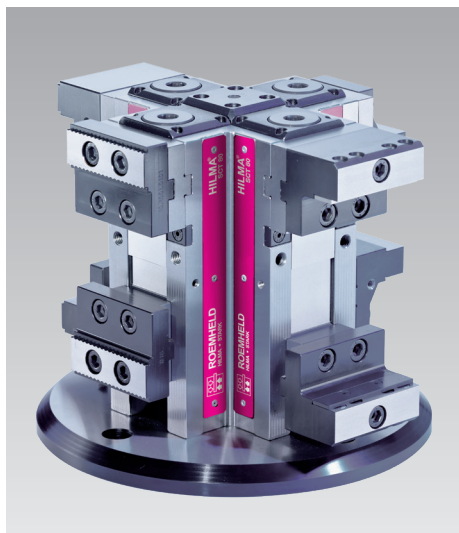




Tower Workholding Systems SCT

clamping against the fixed jaw, mechanically or hydraulically operated
 jaw widths 80 and 120 mm, with 3 or 4 clamping sides



Advantages

- 2 sizes for optimum design to the machining centre
- Clamping of 3 or 4 workpieces with standard jaws
- Mechanical or hydraulic build up of the clamping force
- Easy and safe operation
- Large jaw openings and high flexibility due to extensive range of clamping jaws
- Highest stability by design as a monoblock
- Optimum protection against contamination
- Process-safe application of clamping force, also when using grip jaws

Technical data

Clamping principle: **clamping against the fixed jaw**
 Operation: **mechanical** with a torque wrench
hydraulic with a power unit

SCT 80

Jaw width: 80 mm
 Clamping force: 25 kN at 60 Nm
 Clamping stroke: 59 mm
 Max. jaw opening: 165 mm

SCT 80 H

Jaw width: 80 mm
 Clamping force: 21 kN at 300 bar
 Clamping stroke: 4 mm
 Max. jaw opening: 165 mm

SCT 120

Jaw width: 120 mm
 Clamping force: 40 kN at 100 Nm
 Clamping stroke: 70 mm
 Max. jaw opening: 210 mm

Versions

Mechanically operated

The movable clamping jaw is displaced by a threaded spindle which is also used to build-up the clamping force.

A torque wrench is used for exact and reproducible clamping force adjustment.

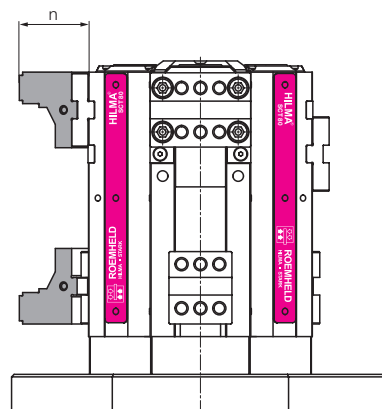
Hydraulically operated

Hydraulically operated versions are single acting. Clamping is effected by hydraulic pressure, unclamping by spring force.

*Important note

The specified clamping forces apply to a clamping height (n) of 30 mm.

For higher clamping heights, the clamping forces are reduced.



Application

SCT tower workholding systems are used on horizontal machining centres, in vertical machining in connection with 4th axis, but also on 5-axis machining centres.

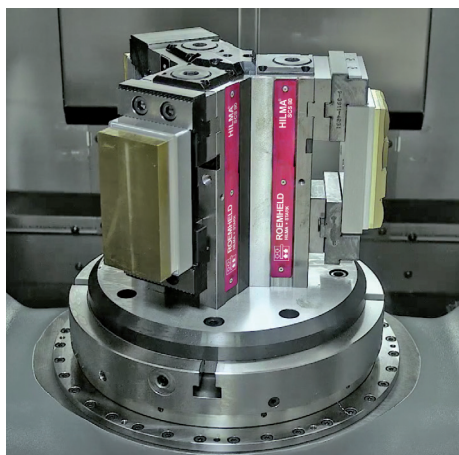
The applications range from manually equipped machines to pallet stations and fully automated systems.

The stability of the clamping systems and the high retention force due to the use of the special grip reversible jaw with hard metal coating make pre-embossing of the workpieces superfluous.

Accessories

- Clamping jaws, accessories for mounting, positioning and operation see data sheet WS 4.450Z

Application example



Description

Tower workholding systems of the SCT series excel by a very compact design. Thanks to the adjusting spindle arranged in the upper part of the housing, deformation in the base during clamping is reduced.

All essential components are made of steel.

For workholding systems SCT, a wide range of clamping jaws is available (see data sheet WS 4.550Z).

Customised versions

Tower workholding systems SCT can also be delivered as customised versions. For example in other lengths, with individual mounting holes or with holes for a zero point clamping system. Please contact us.

Consultation

Our experts will be pleased to advise you also on site, and work with you to find the optimum clamping solution.

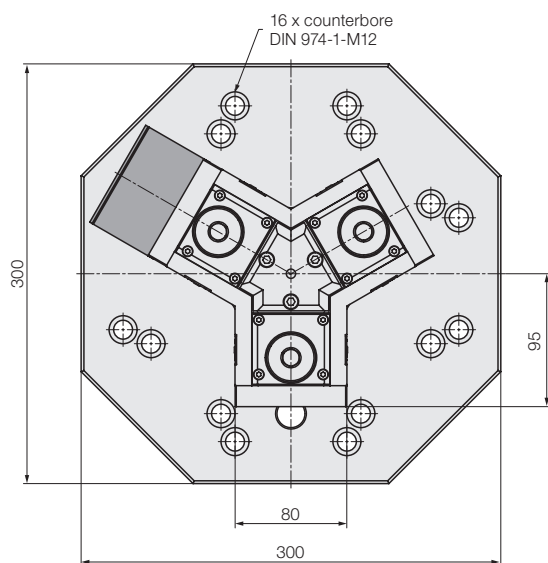
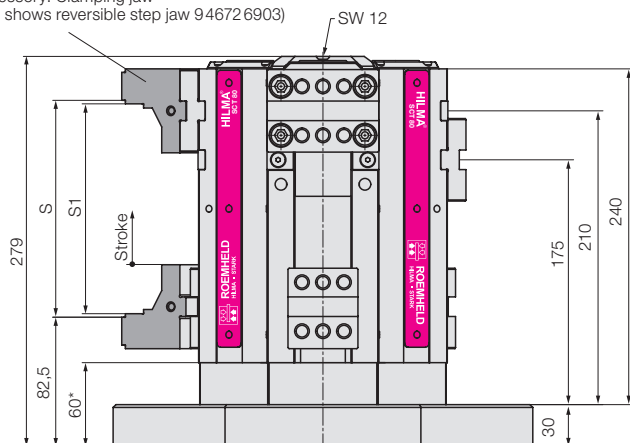
Extensive information such as drawings and CAD models are available on request.

SCT 80/3 mechanical

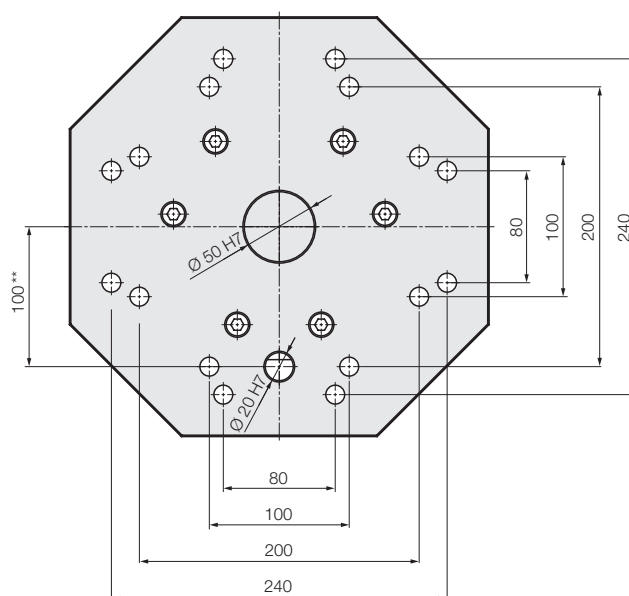
Technical data • Dimensions

Fixed jaw

Accessory: Clamping jaw
(Fig. shows reversible step jaw 94672 6903)



View from below



* Tolerance ± 0.01 mm
** Tolerance ± 0.02 mm
Dimensions in [mm]

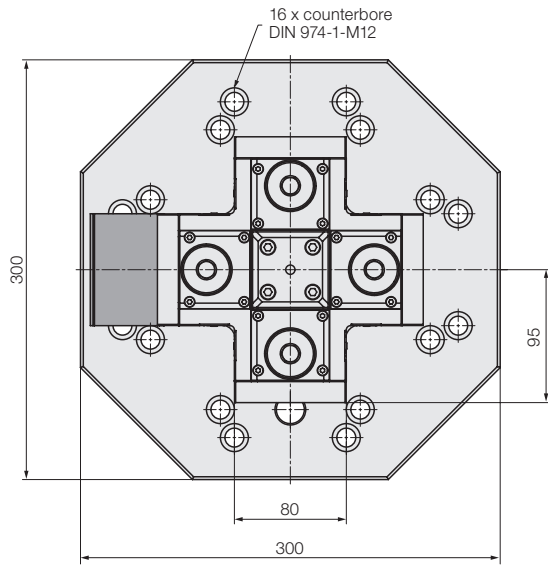
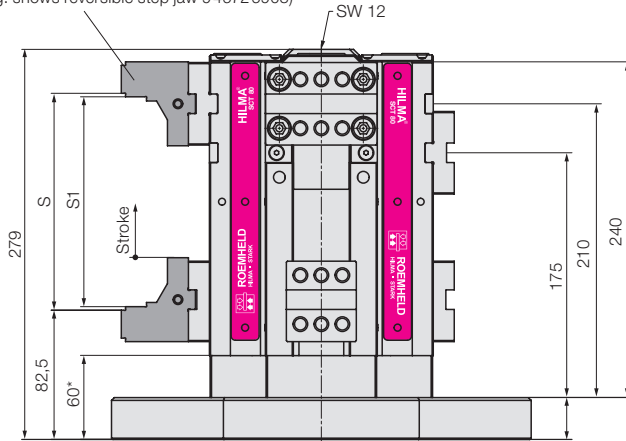
Series		SCT 80/3
Clamping principle		Fixed jaw
Clamping sides		3
Operation		mechanical
Clamping force / torque	[kN/Nm]	25 / 60
Repetitive clamping accuracy	[mm]	± 0.01
Stroke	[mm]	59
Clamping range S¹⁾	[mm]	6 – 165
Clamping range S1¹⁾	[mm]	71 – 160
Jaw width B	[mm]	80
Weight without clamping jaws	[kg]	41
Part no. without clamping jaws		955720201

¹⁾ depending on the used clamping jaw, see data sheet WS 4.550Z

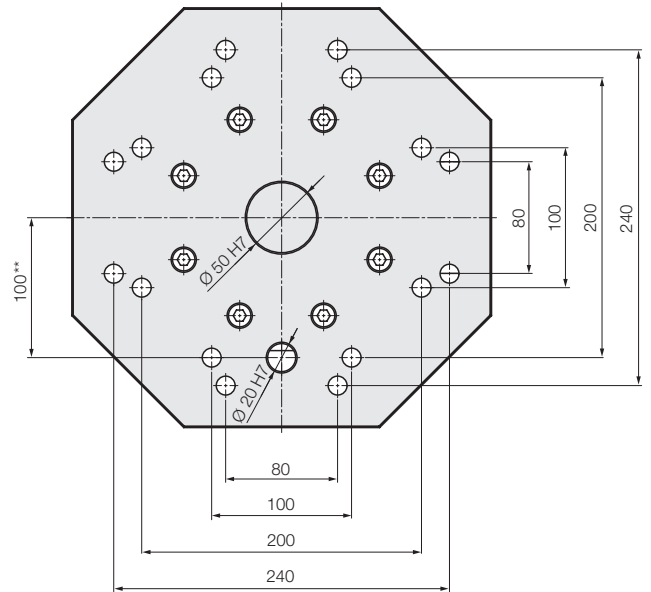
SCT 80/4 mechanical
Technical data • Dimensions

Fixed jaw

Accessory: Clamping jaw
 (Fig. shows reversible step jaw 946726903)



View from below



* Tolerance ±0.01 mm
 ** Tolerance ±0.02 mm
 Dimensions in [mm]

Series		SCT 80/4
Clamping principle		Fixed jaw
Clamping sides		4
Operation		mechanical
Clamping force / torque	[kN/Nm]	25/60
Repetitive clamping accuracy	[mm]	±0.01
Stroke	[mm]	59
Clamping range S¹⁾	[mm]	6 – 165
Clamping range S1¹⁾	[mm]	71 – 160
Jaw width B	[mm]	80
Weight without clamping jaws	[kg]	52
Part no. without clamping jaws		955720101

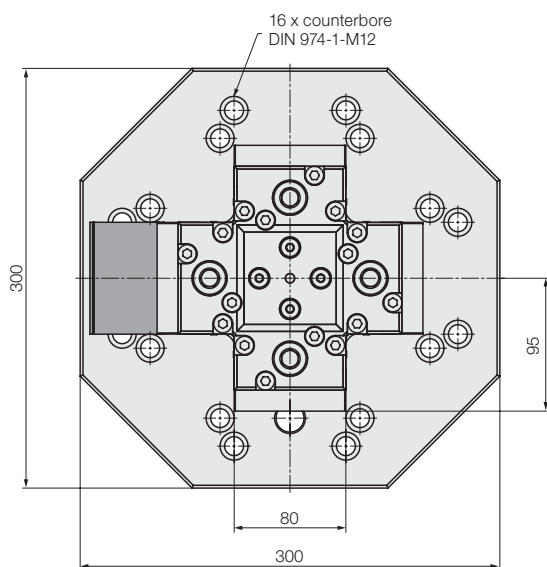
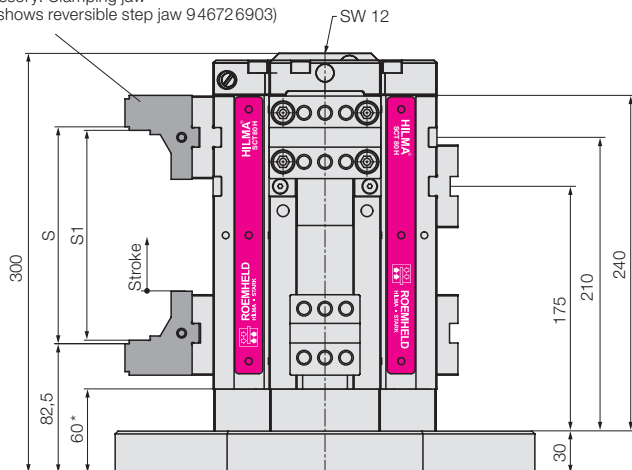
¹⁾ depending on the used clamping jaw, see data sheet WS 4.550Z

SCT 80/4 hydraulic

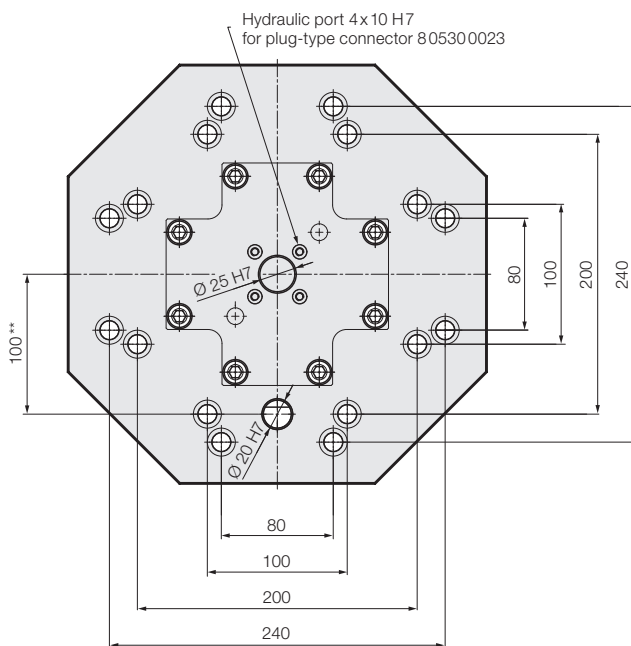
Technical data • Dimensions

Fixed jaw

Accessory: Clamping jaw
(Fig. shows reversible step jaw 946726903)



View from below



* Tolerance ± 0.01 mm
** Tolerance ± 0.02 mm
Dimensions in [mm]

Series	SCT 80/4 H
Clamping principle	Fixed jaw
Clamping sides	4
Operation	hydraulic
Clamping force / operating pressure [kN/bar]	21 / 300
Clamping stroke, hydraulic [mm]	4
Repetitive clamping accuracy [mm]	± 0.01
Stroke [mm]	55
Clamping range S¹⁾ [mm]	6 – 165
Clamping range S1¹⁾ [mm]	71 – 160
Jaw width B [mm]	80
Weight without clamping jaws [kg]	50
Part no. without clamping jaws	955820101

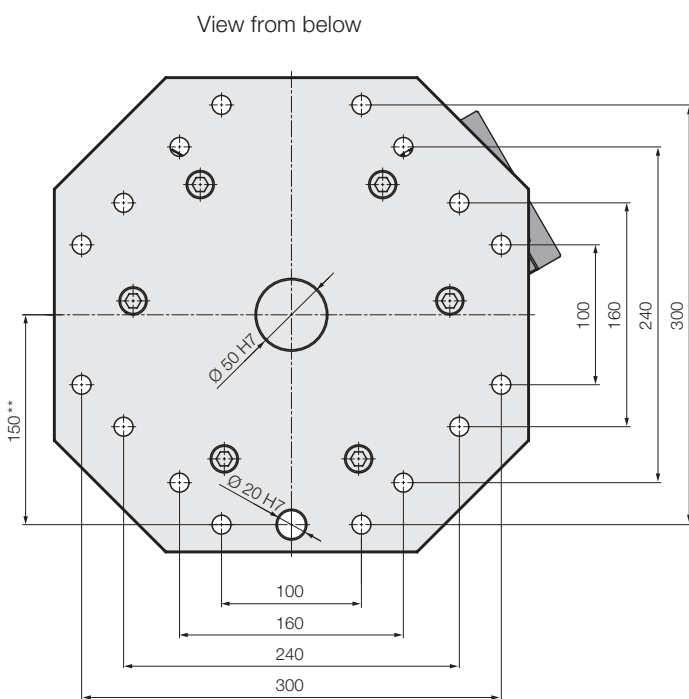
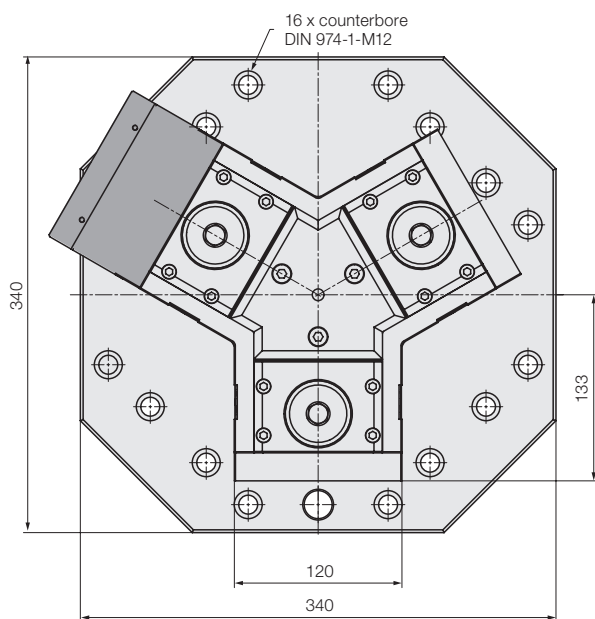
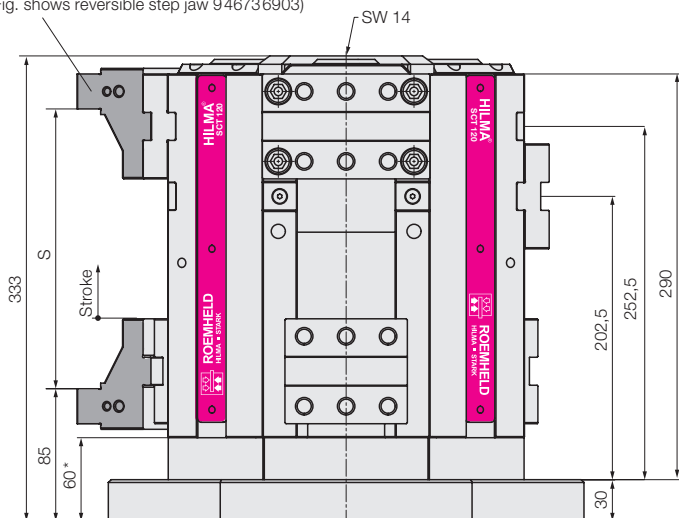
¹⁾ depending on the used clamping jaw, see data sheet WS 4.550Z

SCT 120/3 mechanical

Technical data • Dimensions

Fixed jaw

Accessory: Clamping jaw
(Fig. shows reversible step jaw 946736903)



* Tolerance ± 0.01 mm
** Tolerance ± 0.02 mm
Dimensions in [mm]

Series		SCT 120/3
Clamping principle		Fixed jaw
Clamping sides		3
Operation		mechanical
Clamping force / torque	[kN/Nm]	40/100
Repetitive clamping accuracy	[mm]	± 0.01
Stroke	[mm]	62
Clamping range S¹⁾	[mm]	9 – 210
Jaw width B	[mm]	120
Weight without clamping jaws	[kg]	100
Part no. without clamping jaws		955730201

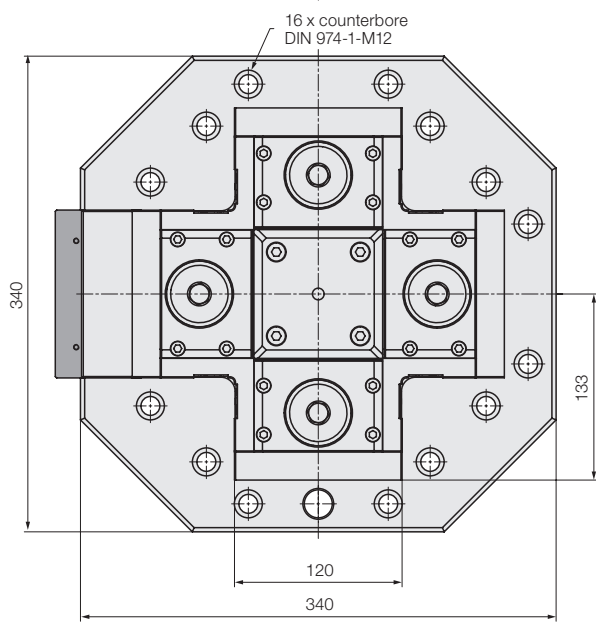
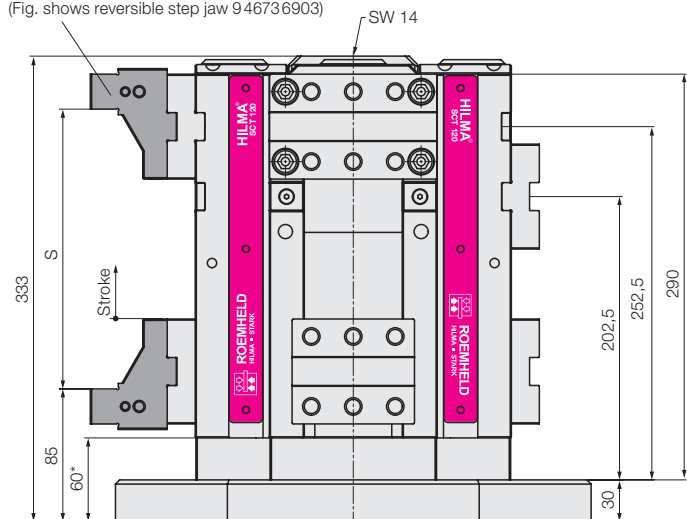
¹⁾ depending on the used clamping jaw, see data sheet WS 4.550Z

SCT 120/4 mechanical

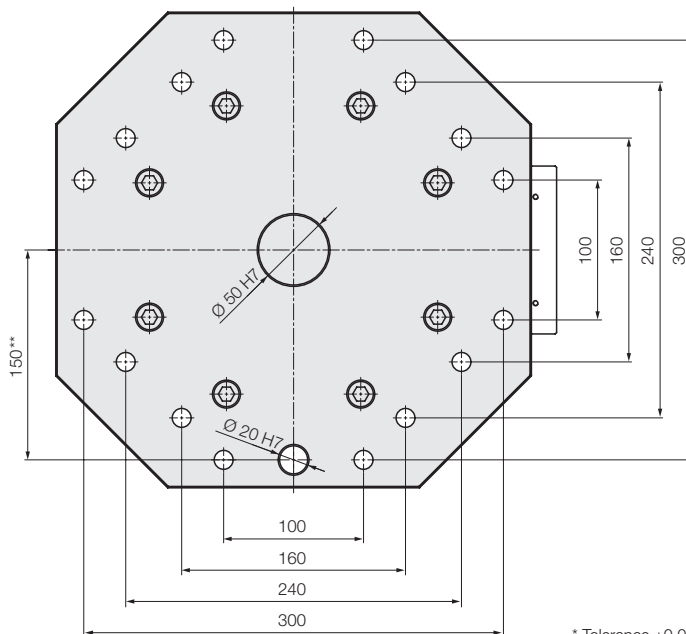
Technical data • Dimensions

Fixed jaw

Accessory: Clamping jaw
(Fig. shows reversible step jaw 946736903)



View from below



* Tolerance ± 0.01 mm
** Tolerance ± 0.02 mm
Dimensions in [mm]

Series		SCT 120/4
Clamping principle		Fixed jaw
Clamping sides		4
Operation		mechanical
Clamping force / torque	[kN/Nm]	40/ 100
Repetitive clamping accuracy	[mm]	± 0.01
Stroke	[mm]	62
Clamping range S¹⁾	[mm]	9 – 210
Jaw width B	[mm]	120
Weight without clamping jaws	[kg]	100
Part no. without clamping jaws		955730101

¹⁾ depending on the used clamping jaw, see data sheet WS 4.550Z