



A COMPANY OF THE GROUP



COPY OF THE ORIGINAL

INSTRUCTION MANUAL

5 AXIS CLAMPING VICE



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INSTRUCTION MANUAL 5 Axis clamping vice



Thank you for purchasing an Original OML product.

This instruction manual contains the installation and maintenance of the E5 vice.

OML reserves the right to make changes without notice.

This instruction manual is a part of the work holding and must be passed to the new owner in case of sale.

This instruction manual may not be in whole or in part-copied without our written agreement.



Please read the instruction manual carefully before installation and use and always follow the regulations.

Please note especially the sections which are marked with the following signs:



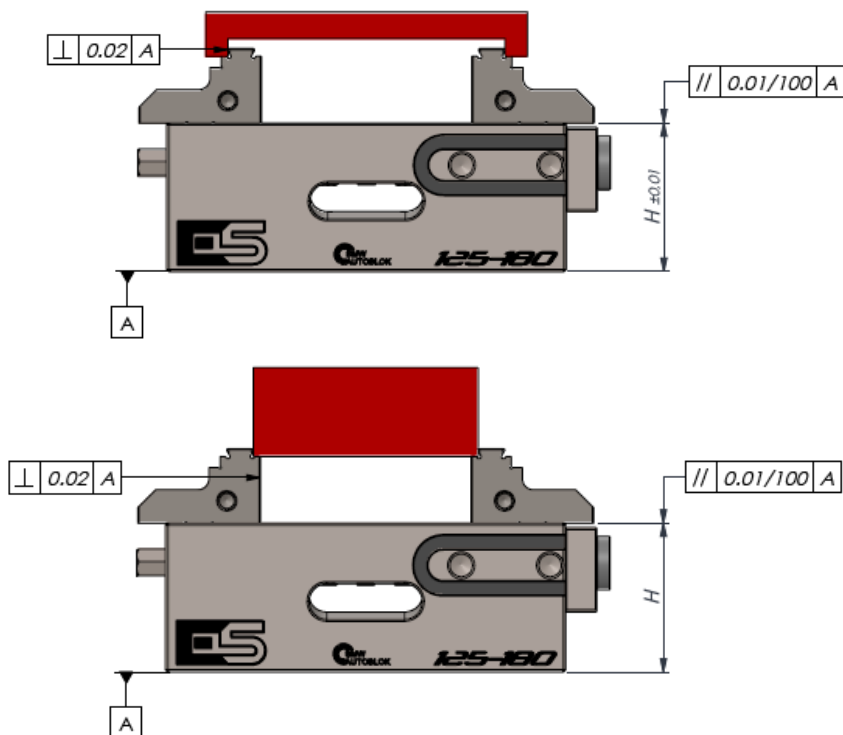
- Danger of injury or danger to life if instructions are not followed.
- Danger of damage to the work holding, the machine or the components.

General Safety Instructions



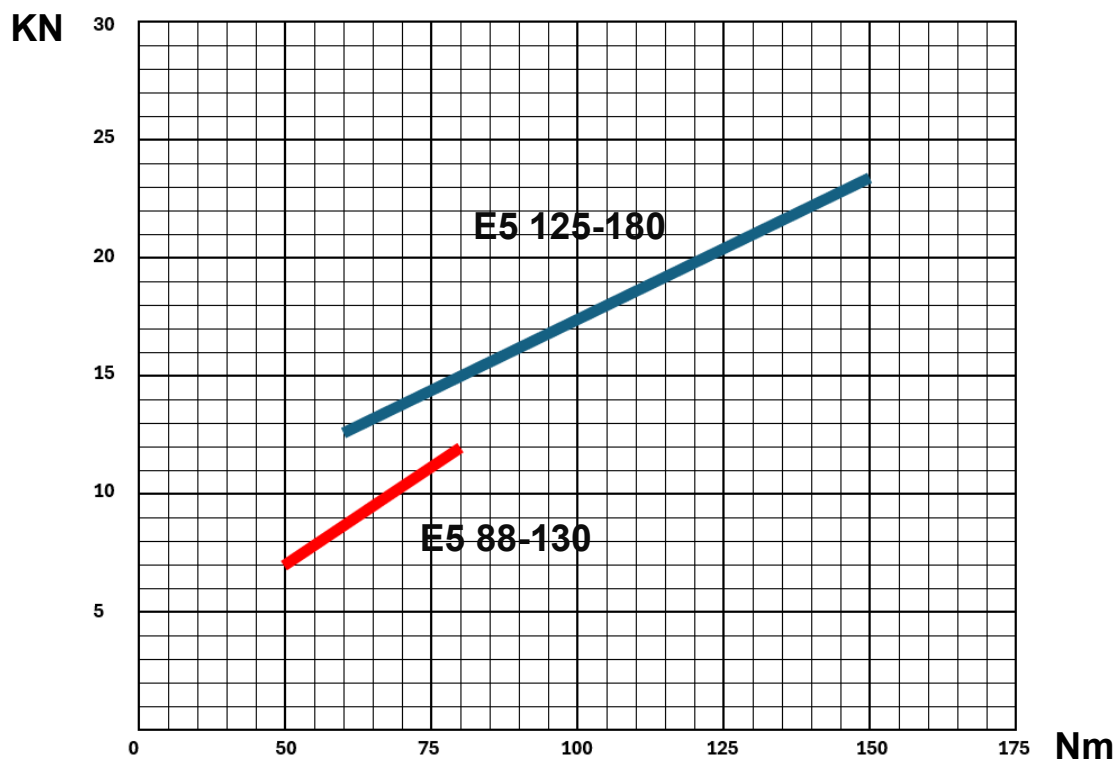
-
-  **1. Correct use**
OML clamping systems work safely and troublefree, if they are used according to their specification i.e. to clamp components on machine tools. Any other use can cause hazards. For any damages resulting herefrom OML is not responsible.
-  **2. Demands on operators**
This OML product must be installed, operated and maintained only by qualified and regularly trained personnel.
-  **3. Visual inspection**
Please check the product for visible damage prior to use!
-  **4. Transport**
Please use suitable lifting gear for product heavier than 16 kg!
-  **5. Safety Precautions**
- Maintenance and actuation must be carried out at stopped machine only.
 - Maintenance and set up work must be carried out in safe areas only.
 - During installing, connecting, adjusting, runoff and testing, it must be ensured, that no accidental actuation of the clamping unit can be carried out by the worker or any other persons.
-  **6. Max. speed**
The clamping unit is intended for stationary use only, and must not be used under rotation!
-  **7. Danger of injury**
-  
- Danger of injury because of missing accessories.
 - When actuating the clamping system there is increased crushing hazard due to the stroke of the moving components of the clamping system.
 - Never reach for the clamping system while the spindle of machine is rotating.
 - Prior to working at the clamping system, make sure, that the spindle of the machine cannot be started.
 - Work pieces that are clamped with too low clamping pressure, can be ejected!
 - Excessive clamping pressure can cause damage or breakage of the individual components of the clamping system. Work pieces can be released.
-  **8. Clamping force**
The clamping force of the clamping system can vary, depending on its condition (lubrication and contamination). The clamping forces have to be verified in regular intervals. Use suitable static grip force gauges.
-  **9. Maintenance**
The stationary clamping system has to be maintained in regular intervals. Check the condition by measuring the grip force with a grip force gauge. Maintenance must be carried out at stopped machine only.
Replace damaged parts with original OML spare parts only.
Maintenance must be carried out at stopped machine only! Insufficient and improper maintenance voids any warranty from OML.
-  **10. Environment protection**
Danger for environment when handling incorrect! Incorrect handling of environment hazardous materials, especially the disposal, may result in environmental damage.
- Always follow below instructions.
 - In case environmentally hazardous material polluted the environment always take suitable actions immediately. If in doubt, inform the local authority about the pollution.
- The following hazardous materials are used: Lubricants such as oil and grease can contain poisonous agents. They must not pollute the environment. The disposal must be carried out by a suitable waste management company.
For a proper function of the work holding, use original OML lubricant only.
-  **For any problems or questions please contact OML directly or one of our authorized offices.**
-  **ALL REGULATIONS ACCORDING TO THE PREVIOUS POINTS MUST BE OBSERVED. THE USE ON MACHINE TOOLS HOWEVER, ALWAYS CAUSES SOME RESIDUAL RISKS, THAT HAVE TO BE ELIMINATED BY THE USER BY SUITABLE SAFETY ACTIONS.**

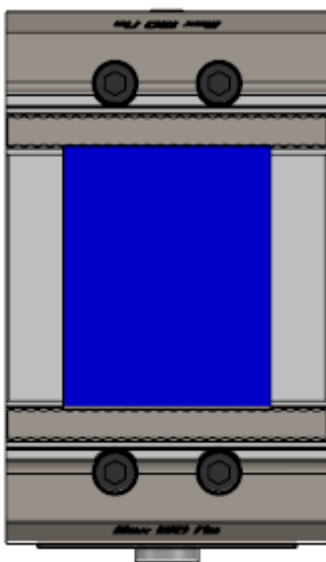
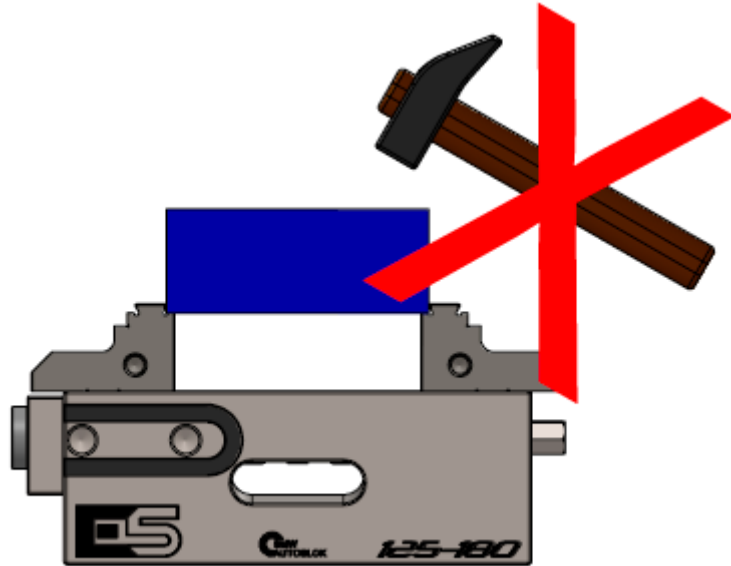
Clamping tolerances



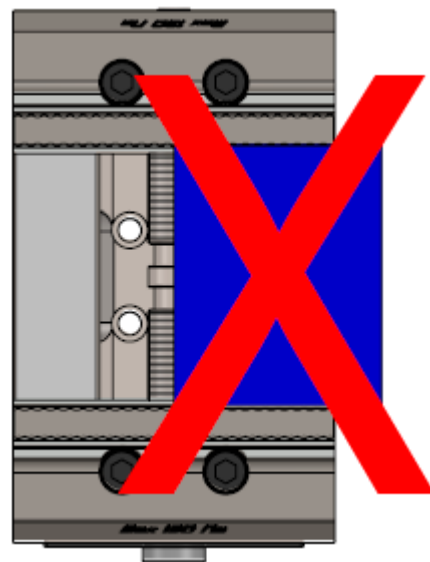
Clamping repeatability +/- 0,01

Clamping force





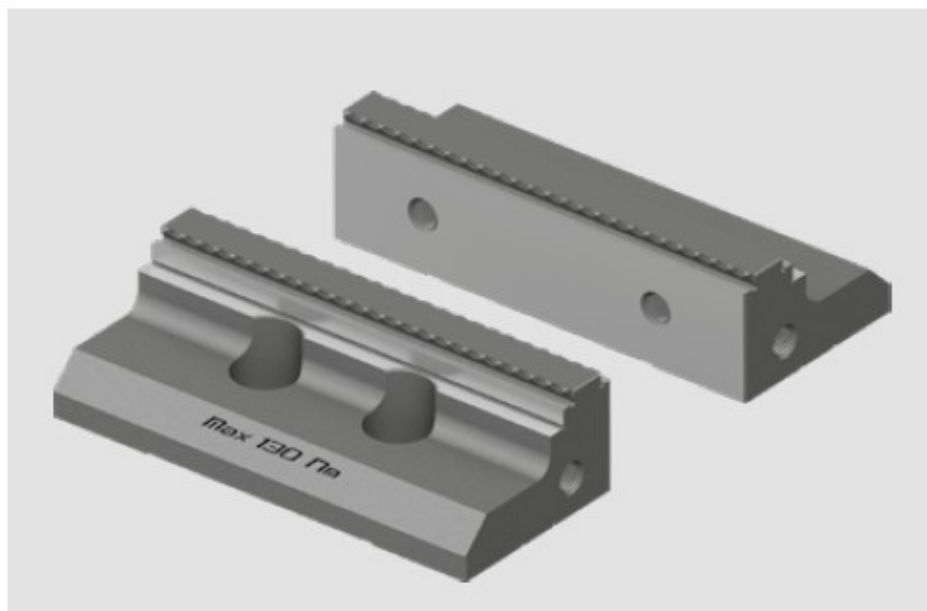
YES



NO

Basic Jaws E5 88 - E5 125

Basic jaws suitable for clamping materials up to 30 HRC

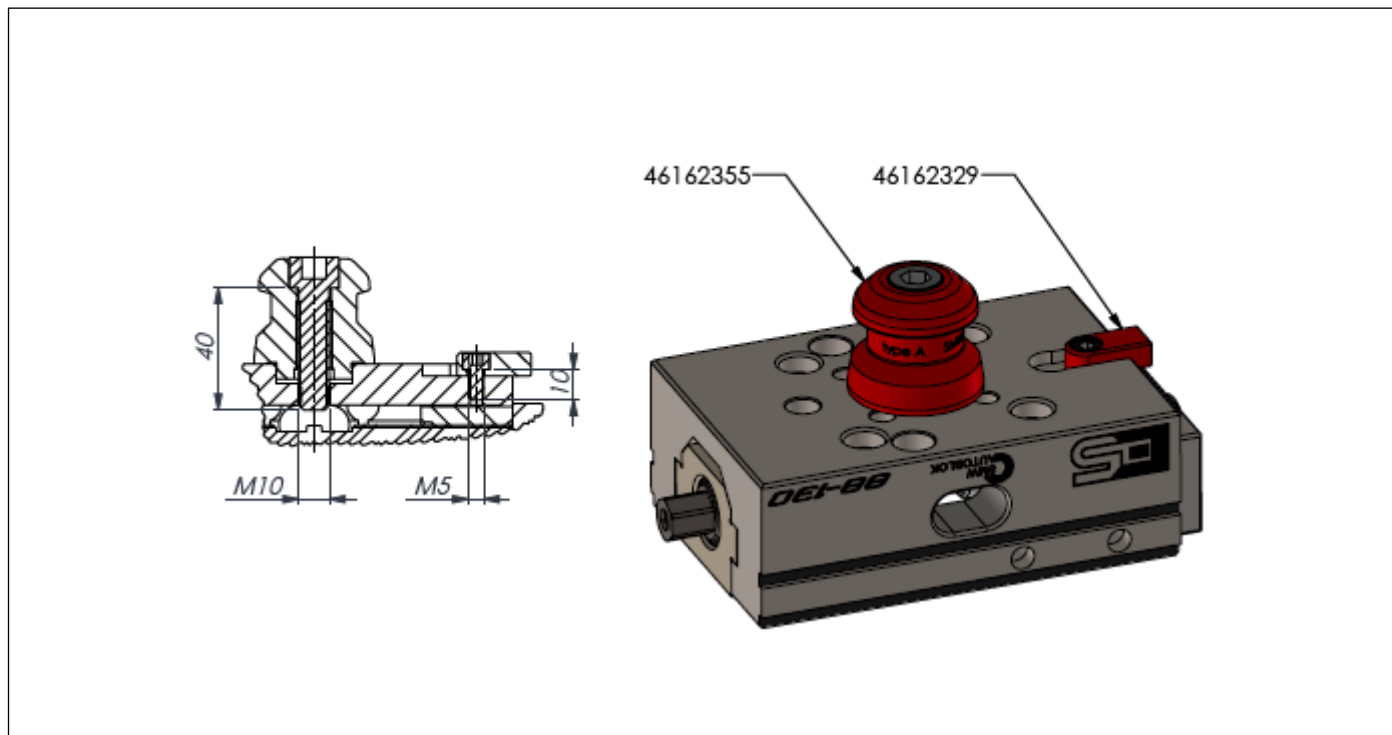


Type	Id. No.
E5 88 - 130	58335259
E5 88 - 130 H1	58335269
E5 125 - 180	58336259
E5 125 - 180 H1	58336269



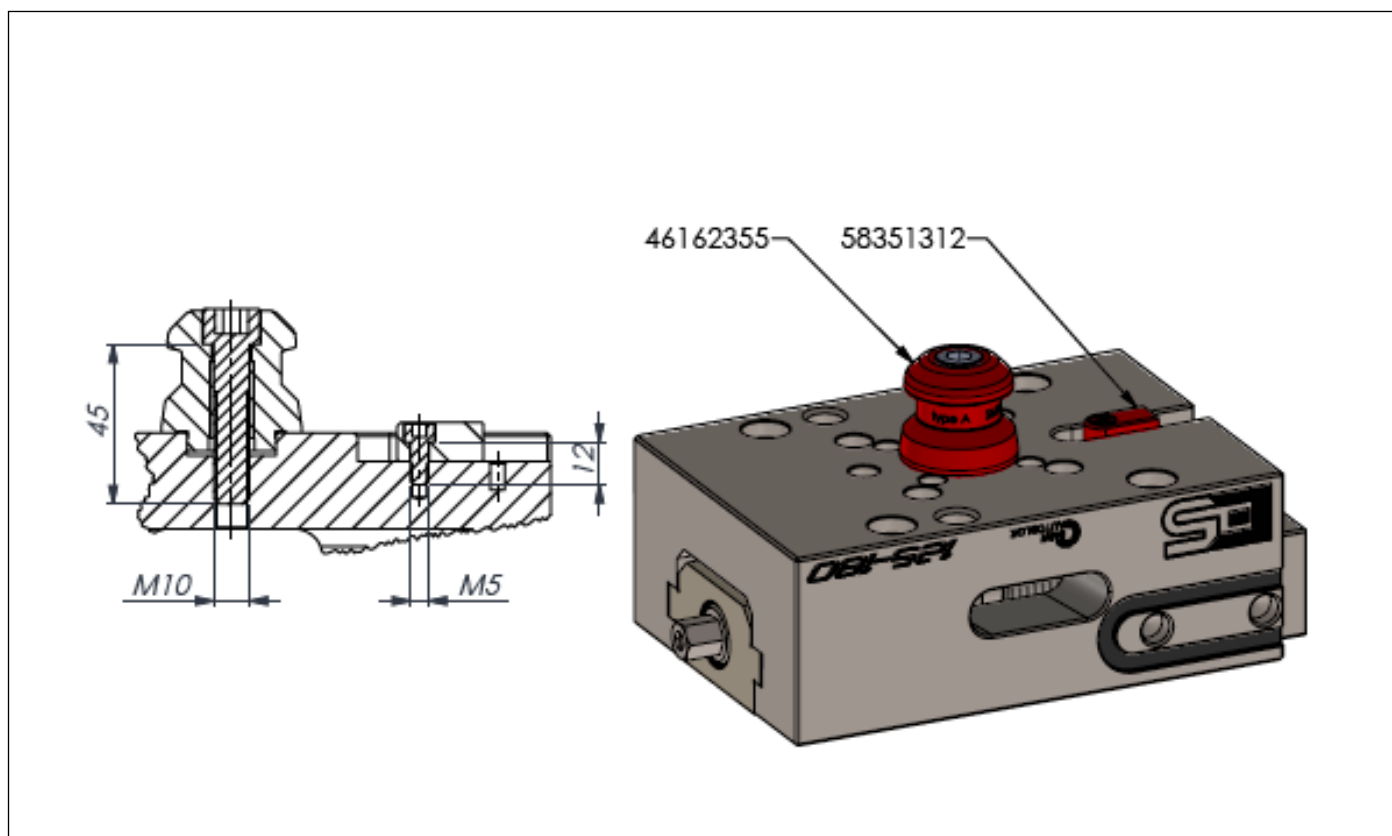
E5 88-130 with APS 140

APS 140 fixing pin kit and key for single use



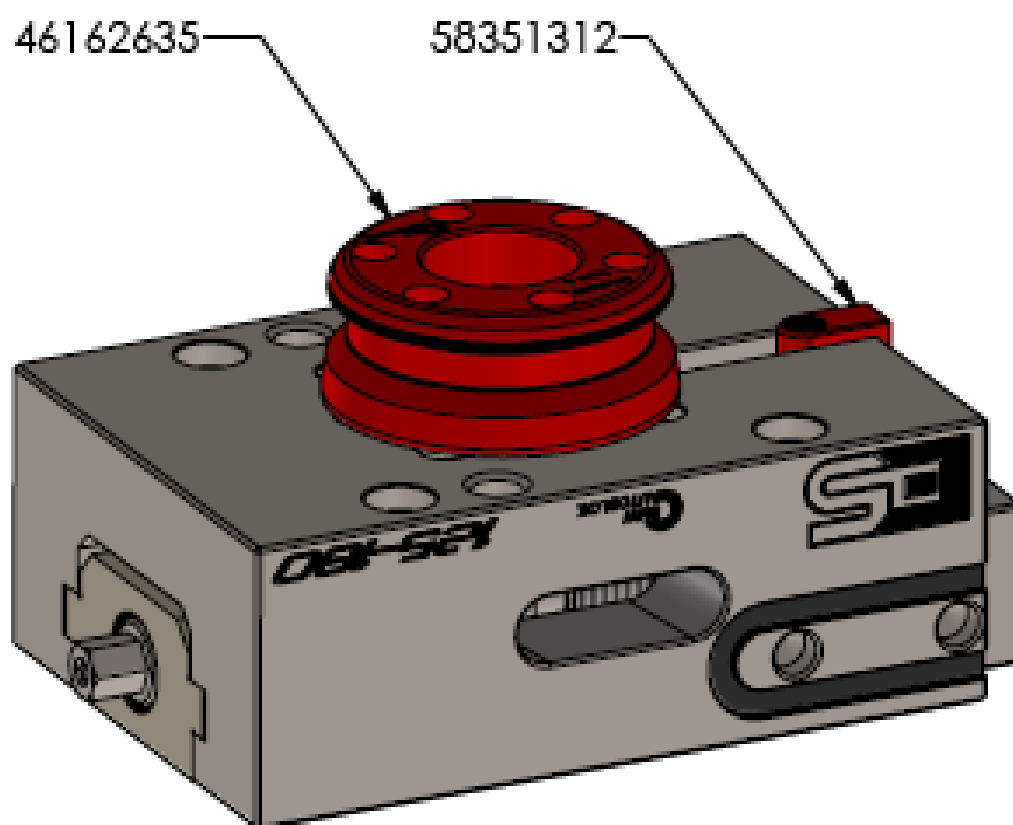
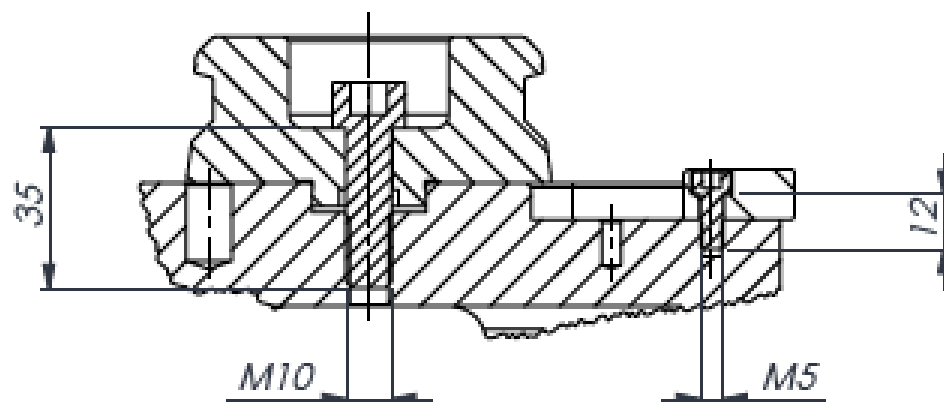
E5 125-180 with APS 140

APS 140 fixing pin kit and key for single use



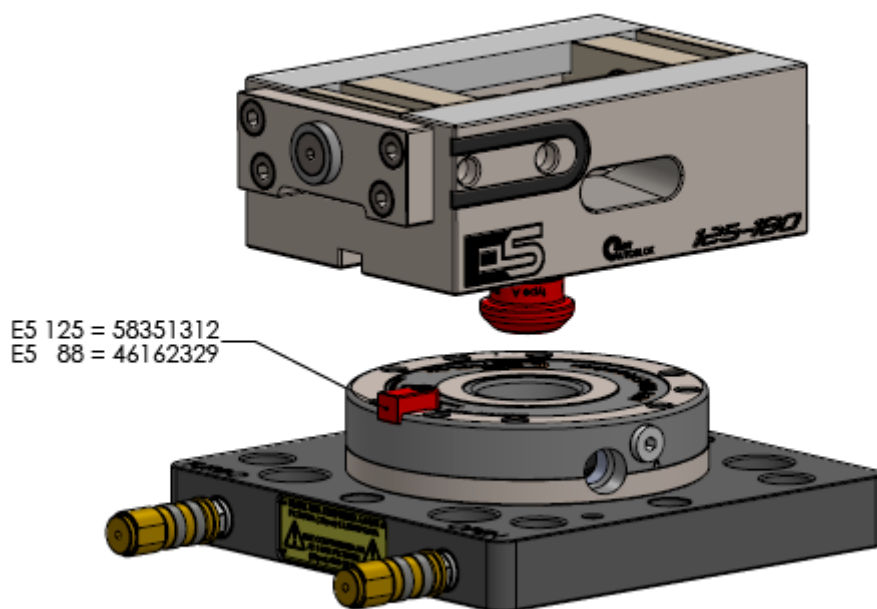
E5 125-180 with APS 190

APS 190 fixing pin kit and key for single use



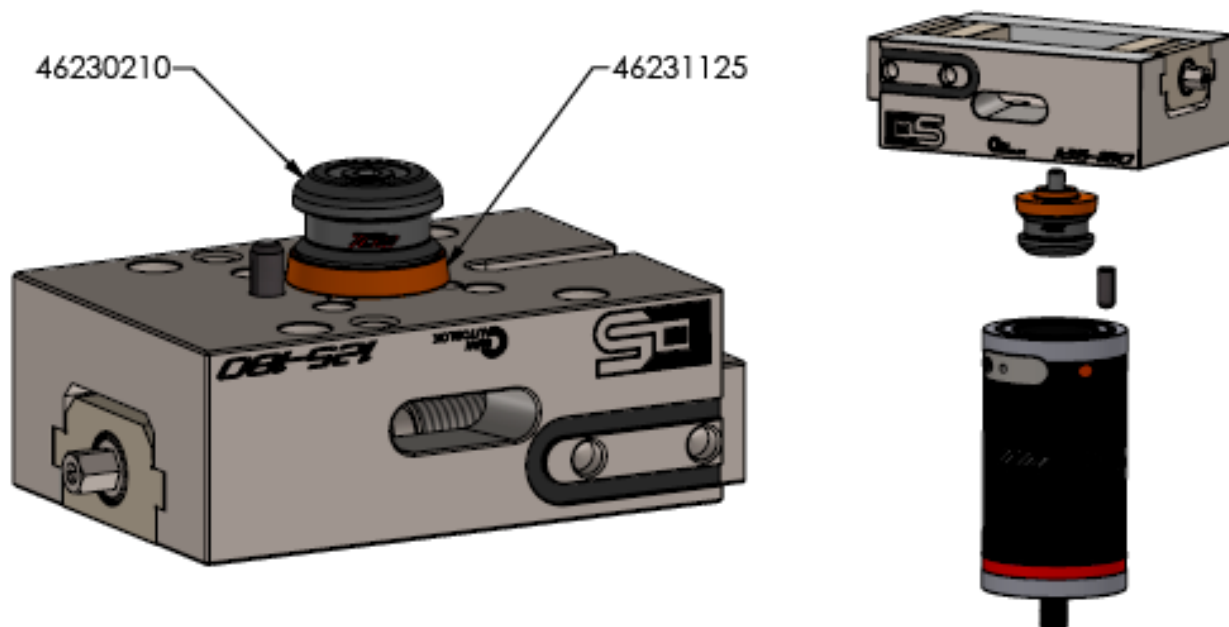
E5 88-130 - E5 125-180 with APS 140

Application examples



E5 88-130 - E5 125-180 with TDM

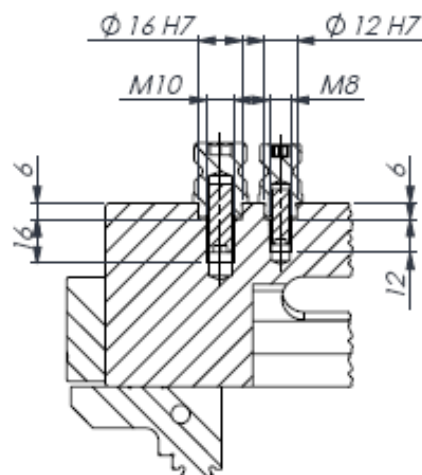
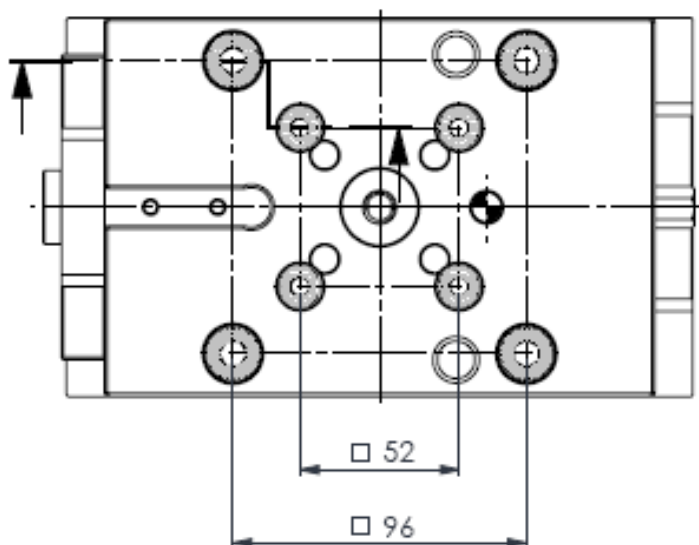
TDM pin fixing kit and key for single use



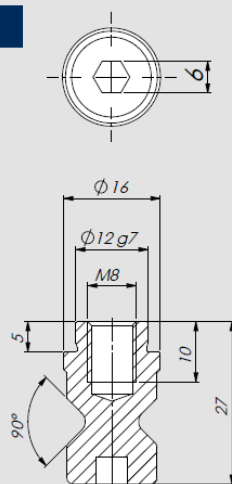
Use on PLUS 5 zero point system

E5 88-130 = PLUS 5, 52 mm (*)

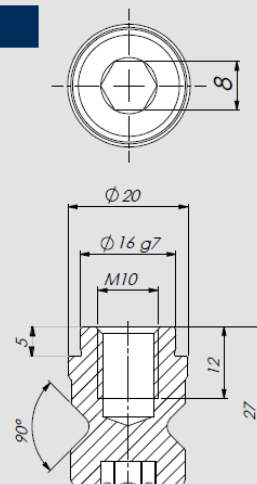
E5 125-180 = PLUS 5, 52 - 96 mm (*)



52

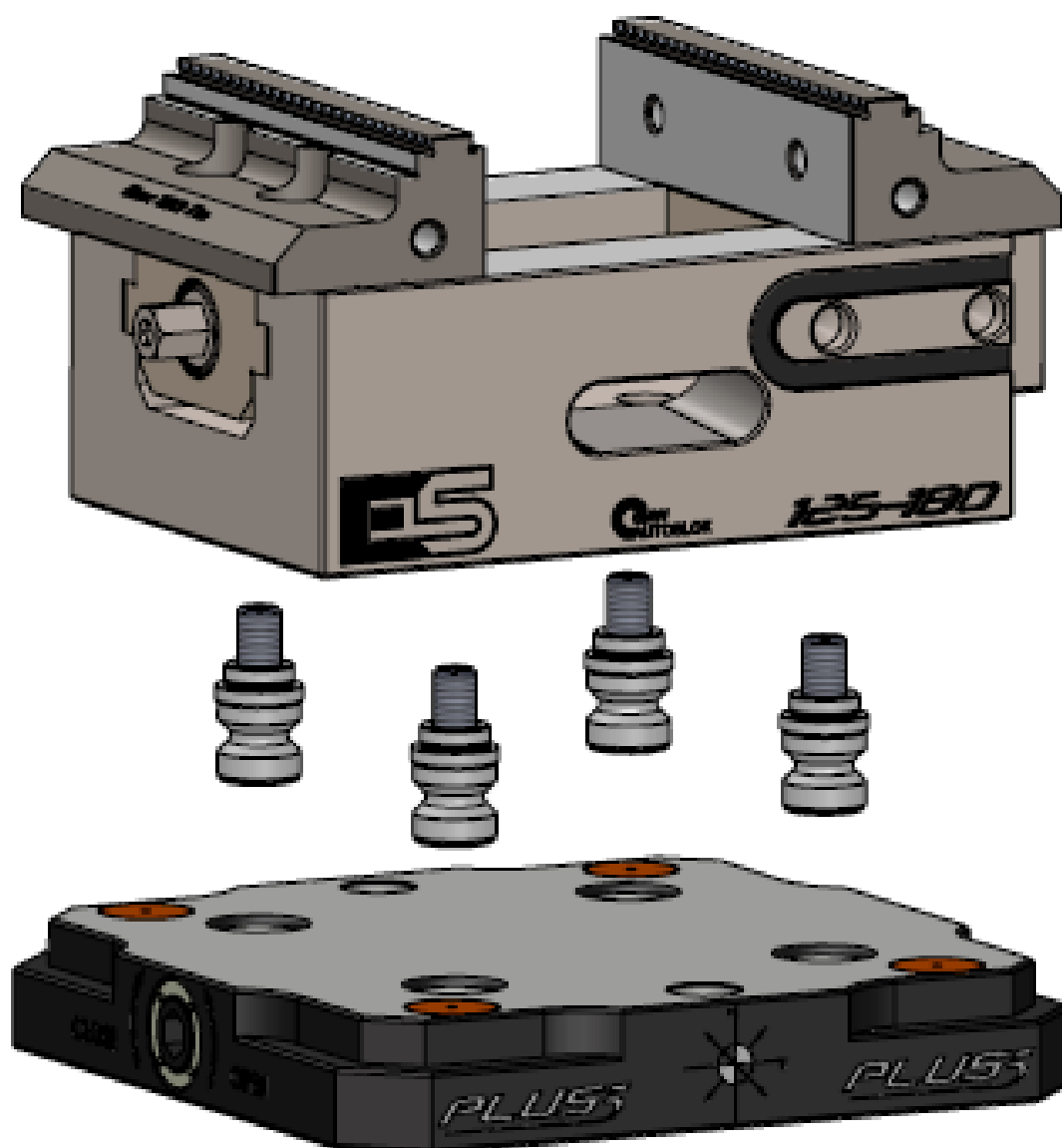


96

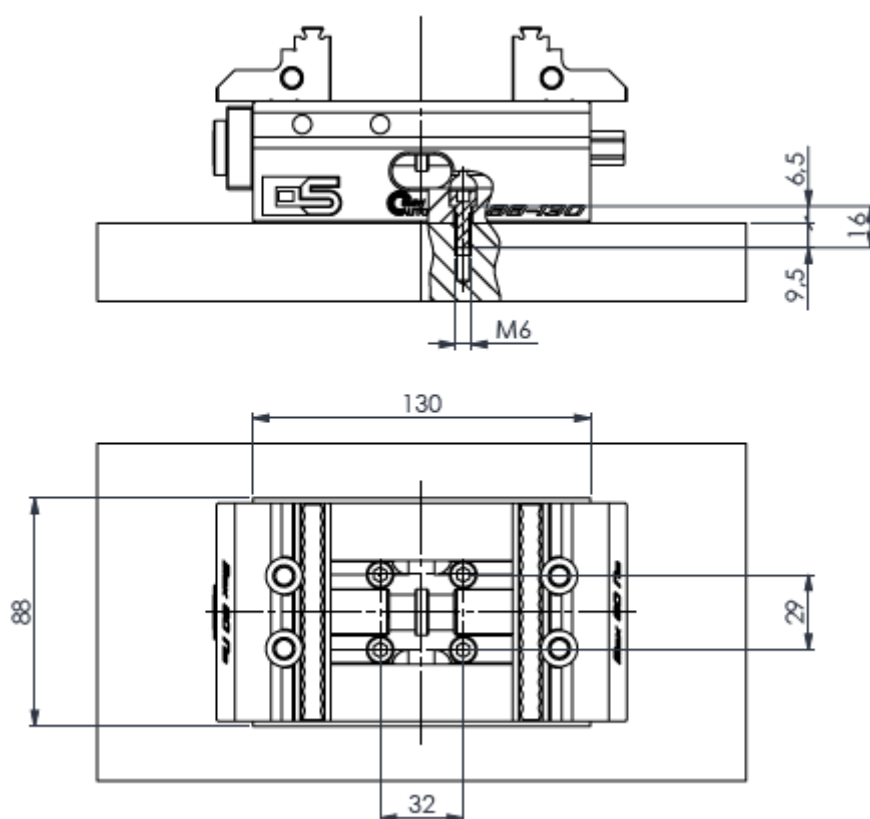
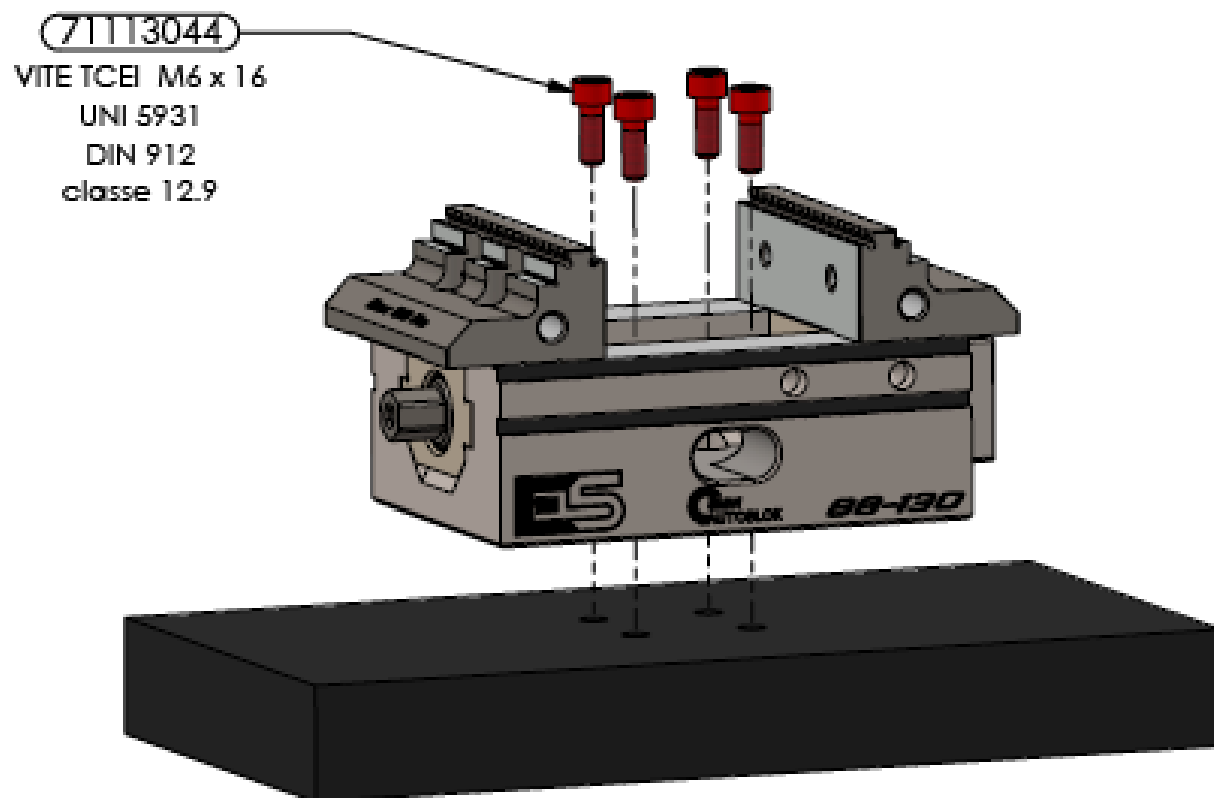


(*) Compatibility with others 52 / 96 systems in the market

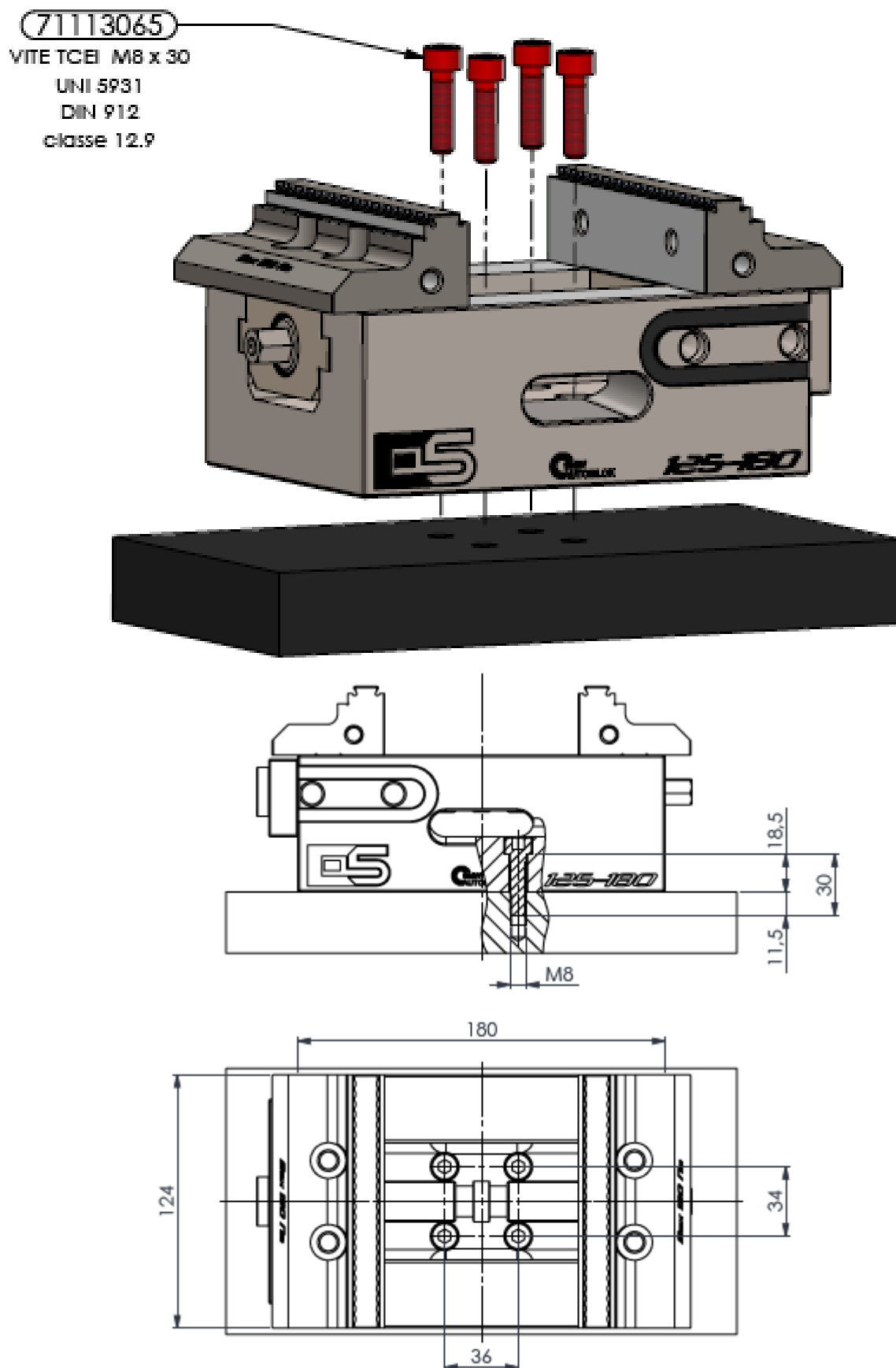
Application examples



Assembly diagram E5 88-130

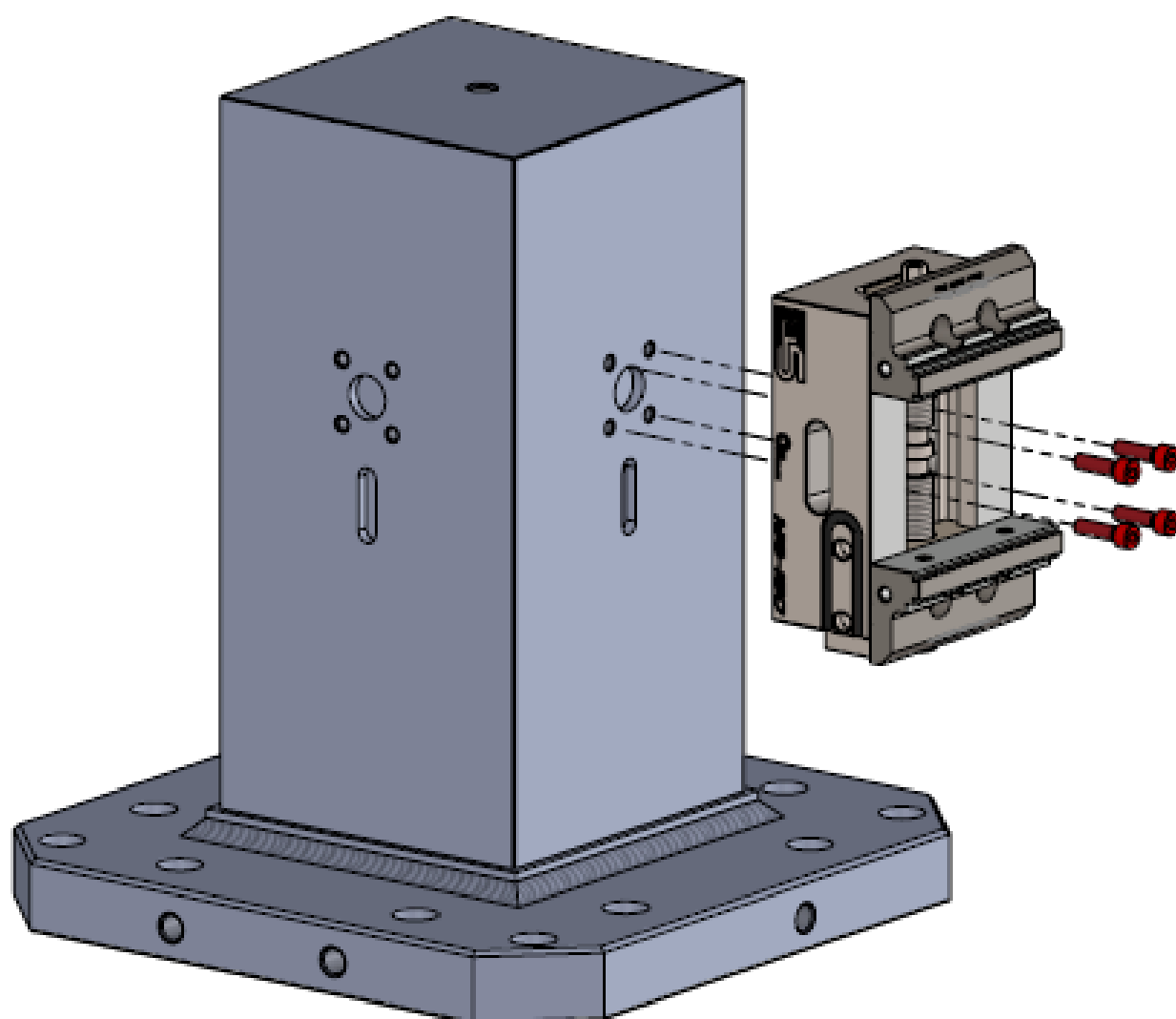


Assembly diagram E5 125-180



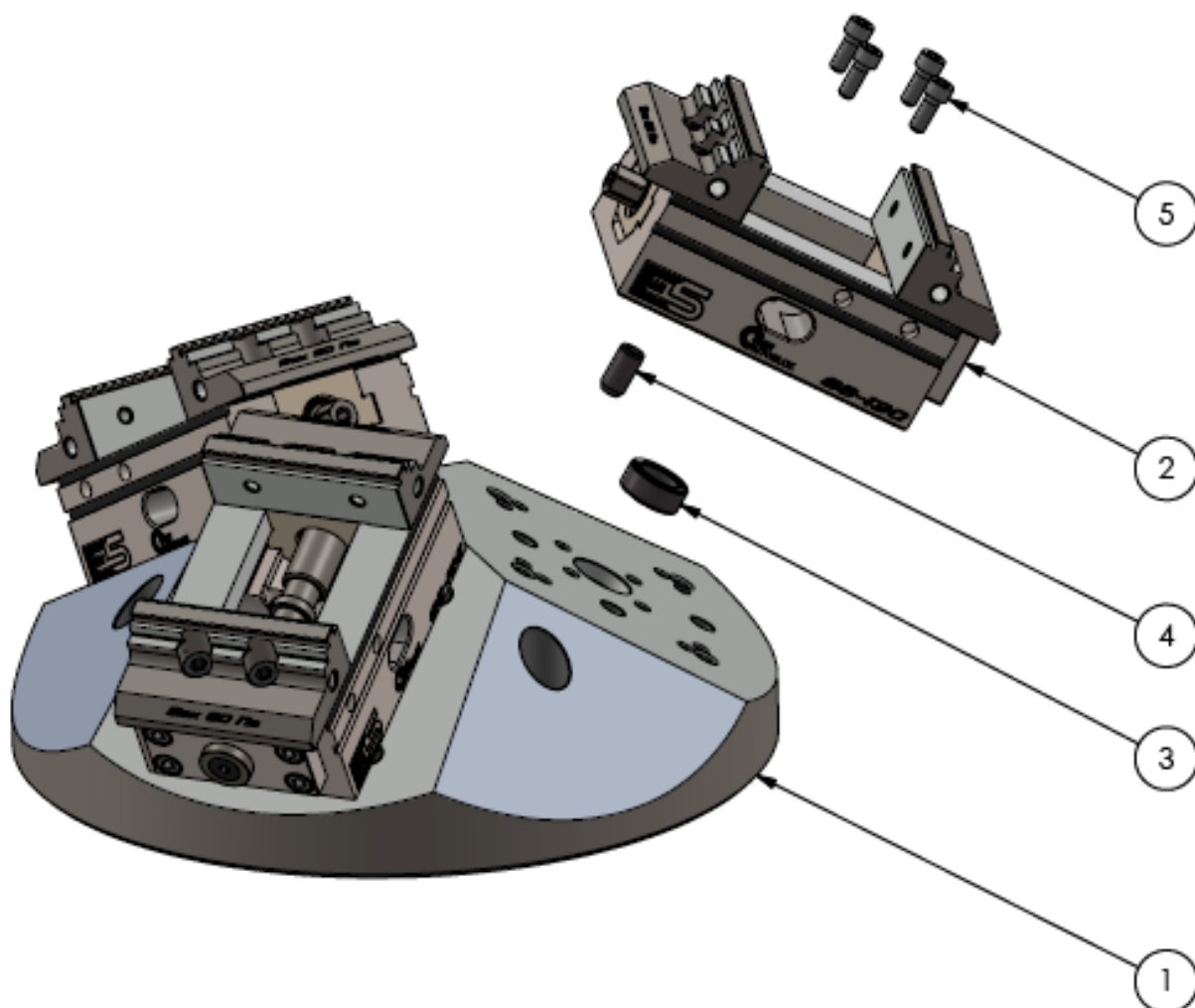
Direct mounting on plate or tombstone E5 125-180

Example of tombstone mounting



Direct mounting on pyramid

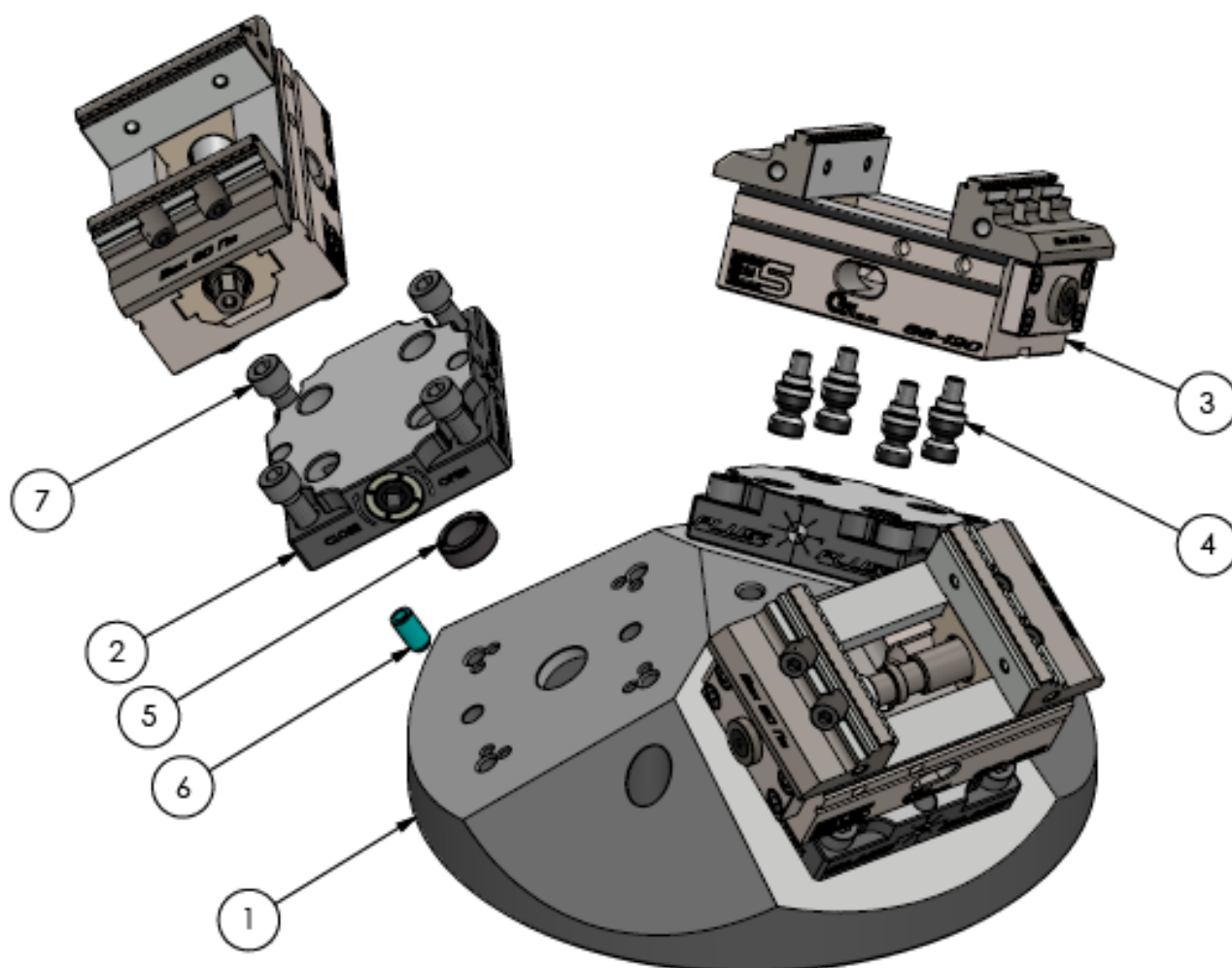
Pyramid + E5 88-130 Vertical position



Position	id.	Description	Quantity
1	58343211	TRIANGULAR PYRAMID Ø300 H100	1
2	77583352	E5 88-130	3
3	46230925	CENTRING BUSH Ø25 h6	3
4	71290817	CILIND PIN 10h6X20 FIL DIN 7979	3
5	71113044	SCREW TCEI M6 x 16 UNI 5931 12.9	12

Direct mounting on pyramid

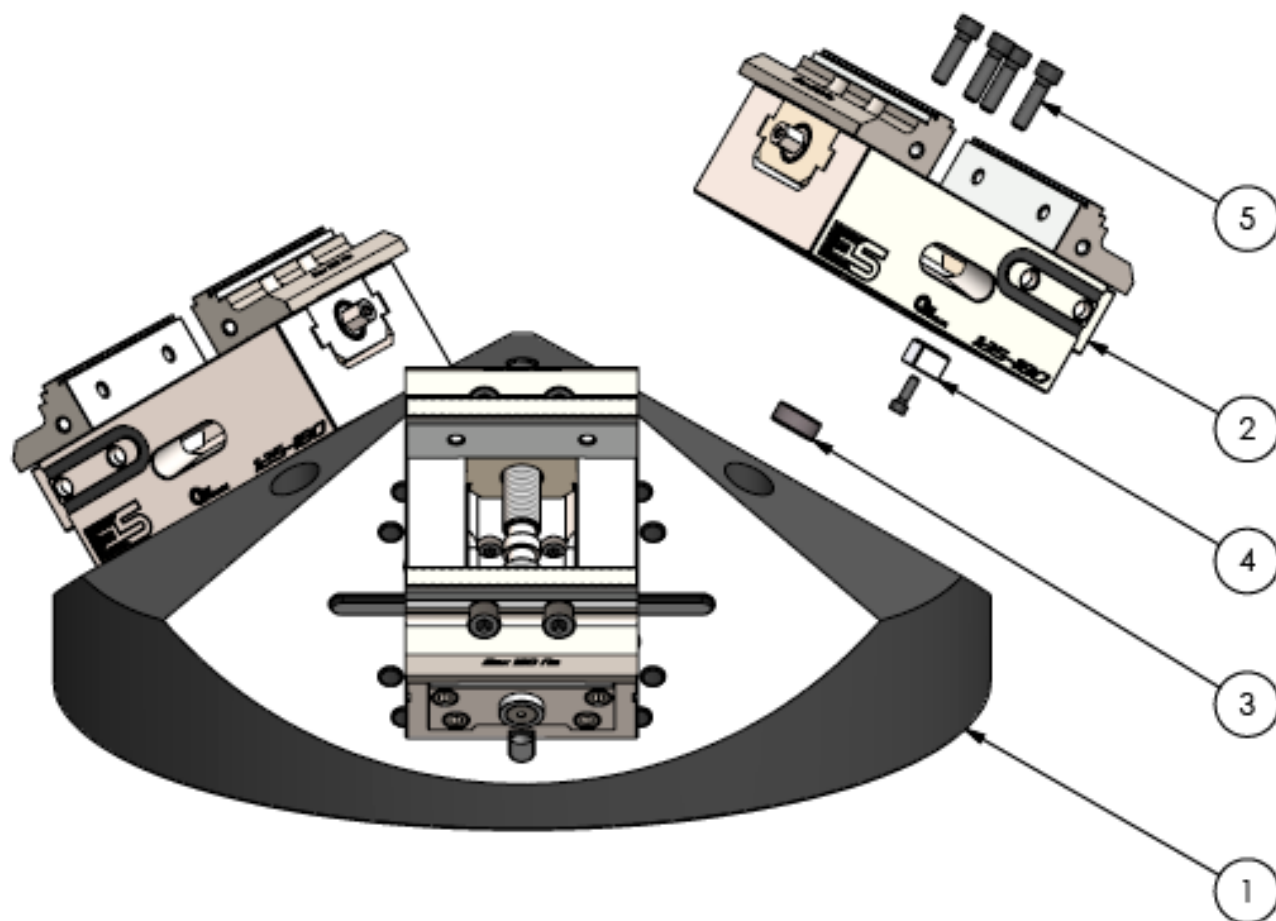
Pyramid + Plus 5 - 52 + E5 88-130



Position	i.d.	Description	Quantity
1	58343211	TRIANGULAR PYRAMID Ø300 H100	1
2	46240101	PLUS 5 -52-	3
3	77583303	V5 88 - 130	3
4	46240214	SET NOS 4 PINS PLUS 5 -52-	3
5	46230925	CENTRING BUSH Ø25 h6	3
6	71200615	CILIND PIN 10 h6 x 20 FIL DIN7979	3
7	71113085	SCREW TCEI M10x35 UNI5931 12.9	12

Direct mounting on pyramid

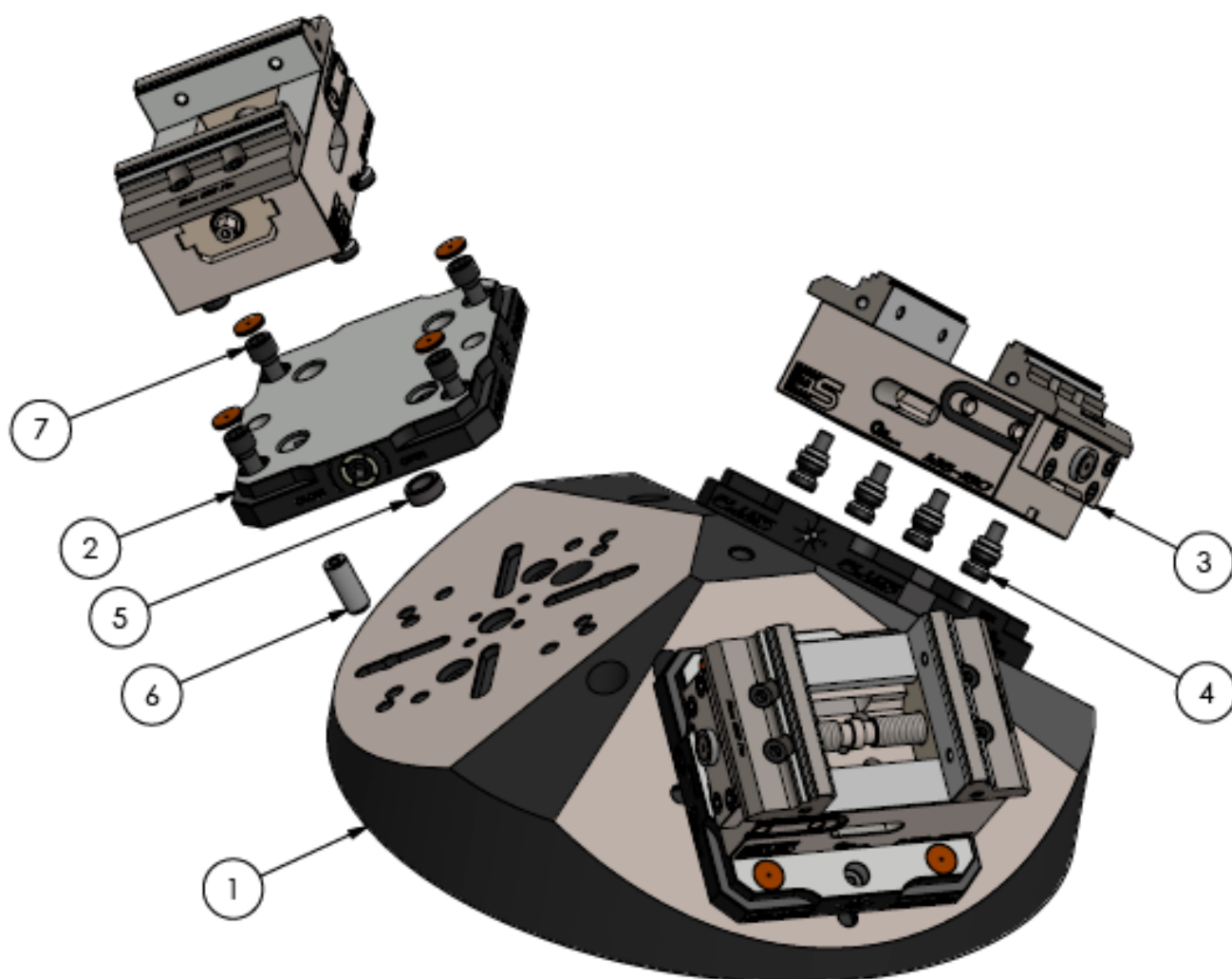
Pyramid + E5 125-180 Vertical position



Position	id.	Description	Quantity
1	58353211	TRIANGULAR PYRAMID Ø500 H 180	1
2	77583362	E5 125-180	3
3	46230925	CENTRING BUSH Ø25 h6	3
4	58351392	POSITIONING KEY 12 h7	3
5	71113065	SCREW TCEI M8x30 UNI5931 12,9	12

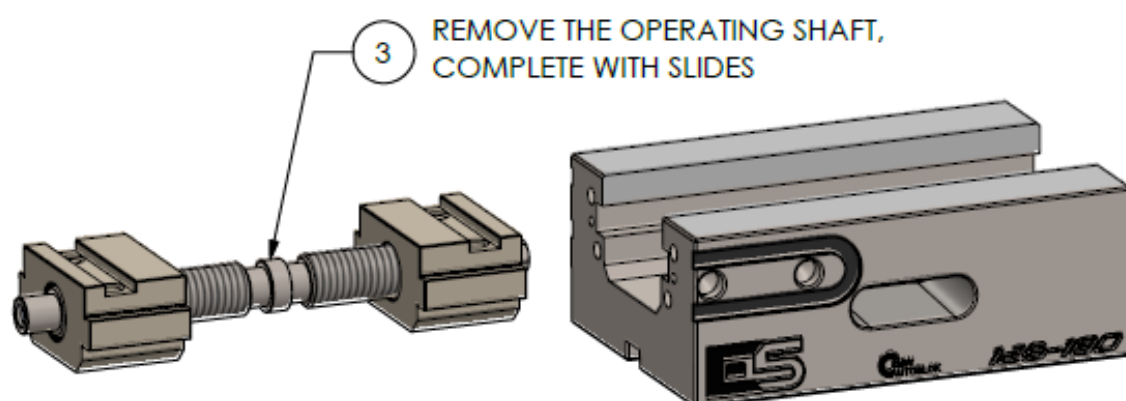
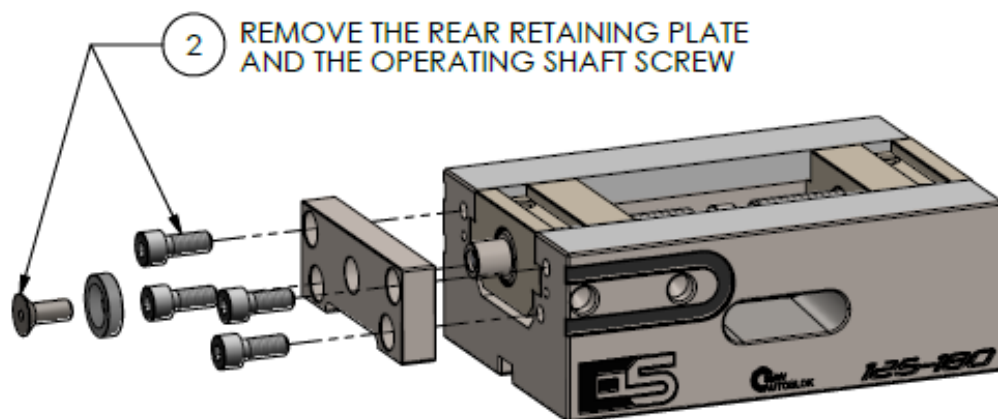
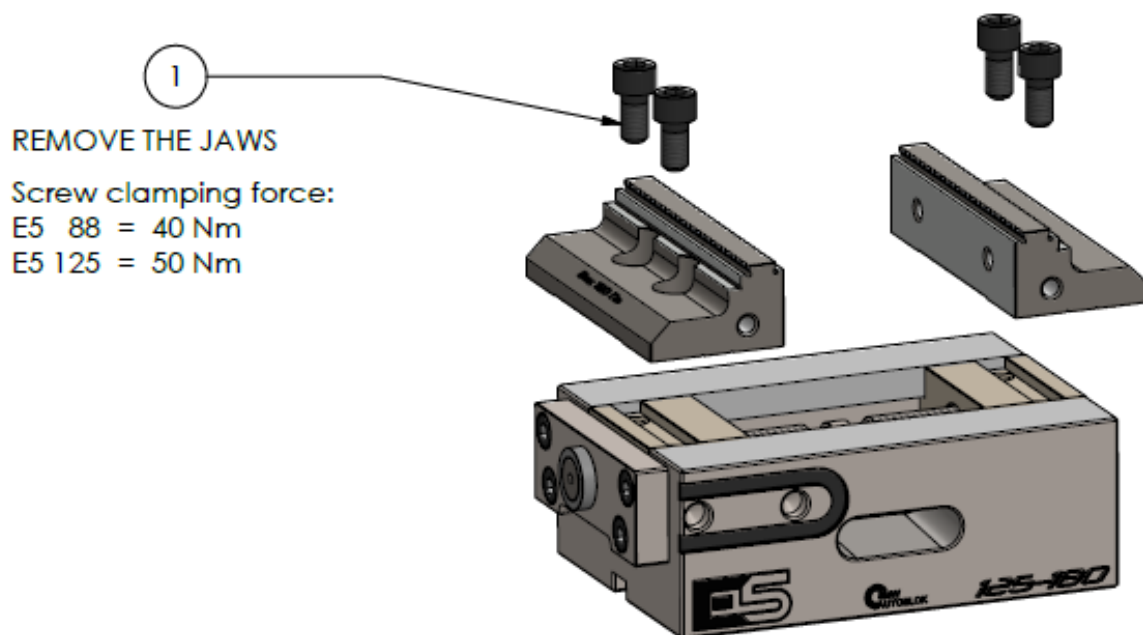
Direct mounting on pyramid

Pyramid + PLUS 5-96 + E5 125-180



Postion	id.	Description	Quantity
1	58353211	TRIANGULAR PYRAMID Ø500 H 180	1
2	46240102	PLUS 5 -96-	3
3	77583362	E5 125-180	3
4	46240224	SET OF NOS 4 PINS PLUS 5 - 96	3
5	46230925	CENTRING BUSH Ø25 h6	3
6	71290336	CILIND PIN 16h6x40 FIL DIN 7979	3
7	71113105	SCREW TCEI M12x35 UNI5931 12,9	12

E5 88-130 - E5 125-180



[illegible]



SINTERGRIP



APS



PLUS 5



TDM



FMS



TC



MC



CLAK SYSTEM



IMG



V5



E5



GENIUS



CIVI SINTERGRIP



CAM SYSTEM



HOLDING CLAMPS



VARI CLAMP



TWIN VISE



JAWS



FAST CLAMPS



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