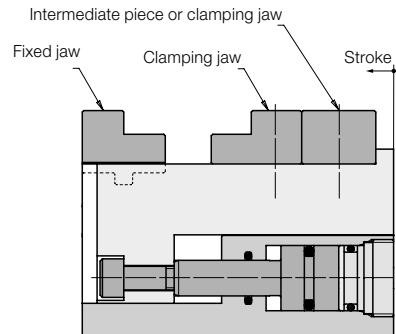



Fixture Clamp with Fixed Jaw
**max. clamping force 9.5 kN, jaw width 40 mm,
double acting, max. operating pressure 250 bar**

Advantages

- Very compact design
- High rigidity and precision
- Strokes 5 and 30 mm
- Double-acting function
- Fixtures without tubes possible
- Exchangeable jaws
- Pneumatic contact or seat control in the fixed jaw possible
- Good swarf protection
- Port for central lubrication
- Mounting position: variable

Function

Application

The fixture clamps are used for machining of dimensionally stable workpieces in single or multiple clamping fixtures.

Due to their compact design they can be arranged in a very limited space.

Fixture clamps are especially suitable for series manufacturing in automated mode.

The double-acting cylinder function combined with central lubrication and good swarf protection guarantees a high process safety.

Description

The fixture clamp with fixed jaw consists of a very small basic body with integrated hydraulic cylinder which actuates the movable jaw.

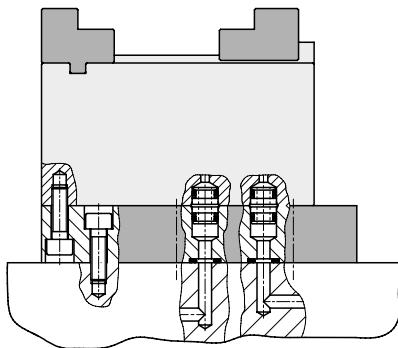
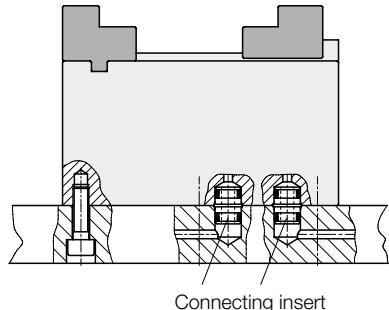
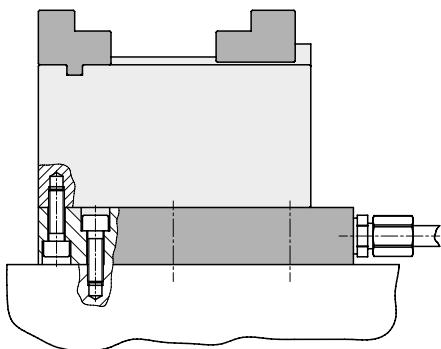
All threads and ports are at the bottom to allow a space-saving arrangement of several clamping points in a very limited space.

If fixing from below is not possible an adaptor plate for manifold mounting or tube connection is available. As accessory also blanks of clamping jaws are available for adaptation to the workpiece contour.

The fixed jaw can be equipped with a pneumatic seat control.

Fixing from above

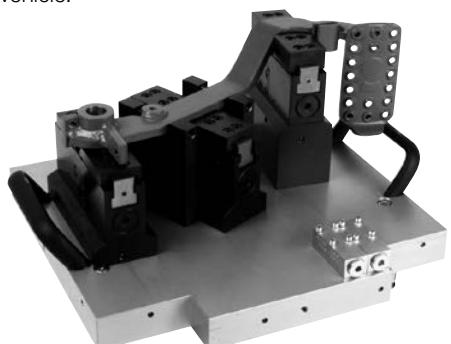
with accessory adaptor plate

Drilled channels

Fixing from below
Drilled channels

Fitting connection

Accessories

Fixed jaw, clamping jaws and adaptor plate are not included in the delivery of the fixture clamp and have to be ordered separately as accessory.

Application example

Clamping fixture for a pedal of a freight vehicle.


Important notes

The fixture clamp is only suitable for exterior clamping.

Lubricate at the latest after 500 clamping cycles the clamping slide via the central lubrication.

Never use the complete clamping stroke to guarantee safe clamping of the workpiece.

Max. operating temperature 80 °C.

Operating conditions and other data see data sheet A 0.100.

Clamping stroke 30 mm

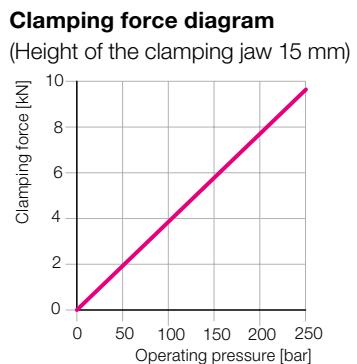
Clamping stroke 30 mm: Part no. 4413031

Technical data

Clamping force max.	[kN]	9.5
Clamping stroke	[mm]	30
Jaw width	[mm]	40
Max. flow rate	[cm ³ /s]	25
Stroke volume	Clamping [cm ³]	15
	Unclamping [cm ³]	12
Weight approx.	[kg]	2.24

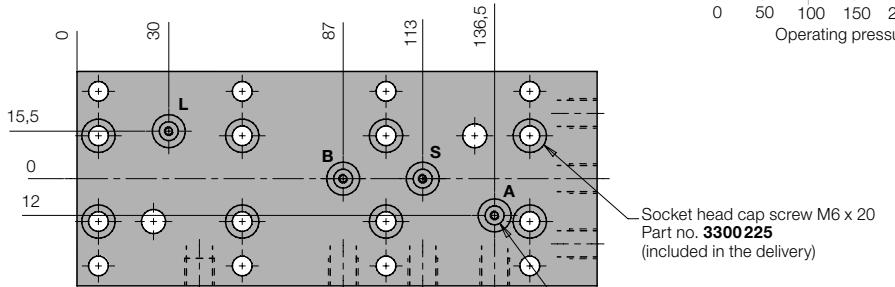
Adaptor plate (accessory)

Weight approx. [kg] 1.8
Part no. 0441303

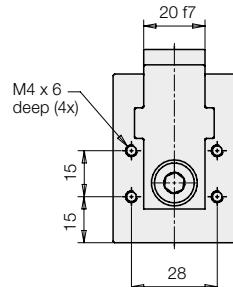
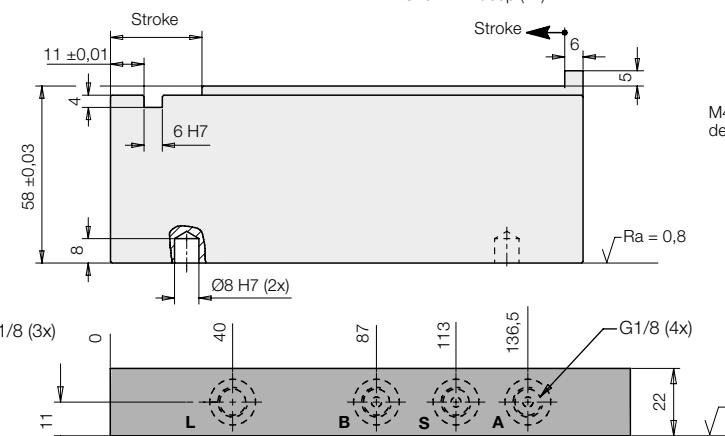
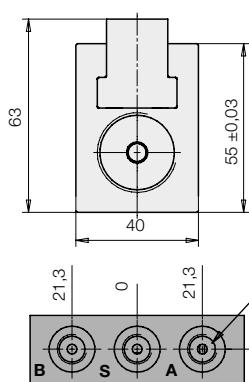


Accessory: adaptor plate

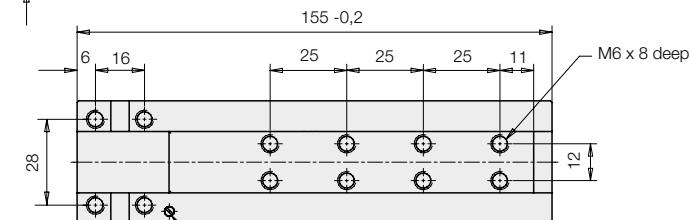
View from below



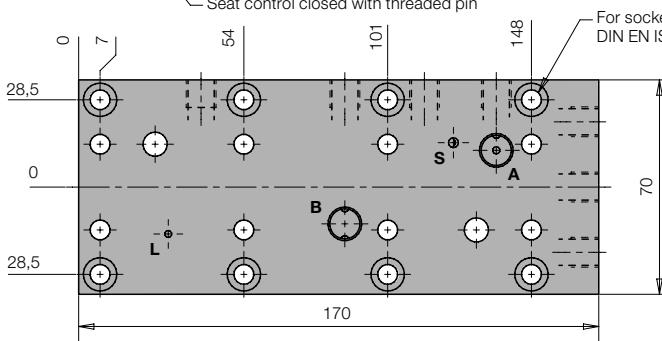
A = Clamping
B = Unclamping
S = Central lubrication
L = Air for seat control



Accessory: adaptor plate



Seat control closed with threaded pins



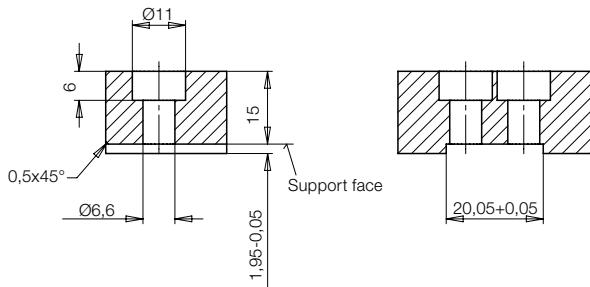
Accessory: adaptor plate

Accessory - clamping jaws

Versions: Clamping jaw blanks
 Material: 16 MnCr5 smooth

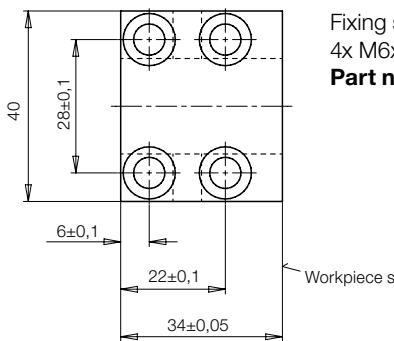
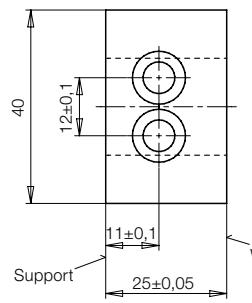
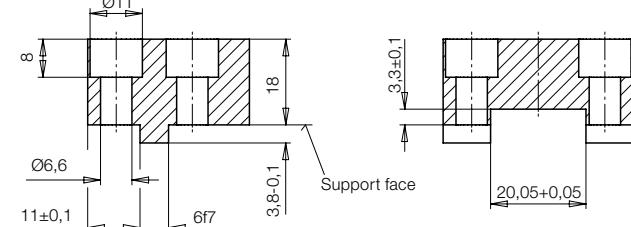
Clamping jaw:

Part no. 3548070



Fixed jaw:

Part no. 3548071



Self-made clamping jaws

Clamping jaws and fixed jaws are manufactured according to the contour of the workpiece to be clamped.

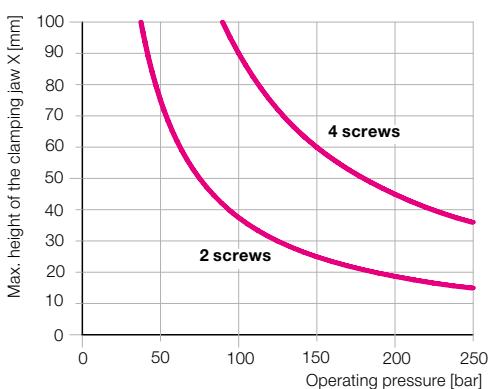
The max. height of the clamping jaw X at 250 bar operating pressure is indicated in the below chart.

If the operating pressure is lower, the clamping jaws and the fix jaws can be designed higher as per the below diagram.

Max. height of the clamping jaws X at max. operating pressure of 250 bar

Fixing screws M6x16 - 12.9
for clamping jaws
X [mm] with 2 screws 15
X [mm] with 4 screws 36

Max. height of the clamping jaw X as a function of the operating pressure



Important note

The clamping jaws must always be supported by the provided support, since the fixing screws are not in the position to compensate the generated clamping forces.

Fixing of the clamping jaws

