



### SMARPOD 70.42

The SMARPOD 70.42 is SmarAct's smallest hexapod-like positioning system with a base plate diameter of only 70 mm. Despite its overall compactness it is a robust and precise system that can handle payloads of up to 5 N to be positioned with a centimeter travel range in X and Y.

It is also available in a high vacuum and ultra-high vacuum compatible version and can be built from fully non-magnetic materials. Despite its small size the miniaturized SMARPOD 70.42 is able to handle payloads of up to 5 N.

	Mechanical
Travel [mm]	10 (X); 10 (Y); 5 (Z)
Travel [°]	14 (Θx); 16 (Θy); 28 (Θz)
Max. Normal Force [N]	5
Max. Horizontal Force [N]	2.5
Dimensions [mm]	Ø 70
Height of Platform above Ground [mm]	42
Weight [g]	300
	Closed-Loop
Sensor Types	S; SC
Smallest Increment [nm]	1
Smallest Increment [μrad]	1
Closed-Loop Repeatability [nm]	< ±200 (Full Travel Range); < ±15 (1mm Linear Travel)
Closed-Loop Repeatability [μrad]	< ±10
	Options
Vacuum Options	HV (1E-6 mbar); UHV / UHVT (1E-11 mbar)
Non-Magnetic Option	Yes (-NM)