

# Standard and Hex Class Deformable Mirror Specifications

## Standard Deformable Mirrors

DM Model	Total Actuator Count	Actuator Count Across Aperture	Stroke (µm)	Aperture (mm)	Pitch (µm)	Mechanical Response (10% - 90%) (µs)			Approximate Interactuator Coupling
						Single Actuator	Defocus Rise	Defocus Fall	
Multi-C-1.5	137	13	1.5	3.60	300	<40	40	120	15%
Multi-C-1.5-L	137	13	1.5	4.80	400	<75	150	170	15%
Multi-3.5	140	12	3.5	4.40	400	<75	150	170	13%
Multi-3.5-L	140	12	3.5	4.95	450	<100	450	650	13%
Multi-5.5	140	12	5.5	4.95	450	<100	450	650	22%
Multi-C-5.5	137	13	5.5	5.85	450	<100	450	650	22%
276-1.5	276	18	1.5	5.10	300	<40	40	120	15%
276-3.5	276	18	3.5	6.80	400	<75	150	170	13%
276-5.5	276	18	5.5	7.65	450	<100	450	650	22%
492-1.5	492	24	1.5	6.90	300	<40	40	120	15%
492-3.5	492	24	3.5	9.20	400	<75	150	170	13%
492-5.5	492	24	5.5	10.35	450	<100	450	650	22%
648-5.5	648	28	5.5	12.15	450	<100	450	650	22%
Kilo-C-1.5	952	34	1.5	9.90	300	<40	40	120	15%
Kilo-C-3.5	952	34	3.5	13.20	400	<75	150	170	13%
2K-1.5	2040	50	1.5	19.60	400	<40	40	120	15%
2K-3.5	2040	50	3.5	19.60	400	<75	150	170	15%
4K-3.5	4092	64	3.5	25.20	400	<100	150	170	13%

## Hex-Class Deformable Mirrors

DM Model	Total Actuator Count	Hexagonal Segment Count	Stroke (µm)	Circular Aperture (mm)	Pitch (µm)	Mechanical Response (10% - 90%) (µs)	Approx. Interactuator Coupling (%)
Hex-111	111	37	3.5	3.60	375	<40	13%
Hex-507	507	169	3.5	7.20			
Hex-1011	1011	337	3.5	9.90			
Hex-3K	3066	1022	3.5	21.2			