piezosystemjena
incredibly precise

fast scanners series PXY 15 CDT

- **motion in x- and y-direction 15 µm**
- **high resonant frequency**
- **high stiffness**
- **minimum z-motion**
- **free central hole 43 mm**

The PXY 15 CDT elements were developed for optical scanning applications. This system is optimized for a very high resonant frequency and an excellent high stiffness in all axes. This stage was designed especially for mounting optical lenses. The internal pre-load and the design without mechanical transmission make this actuator well suited for high frequency applications up to the kilohertz range.

applications:

- ray- / beam deflection
- scanning systems with highest z-stiffness and resonant frequency

technical data:

OEM systems art. no.:		**unit**	**PXY 15 CDT** S-642-00
motion(±10%)** in x and y direction		µm	15
operation voltage		V	-10 to +150
resolution*		nm	0.03
resonant frequency	x axis	kHz	2.8
	y axis	kHz	3
capacitance (±20%)***		µF	0.8
cable length		cm	9
dimensions	length L	mm	74
	width B	mm	74
	height H	mm	16
material		-	stainless steel
weight		g	211
response time****	τ (10-90)%	ms	1,4
	τ (10-90)%	ms	1,7

* measured with E-103-18 amplifier
** typical value measured with –10V to 150V
*** typical value for small electrical field strength
**** measured with E-103-30 amplifier