

# Compact-XY-Stages

## KT 205



### Technical Data



			KT 205-100-DC
Travel	[mm]		100 x 100
Accuracy	[ $\mu\text{m}$ ]		5
Repeatability	[ $\mu\text{m}$ ]		$\pm 1$
Relative deviation from straightness / flatness - over total length	[ $\mu\text{m}$ ]		$\pm 2$
Max. speed	[mm/s]		50
Max. acceleration	[mm/s <sup>2</sup> ]		100
Permissible loads	Fx	[N]	30
	Fy	[N]	30
	Fz	[N]	50
Weight	[kg]		5.0

Parameters refer to single axis measurement. For more information please see definitions on pages 98,99.

### Specifications

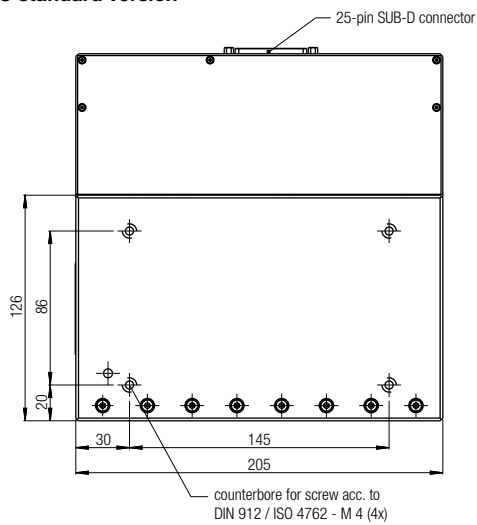
<ul style="list-style-type: none"> <li>■ <b>DC motor</b> Nominal voltage 24 V</li> </ul>	<ul style="list-style-type: none"> <li>■ <b>Travel limitation</b> 2 limit switches</li> </ul>
<ul style="list-style-type: none"> <li>■ <b>Precision recirculating ball screw</b> Screw diameter 8 mm Screw pitch 1 mm (2 mm)</li> </ul>	<ul style="list-style-type: none"> <li>■ <b>Cabling</b> 25-pin SUB-D connector; one plug for both axis</li> </ul>
<ul style="list-style-type: none"> <li>■ <b>Rotary encoder</b> Pulses per rotation 500</li> </ul>	<ul style="list-style-type: none"> <li>■ <b>Bearing</b> backlash-free preloaded cross roller bearings</li> <li>■ <b>Material</b> low distortion aluminum alloy, black anodized</li> </ul>

## Options

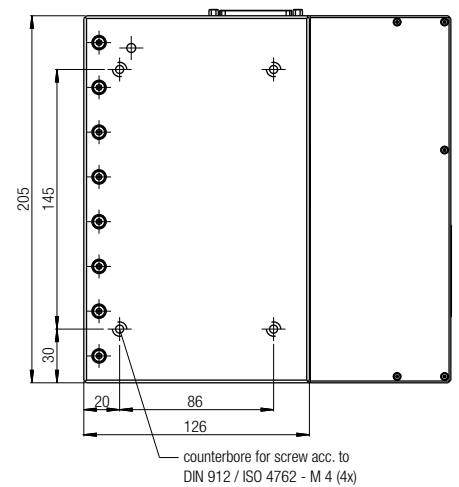
- Stepper motor
- Connector location
- Different mounting hole patterns

## Dimensions

### KT 205-DC standard version



slides in middle position



### KT 205-DC with adapter plates

