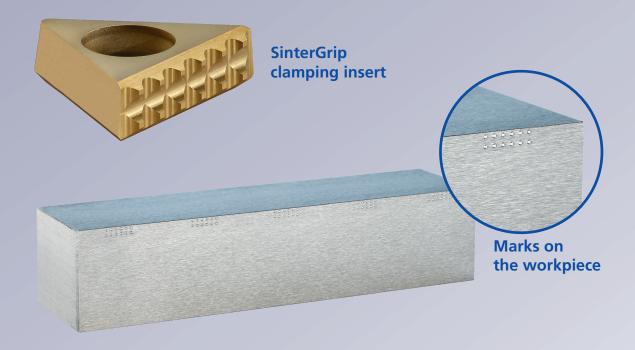
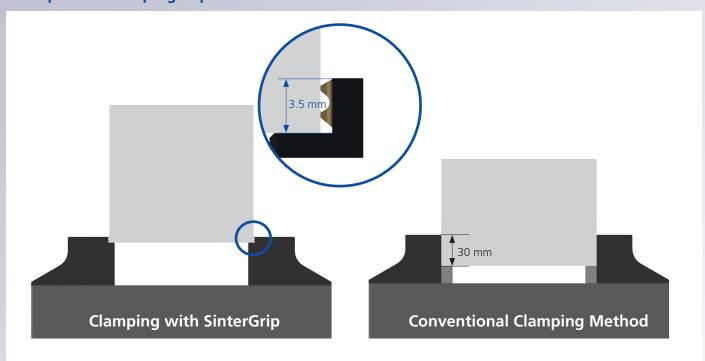
SinterGrip Clamping inserts

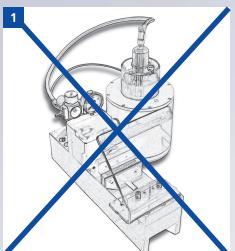


Comparison clamping depths



Lowest clamping depth of workpieces – no pre-marking

Benefits



3 different versions for all materials:



→ Steel



→ Hardened steel | Titanium (up to 54 HRC)



→ Aluminium | Plastic

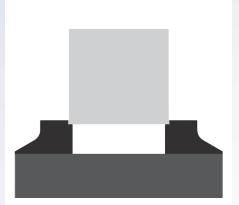
No pre-marking necessary

→ Elimination of the costs for a pre-mark machine and set-up times

No pre-machining of the workpiece or clamping surfaces necessary

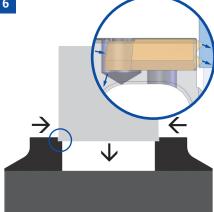
→ Elimination of the costs for the pre-machining

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Best accessibility and highest holding forces

- → Safe clamping of workpieces
- → Ideal for 5-axis machining
- → High material saving due to low clamping depth of only 3.5 mm

Maximum lifetime | No wear costs

- → SinterGrip clamping inserts are made from coated carbide steel and have maximum lifetime
- → The inserts are individually exchangeable

Pull-down effect | Active vibration absorption

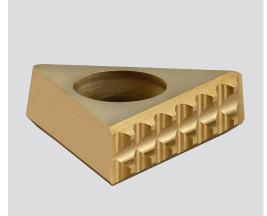
- → Even distribution of the clamping forces and active vibration absorption
- → Form-fitting clamping by means of the SinterGrip inserts

SinterGrip

Clamping inserts

■ Low clamping depth

■ High stability and active vibration absorption

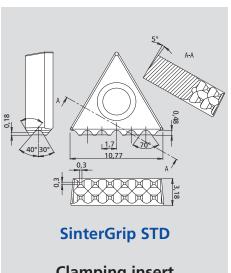


Application/customer benefits

- Very low clamping depth (only 3.5 mm) ensures safe clamping of the workpieces: Highest efficiency and productivity resulting in lower material costs and less machining costs
- No pre-marking necessary: Eliminates costs for a pre-mark machine and set-up times
- Highest stability and active vibration absorption
- Pull-down effect due to the special row of the teeth
- Increases cutting speeds compared to other systems
- Simple manufacturing of jaws for SinterGrip inserts by the customer
- Maximum lifetime

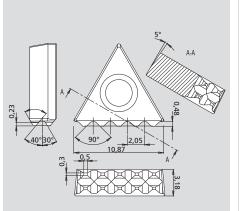
Technical features

- Clamping depth only 3.5 mm
- 3 different versions for steel, hardened steel / titanium (up to 54 HRC) and aluminium / plastic
- Made from coated carbide steel



Clamping insert for steel

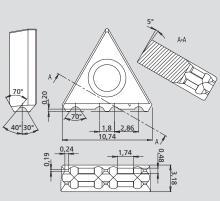
Id. No. 58450119



SinterGrip HRC

Clamping insert for hardened steel and titanium until 54 HRC

ld. No. 58450129



SinterGrip ALU

Clamping insert for aluminium and plastic

Id. No. 58450139

Order review



| Туре | ld. No. |
|----------------|----------|
| SinterGrip STD | 58450119 |

Consisting of 10 pcs. clamping inserts (without bolts; Order no. SinterGrip bolt-set 58450219)



| Туре | ld. No. |
|----------------|----------|
| SinterGrip HRC | 58450129 |

Consisting of 10 pcs. clamping inserts (without bolts; Order no. SinterGrip bolt-set 58450219)



| Туре | ld. No. |
|----------------|----------|
| SinterGrip ALU | 58450139 |

Consisting of 10 pcs. clamping inserts (without bolts; Order no. SinterGrip bolt-set 58450219)

SinterGrip

■ Fixing SinterGrip clamping inserts
■ Conversion of existing bench vises in SinterGrip

SinterGrip Bolt set, consisting of 10 pieces



| Туре | ld. No. |
|------------|----------|
| SinterGrip | 58450219 |

Key T9



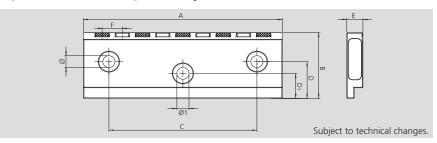
Protection cover aluminium set, consisting of 10 pieces



| Туре | ld. No. |
|------------|----------|
| SinterGrip | 58450519 |

Pair of jaws, set (incl. 1 pair parallels, wrench torx T9, screws)





| Type | ld. | No. | Α | В | С | D | D1 | E | Ø | Ø1 | H parall. | F |
|----------------------|-----------|-----------|-------|------|------|------|----|------|----|----|-----------|--------|
| Туре | Version 1 | Version 2 | mm | mm | mm | mm | mm | mm | mm | mm | mm | mm |
| ALLMATIC-T-REX/TITAN | 58451119 | 58452119 | 124.4 | 39.5 | 88 | 12.3 | 18 | 12 | 7 | 11 | 36.5 | 14 |
| GRESSEL/WNT/SCHUNK | 58451129 | 58452129 | 125 | 40 | 80 | 15 | - | 12 | 9 | - | 36.5 | 14 |
| HILMA | 58451149 | 58452149 | 125 | 45 | 80 | 14 | - | 12 | 9 | - | 42 | 14 |
| KURT 6" | 58451229 | 58452229 | 152 | 44.1 | 98.4 | 23.6 | - | 18.4 | 11 | - | 41 | 15.875 |
| ALLMATIC-T-REX/TITAN | 58451319 | 58452319 | 160 | 49.8 | 88 | 12.3 | 20 | 12 | 7 | 11 | 47 | 14 |
| GRESSEL/WNT/SCHUNK | 58451329 | 58452329 | 160 | 50 | 100 | 20 | - | 12 | 11 | - | 47 | 14 |
| HILMA | 58451349 | 58452349 | 160 | 54 | 100 | 17 | - | 12 | 11 | - | 51 | 14 |

Version 1: without wolfram-carbide coating Version 2: with wolfram-carbide coating

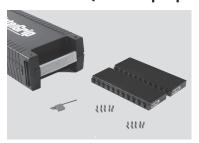
for a better grip in the 2nd operation (picture)

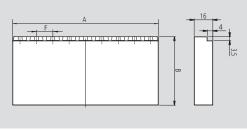
Number of the needed SinterGrip clamping inserts:

ld. No. 58451119 to 58452229: 9 pcs. SinterGrip clamping inserts Id. No. 58451319 to 58452349: 11 pcs. SinterGrip clamping inserts



Starter Kit (for the preparation by the customer, tutorial see next page)





| Туре | ld. No. | A mm | B mm | F mm | Inserts |
|-------------|----------|---------|---------|---------|---------|
| Starter Kit | 58453119 | 125 | 59 | 14 | 9 |
| Starter Kit | 58453319 | 160 | 59 | 14 | 11 |
| Starter Kit | 58453419 | 200 | 70 | 15 | 13 |

Consisting of:

1 pair of jaws,

1 wrench TORX T9 and 1 kit of 10 screws

SinterGrip

Manufacturing of jaws for SinterGrip inserts by the customer

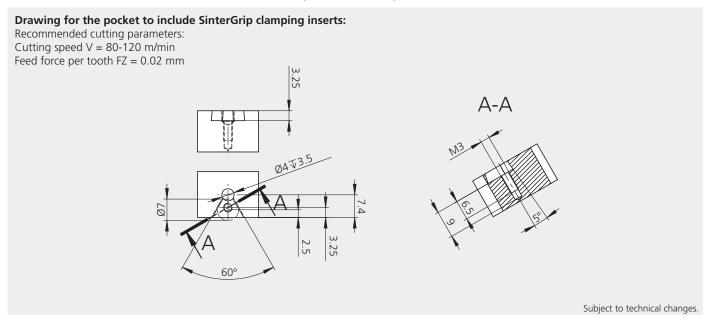
- Milling cutter for SinterGrip clamping inserts
- **■** Manual

SinterGrip milling cutting tool

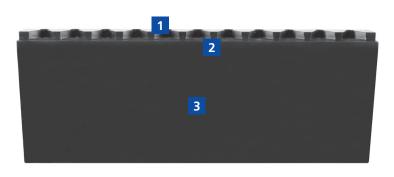


| Туре | ld. No. |
|---------------------------|----------|
| SinterGrip milling cutter | 58450410 |

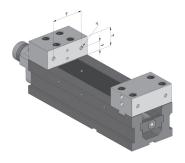
Solid carbide end milling cutting tool, Ø 4 mm, 3 cutting edges, Ø $3x5^{\circ}$, V = 40-60 m/min, Fz = 0.01-0.04 mm/tooth.



Tutorial for the preparation of jaws for SinterGrip inserts by the customer

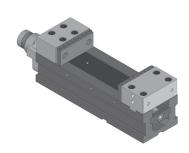


- Shape of the SinterGrip pocket manufactured with SinterGrip milling cutting tool (Id. No. 58450410)
- 2 Clamping step 3.5 x 4 mm
- Jaw made from nitrided steel with a tensile strength of $\approx 980N/mm^2$







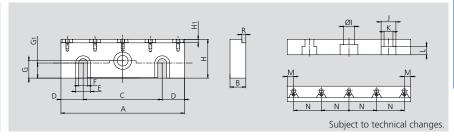


Measurement of the dimensions of the vise Milling of the jaw to the required height Drilling of the jaw with the correct distance of the holes Mounting of the jaw on the vise

- Multi jaw for the use of SinterGrip clamping inserts on machine vises
- Form-fitting clamping of components without pre-processing

Multi jaw SinterGrip





| SMW-AUTOBLOK Type | | Multi jaw SinterGrip 467112 |
|----------------------|----|--------------------------------|
| Α | mm | 125 |
| В | mm | 18 |
| C | mm | 80 |
| D | mm | 22.5 |
| E | mm | 15 |
| F | mm | 9 |
| G | mm | 18 |
| G1 | mm | 15.6 |
| Н | mm | 40 |
| H1 | mm | 3.25 |
| I | mm | 11 |
| J | mm | 15 |
| K | mm | 9 |
| L | mm | 8.6 |
| M | mm | 6.5 |
| N | mm | 28 |

Multi jaw compatible with SMW-AUTOBLOK TTI-2G 125, SMW-AUTOBLOK GT5-2G, Gressel gripos 125, WNT NCG 125, Schunk KSC 125, Allmatic NC8 125, TC/LC 125, Hoffmann HiPo Clamp 125, Garant NC high pressure vise version LC, KESEL NCA 125, CNC125, Röhm RKE 125

Consisting of: Multi jaw SinterGrip, without SinterGrip clamping inserts, without SinterGrip bolts