

GENIUS & SinterGrip 5.3

Precision vise for 5 axis machine tools



GENIUS & SinterGrip

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GENIUS Accessories

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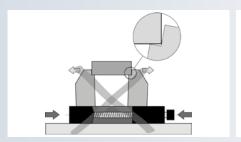
GENIUS Spare parts

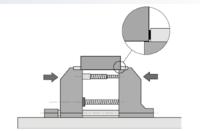
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"GENIUS" & SinterGrip

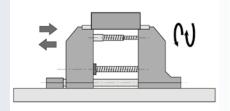
MAIN FEATURES

The clamping force (up to 40 kN) is generated right where it is needed: at the part.

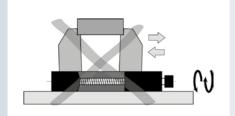


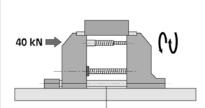


Thanks to its own expanding screw, GENIUS can clamp workpieces up to 200 mm with just one set-up.

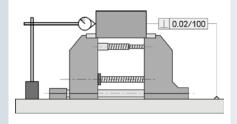


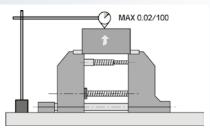
Unlike traditional vises, GENIUS clamps the workpieces by means of traction clamping.





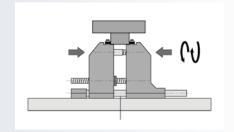
GENIUS is the first vise designed for 5 axis-machine tools that can be used for high precision milling operations.





The movement of the jaws is not on a base, but on hardened and ground shafts.

This allows for quicker and more accurate positioning of both the same axis with the centre of the machine tool pallet.





Sinte Grip

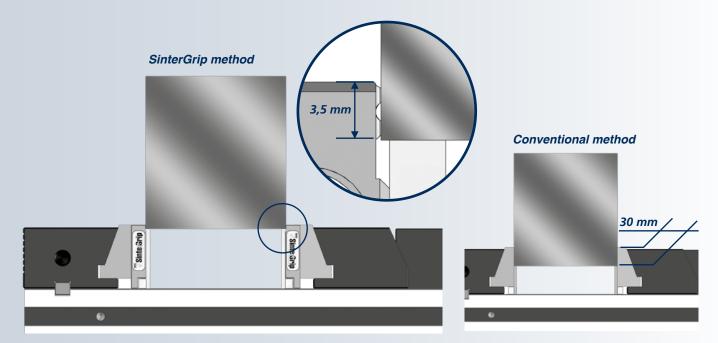
Our new patented product **SinterGrip** is born to satisfy the current need to clamp a workpiece for very few millimeters (with SinterGrip 3,5 mm clamping surface), and this for the following reasons:

- 1) In order to machine the workpiece completely in a single operation (especially for 5 axis machines);
- 2) In order to save money for the raw materials, especially when they have a big impact on the price (aluminum, titanium, etc.)

Indirectly to these reasons, and in order to improve the performance of the machine tool and the tools

higher cutting speed + higher feed rate = bigger volume of metal removed = less time to machine the workpiece

the market requires safe clamping, which could at the same time possibly avoid the deformations of the piece itself.





Only 3,5 mm clamping surface, no need of pre-machining the workpiece, clamping stability, higher cutting rate: **SinterGrip** brings only advantages compared to the traditional systems.

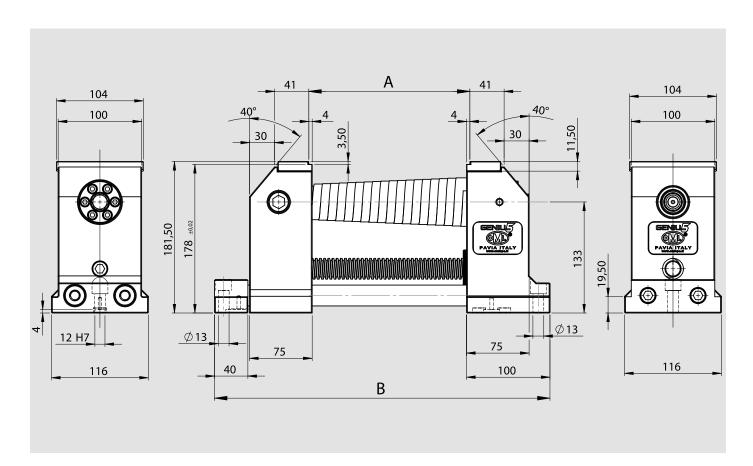
On the contrary, traditional systems need, for the clamping of the workpiece, a bigger clamping surface, with the result of waste of raw materials and greater possibility of deformation of the workpiece.



GENIUS vise

supplied with:

- Wrench
- Pair of positioning keys
- SinterGrip inserts for steel*
- Work stop
- * on request SinterGrip inserts HRC or ALU



| type | ld. No. | A* | В | Weight |
|------------|----------|-----|-----|--------|
| GENIUS 100 | 77585011 | 100 | 321 | 23 Kg |
| GENIUS 200 | 77585012 | 200 | 412 | 25 Kg |

^{*} Special opening "A" upon request

Special applications upon request

Accessories

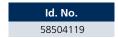


WORK STOP





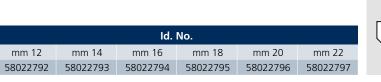
PAIR OF SMOOTH/GROOVED JAWS

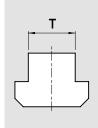




PAIR OF CLAMPS

complete with screw and T-nuts



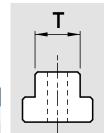


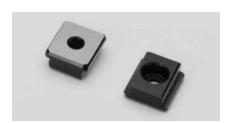


PAIR OF NUTS

complete with screws M12

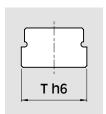
| ld. No. | | | | |
|----------------|----------------|----------------|----------------|----------------|
| T mm 14 | T mm 16 | T mm 18 | T mm 20 | T mm 22 |
| 58502593 | 58502594 | 58502595 | 58502596 | 58502597 |





PAIR OF POSITIONING KEY

| ı | ld. No. | | | | | |
|---|----------|----------|----------|----------|----------|----------|
| ĺ | mm 12 h6 | mm 14 h6 | mm 16 h6 | mm 18 h6 | mm 20 h6 | mm 22 h6 |
| | 58011592 | 58011593 | 58011594 | 58011595 | 58011596 | 58011597 |



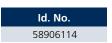


TORQUE WRENCH

Id. No. 51501006

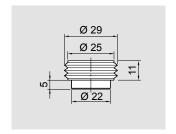


SET OF 4 "GRIPPERS" H11 SMOOTH





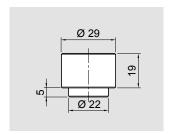
SET OF 4 "GRIPPERS" H11 SERRATED

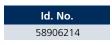


Id. No. 58906124



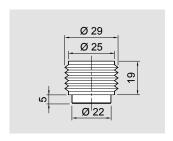
SET OF 4 "GRIPPERS" H19 SMOOTH







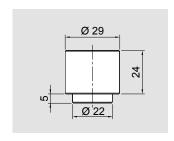
SET OF 4 "GRIPPERS" H19 SERRATED







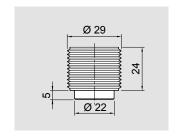
SET OF 4 "GRIPPERS" H24 SMOOTH



Id. No. 58906314



SET OF 4 "GRIPPERS" H24 SERRATED



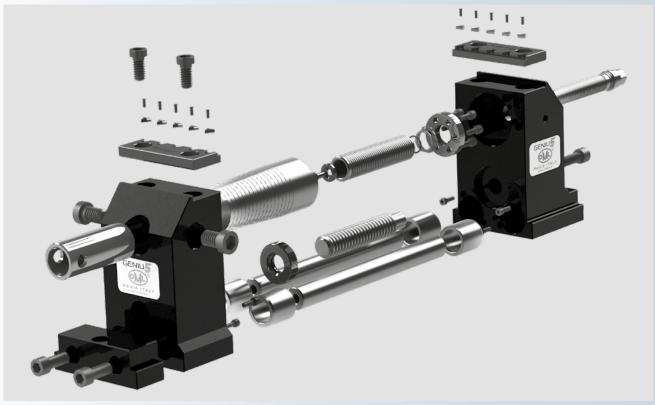
WORKING EXAMPLE WITH GRIPPERS



WORKING EXAMPLE WITH SINTERGRIP





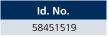


Spare parts



PAIR OF JAWS FOR SINTERGRIP

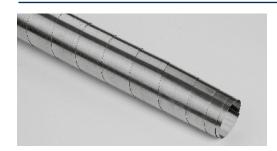
(SinterGrip inserts: see page S.17)





CLAMPING KEY

Id. No. 51502910



TELESCOPIC STAINLESS STEEL CARTER

Id. No. 71290218



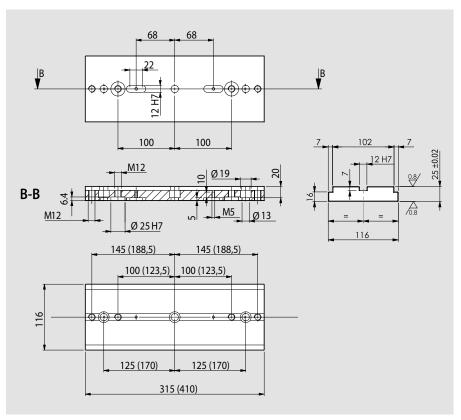
SPINDLE GROUP

Id. No. 77585010



PLATE FOR VISE GENIUS

| Туре | ld. No. | Weight (Kg) |
|------------|------------|-------------|
| GENIUS 100 | 58502010 | 7 |
| GENIUS 200 | (58502020) | 9 |

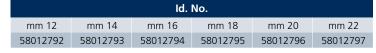


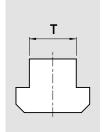
WORKING EXAMPLE





PAIR OF CLAMPS





WORKING EXAMPLES

