

Wave Front Sensor Assembly - Motion Control Summary - 9/12/02

Axis	Travel Range Available	Travel Rate	Component	Additional Information	Manufacturer	Part Number	Qty
M1 Mirror Tilt Axis	+/- 12 mm	2 mm / sec					1
			Stage / Ballscrew	6mm lead	THK	KR3306C+124LP-1600	1
			Motor	8 oz-in continuous 16 oz-in peak	Kollmorgen	RBEH-00712-A00	1
			Hall Sensor	Travel Limits	Phoenix America	P3500	2
			Hall Sensor	Home	Phoenix America	P3500	1
			Rotary Encoder		Encoder Products Co.	755A-01-S-1000-R-OC-1-SSN	1
			Brake				1
Focus Axis	+/- 57 mm	10 mm / sec					1
			Stage / Ballscrew	6mm lead	THK	KR3306C+196LP-1600	1
			Motor	20 oz-in continuous 32 oz-in peak	Kollmorgen	RBEH-00714-A00	1
			Hall Sensor	Travel Limits - Normally Closed	Phoenix America	P3500	2
			Hall Sensor	Home - Normally Open	Phoenix America	P3500	1
			Linear Encoder		Renishaw	RGH24Z	1
			Brake		Warner Electric	ERS-26, 90VDC	1
Camera Selection Axis	+/- 81 mm	25 mm / sec					1
			Stage / Ballscrew	6mm lead	THK	KR3306A+269LP-1600	
			Motor	24 oz-in continuous 48 oz-in peak	Kollmorgen	RBEH-00714-A00	1
			Hall Sensor	Travel Limits - Normally Closed	Phoenix America	P3500	2
			Hall Sensor	Home - Normally Open	Phoenix America	P3500	1
			Linear Encoder		Renishaw	RGH24Z	1
			Brake		Warner Electric	ERS-26, 90VDC	1
Field Translation Axis	+ 490 mm / - 343 mm	50 mm / sec					
			Stage / Ballscrew	10mm lead	THK / NSK		
			Motor	175 oz-in continuous 200 oz-in peak	Kollmorgen	MT304B1-E2D2 - Goldline XT	1
			Hall Sensor	Travel Limits	Phoenix America	P3500	2
			Linear Encoder	w/ Reference Indicator	RSF	MSA-2216	1
			Brake		INTEGRAL with Kollmorgen Motor		1