

Product note

Quick-Change System INDEX CAPTO

Stationary tools

Note on applicability

Illustrations in this publication may deviate from the product supplied. Errors and omissions due to technical progress expected.

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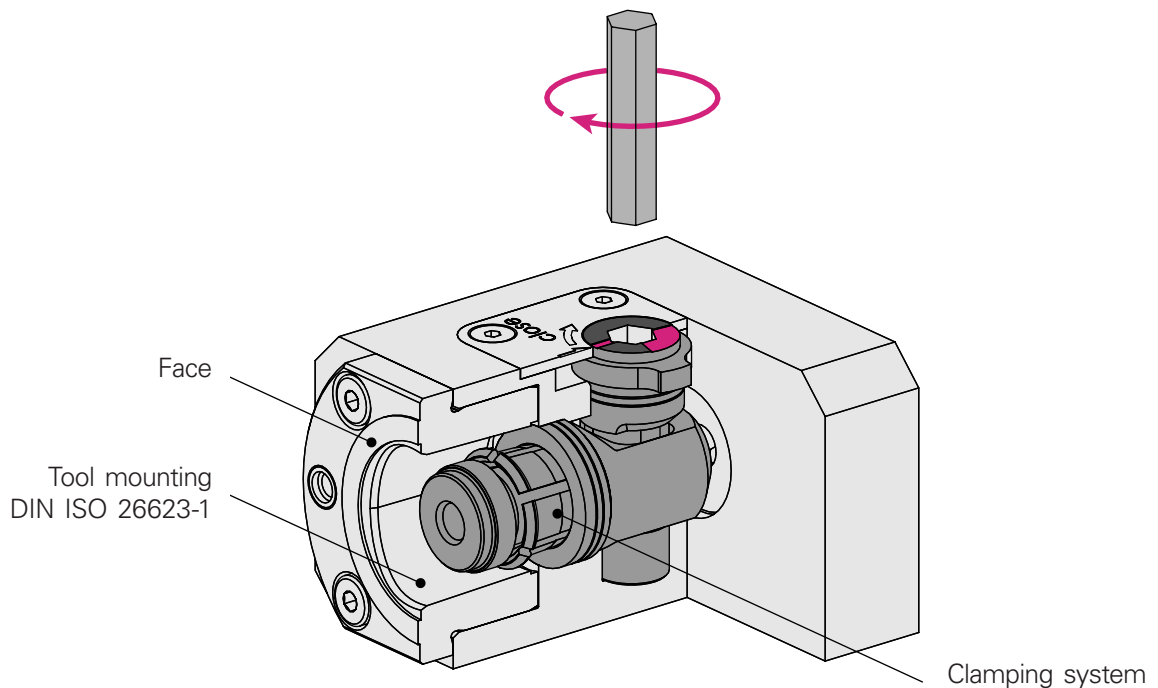
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CAPTO system

A feature of the tool interface and contact surface according to DIN ISO 26623-1 is the polygonal hollow shaft taper that allows safe and backlash-free fixing in position and transmission of high torques without additional elements such as drive slots.



Technical highlights

- Very compact installation space
- High power gain and compact power flow by transmission in the clamping system
- Automatic tool ejection upon release by the clamping system
- Sealed system for central coolant supply
- Separate blow-out possible of the clamping system



With internal coolant supply, filtering the coolant to at least 50 microns must be ensured.

The tool holder must not be operated without clamping the tool adapter.

The tool adapter must only be used in the base position.

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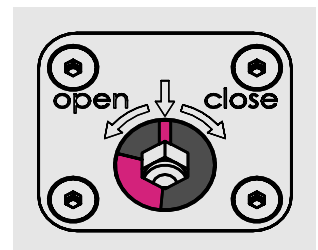
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Cleaning the face contact surface

- Ensure absolute cleanliness when changing the tool.
- All functional surfaces must be cleaned before the clamping process.

Inserting the tool adapter in base position

- When delivered, the tool clamp is open.
- The clamping actuator is in the base position.
- The tool adapter can be inserted in this position.
- An integrated latching function locks the tool adapter in the tool holder.

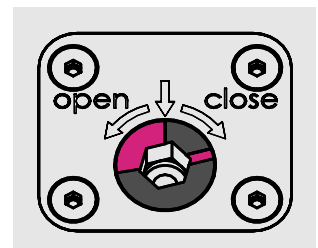


Clamping the tool adapter

- The clamping mechanism is actuated by a rotation in the clockwise direction.
- For the torque, see the Technical Data table.

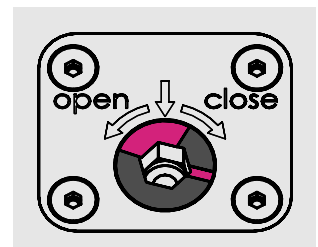
Self-locking range

- From a rotation of 75°, the clamp enters the self-locking range and the tool adapter is clamped.
- With increasing angle of rotation, the clamping force is increased.



Maximum torque

- The specified maximum torques for maximum clamping force are achieved from a rotation angle of approximately 105°.
- For the forces and torques, see the Technical Data table.

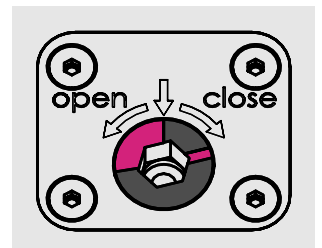
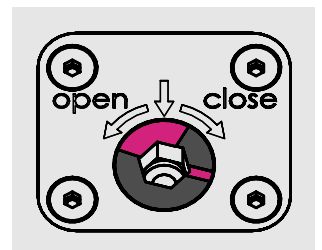


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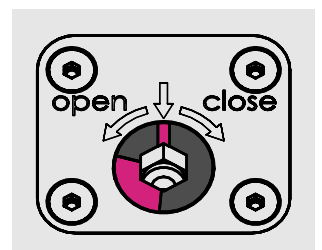
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Releasing the tool adapter

- To release the tool adapter, rotate it counterclockwise to the base position.



- Ejecting the tool adapter briefly requires an increased release torque shortly before reaching the base position.
- To release the adapter, see the specification in the Technical Data table.



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Technical data

Technical data

	C3	C4	C5
Latching function	20 N	30 N	40 N
Force max.	16 kN	22 kN	27 kN
Torque max.	35 Nm	50 Nm	70 Nm
Release force	8 kN	10 kN	13 kN
Release torque	17 Nm	25 Nm	35 Nm

Technical data

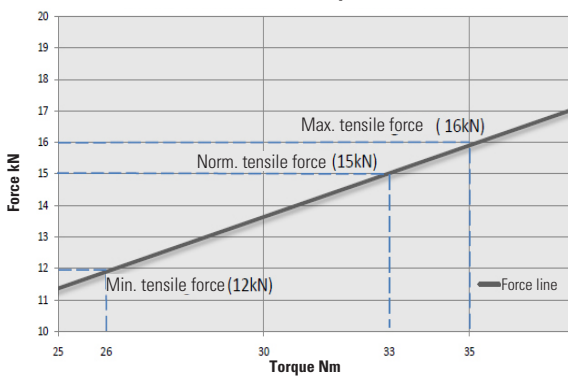
Charts

The German Industrial Standard (DIN) defines for this system a minimum tensile force, which is achieved by the torques shown in the chart.

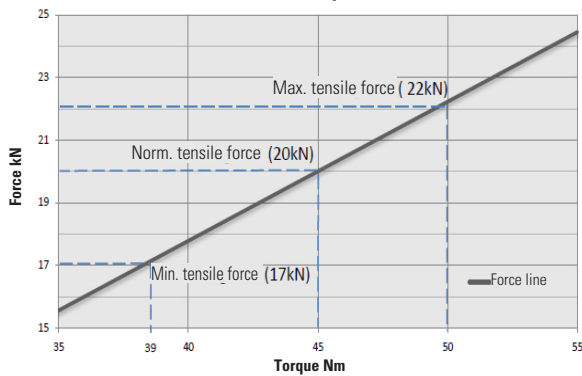
In the rotating range, a torque according to ISO 26623-2 is required.

If high cutting forces occur in the static range, the maximum tensile forces at the maximum torque can be achieved as indicated in the charts.

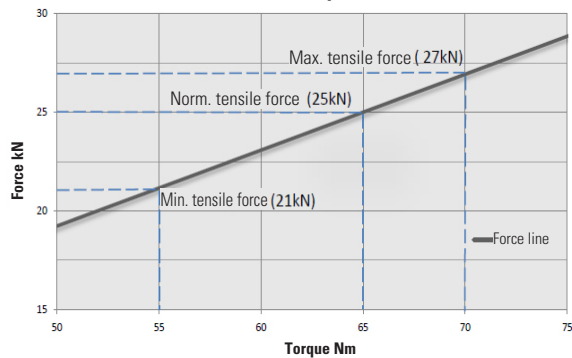
Force vs. torque chart C3



Force vs. torque chart C4



Force vs. torque chart C5



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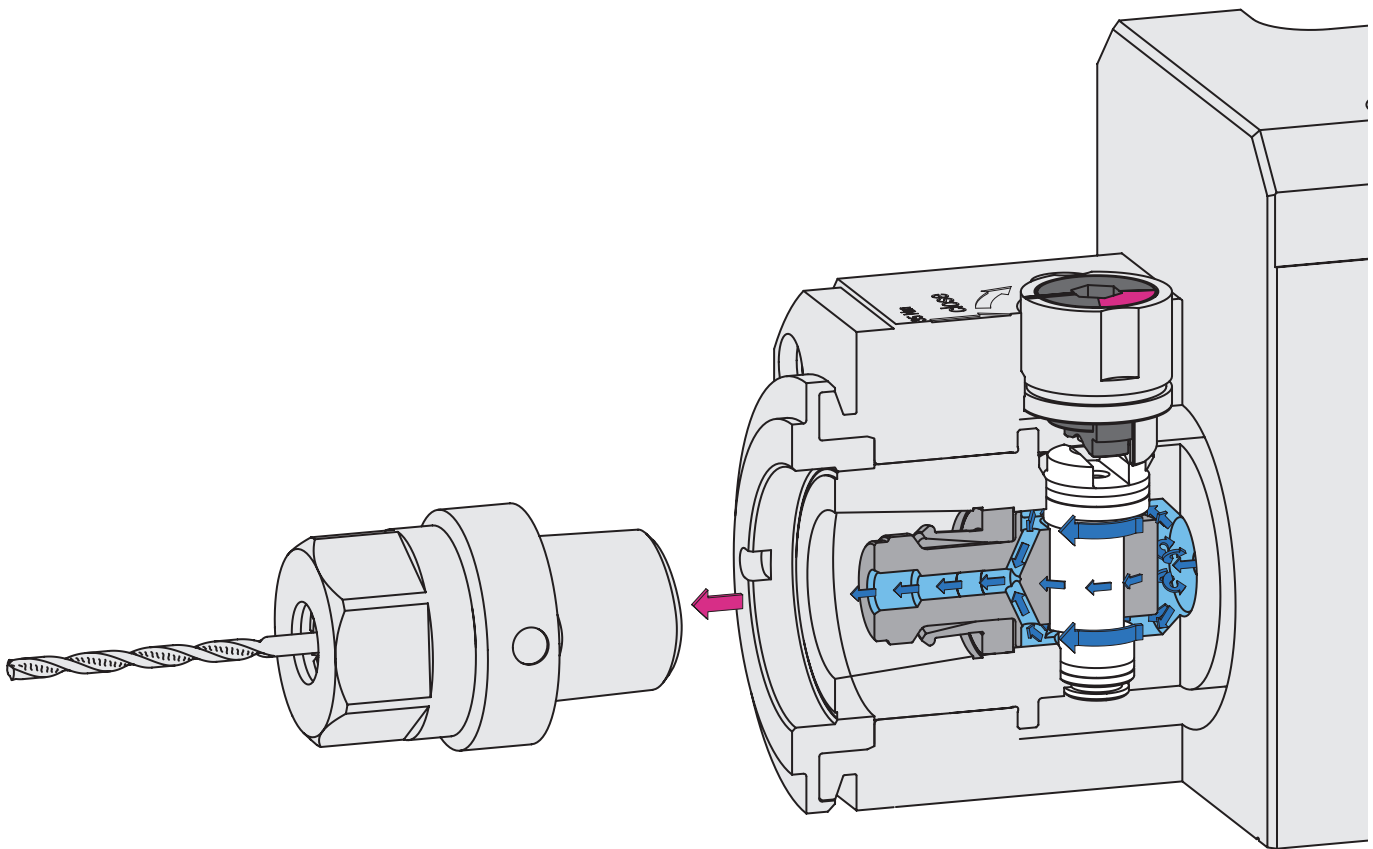
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Quick-change mounting with internally cooled tools

- When using tools with lower flow rates, the dirt of the cooling lubricant may deposit in the clamping system.
- It is recommended to rinse the clamping system at least once a week by removing the CAPTO quick-change mounting.



represented graphically
INDEX CAPTO
with 2-flat actuator



Remove quick-change mounting at least once a week

Rinse

Clean mounting

Reinstall quick-change mounting

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