

Compact-XY-Stages

KDT 180-DC



Technical Data



KDT 180-60-DC		
Travel	[mm]	60 x 60
Accuracy	[μ m]	5
Repeatability	[μ m]	± 1
Backlash	[μ m]	1.5
Relative deviation from straightness / flatness		
- over 10 mm	[μ m]	± 0.5
- over total length	[μ m]	± 4
Max. speed	[mm/s]	5
Max. acceleration	[m/s ²]	0.1
Permissible loads	Fx [N] Fy [N] Fz [N]	30 30 50
Clear aperture	[mm]	90
Weight	[kg]	2.5

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

Specifications

<ul style="list-style-type: none"> ■ DC motor Nominal voltage 24 V Gear 11.8 : 1 ■ Recirculating precision ball screw Screw diameter 5 mm Screw pitch 1 mm ■ Rotary encoder Pulses per rotation 512 	<ul style="list-style-type: none"> ■ Travel limitation 2 limit switches (other on request) ■ Cabling 15-pin SUB-D connector ■ Bearing backlash-free preloaded cross roller bearings ■ Material low distortion aluminum alloy, black anodized
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Options

- Connector location
- Stepper motor

Dimensions

KDT 180-60-DC

slide in middle position

Top view
(identically with bottom view)

