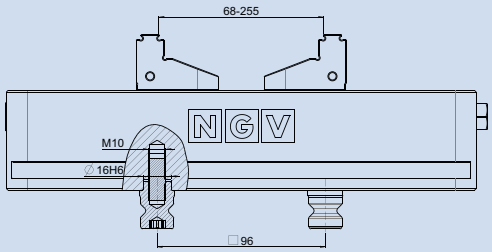
- suitable for zero point clamping systems with 96 grid
- can be used for pre-stamped parts or with smooth surfaces
- reversible jaws
- accessories and spare parts available

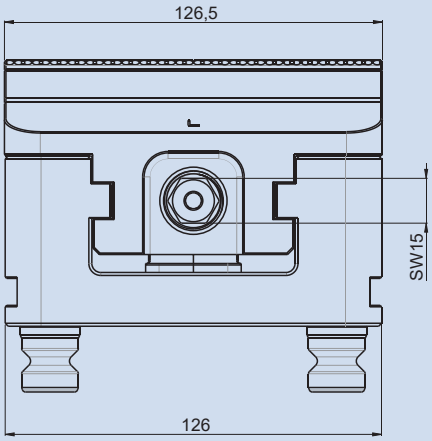


jaws can be reversed for a larger clamping range

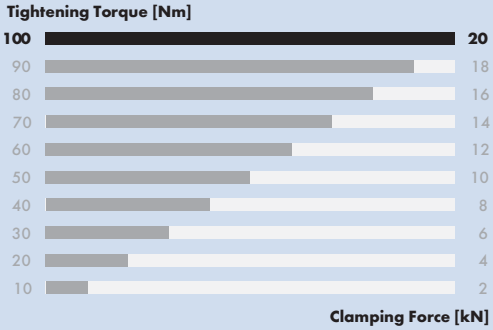








CV126L		
Jaw width	mm	126,5
Body length	mm	280
Clamping range	mm	0 - 255
Zero Point clamping system	mm	· 96
Zero Point bolt diameter	mm	Ø 20
Tightening torque (max)	Nm	100
Clamping force	kN	20
Centring accuracy	mm	±0,02
Weight	Kg	13.8



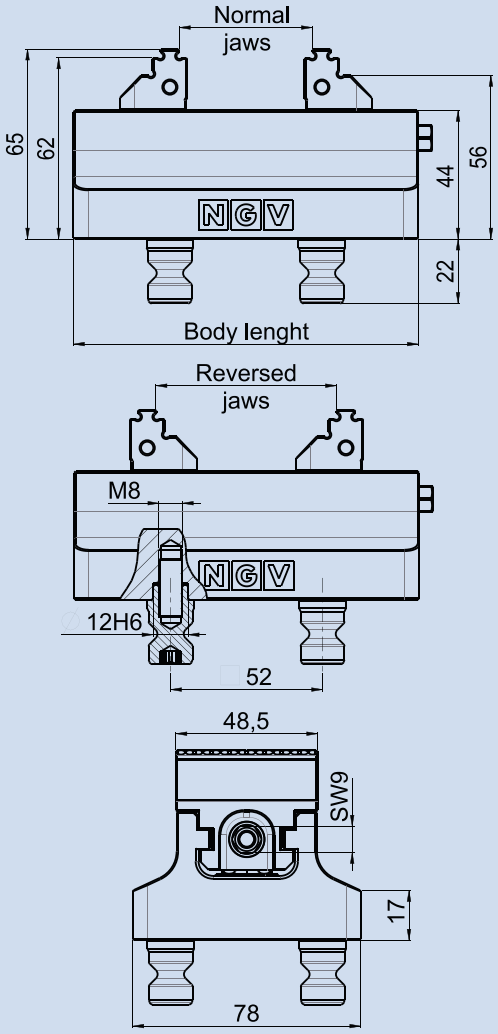
5-axis centring vice CV48

- suitable for zero point clamping systems with 52 grid
- can be used for pre-stamped parts or with smooth surfaces
- reversible jaws
- accessories and spare parts available



jaws can be reversed
for increased clamping
range

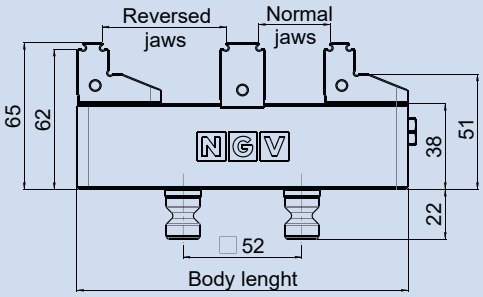




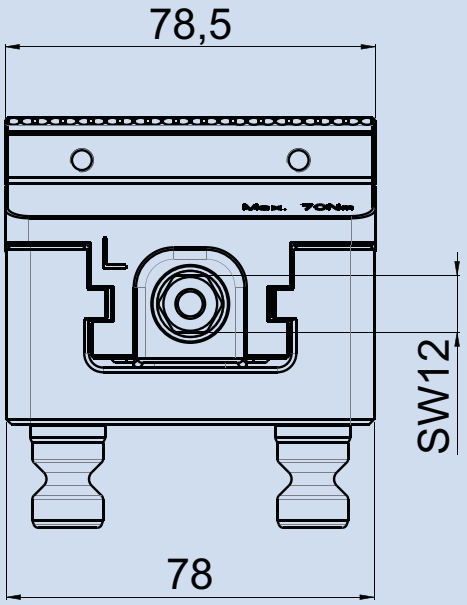
		CV48S	CV48M	CV48L
Jaw width	mm	48,5	48,5	48,5
Body length	mm	78	118	158
Clamping rage normal/reversed jaw	mm	6-40/30-60	6-80/30-100	6-120/30-140
Zero point clamping system	mm	☐ 52	☐ 52	☐ 52
Zero point bold diameter	mm	Ø16	Ø16	Ø16
Max tightening torque	Nm	30	30	30
Clamping force	kN	6	6	6
Centring accuracy	mm	±0,02	±0,02	±0,02
Weight	Kg	1.77	2.46	3.15

Dual clamping vice DV78

- This configuration uses the center jaw as the fixed position
- Each side jaw moves independently, allowing the grip of different raw part sizes
- Jaws can easily be reversed for increased clamping range



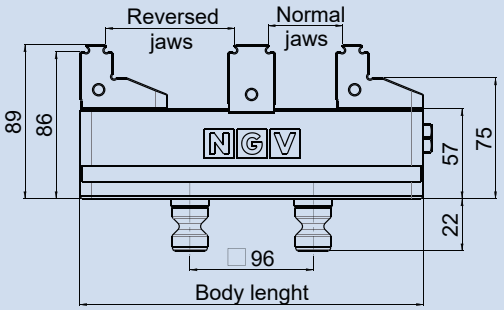




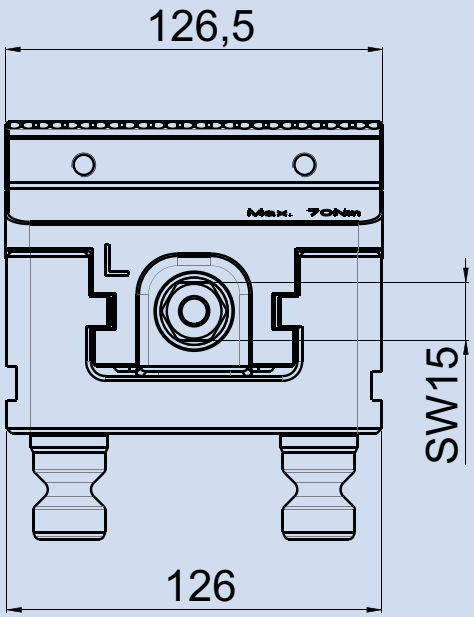
		DV78S	DV78M	DV78L
Jaw width	mm	78,5	78,5	78,5
Body length	mm	110	145	185
Clamping rage normal/reversed jaw	mm	0–15/30–38	0–32/30–55	0–52/30–75
Zero point clamping system	mm	□ 52	□ 52	□ 52
Zero point bold diameter	mm	Ø16	Ø16	Ø16
Max tightening torque	Nm	70	70	70
Clamping force	kN	14	14	14
Centring accuracy	mm	±0,02	±0,02	±0,02
Weight	Kg	2.93	3.88	4.54

Dual clamping vice DV126

- This configuration uses the center jaw as the fixed position
- Each side jaw moves independently, allowing the grip of different raw part sizes
- Jaws can quickly and easily be reversed for increased clamping range





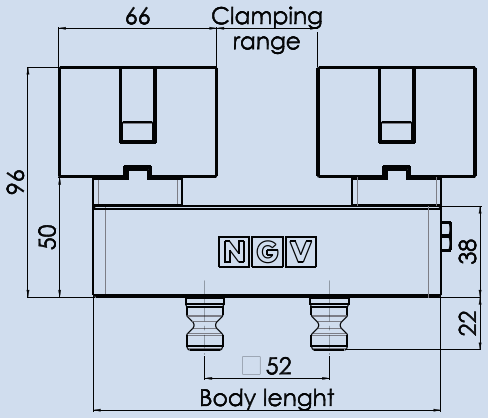


		DV126S	DV126M	DV126L
Jaw width	mm	126,5	126,5	126,5
Body length	mm	180	230	280
Clamping rage normal/reversed jaw	mm	0–38/38–68	0–60/38–95	0–85/38–120
Zero point clamping system	mm	☐ 96	☐ 96	☐ 96
Zero point bold diameter	mm	Ø20	Ø20	Ø20
Max tightening torque	Nm	100	100	100
Clamping force	kN	20	20	20
Centring accuracy	mm	±0,02	±0,02	±0,02
Weight	Kg	11.24	13.16	15.09

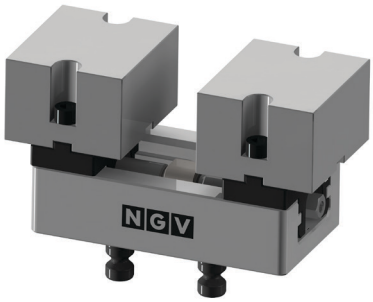
Soft Jaws Vice SJV78

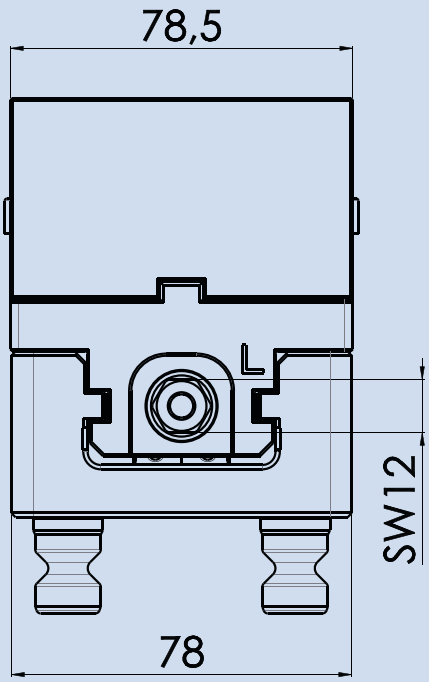
NOVA GRUP

- Suitable for zero point clamping systems with 52 grid
- Adaptation of customer's own device or fixtures on the base jaws
- Positioning is done by bolts
- Soft jaws available in aluminium or steel
- Can be used for pre-machined, round or profiled parts
- Low cost soft jaws can be purchased or can be machined in-house by user
- Sturdy interface between base and top jaws with mounting screws





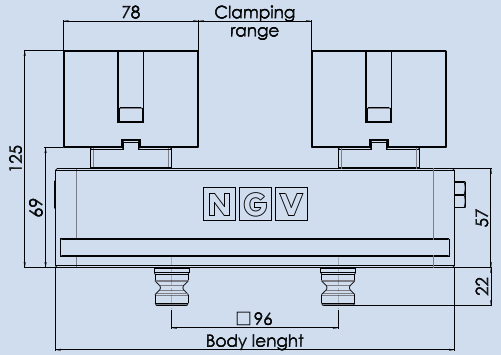


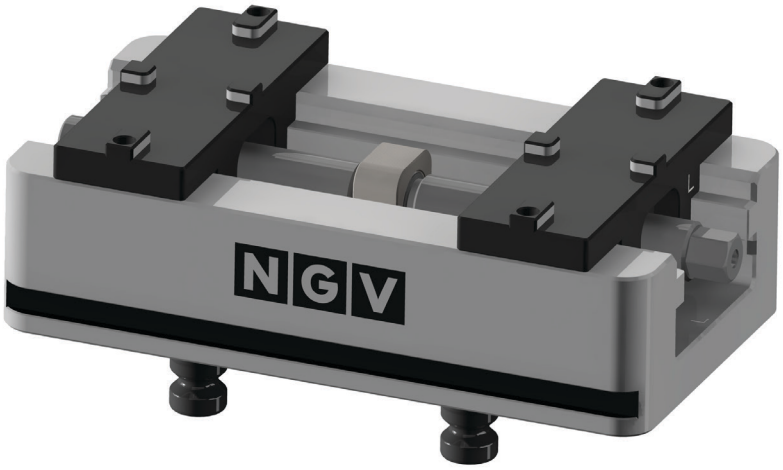


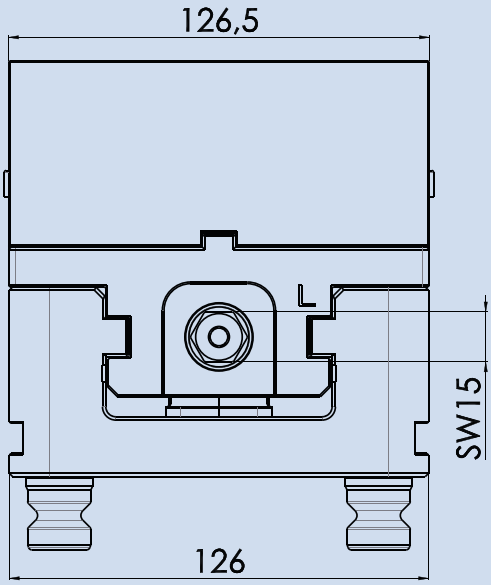
		SJV78S	SJV78M	SJV78L
Jaw width	mm	78.5	78.5	78.5
Body length	mm	110	145	185
Clamping range	mm	0-15	0-45	0-85
Zero point clamping system	mm	□ 52	□ 52	□ 52
Zero point bold diameter	mm	Ø16	Ø16	Ø16
Max tightening torque	Nm	70	70	70
Clamping force	kN	14	14	14
Centring accuracy	mm	±0,02	±0,02	±0,02
Weight	Kg	2.78	3.35	4.01

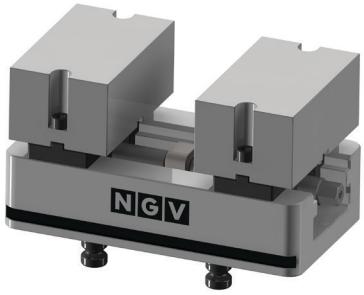
Soft Jaws Vice SJV126

- Suitable for zero point clamping systems with 96 grid
- Adaptation of customer's own device or fixtures on the base jaws
- Positioning is done by bolts
- Soft jaws available in aluminium or steel
- Can be used for pre-machined, round or profiled parts
- Low cost soft jaws can be purchased or can be machined in-house by user
- Sturdy interface between base and top jaws with mounting screws







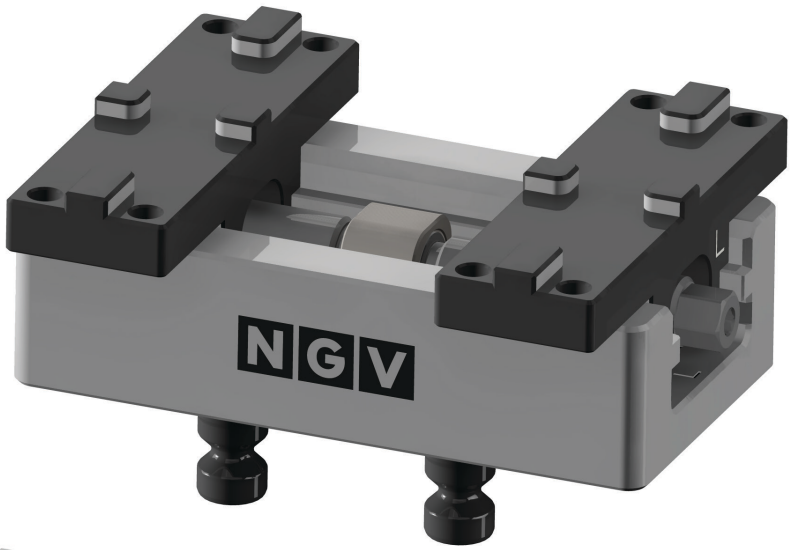


		SJV126S	SJV126M	SJV126L
Jaw width	mm	126,5	126,5	126,5
Body length	mm	180	230	280
Clamping range	mm	0-55	0-105	0-155
Zero point clamping system	mm	□ 96	□ 96	□ 96
Zero point bold diameter	mm	Ø20	Ø20	Ø20
Max tightening torque	Nm	100	100	100
Clamping force	kN	20	20	20
Centring accuracy	mm	±0,02	±0,02	±0,02
Weight	Kg	9.3	11.2	13.16

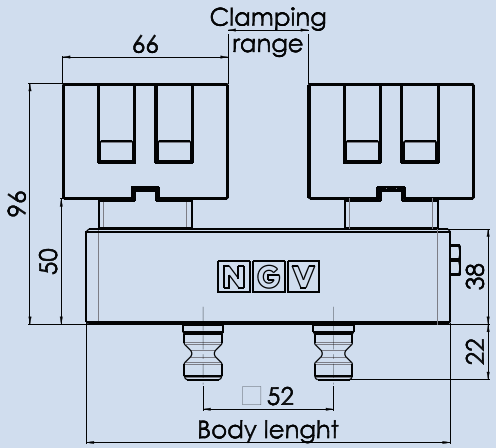
Soft Jaws Vice SJV78-XL

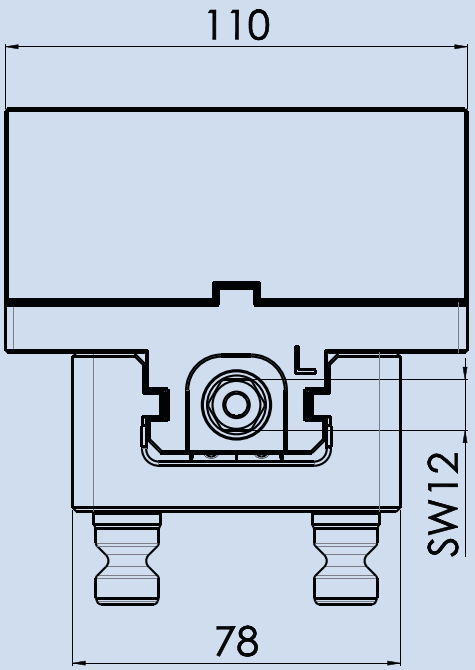
NOVA GRUP

- Suitable for zero point clamping systems with 52 grid
- Adaptation of customer's own device or fixtures on the base jaws
- Positioning is done by bolts
- Soft jaws available in aluminium or steel
- Can be used for pre-machined, round or profiled parts
- Low cost soft jaws can be purchased or can be machined in-house by user
- Sturdy interface between base and top jaws with mounting screws







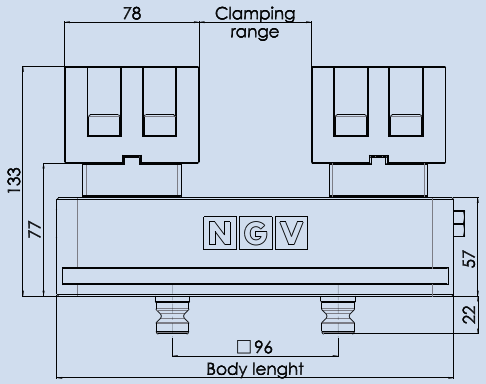


		SJV78S-XL	SJV78M-XL	SJV78L-XL
Jaw width	mm	110	110	110
Body length	mm	110	145	185
Clamping range	mm	0-15	0-45	0-85
Zero point clamping system	mm	☐ 52	☐ 52	☐ 52
Zero point bold diameter	mm	Ø16	Ø16	Ø16
Max tightening torque	Nm	70	70	70
Clamping force	kN	14	14	14
Centring accuracy	mm	±0,02	±0,02	±0,02
Weight	Kg	2.99	3.56	4.22

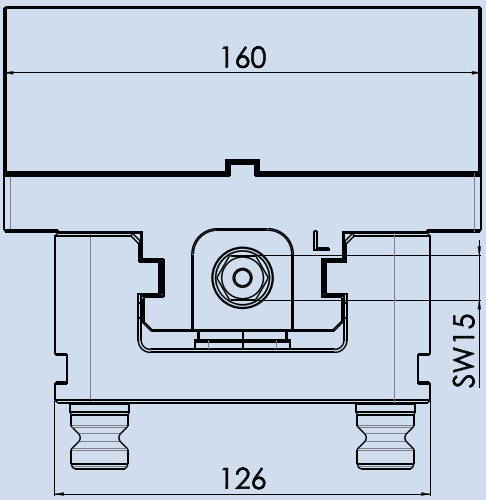
Soft Jaws Vice SJV126-XL

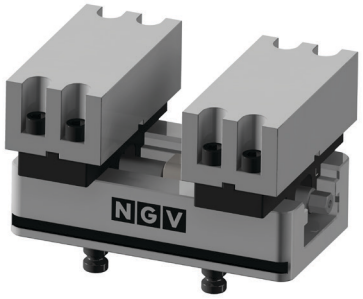
NOVA GRUP

- Suitable for zero point clamping systems with 96 grid
- Adaptation of customer's own device or fixtures on the base jaws
- Positioning is done by bolts
- Soft jaws available in aluminium or steel
- Can be used for pre-machined, round or profiled parts
- Low cost soft jaws can be purchased or can be machined in-house by user
- Sturdy interface between base and top jaws with mounting screws







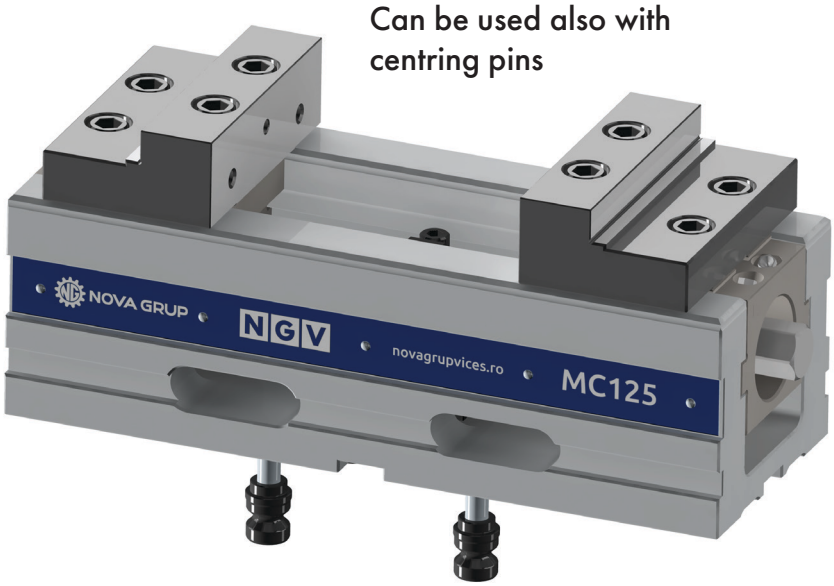


		SJV126S-XL	SJV126M-XL	SJV126L-XL
Jaw width	mm	160	160	160
Body length	mm	180	230	280
Clamping range	mm	0-55	0-105	0-155
Zero point clamping system	mm	□ 96	□ 96	□ 96
Zero point bold diameter	mm	Ø20	Ø20	Ø20
Max tightening torque	Nm	100	100	100
Clamping force	kN	20	20	20
Centring accuracy	Mm	±0,02	±0,02	±0,02
Weight	Kg	11.29	13.21	15.14

SJV126-XL

Precision CNC Machine Centring Vice MC125

Can be used also with centring pins



jaws can be reversed for a larger clamping range



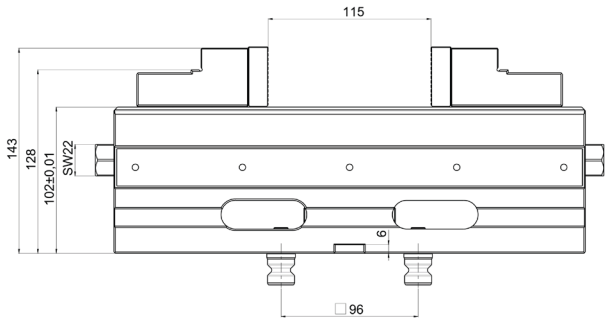
Includes mounting kit, hand crank and a pair of serrated jaws

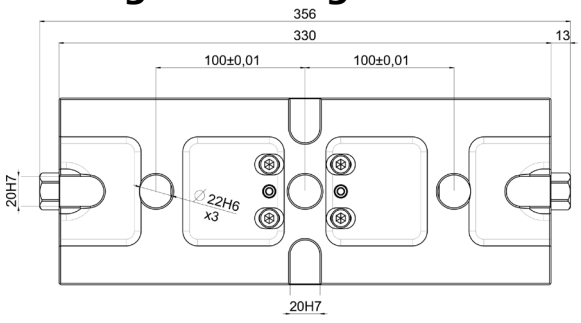
Features:

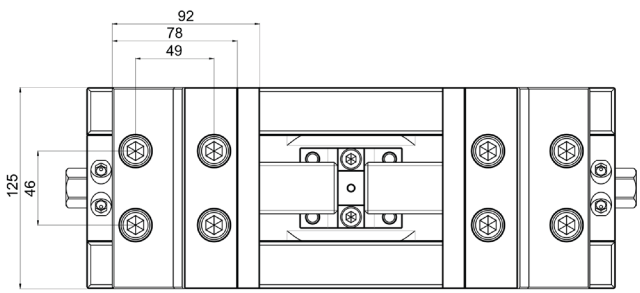
- Induction hardened guideways
- Grinded body (GGG60 nodular cast iron)
- For conventional clamping, can be used on machine table or on towers
- Keyways for alignment and H6 locating holes
- Side rails for clamping
- Jaw width 125 mm
- Reversible jaws for larger clamping range
- Heat treated jaws
- Clamping force up to 35 kN@200Nm
- Rigid and robust design
- Side windows for quick cleaning of the inside of the vices
- Equipped with a mechanical spindle without force amplification

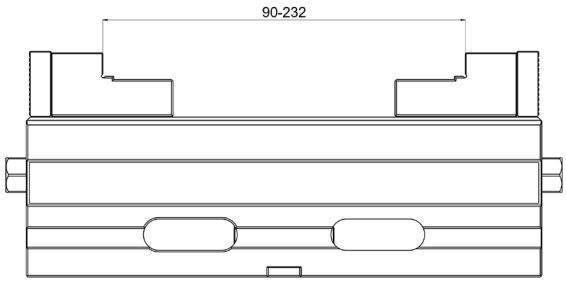
- **Centering accuracy 0.015mm**

- **Weight 26.8 Kg**

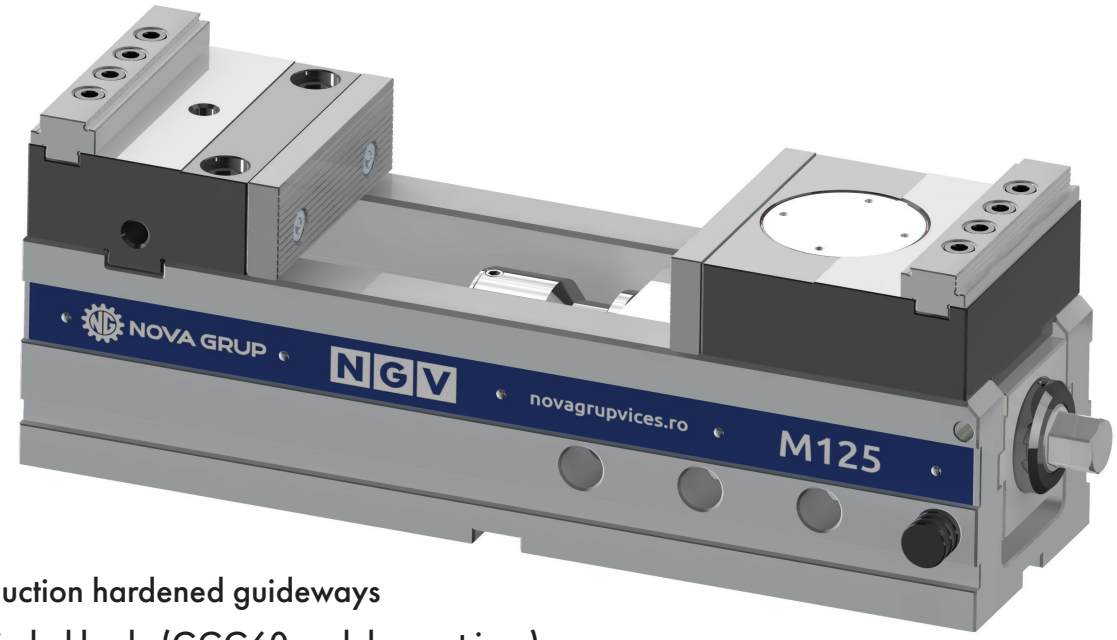




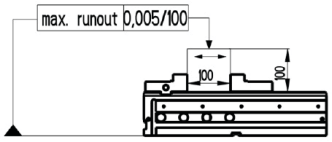
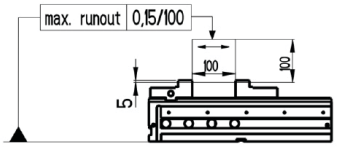
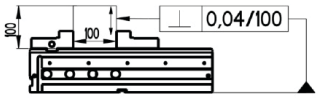
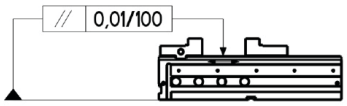
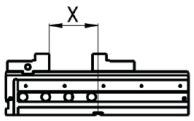




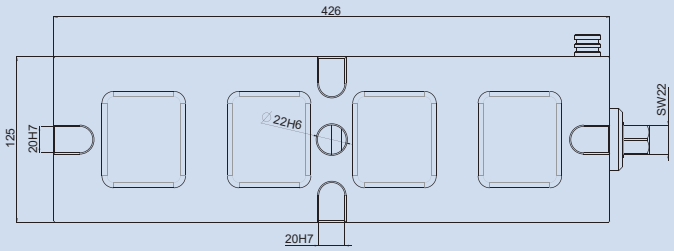
Precision CNC Machine Vice M125

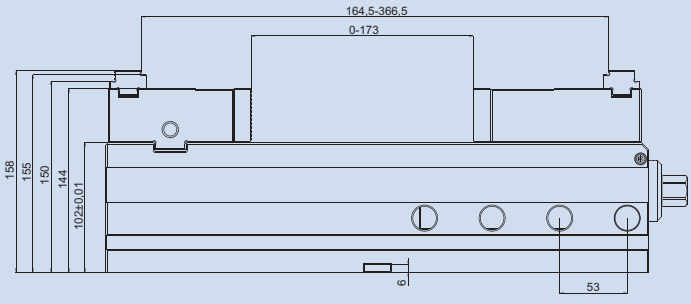


- Induction hardened guideways
- Grinded body (GGG60 nodular cast iron)
- Side rails for conventional clamping
- Can be used on machine table or on towers
- Keyways for alignment and H6 locating holes
- Jaw width 125 mm
- Fixed jaw enhances simple programming thanks to constant zero
- Heat treated jaws
- Clamping force up to 40 kN
- Rigid and robust design
- Maximum clamping range of 355 mm
- Equipped with a mechanical spindle without force amplification
- Wide range of add-on jaws and rail available
- Weight 38.7 Kg

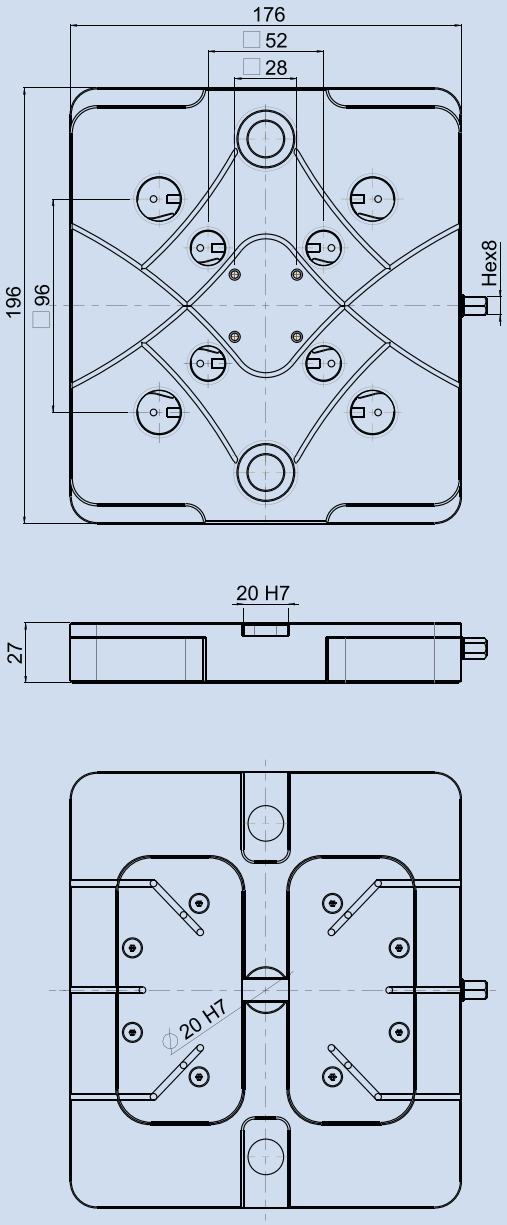
	Admissible
	0,005mm
	0,15mm
	0,04mm
	0,01mm
	X:122,99-123,041mm

Includes mounting kit, hand crank and a pair of serrated jaws









- Repetability less than 10µm
- Industry standard 52 and 96 centring pins spacing in one plate
- Surface treated steel body construction

PPZ1		
Dimensions	mm	196x176x27
Zero point system	mm	☐ 96 / 52
Zero point bolts	mm	Ø 20 / Ø 16
Max. tightening torque	Nm	45
Holding force	kN	60
Accuracy	mm	0,01
Suitable vice		CV48/78/126, DV78/126, MC125
Suitable mounting kit		MKS / MKC
Weight	kg	6.2

Available Mounting Kits

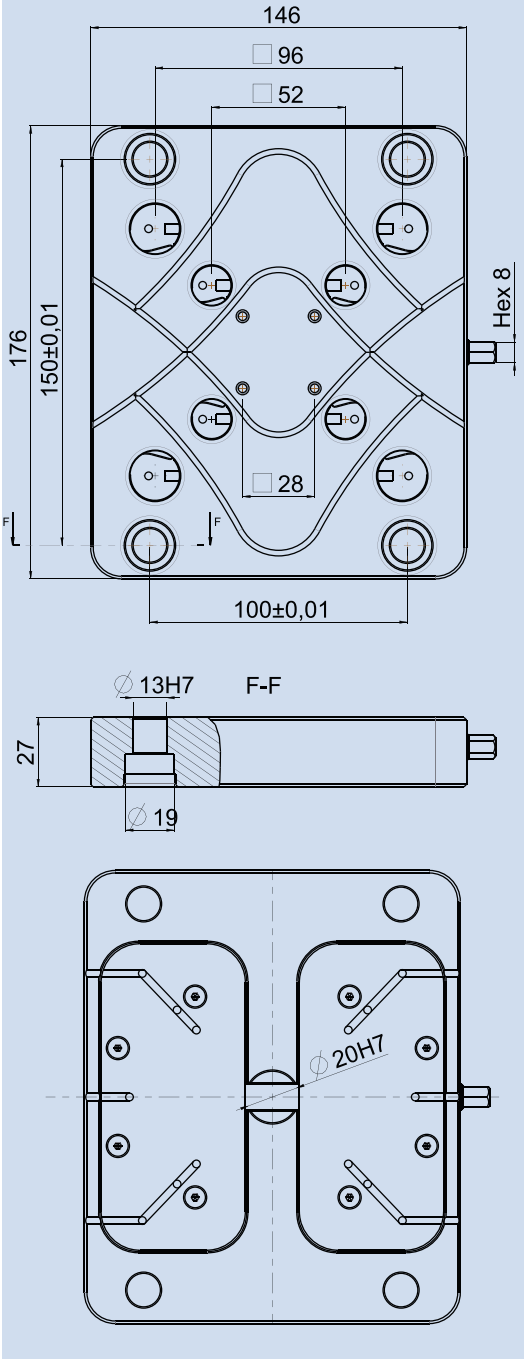
MKS



MKC







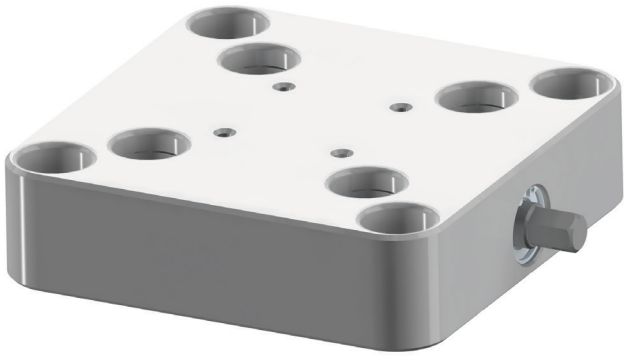
- Repetability less than 10µm
- Industry standard 52 and 96 centring pins spacing in one plate
- Surface treated steel body construction
- Suitable for use on milling centers

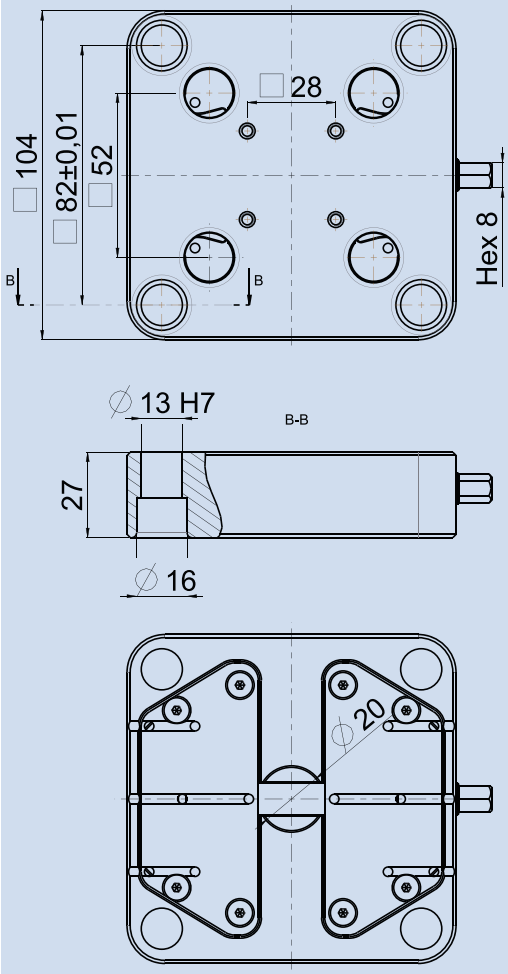
PPZ2		
Dimensions	mm	176x146x27
Zero point system	mm	96 / 52
Zero point bolts	mm	Ø 20 / Ø 16
Max. tightening torque	Nm	45
Holding force	kN	60
Accuracy	mm	0,01
Suitable vice		CV48/78/126, DV78/126, MC125
Suitable mounting kit		MKB
Weight	kg	4.65

Mounting Kit
MKB



High precision positioning due to the Ø13H7 holes and the bushings from the MKB mounting kit.





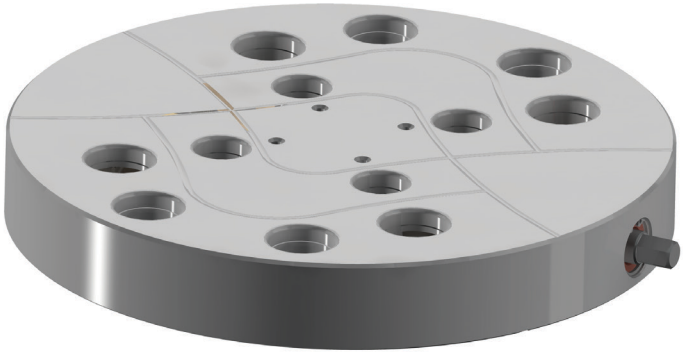
- Repetability less than 10µm
- Industry standard 52 centring pins spacing
- Surface treated steel body construction
- Suitable for use on milling centers towers

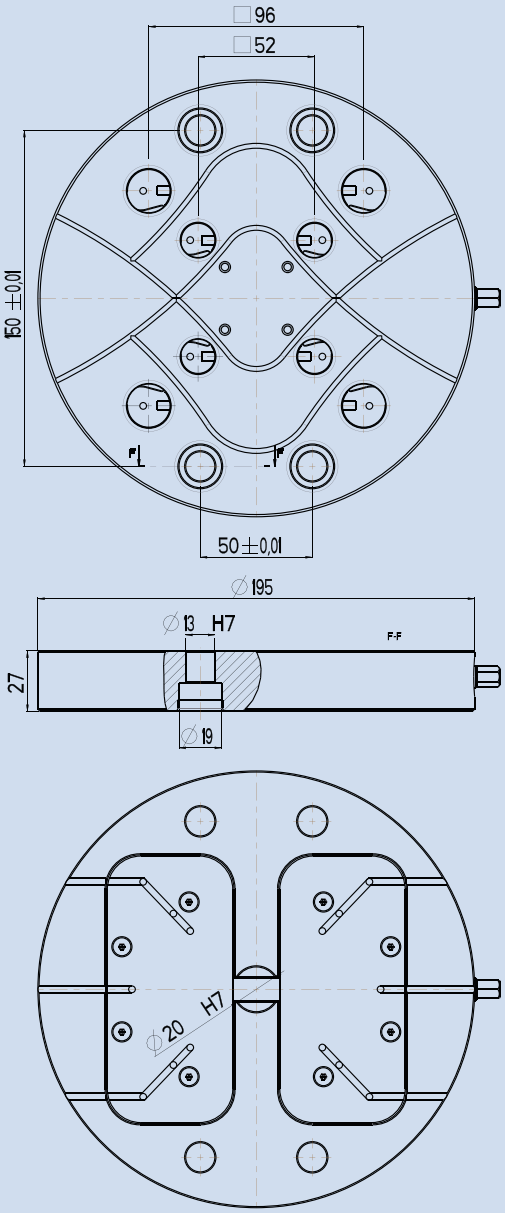
PPZ3		
Dimensions	mm	104x104x27
Zero point system	mm	· 52
Zero point bolts	mm	Ø 16
Max. tightening torque	Nm	45
Holding force	kN	60
Accuracy	mm	0,01
Suitable vice		CV78 / CV48
Suitable mounting kit		MKB
Weight	kg	1.8

Mounting Kit
MKB



High precision positioning due to the Ø13H7 holes and the bushings from the MKB mounting kit.





- Repetability less than 10µm
- Industry standard 52 and 96 centring pins spacing in one plate
- Surface treated steel body construction

PPZ4		
Dimensions	mm	Ø195/27
Zero point system	mm	· 96 / 52
Zero point bolts	mm	Ø 20 / Ø 16
Max. tightening torque	Nm	45
Holding force	kN	60
Accuracy	mm	0,01
Suitable vice		CV126 / CV78 / CV48
Suitable mounting kit		MKB
Weight	kg	5.57

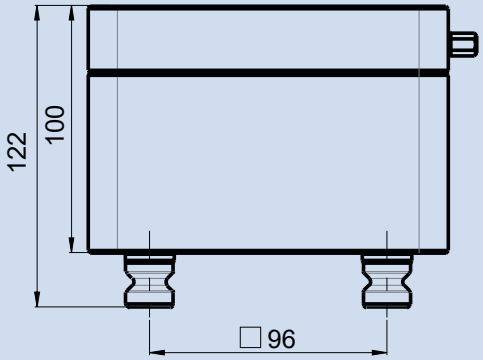
Mounting Kit
MKB

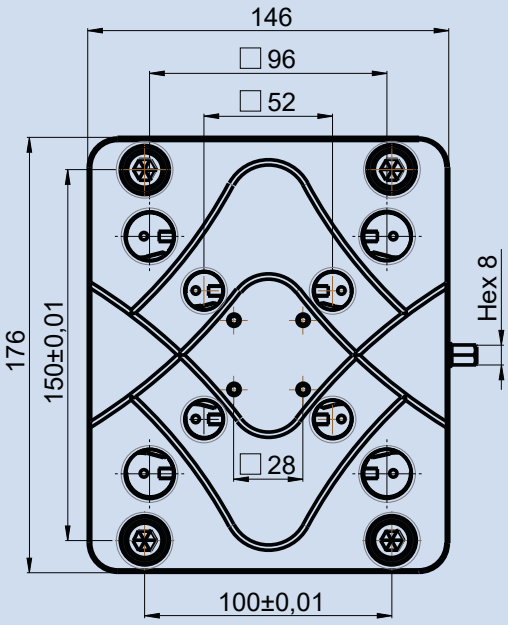


High precision positioning due to the Ø13H7 holes and the bushings from the MKB mounting kit.

PPZ4







- Repetability less than 10µm
- Industry standard 52 and 96 centring pins spacing in one riser
- Surface treated steel body construction
- Suitable for use on milling centers

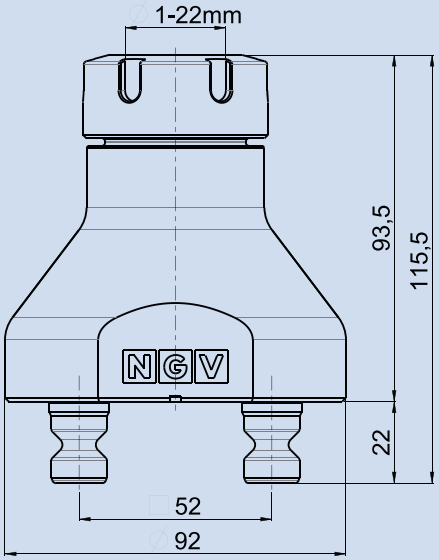
PPZ5		
Dimensions	mm	176x146x100
Zero point system	mm	· 96 / 52
Zero point bolts	mm	Ø 20 / Ø 16
Max. tightening torque	Nm	45
Holding force	kN	60
Accuracy	mm	0,01
Suitable vice		CV48/78/126, DV78/126, MC125
Weight	kg	14

Compatible with zero point clamping systems with 52 grid, this collet chuck uses commercially available collets and speeds up the setup process for milling round parts.

A simple and strainghtforward design ensures good accesibillity with shorter tools and low vibration when used. Available in two sizes for a wide range of clamping diameters.

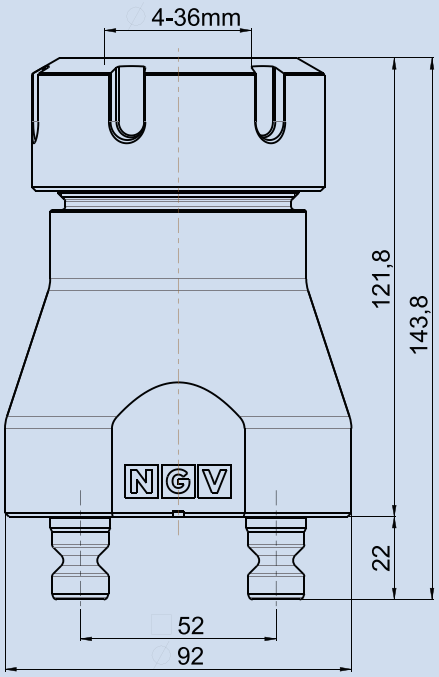
ZPC32





ZPC50



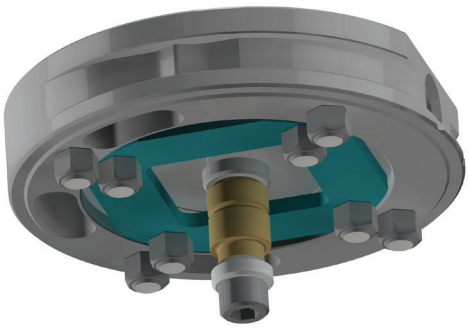


	ZPC32	ZPC50
Compatible with collets for	ER32	ER50
Clamping range [mm]	Ø 1 - 22	Ø 4 - 36
Zero point system [mm]	· 52	· 52
Zero point pins diameter [mm]	Ø 16	Ø 16
Weight [Kg]	2.27	3.14

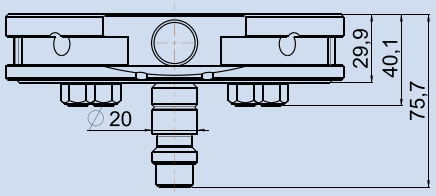
ZPC32
ZPC50

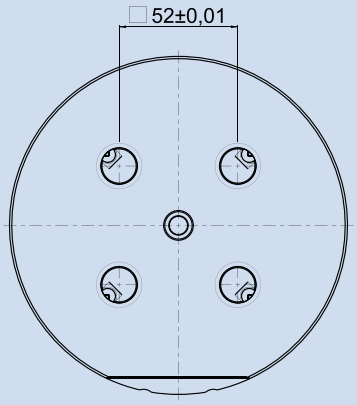
Adapter Plate Erowa® APE

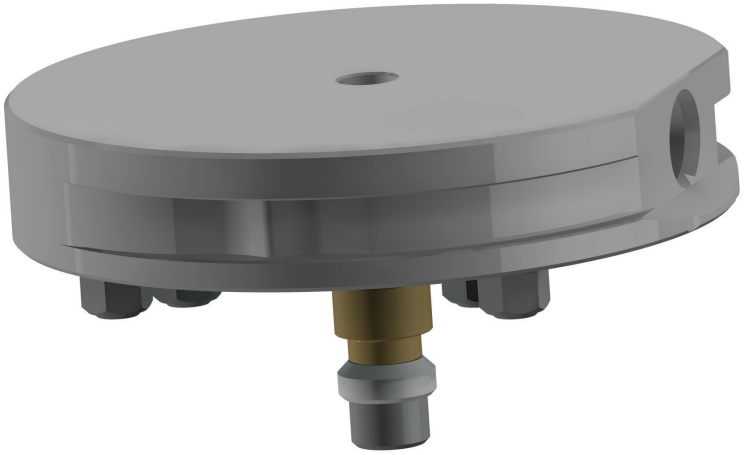




- Aluminum or steel Ø148 pallet
- Compatible with Erowa® Power Chuck P systems
- Includes the centring plate and pins
- Suitable for quick use with centring vices in automations

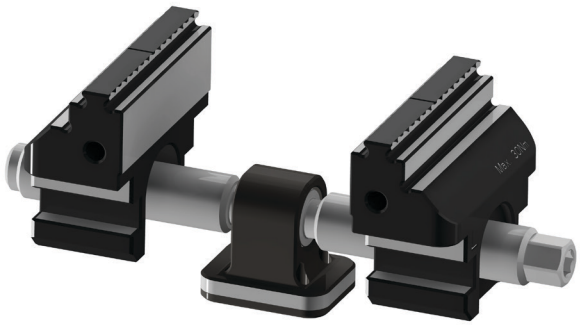




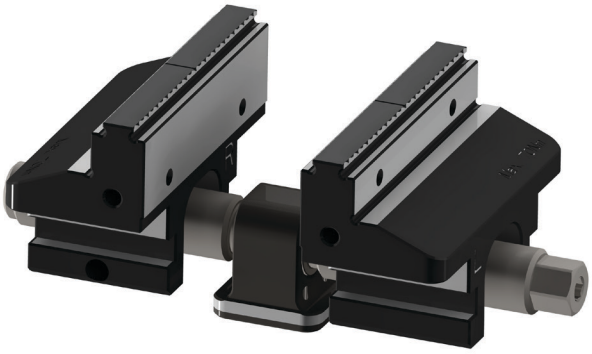


	APE1A	APE1S	APE2A	APE2S
Size	Ø148	Ø148	Ø148	Ø148
Material	EN AW 5083	42CrMo4-QT	EN AW 5083	42CrMo4-QT
Zero point system compatible	Blank	Blank	☐ 52	☐ 52
Weight [Kg]	1.5	3.5	1.5	3.5

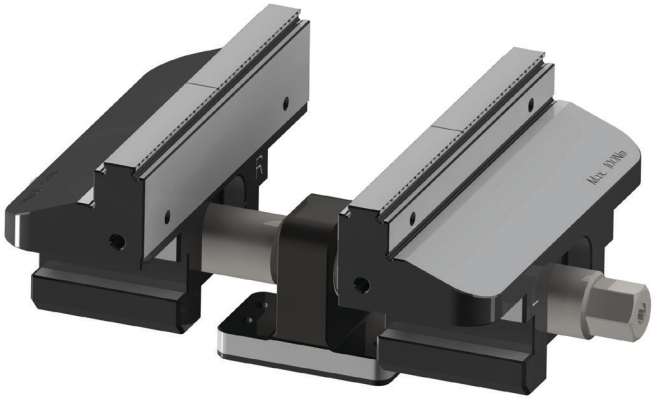
- Replacement kits for all NGV vices
- Kit comprised from two jaws, spindle and mounting part
- Jaws serrated on both sides
- Jaws also with smooth clamping surface for 2nd operations
- Replaceable only in kits



KCV48



KCV78

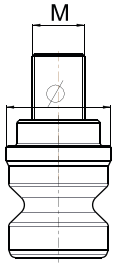


KCV126

Spindle kits	KCV48S	KCV48M	KCV48L	KCV78S	KCV78M	KCV78L	KCV126S	KCV126M	KCV126L
Suitable for	CV48S	CV48M	CV78L	CV78S	CV78M	CV78L	CV126S	CV126M	CV126L

- Replacement centring pins

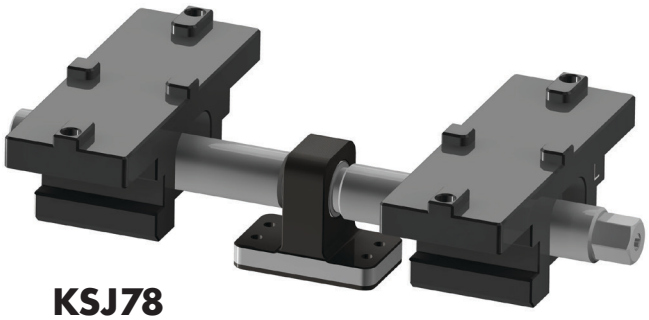




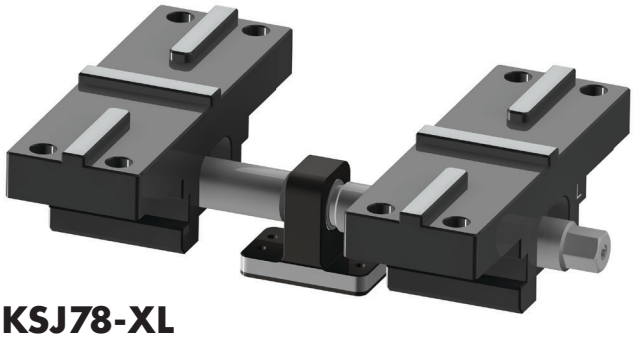
Centring pins	PC16	PC20
Thread (M)	M8	M10
Diameter	Ø16	Ø20
Used with zero point systems	☐ 52	☐ 96

Base Jaws // Kit Soft Jaws for CV78 and CV126

- Accessories for flexible clamping
- Adaptation of customer's own device or fixtures on the base jaws
- Positioning is done by bolts

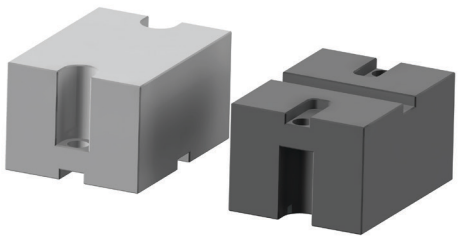


KSJ78
KSJ126

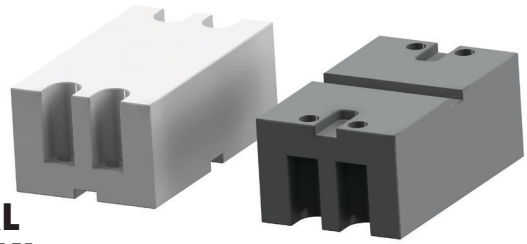


KSJ78-XL
KSJ126-XL

	KSJ78S	KSJ78M	KSJ78L	KSJ126S	KSJ126M	KSJ126L
Suitable for	CV78S SJV78S	CV78M SJV78M	CV78L SJV78L	CV126S SJV126S	CV126M SJV126M	CV126L SJV126L
Works with	SJ78A SJ78S	SJ78A SJ78S	SJ78A SJ78S	SJ126A SJ126S	SJ126A SJ126S	SJ126A SJ126S
	KSJ78S-XL	**KSJ78M-XL**	**KSJ78L-XL**	**KSJ126S-XL**	**KSJ126M-XL**	**KSJ126L-XL**
Suitable for	CV78S SJV78S-XL	CV78M SJV78M-XL	CV78L SJV78L-XL	CV126S SJV126S-XL	CV126M SJV126M-XL	CV126L SJV126L-XL
Works with	SJ78A-XL SJ78S-XL	SJ78A-XL SJ78S-XL	SJ78A-XL SJ78S-XL	SJ126A-XL SJ126S-XL	SJ126A-XL SJ126S-XL	SJ126A-XL SJ126S-XL



SJ78
SJ126

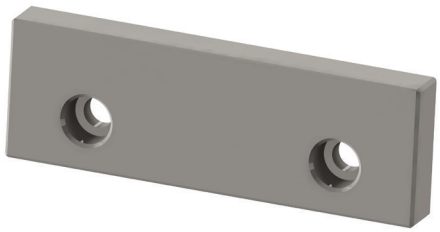


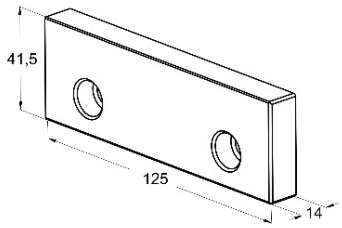
SJ78-XL
SJ126-XL

- Soft jaws available in aluminium or steel
- Can be used for pre-machined, round or profiled parts
- Low cost soft jaws can be purchased or can be machined in-house by user

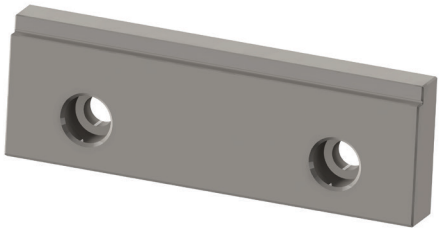
	SJ78A	SJ78S	SJ126A	SJ126S
Suitable for	SJV78	SJV78	SJV126	SJV126
Material	EN AW 5083	1.7139	EN AW 5083	1.7139
L x W x H [mm]	78,5 x 66 x 46	78,5 x 66 x 46	126,5 x 78 x 56	126,5 x 78 x 56
	SJ78A-XL	**SJ78S-XL**	**SJ126A-XL**	**SJ126S-XL**
Suitable for	SJV78-XL	SJV78-XL	SJV126-XL	SJV126-XL
Material	EN AW 5083	1.7139	EN AW 5083	1.7139
L x W x H [mm]	110 x 66 x 46	110 x 66 x 46	160 x 78 x 56	160 x 78 x 56

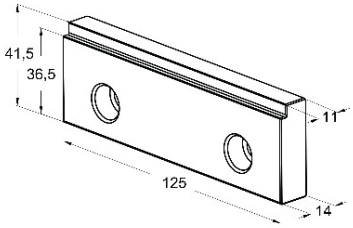
Plain jaw — AMMH1.5.00.1



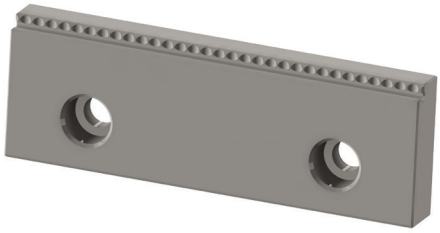


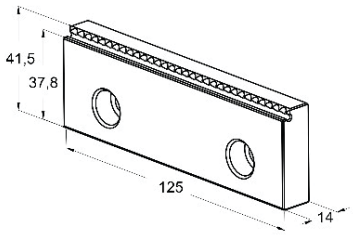
Stepped plain jaw — AMMH1.4.00.1



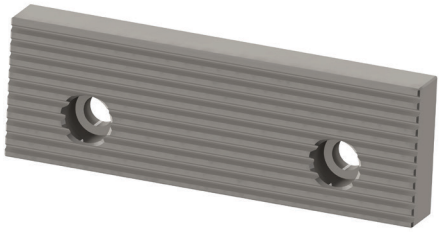


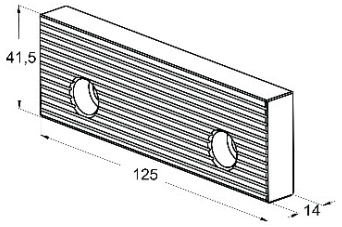
Claw jaw — AMMH1.21.0



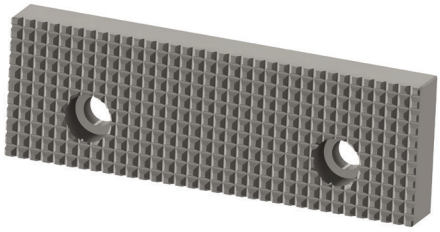


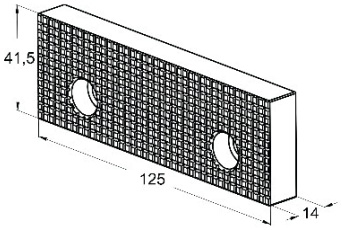
Serrated jaw — AMMH1.1.00.1



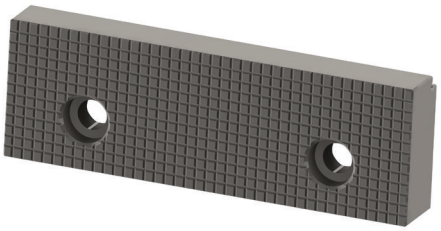


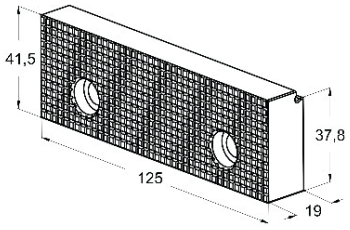
Double serrated jaw — AMMH1.2.00.1



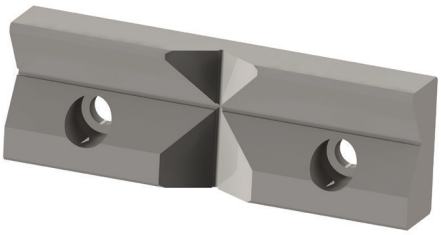


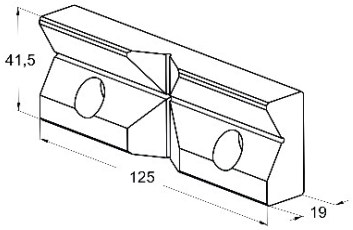
Reversible jaw — AMMH1.19.0



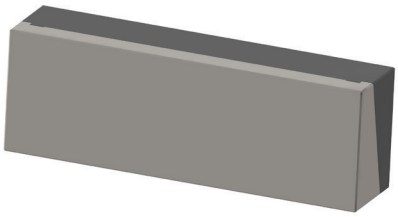


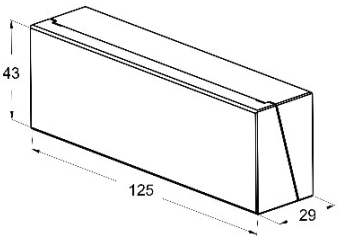
Prismatic jaw — AMMH1.3.00.1



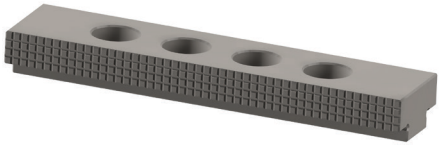


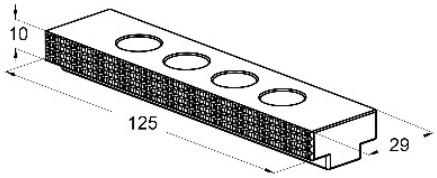
Pull down jaw — AMMH1.6.00.0





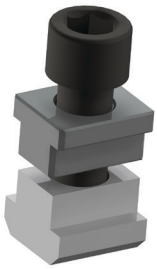
Double serrated rail — AMMM1.4.0

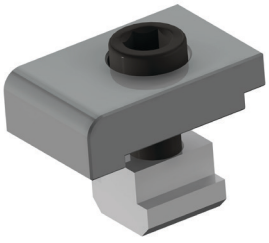




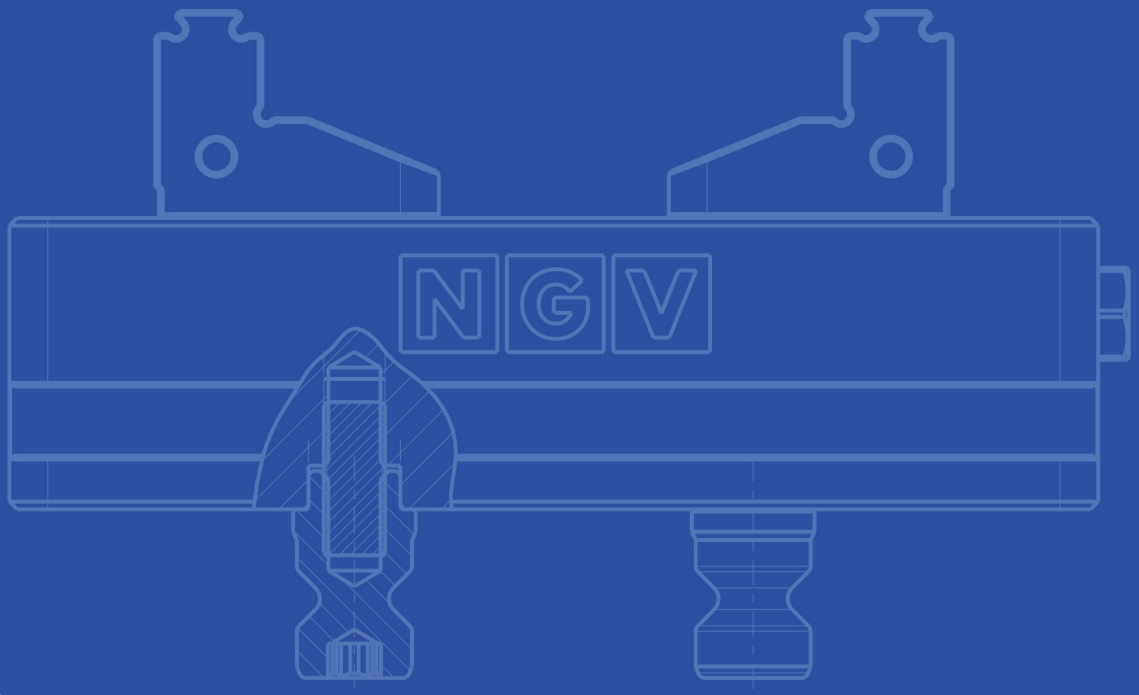
Vice Stoper VS1	Mounting kit screw MKS	Mounting kit clamp MKC	Mounting kit bushing MKB

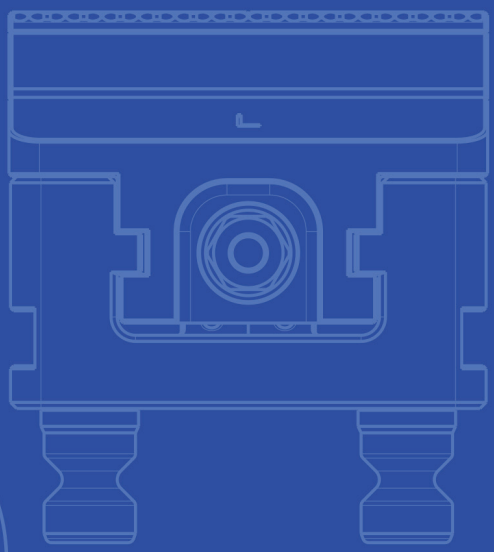












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