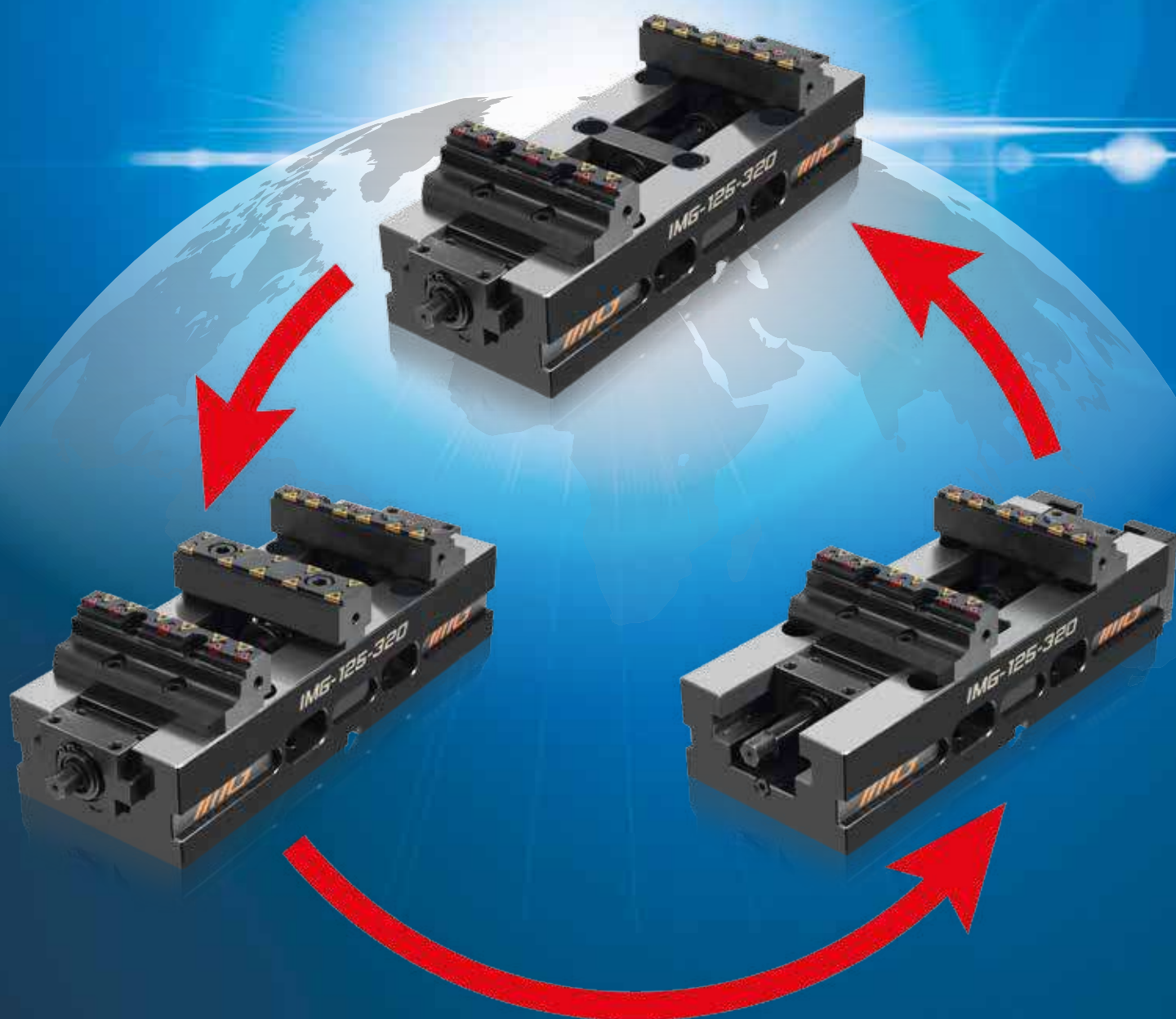


ING

IMAGINATION HAS NO LIMIT





Self-centering vice | Double

Wide clamping range
Maximum flexibility
For external and internal clamping

SinterGrip jaws:
Reversible jaws for minimum clamping
depth and without pre-machining



SinterGrip jaws



Mechanical clamping
Totally protected with patented telescopic system.
The large power transmission allows high
performance in the manufacturing process



Interface
For Zero Point clamping
systems and mounting
holes as standard



le Clamping | Fixed

- **Totally protected**

- With patented telescopic system

- **Through holes**

- For frontal clamping

- **Ideal**

- For automation and palletizing systems

- **Flexible mounting**

- on machine tool pallet using clamps (optional)

**Double clamping jaw
(for double clamping)**



**Retainer plate
(for fixed clamping)**



- **Very large drainage slots**

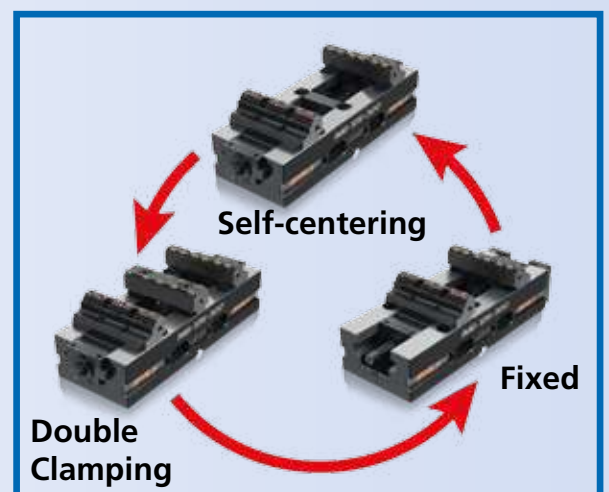
- for coolant and chips

- **Treated and precision ground guides**

- for maximum accuracy and repeatability

- **Parallels**

- with quick change Clak System





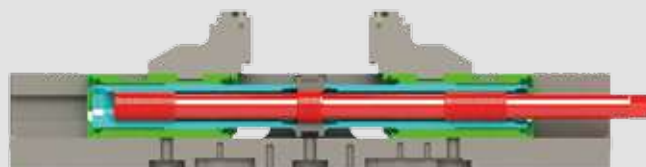
Patented protected screw



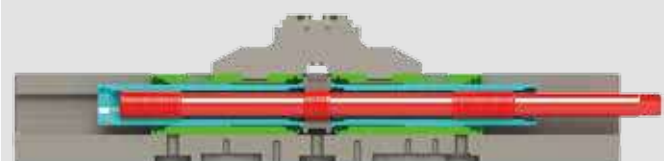
Open



Closing



Close



Opening





Vice
Self-centering | Double Clamping | Fixed

MODULAR

The IMG self-centering vices can be easily transformed into fixed vices or double clamping vices.

Self-centering



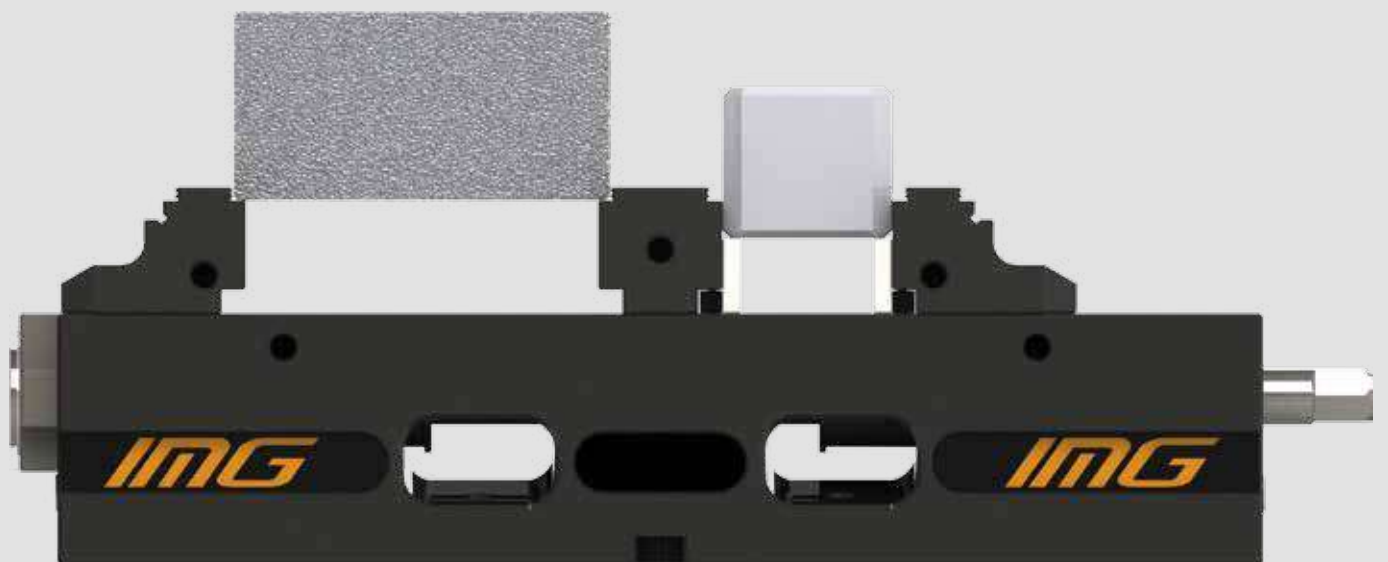
Double Clamping



Fixed

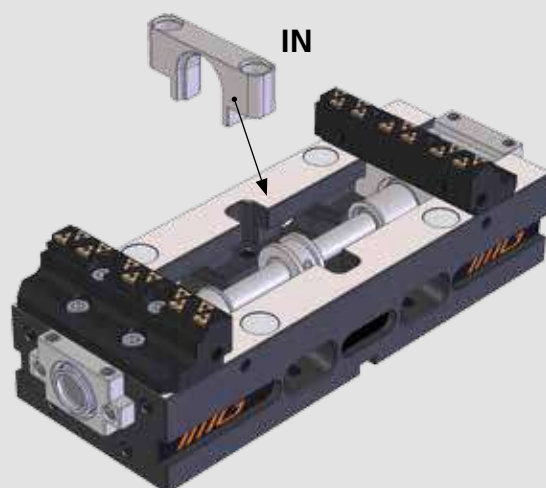


The double clamping vices have a completely compensating mechanism (until zero), therefore it is possible to clamp 2 pieces of different sizes.

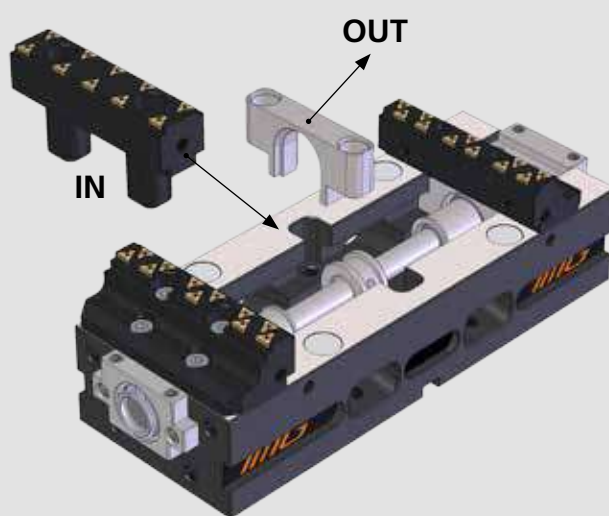




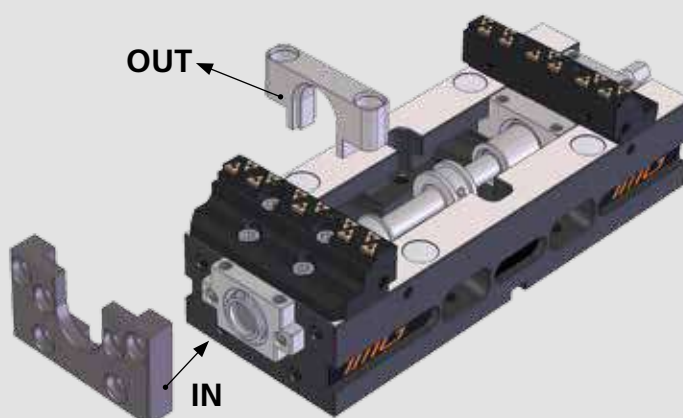
Modular



Self-centering



Double Clamping



Fixed

IMG 125 - 220

Self-centering vice | Double Clamping | Fixed

■ Patented protected screw

Applications / Customer Benefits

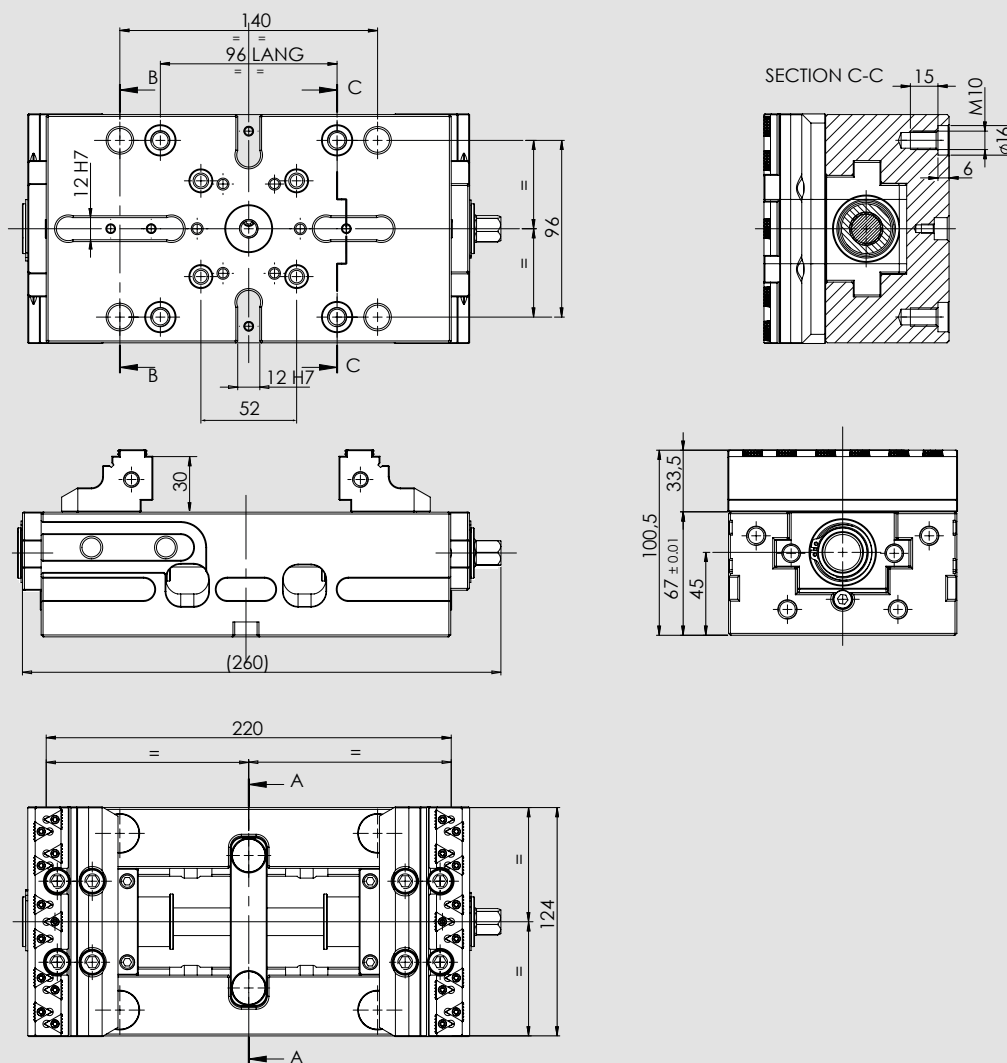
- Highly precise self-centering clamping with maximum repeatability
- Totally protected
- Compact design for better accessibility and very large drainage slots
- Jaws with SinterGrip clamping inserts for minimum workpiece clamping depth without pre-machining
- Wide clamping range
- Ideal for OP 10 and OP 20

Technical features

- Self-centering clamping
- Clamping force up to 40 kN (80 Nm)
- Jaw width 125 mm
- Interface for zero point systems APS / WPS and Lang 96 mm as standard

Standard equipment

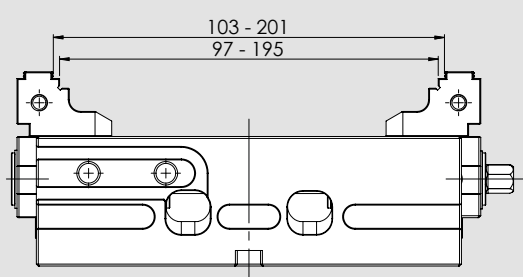
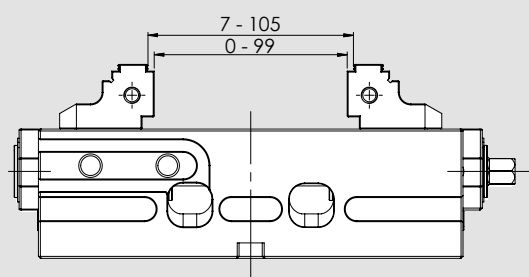
Wrench, jaws, Sintergrip inserts.



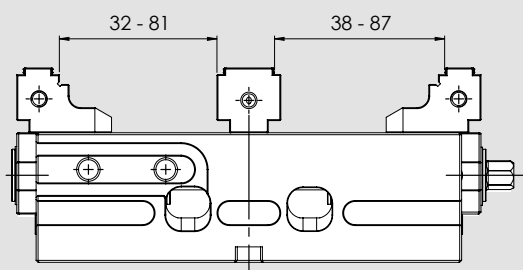
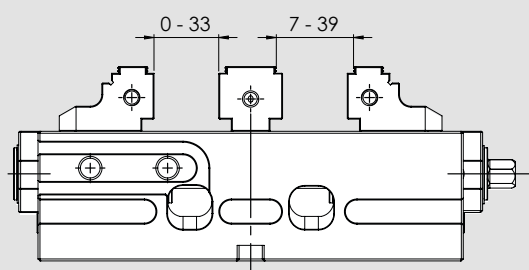
Type	Id. No.	Weight
IMG 125 - 220 with SinterGrip jaws STD	77583511	15 Kg
IMG 125 - 220 with SinterGrip jaws ALU	77583512	15 Kg
IMG 125 - 220 with SinterGrip jaws HRC	77583513	15 Kg

■ Patented protected screw

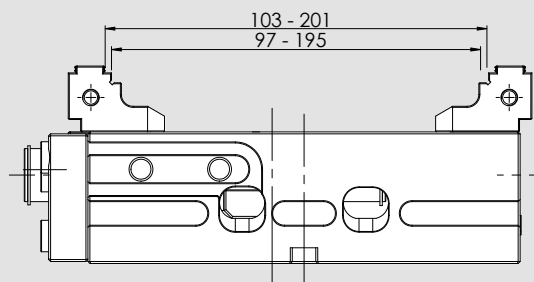
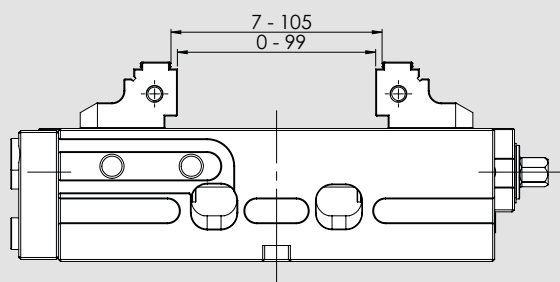
Self-centering



Double Clamping



Fixed



■ Patented protected screw

Applications / Customer Benefits

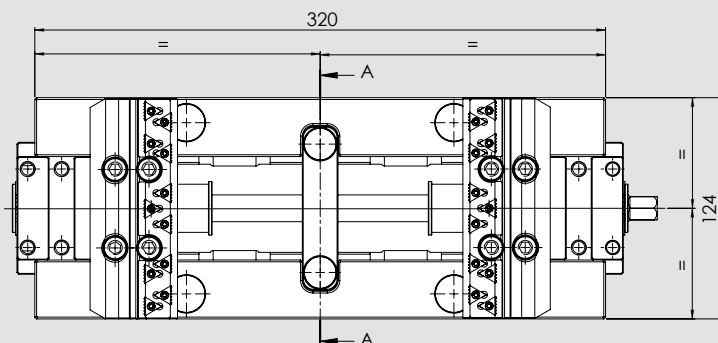
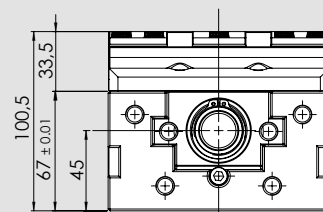
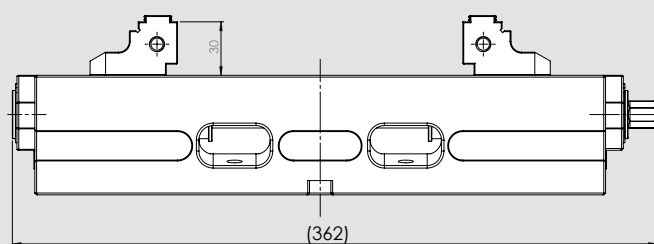
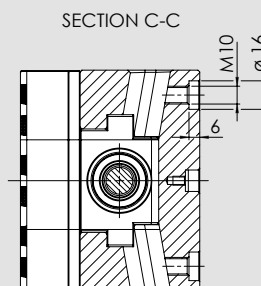
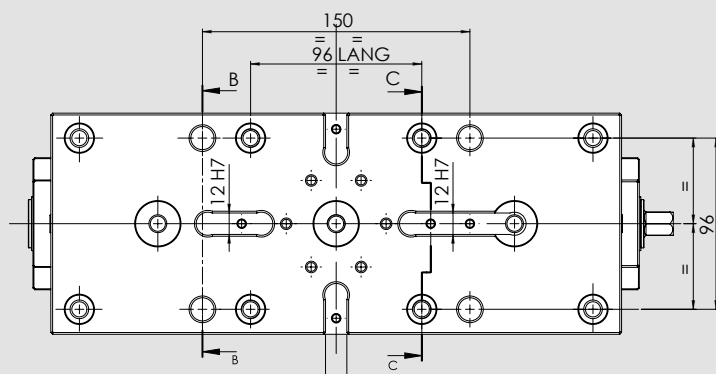
- Highly precise self-centering clamping with maximum repeatability
- Totally protected
- Compact design for better accessibility and very large drainage slots
- Jaws with SinterGrip clamping inserts for minimum workpiece clamping depth without pre-machining
- Wide clamping range
- Ideal for OP 10 and OP 20

Technical features

- Self-centering clamping
- Clamping force up to 40 kN (80 Nm)
- Jaw width 125 mm
- Interface for zero point systems APS / WPS and Lang 96 mm as standard

Standard equipment

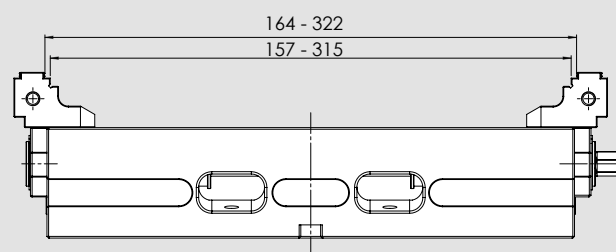
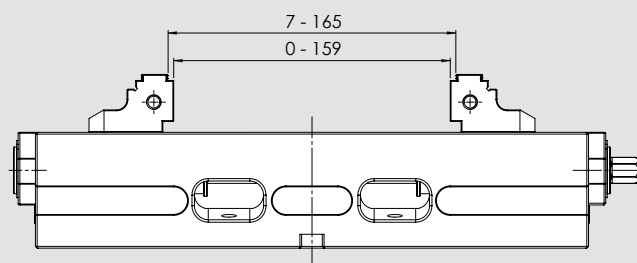
Wrench, jaws, Sintergrip inserts.



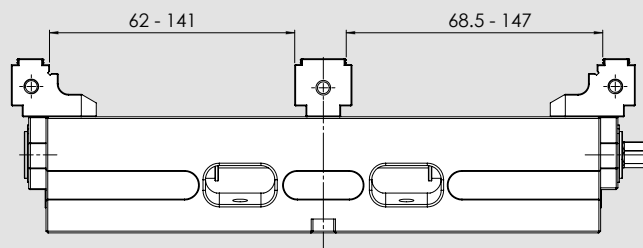
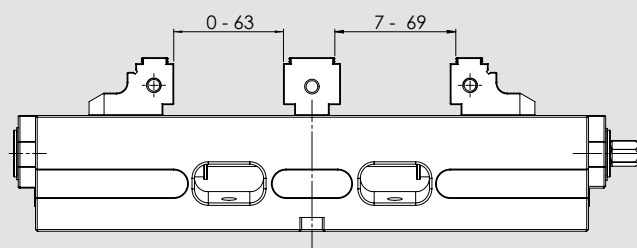
Type	Id. No.	Weight
IMG 125 - 320 with SinterGrip jaws STD	77583521	20 Kg
IMG 125 - 320 with SinterGrip jaws ALU	77583522	20 Kg
IMG 125 - 320 with SinterGrip jaws HRC	77583523	20 Kg

■ Patented protected screw

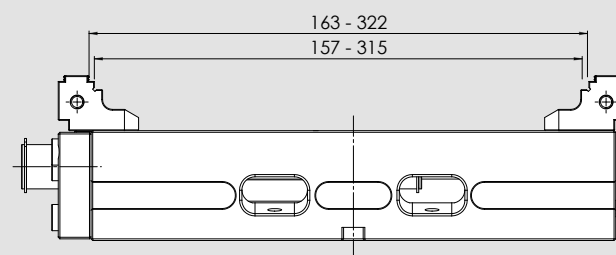
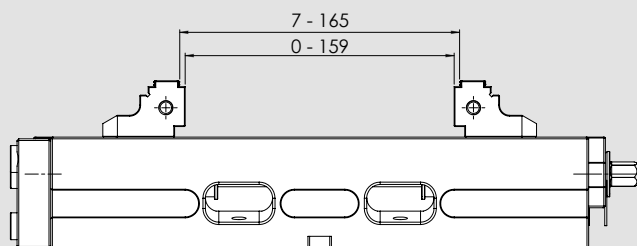
Self-centering



Double Clamping



Fixed



■ Patented protected screw

Applications / Customer Benefits

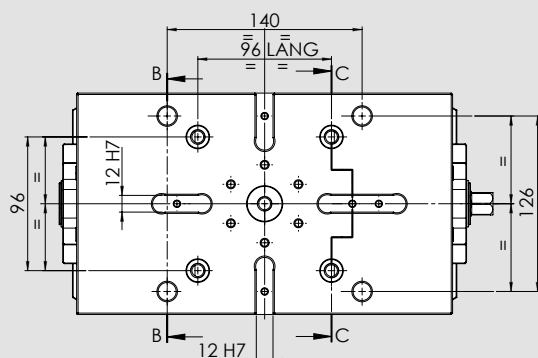
- Highly precise self-centering clamping with maximum repeatability
- Totally protected
- Compact design for better accessibility and very large drainage slots
- Jaws with SinterGrip clamping inserts for minimum workpiece clamping depth without pre-machining
- Wide clamping range
- Ideal for OP 10 and OP 20

Technical features

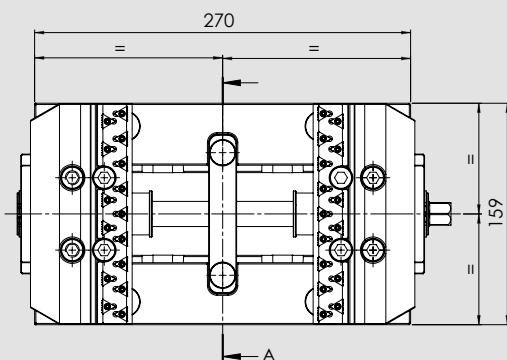
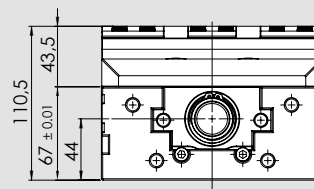
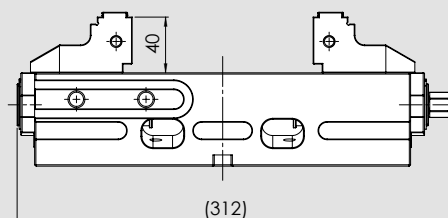
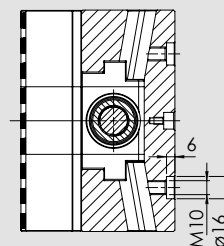
- Self-centering clamping
- Clamping force up to 55 kN (120 Nm)
- Jaw width 160 mm
- Interface for zero point systems APS / WPS and Lang 96 mm as standard

Standard equipment

Wrench, jaws, Sintergrip inserts.



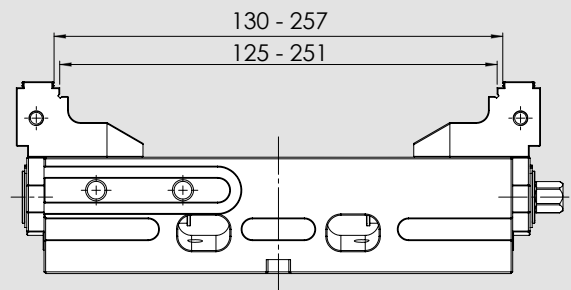
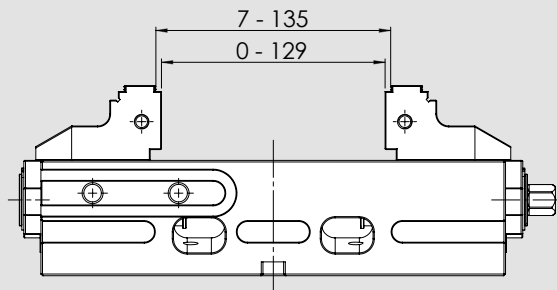
SECTION C-C



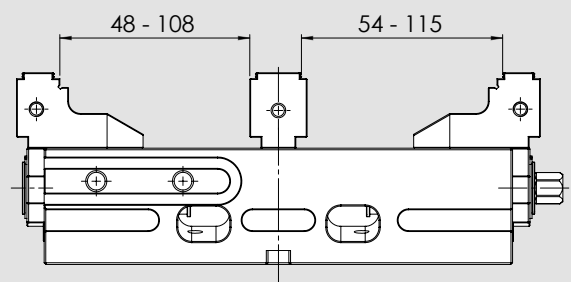
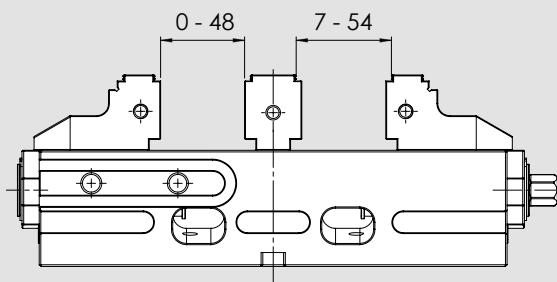
Type	Id. No.	Weight
IMG 160 - 270 with SinterGrip jaws STD	77583611	22 Kg
IMG 160 - 270 with SinterGrip jaws ALU	77583612	22 Kg
IMG 160 - 270 with SinterGrip jaws HRC	77583613	22 Kg

■ Patented protected screw

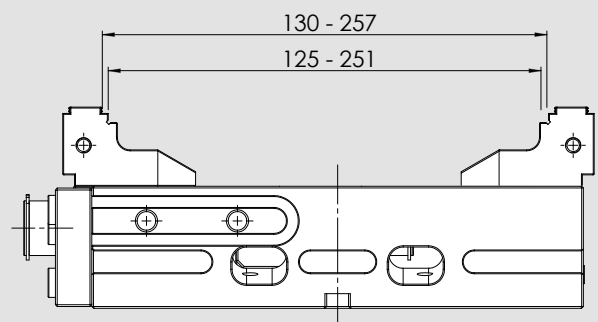
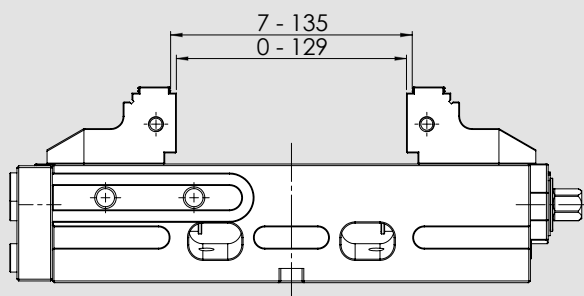
Self-centering



Double Clamping



Fixed



■ Patented protected screw



Applications / Customer Benefits

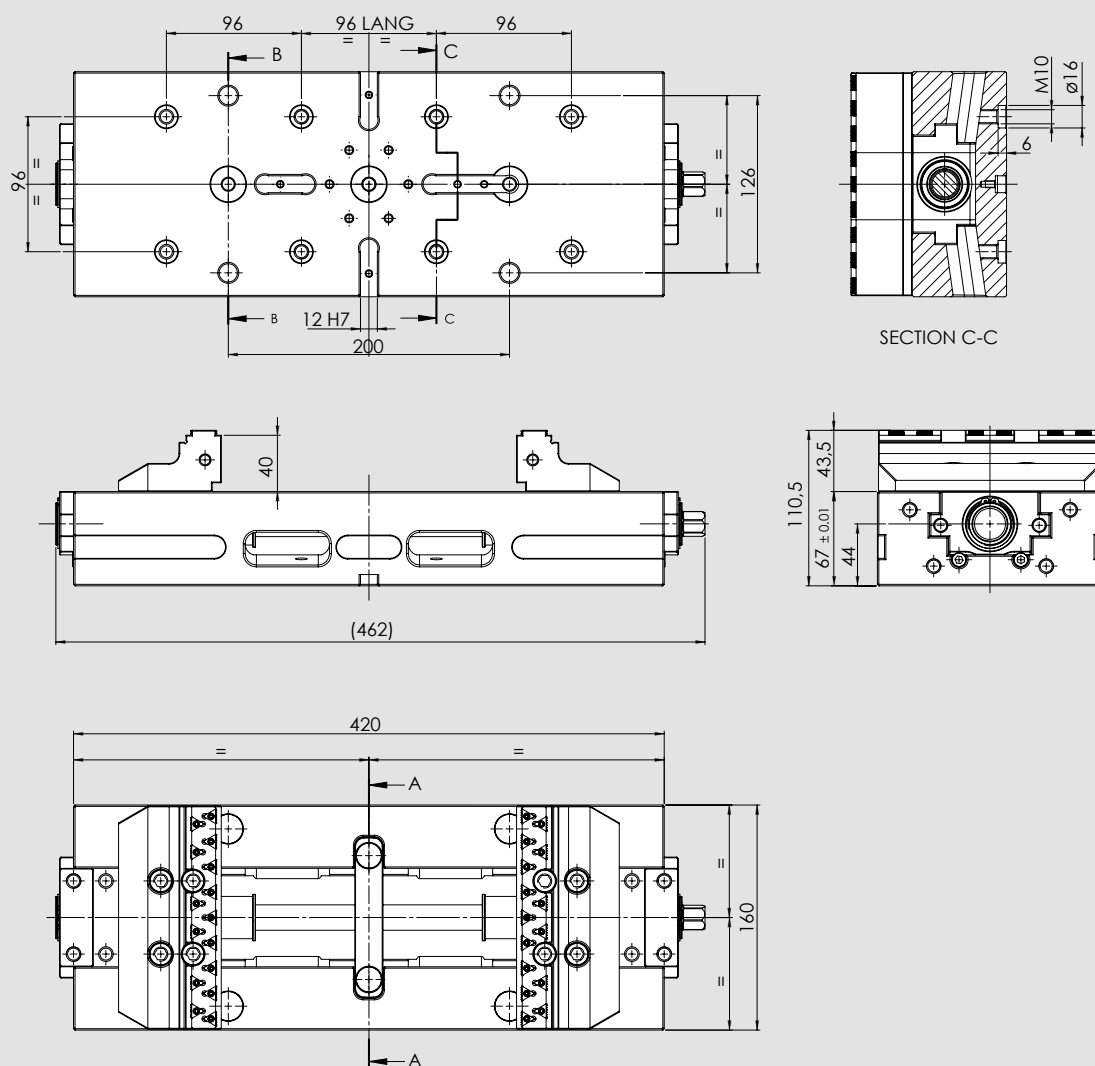
- Highly precise self-centering clamping with maximum repeatability
- Totally protected
- Compact design for better accessibility and very large drainage slots
- Jaws with SinterGrip clamping inserts for minimum workpiece clamping depth without pre-machining
- Wide clamping range
- Ideal for OP 10 and OP 20

Technical features

- Self-centering clamping
- Clamping force up to 55 kN (120 Nm)
- Jaw width 160 mm
- Interface for zero point systems APS / WPS and Lang 96 mm as standard

Standard equipment

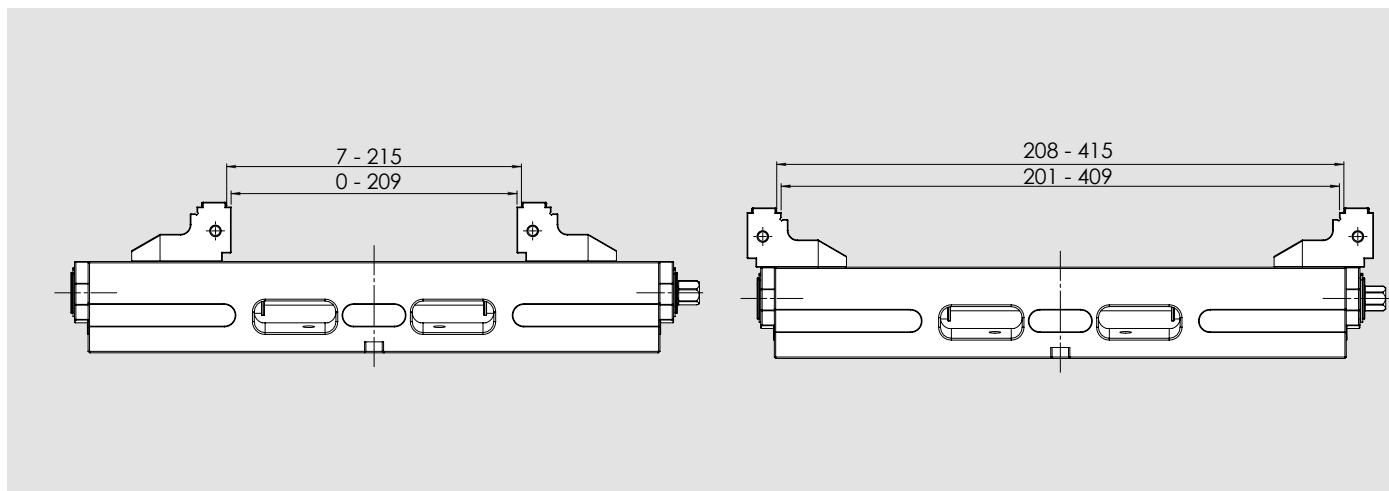
Wrench, jaws, Sintergrip inserts.



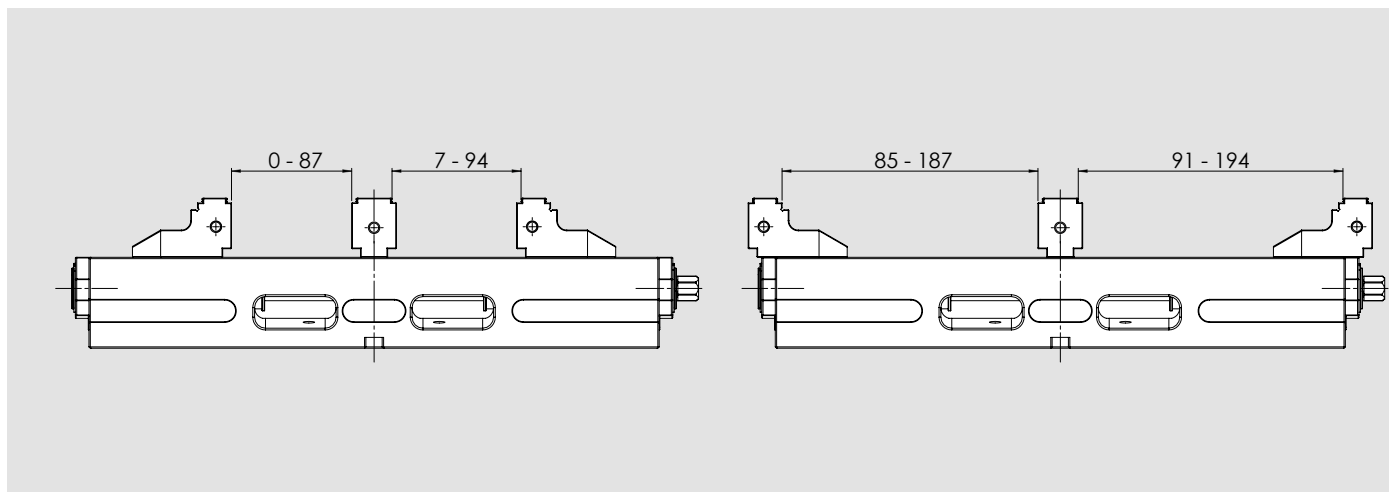
Type	Id. No.	Weight
IMG 160 - 420 with SinterGrip jaws STD	77583621	32 Kg
IMG 160 - 420 with SinterGrip jaws ALU	77583622	32 Kg
IMG 160 - 420 with SinterGrip jaws HRC	77583623	32 Kg

■ Patented protected screw

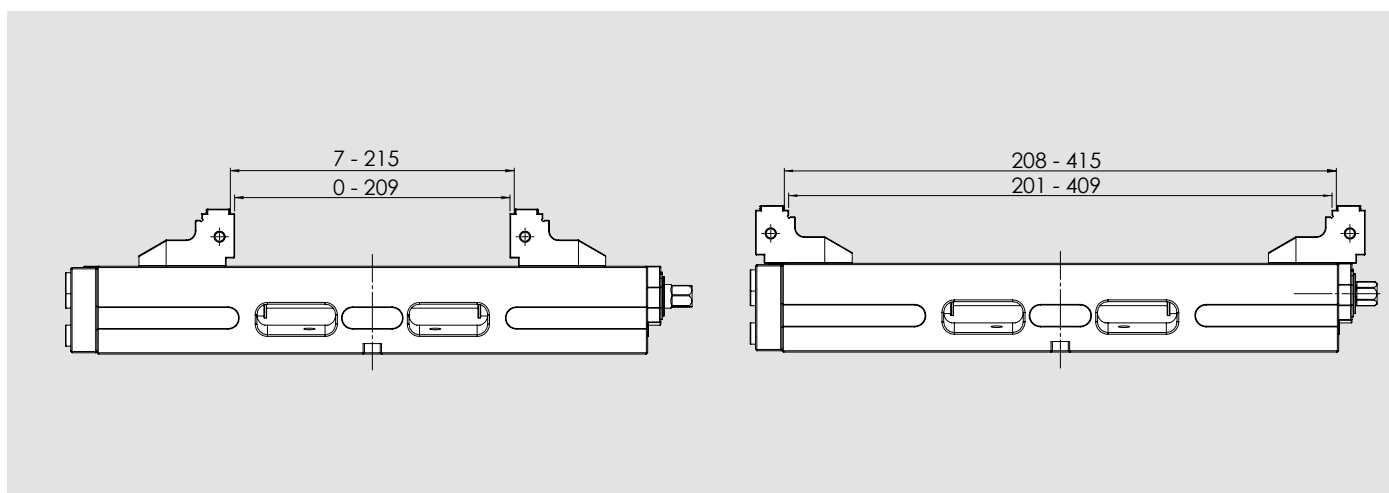
Self-centering



Double Clamping



Fixed



Double clamping jaw - SinterGrip not included, to be specified at the moment of the order



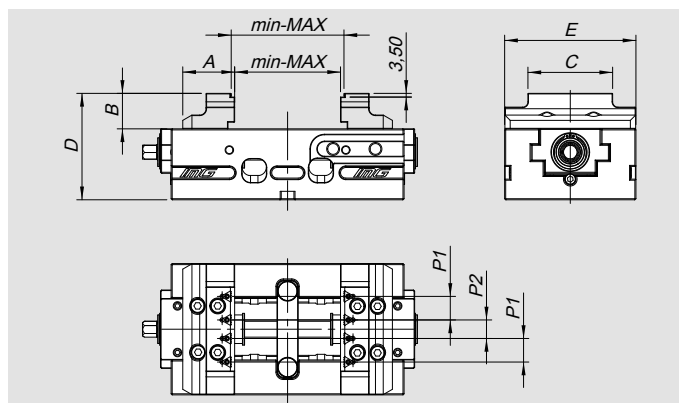
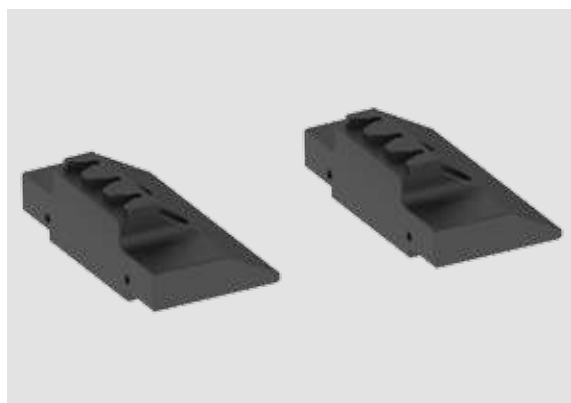
Type	Id. No.
IMG 125	58351719
IMG 160	58361719

Retainer plate



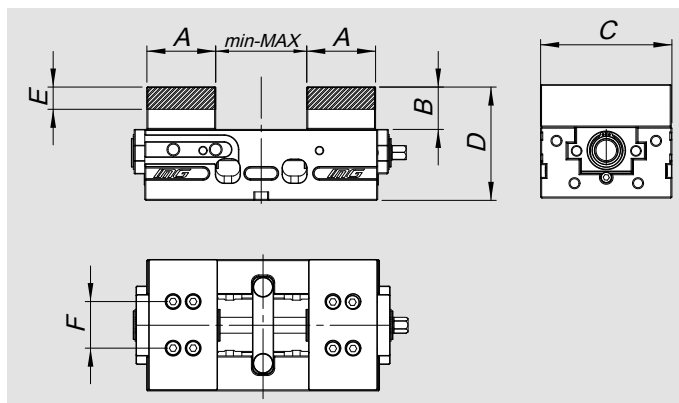
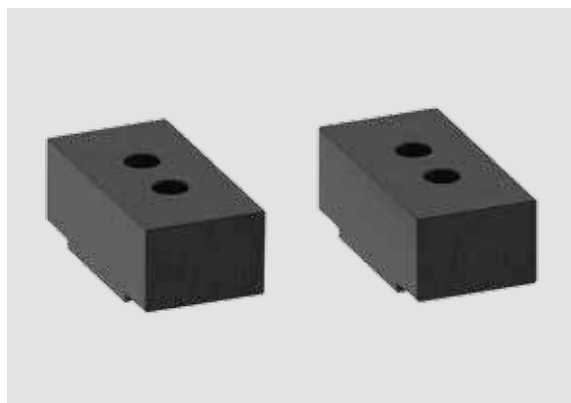
Type	Id. No.
IMG 125	58351019
IMG 160	58361019

Pair of reduced jaws - SinterGrip not included, to be specified at the moment of the order



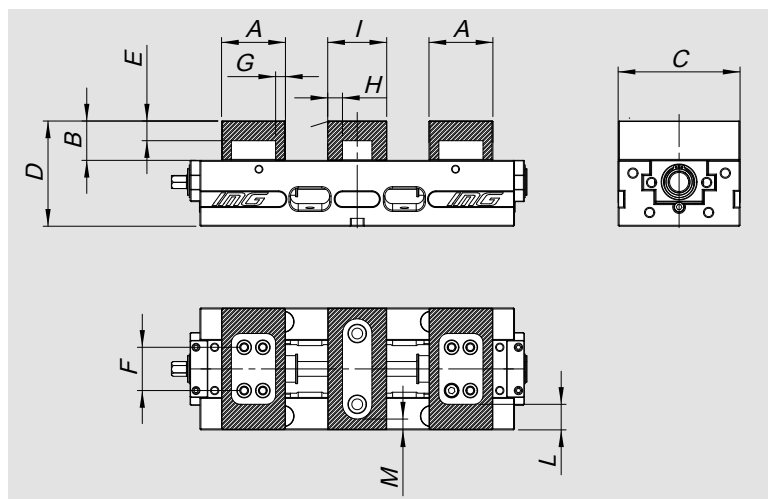
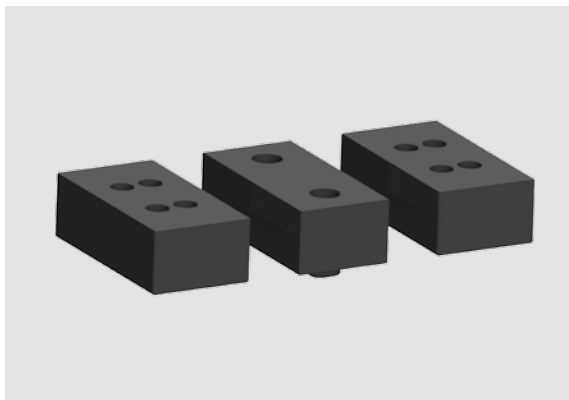
Type	Id. No.	A	B	C	E	D	p1	p2	min.	max.
IMG 125x220	58351519	49	33.5	80	100.5	123.5	22.25	17.5	0-7	99-105
IMG 125x320		49	33.5	80	100.5	123.5	22.25	17.5	0-7	159-165
IMG 160x270	58361519	73	43.5	90	110.5	158.5	18	18	0-7	129-135
IMG 160x420		73	43.5	90	110.5	158.5	18	18	0-7	209-215

Pair of soft jaws (soft steel – ALU)



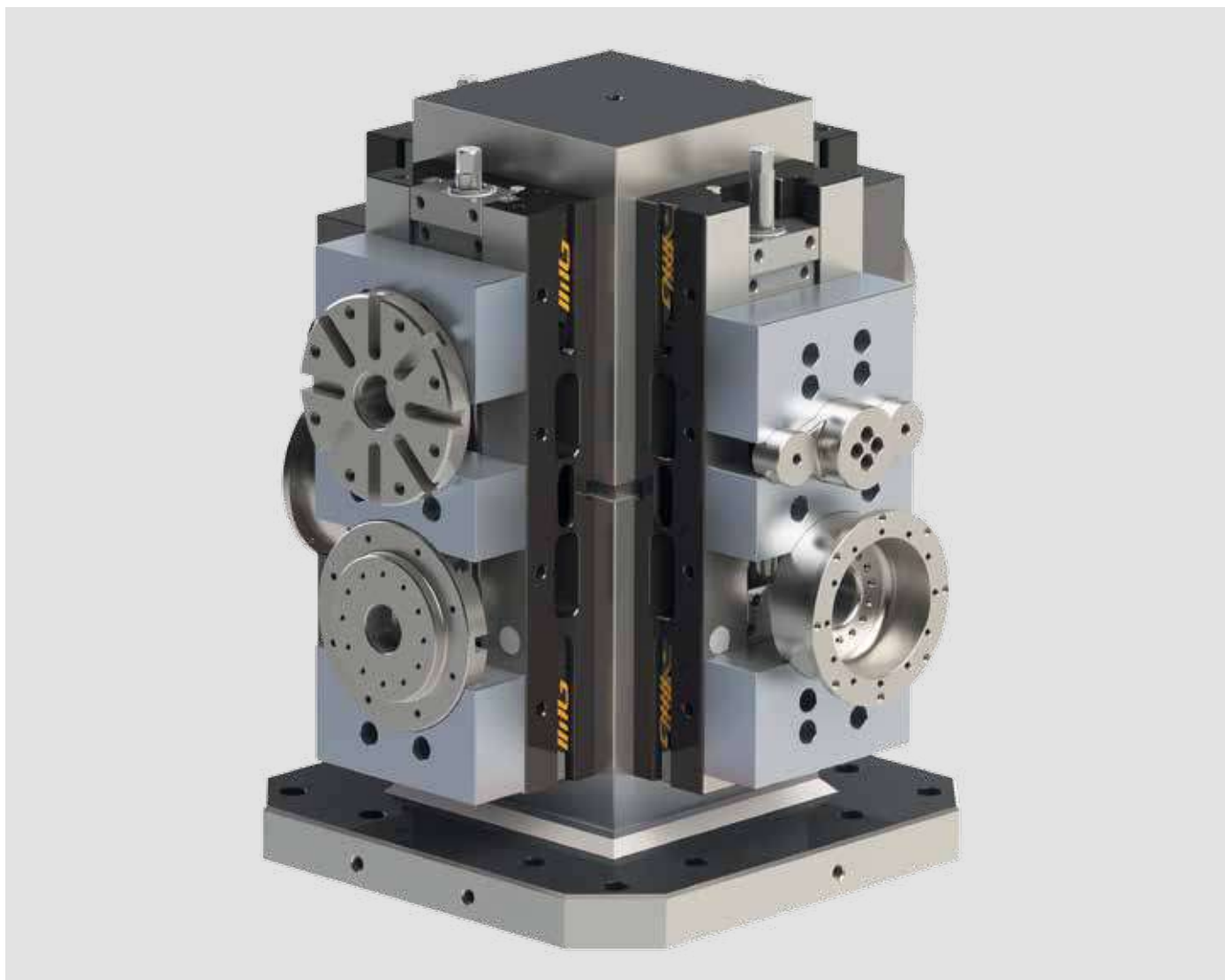
Type	Id. No.	A	B	C	D	E	F	min.	max.
IMG 125	ALU 58351619	65	40	123,5	107	20	44	0	86 (125x220) / 186 (125x320)
IMG 125	Fe 58351629	65	40	123,5	107	20	44	0	86 (125x220) / 186 (125x320)
IMG 160	ALU 58361619	85	50	158.5	117	25	52	0	141-147 (160x270) / 221-227 (160x420)
IMG 160	Fe 58361629	85	50	158.5	117	25	52	0	141-147 (160x270) / 221-227 (160x420)

Set of soft jaws for double clamping



Type		Id. No.	A	B	C	D	E	F	G	H	I	L	M
IMG 125	ALU	58359519	65	40	123,5	107	20	44	10	15	60	25	11
IMG 125	Fe	58359619	65	40	123,5	107	20	44	10	15	60	25	11
IMG 160	ALU	58369519	85	50	158.5	117	25	52	16.5	15	60	35	28
IMG 160	Fe	58369619	85	50	158.5	117	25	52	16.5	15	60	35	28

Application example





Applications / Customer Benefits

- Ideal for 5 axis machines
- Compact design
- Possibility to be mounted directly on machine tools with T slots
- Possibility to be mounted directly on single plate or DUO APS (pitch 200)

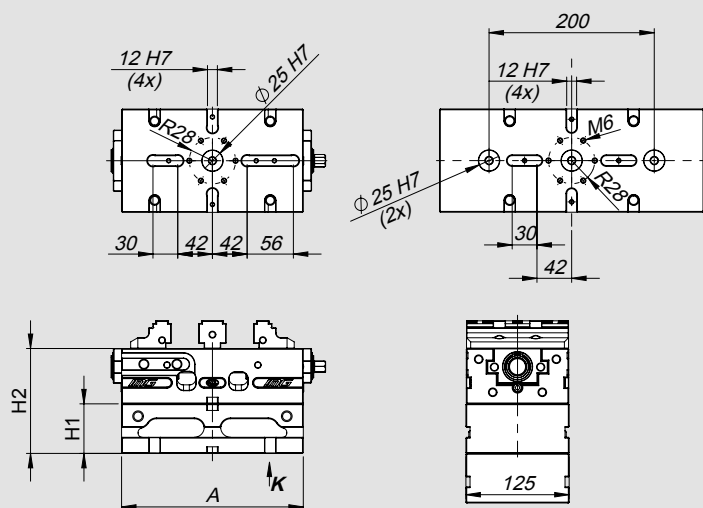
Technical features

- Material: steel

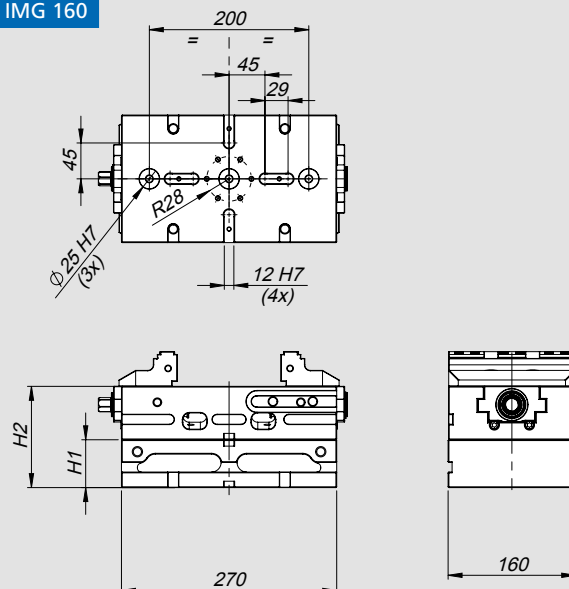
Standard equipment

On request: Positioning keys for IMG / APS pins / Positioning keys for machine tool

For IMG 125



For IMG 160



Type	Id. No.	H1	H2	A	Weight
For IMG 125	58352018	60	127	220	10 Kg
For IMG 125	58352028	100	147	220	15 Kg
For IMG 125	58352019	60	127	320	15 Kg
For IMG 125	58352029	100	147	320	21 Kg
For IMG 160	58362018	60	127	-	17 Kg
For IMG 160	58362028	100	167	-	25 Kg

Application example





Applications / Customer Benefits

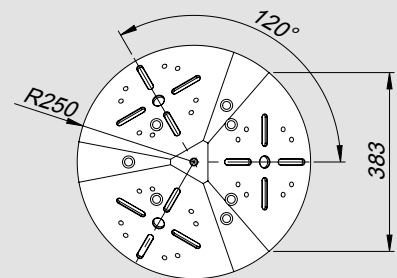
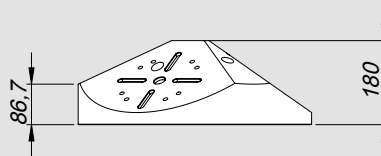
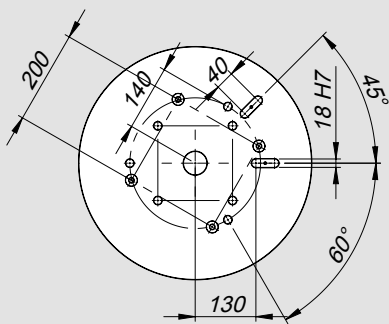
- Ideal for 5 axis machines
- Compact design
- Possibility to be mounted directly on machine tools with radial slots at 45 / 60 degrees
- Possibility to be mounted directly on single plate or DUO APS (pitch 200)

Technical features

- Material: ALU

Standard equipment

On request: Positioning keys for IMG / APS pins / Positioning keys for machine tool



Type	Id. No.	Weight
Alu Pyramid for IMG 125-220	58353210	55 Kg

Application example



Clamping pins APS 140



Tipo A
centering pin

Tipo B
reference pin

Application/customer benefits

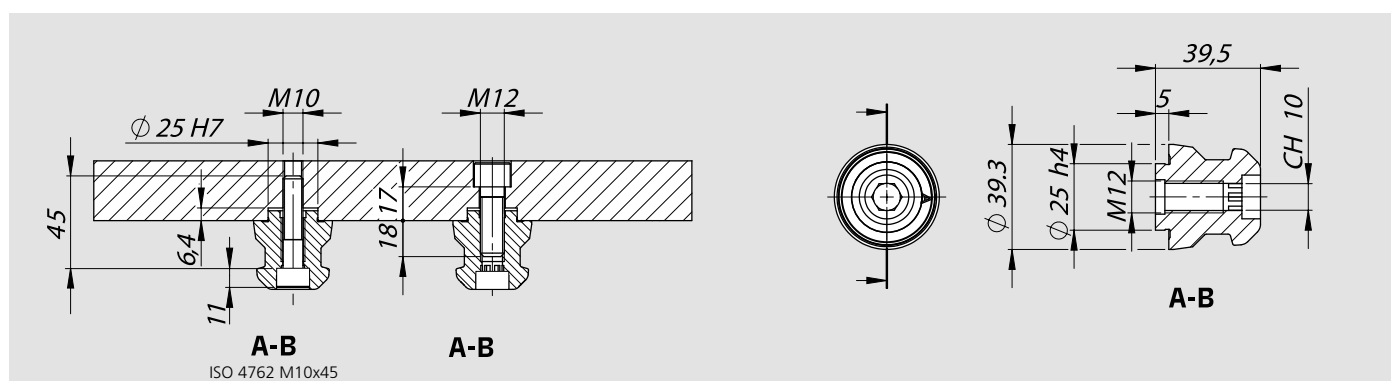
- Fixation and positioning on the clamping systems APS 140
- Wear-resistant due to an extra hard protective coating
- Large entry radii of the clamping pins for easy and safe loading

Technical features

- Centering pin Type A (Standard)
- Sword pin Type B (Positioning pin)

Standard equipment

Clamping pin with mounting screw M10x45



	Thread	Type A	Type B	Weight
Clamping pins APS 140	M12	46162355	46162356	0.3 Kg

Clamping pins APS 190



Application/customer benefits

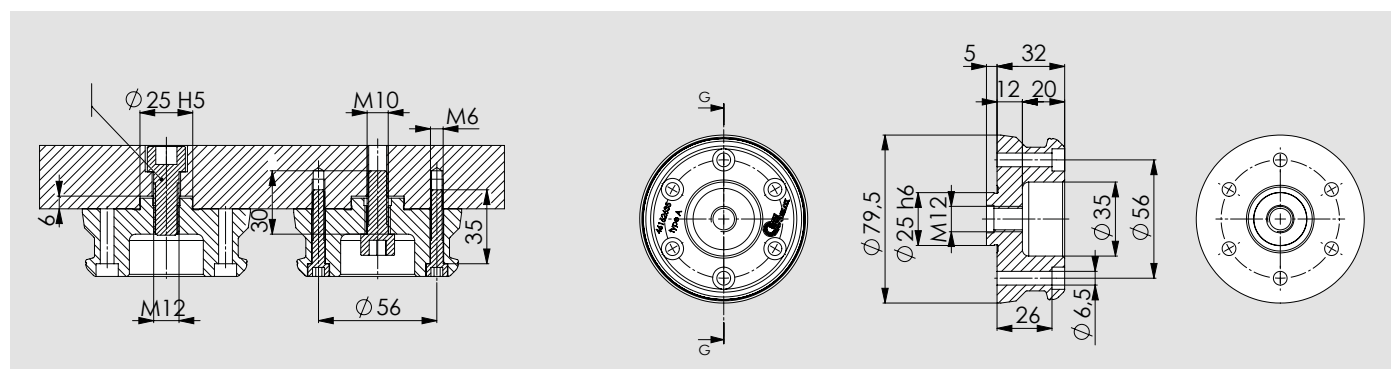
- Fixation and positioning on the clamping systems APS 190
- Large entry radii of the clamping pins for easy and safe loading

Technical features

- Centering pin Type A (Standard)

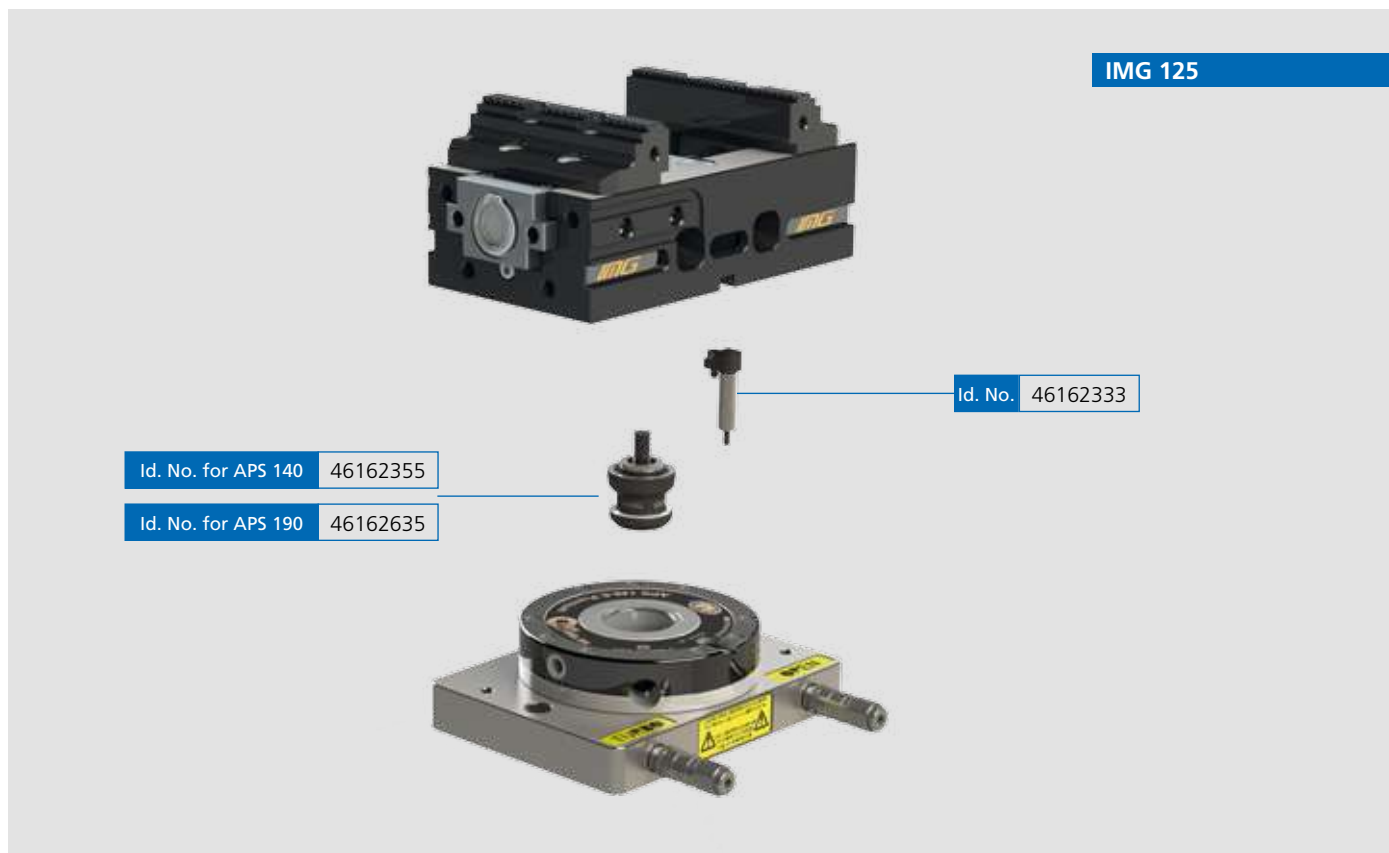
Standard equipment

Clamping pin with mounting screw M8x40 (6 pieces)

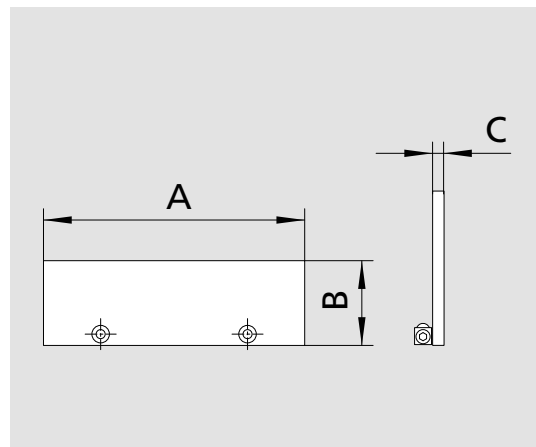
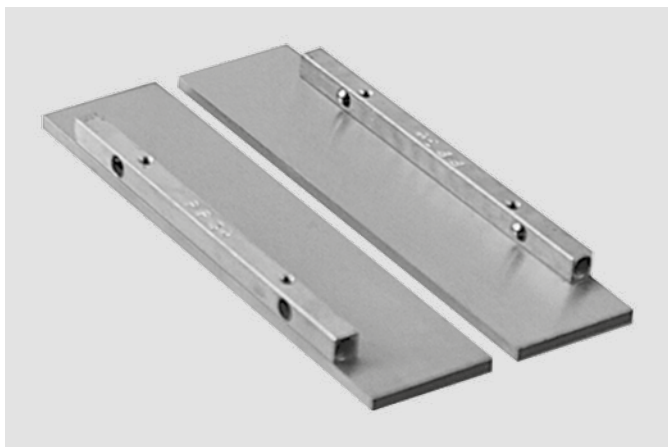


Id. No.	Type	Weight
46 16 26 35	A Ø 25 = at pin APS-140 M12	0,85Kg

Application examples

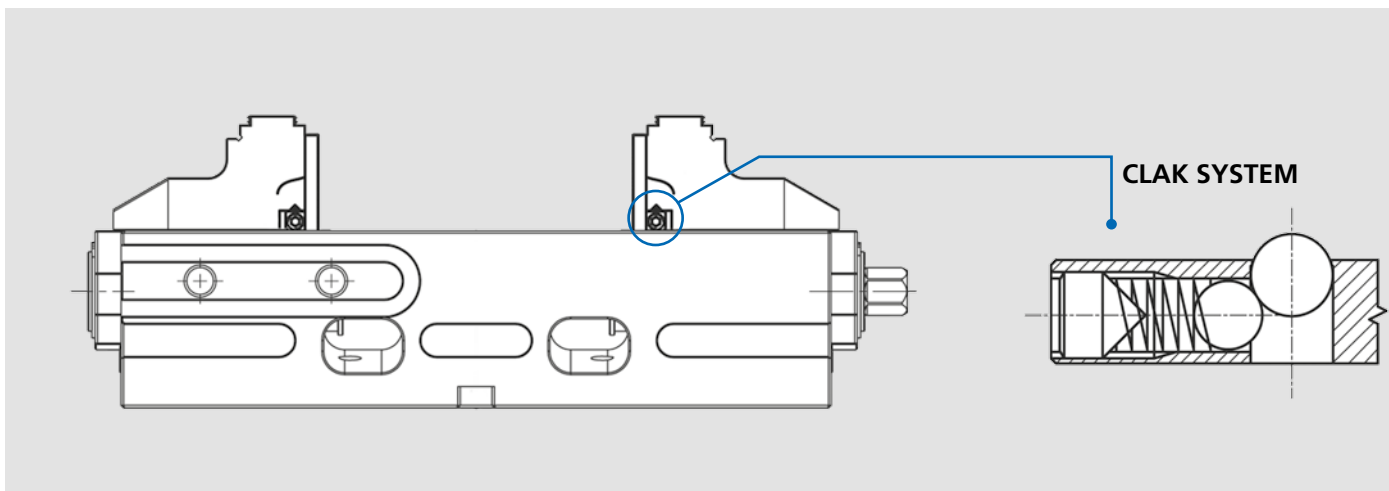


Quick change modular parallels



Type	Id. No.	B	A	C
For IMG 125	58455115	15	124	4
For IMG 125	58455120	20	124	4
For IMG 125	58455125	25	124	4
For IMG 160	58455315	15	159	4
For IMG 160	58455325	25	159	4
For IMG 160	58455335	35	159	4

Application example

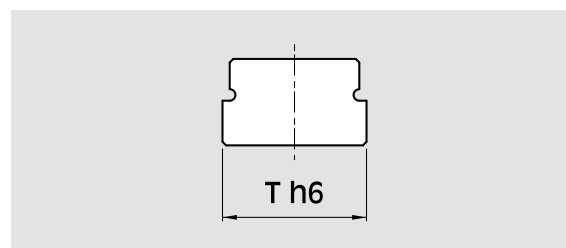
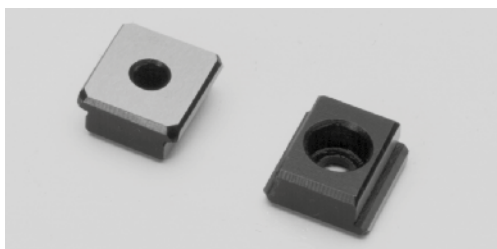


Key for APS for single use



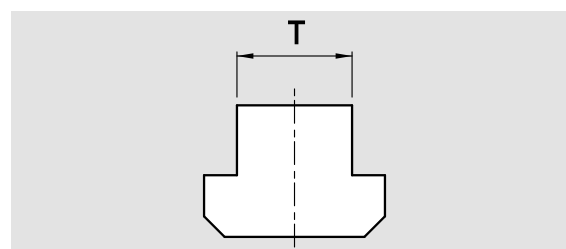
Type	Id. No.
APS 140 / 190	46162333

Pair of positioning keys for T Slot



	mm 12 - h6	mm 14 - h6	mm 16 - h6	mm 18 - h6	mm 20 - h6	mm 22 - h6
Id. No.	58351392	58351393	58351394	58351395	58351396	58351397

Pair of Clamps



	mm 12	mm 14	mm 16	mm 18	mm 20	mm 22
Id. No.	58022792	58022793	58022794	58022795	58022796	58022797

Torque Wrench



Type	Id. No.
IMG 125	51501021
IMG 160	51501022

Workstop



Type	Id. No.
Codice	58315020

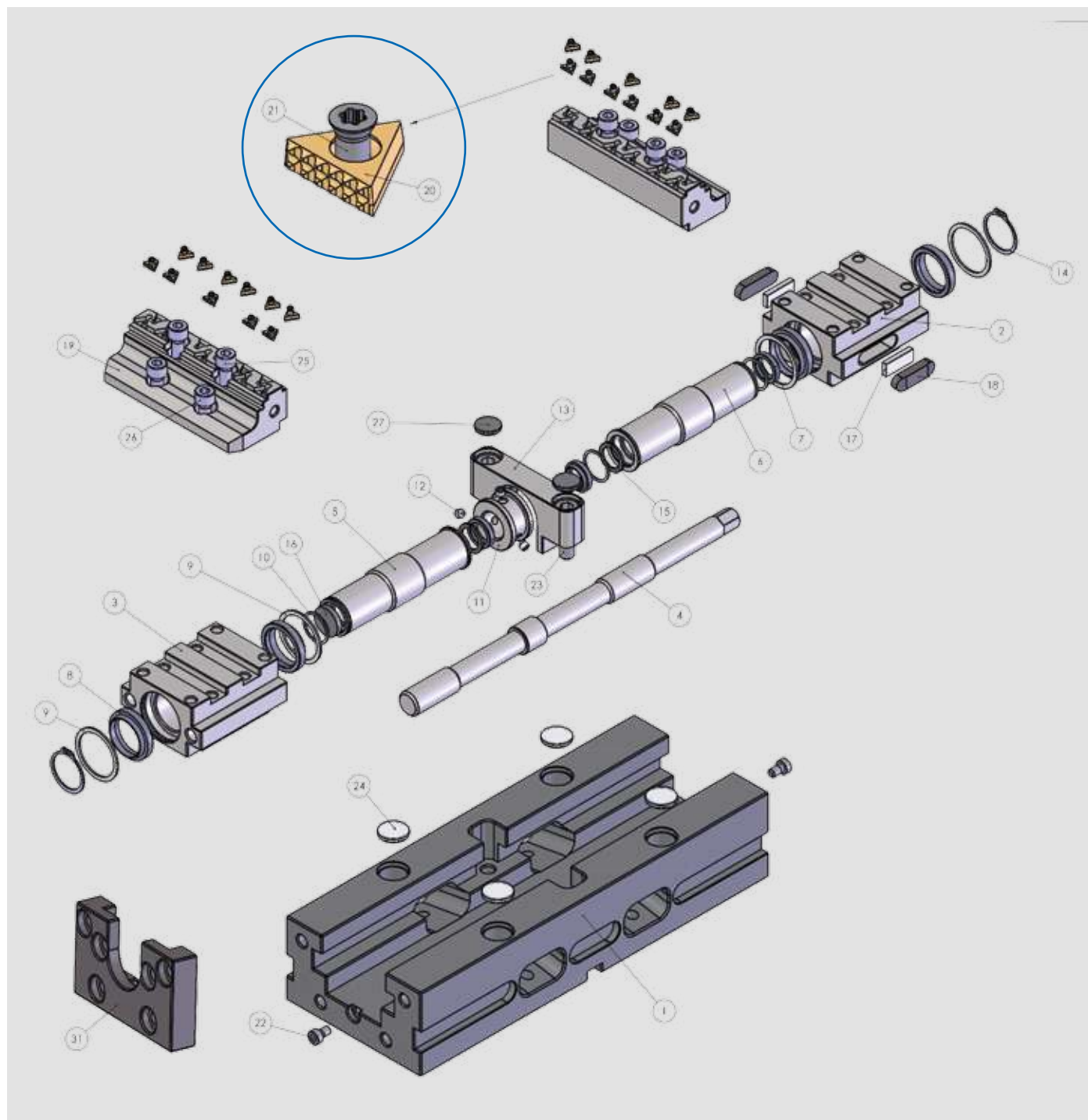
Pair of SINTERGRIP jaws

Type	Id. No.
IMG 125	58351219
IMG 160	58361219

Wrench

Type	Id. No.
IMG 125	58351910
IMG 160	58361910

Exploded



	Description
31	Retainer plate
30	Double clamping jaw
27	ALU plug for support
26	Screw TCEI
25	Screw TCEI
24	ALU plug for base
23	Screw TCEI
22	Screw TCEIBAS
21	SINTERGRIP screw
20	SINTERGRIP insert

	Description
19	SINTERGRIP jaw
18	Key
17	Rubber
16	Plug
15	Stop ring
14	Seeger ring
13	Upper support
12	Screw STEI
11	Screw stop
10	Snap ring

	Description
9	Snap ring
8	o-ring
7	o-ring
6	Right bushing
5	Left bushing
4	Operating screw
3	Right slide way
2	Left slide way
1	IMG base