

Multimode-compatible small-cantilever head commercial parts list

Vendor	Part number	Part description	Quantity per head	Comment
Thorlabs	148-205ST	6.5 mm travel micrometer head, spherical tip	2	
	F3SSK1	Removable Adjuster Knob, M3-0.25	2	
	F3SS25	Fine Hex Adjuster, M3-0.25, 25 mm Long	2	
	F3ESN1P	Threaded Bushing, Phosphor Bronze, M3-0.25, 5 mm Long	1	
	F3ES25	Fine Hex Adjuster, M3-0.20, 25 mm Long	1	
	F3ESK1	Removable Adjuster Knob, M3-0.20	1	
	F25SSN2P	1/4"-80 Threaded Bushing, Phosphor Bronze, 0.57" Long	2	
	DAS110	Miniature Differential Adjuster	2	
	A390-A	f=4.6 mm, NA=0.53, Unmounted Rochester Aspheric Lens, AR: 350-700 nm	2	
	MRA05-P01	Right Angle Prism Mirror, Protected Silver, L = 5 mm	1	
	HL6501MG	658 nm, 30 mW, Ø5.6 mm, C Pin Code, Hitachi Laser Diode	1	
Mouser Electronics	534-25503	Standoff Hex M3 Thread Nylon 15MM	3	thread too long for tapped hole; cut length in half with knife
	968-EL6204CWZ-T7A	Laser Driver Oscillator	1	
	718-QP5.8-6-TO5	Quadrant photodiode 4X1.44mm ² , TO5 package	1	
Edmund Optics	NT43-783	9 mm diameter unmounted linear glass polarizing filter	1	
	NT43-366	10 mm diameter sapphire window, uncoated	2	
Gutekunst Federn	RZ-051LI	Extension spring, 4 mm diameter, 10,7 mm unstretched length	2	For translation stage
	D-030	Compression spring, 4 mm diameter, 19.2 mm uncompressed length	2	For PD housing vertical motion
	D-026R-13	Compression spring, 2.9 mm diameter, 17.5 mm uncompressed length	1	For PD housing horizontal motion
	VD-085H	Compression spring, 2.7 mm diameter, 24 mm uncompressed length	1	For translation stage
	VD-057C	Compression spring, 2.8 mm diameter, 15 mm uncompressed length	2	For translation stage
supermagnete.ch	K-03-C	Sphere magnet NdFeB, 3 mm diameter, N42 Chrome plated	3	
	S-05-03-N	Disc magnet NdFeB, 5 mm diameter, 3 mm thickness, N42 Chrome plated	7	
Digikey	ISL5002IBZ-T7CT-ND	IC OPAMP 200MHZ UNITY-GAIN 8SOIC	2	
	HFB108CT-ND	CONN FPC/FFC 8POS 1MM HORIZ SMD	2	
	REF102AU-ND	IC +10V precise voltage reference, 8-SOIC	1	
	497-7300-1-ND	IC voltage regulator, -12V, 8-SOIC	1	
	LM78L12ACM-ND	IC voltage regulator, +12V, 8-SOIC	1	
Preci-dip	811-SS-006-30-08101	6 pin spring loaded connector, surface mount	1	distributed by RS components and others
General mechanical components		M2 x 3 set screw	3	preferably black colour
		M2 x 6 countersunk cross-head screw	2	preferably black colour
		M2 x 8 socket head cap screw	4	preferably black colour
		M2 x 10 socket head cap screw	2	preferably black colour
		M3 x 5 cross-head pan screw	3	preferably black colour
		M3 x 5 socket head cap screw	4	preferably black colour
		M3 x 10 countersunk hex head screw	5	preferably black colour
		M3 x 30 countersunk hex head screw	4	preferably black colour
		M3 ball-tip set screw	2	available from SDP/SI
		M2 washers	2	
		M3 washers	2	
		Steel ball 2 mm diameter	3	
		Steel ball 3 mm diameter	5	
	Steel ball 1/8" diameter	3		