



STARK



Zero point mounting system SPEEDY metec

WM-020-294 / 04.2008

SPEEDY metec 1 / 2 / 3

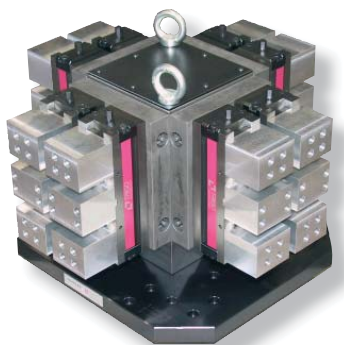
Content and overview of order no.

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Insertion nipple with compensation	5	2000 010
Insertion nipple without centering	5	2000 011

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Current installation dimensions: www.stark-inc.at/Admin/extranet/login_extranet.php



Practical installation: machine vices with SPEEDY metec, mounted to a machine bracket.

Save setup times and gain flexibility with the SPEEDY metec

- Straightforward and robust construction for a long service life
- No additional lateral forces on the insertion nipple
- Three sizes are available with retention forces of 12 kN to 50 kN
- Easy handling
- No additional media required (compressed air, hydraulic oil)
- High flexibility due to various insertion bolts
- Low acquisition costs, fast amortisation
- Universally applicable as construction element
- Low setup times due to short mounting times
- Repeatable precision during palette changing of <0.01mm possible

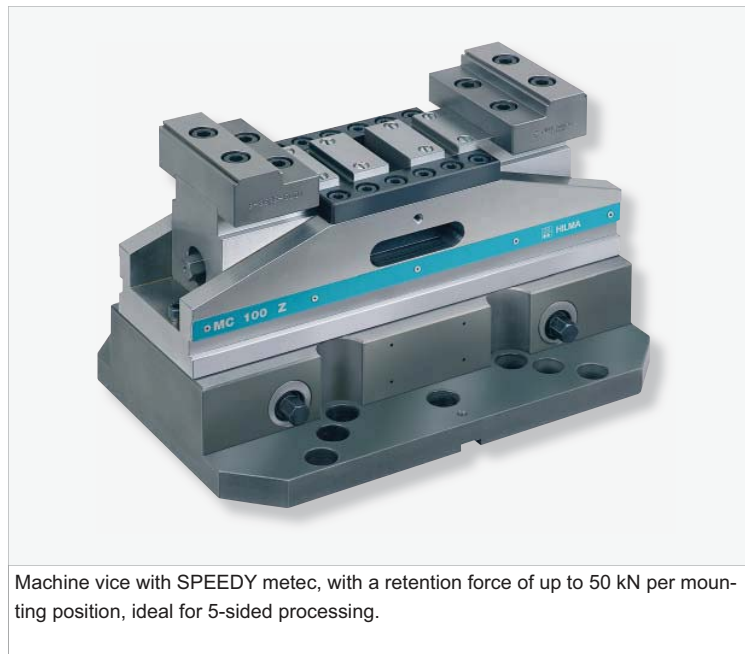
SPEEDY metec – Three robust mechanical zero point mounting systems with high retention force, 12kN / 20kN / 50kN

SPEEDY metec 1 / 2 / 3 mechanical zero point mounting system

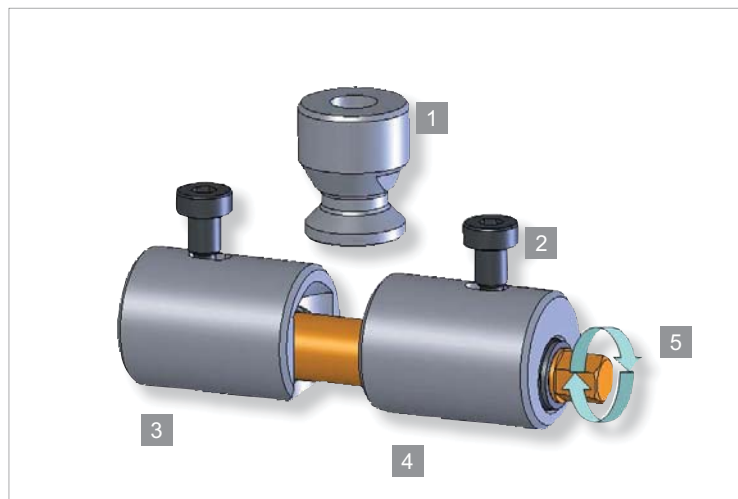
Automation is not always required!

SPEEDY metec is a solid, mechanical zero point mounting system that enables straightforward and economical zero point mounting solutions.

- Just approx. 2-3 rotations and the workpiece is mounted
- Mount workpiece with vices or other chucks
- Direct mounting of workpiece
- Directly mount to your own workpiece receptacles such as brackets, cubes or plates



Machine vice with SPEEDY metec, with a retention force of up to 50 kN per mounting position, ideal for 5-sided processing.

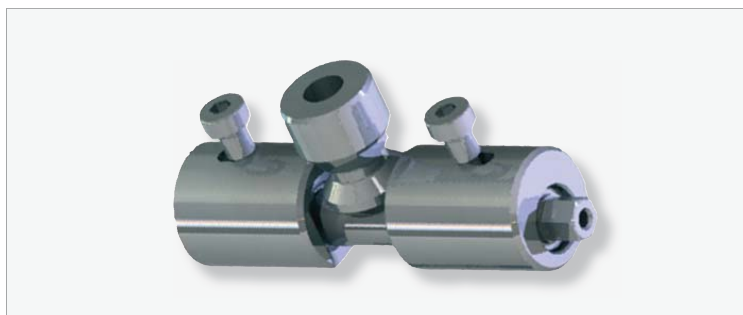


- 1 Insertion nipple
- 2 Locking piston
- 3 Wedge bolt, left
- 4 Wedge bolt, right
- 5 Hexagon socket for operating

Zero point mounting system SPEEDY metec 1 clamp mechanically, release mechanically

SPEEDY metec 1

Order no.: 2000 001

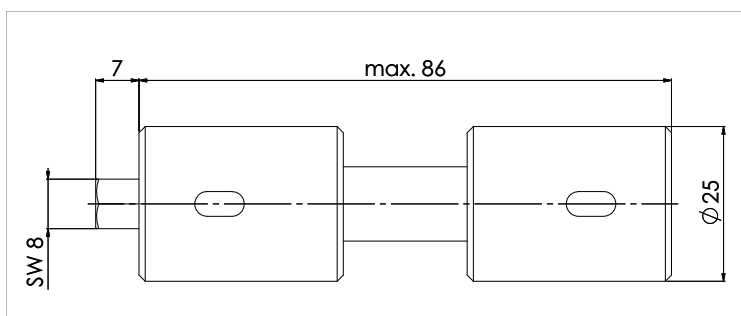


Retention force: 12kN

Torque
spindle: 60Nm

Operation: 2.5 rotations

Thickness of
the plate: min. 40mm



Actual dimensions:

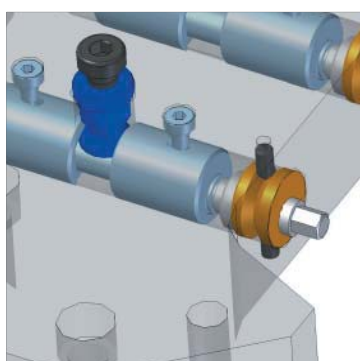
www.stark-inc.at/Admin/extranet/login_extranet.php

Data sheet no. D034

SPEEDY metec Extension of the spindle

With the extension of the spindle an easy handling of deeper counter-sunken SPEEDY is possible. Contamination in the holes can also be prevented effectively.

- Flexible handling with adapted extensions of the spindle
- Prevents reliable the intrusion of mud in the holes (particularly suitable for mounting in the middle of the quick-action closing plate)



Installation example of SPEEDY metec 1 with extension of the spindle



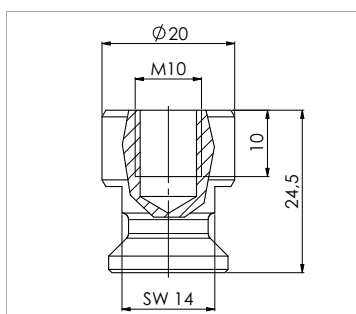
SPEEDY metec 1 extension of the spindle, the length of the spindle is produced customer-specific. On request specify system dimensions and installation depth.

Zero point mounting system SPEEDY metec 1

Insertion nipple - Technical data

Insertion nipple with zero point SPEEDY metec 1

Order no.: 2000 009



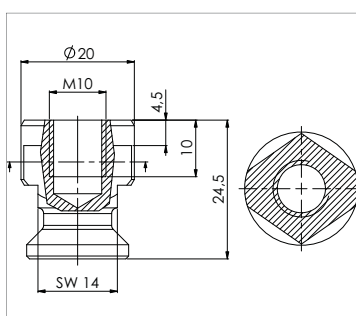
Installation with set screw
M10 8.8 DIN 913
Torque insertion nipple: 45Nm

Installation with screw
M10 8.8 DIN 912
Torque screw: 35Nm

Actual dimensions:
www.stark-inc.at/Admin/extranet/login_extranet.php
Data sheet no. D035

Insertion nipple with compensation SPEEDY metec 1

Order no.: 2000 010



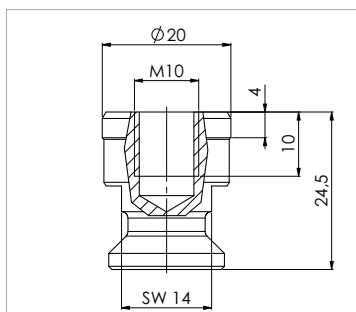
Installation with set screw
M10 8.8 DIN 913
Torque insertion nipple: 45Nm

Installation with screw
M10 8.8 DIN 912
Torque screw: 35Nm

Actual dimensions:
www.stark-inc.at/Admin/extranet/login_extranet.php
Data sheet no. D035

Insertion nipple without centering SPEEDY metec 1

Order no.: 2000 011



Installation with set screw
M10 8.8 DIN 913
Torque insertion nipple: 45Nm

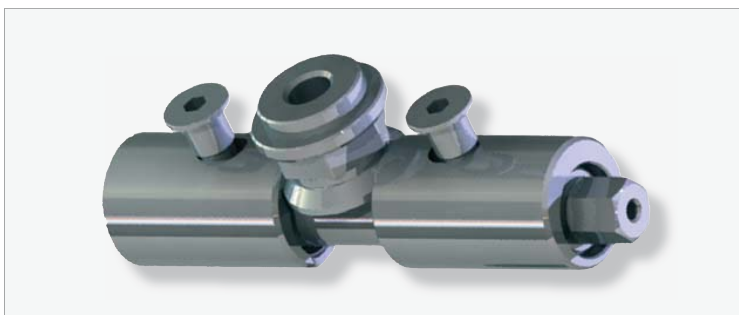
Installation with screw
M10 8.8 DIN 912
Torque screw: 35Nm

Actual dimensions:
www.stark-inc.at/Admin/extranet/login_extranet.php
Data sheet no. D035

Zero point mounting system SPEEDY metec 2 clamp mechanically, release mechanically

SPEEDY metec 2

Order no.: 2000 101

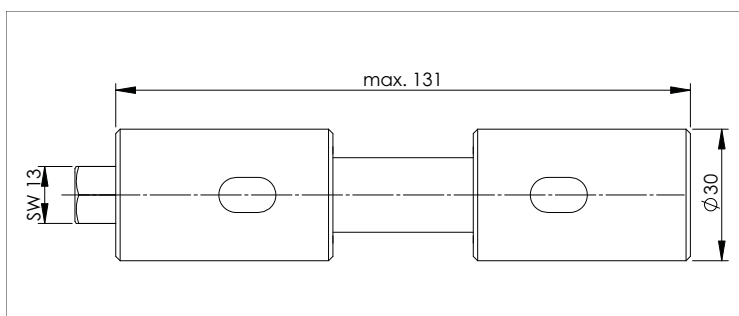


Retention force: 20kN

Torque
spindle: 80Nm

Operation: 2.5 rotations

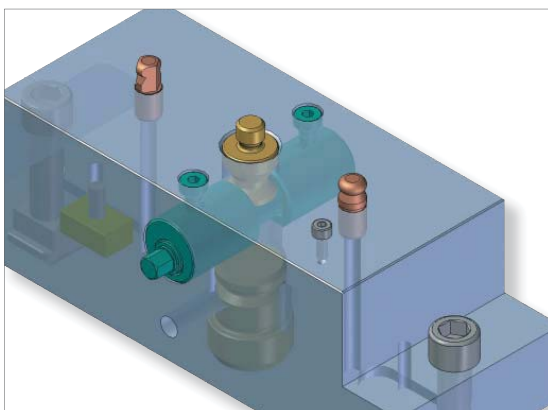
Thickness of
the plate: min. 45mm



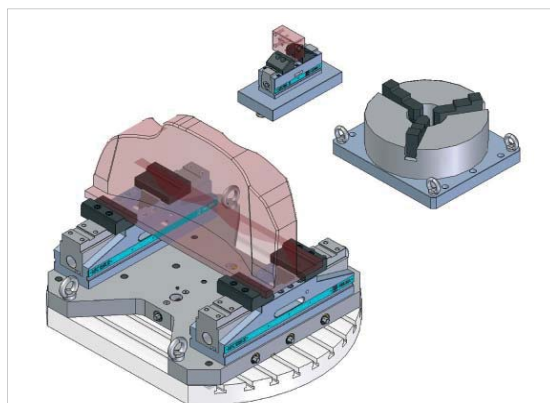
Actual dimensions:

www.stark-inc.at/Admin/extranet/login_extranet.php

Data sheet no. D045



HILMA Quintus-quick clamping block with SPEEDY metec



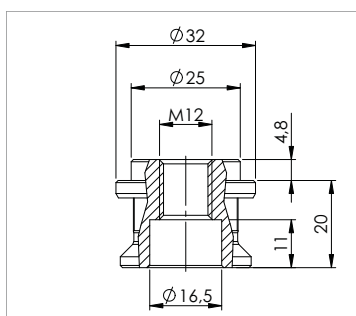
Variations and applications for SPEEDY metec 2 with a retention force of 20kN per mounting position, ideal for quick, easy setups

Zero point mounting system SPEEDY metec 2

Insertion nipple - Technical data

Insertion nipple with zero point SPEEDY metec 2

Order no.: 2000 109



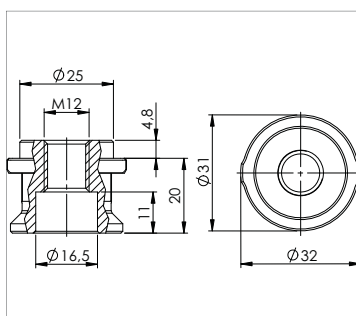
Installation with screw from
the bottom M10 8.8 DIN 912
Torque screw: 45Nm

Installation with screw from
the top M12 8.8 DIN 912
Torque screw: 62Nm

Actual dimensions:
[www.stark-inc.at/Admin/extranet/
login_extranet.php](http://www.stark-inc.at/Admin/extranet/login_extranet.php)
Data sheet no. D029

Insertion nipple with compensation SPEEDY metec 2

Order no.: 2000 110



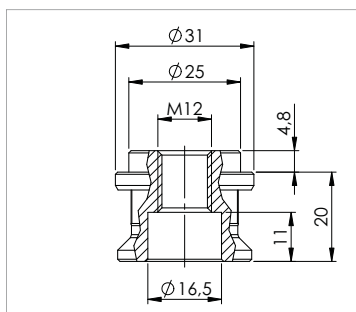
Installation with screw from
the bottom M10 8.8 DIN 912
Torque screw: 45Nm

Installation with screw from
the top M12 8.8 DIN 912
Torque screw: 62Nm

Actual dimensions:
[www.stark-inc.at/Admin/extranet/
login_extranet.php](http://www.stark-inc.at/Admin/extranet/login_extranet.php)
Data sheet no. D029

Insertion nipple without centering SPEEDY metec 2

Order no.: 2000 111



Installation with screw from
the bottom M10 8.8 DIN 912
Torque screw: 45Nm

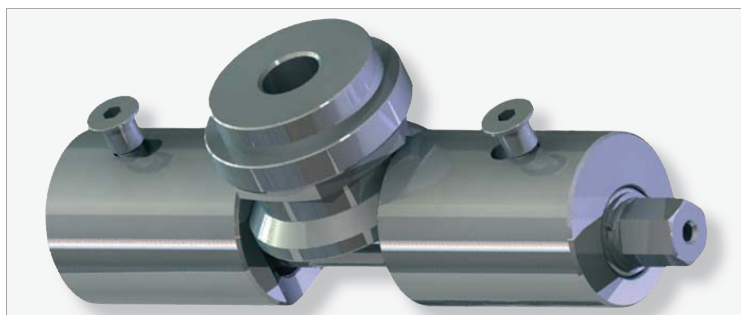
Installation with screw from
the top M12 8.8 DIN 912
Torque screw: 62Nm

Actual dimensions:
[www.stark-inc.at/Admin/extranet/
login_extranet.php](http://www.stark-inc.at/Admin/extranet/login_extranet.php)
Data sheet no. D029

Zero point mounting system SPEEDY metec 3 clamp mechanically, release mechanically

SPEEDY metec 3

Order no.: 2000 201

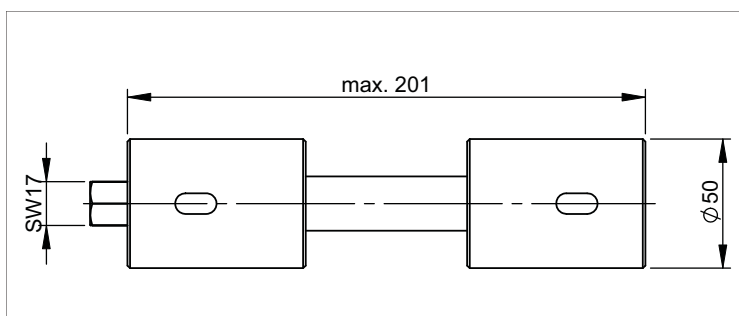


Retention force: 50kN

Torque
spindle: 70Nm

Operation: 3.5 rotations

Thickness of
the plate: min. 80 mm



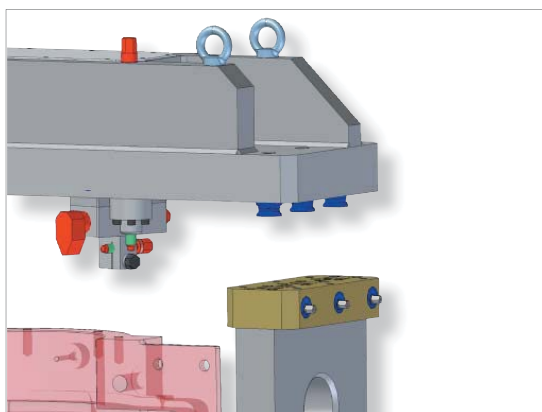
Actual dimensions:

www.stark-inc.at/Admin/extranet/login_extranet.php

Data sheet no. D078



Quick and easy installation of the machine vice with SPEEDY metec.

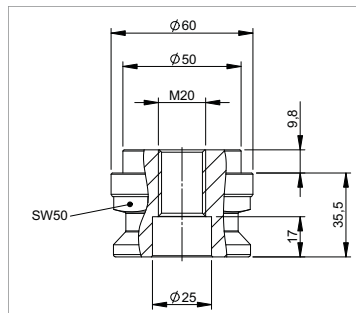


Arranging, positioning and clamping of a clamping device with SPEEDY metec 3.

Zero point mounting system SPEEDY metec 3 Insertion nipple - Technical data

Insertion nipple with zero point SPEEDY metec 3

Order no.: 2000 209



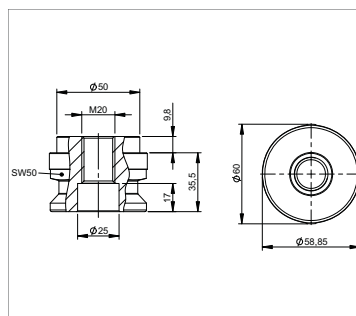
Installation with screw from
the bottom M16 8.8 DIN 912
Torque screw: 200Nm

Installation with screw from
the top M20 8.8 DIN 912
Torque screw: 250Nm

Actual dimensions:
[www.stark-inc.at/Admin/extranet/
login_extranet.php](http://www.stark-inc.at/Admin/extranet/login_extranet.php)
Data sheet no. D029

Insertion nipple with compensationh SPEEDY metec 3

Order no.: 2000 210



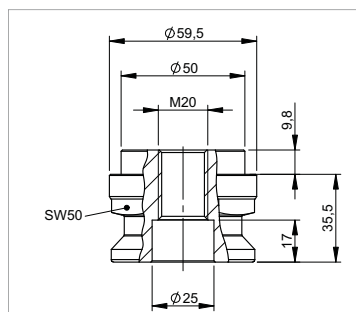
Installation with screw from
the bottom M16 8.8 DIN 912
Torque screw: 200Nm

Installation with screw from
the top M20 8.8 DIN 912
Torque screw: 250Nm

Actual dimensions:
[www.stark-inc.at/Admin/extranet/
login_extranet.php](http://www.stark-inc.at/Admin/extranet/login_extranet.php)
Data sheet no. D029

Insertion nipple without centering SPEEDY metec 3

Order no.: 2000 211

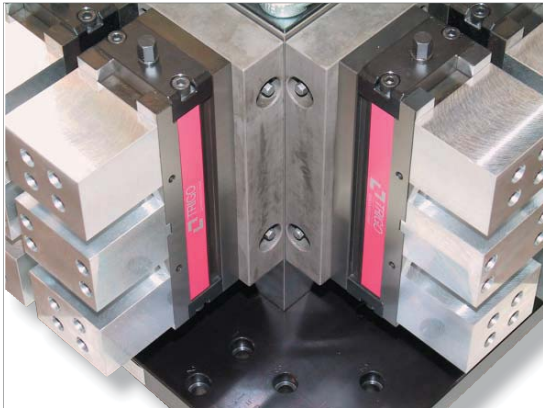


Installation with screw from
the bottom M16 8.8 DIN 912
Torque screw: 200Nm

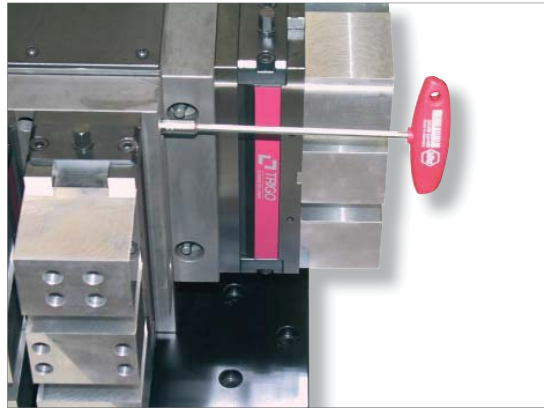
Installation with screw from
the top M20 8.8 DIN 912
Torque screw: 250Nm

Actual dimensions:
[www.stark-inc.at/Admin/extranet/
login_extranet.php](http://www.stark-inc.at/Admin/extranet/login_extranet.php)
Data sheet no. D029

Zero point mounting system SPEEDY metec 1 in action clamp mechanically, release mechanically



HILMA quick clamping block with SPEEDY metec



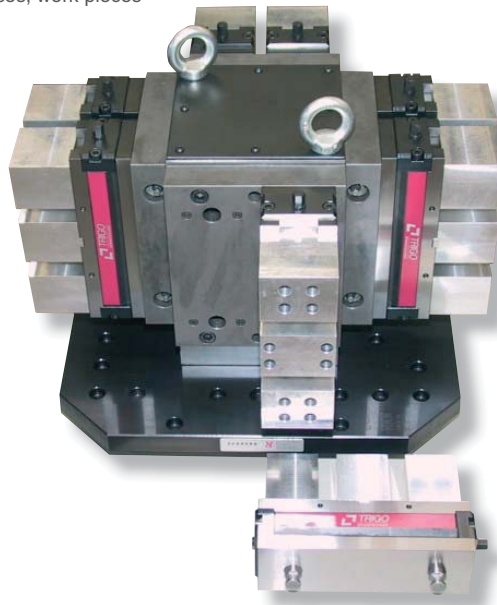
With two rotations on the spindle, the SPEEDY metec is released.

Easy handling and fast resetting with SPEEDY metec.

With the solid SPEEDY metec you will set-up very easily in a zero point precision.
With the mechanically operation it is possible to change machine vices, work pieces
or clamping devices very easily, fast and clean.

SPEEDY metec, benefits which are worth while:

- high process repeatability
- no external energy necessary for functionality
- clamping and releasing with approx. 2½ - 3½ rotations on the spindle (right- and left-hand thread)
- high holding forces with little starting torque on the spindle
- low installation costs, fast amortisation



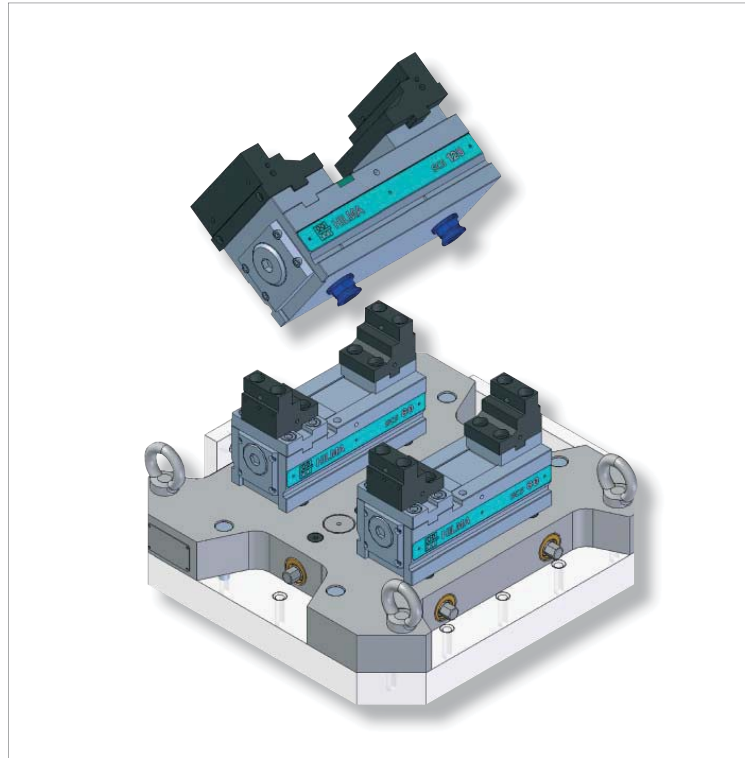
Maschine vice with SPEEDY metec 2, clamp mechanically, release mechanically

Easy set-up with SPEEDY metec.

Set-up costs are the essential cost parameter by single-piece production and varying series production. With the mechanical zero point mounting system SPEEDY metec it is possible to interrupt series production easily. The change of devices, palettes or the machine vices is completed in a few minutes, with zero point precision.

With SPEEDY metec you do not apply rearrange procedures of the machine vices any more. Positioning and clamping can be done with $2\frac{1}{2}$ - $3\frac{1}{2}$ rotations on the spindle with a retention force up to 50kN.

- Gain of time with minimized set-up times
- Advanced throughput capacity
- Competitive advantage with maximum flexibility
- Optimal reproducibility



Fast clamping block with
SPEEDY metec 2.