

SUS Type	Iso. Stage Name	Sensor Type	Actuator Type	Driver Type	N Actuators (Arrangement)	N BIO Bits / COIL	CTRL Needs	Magnet Size (Diam x Thick) [mm]	Driver DC Strength [mA / V]	Force Coefficient [N / A]
QUAD	M0	B	B	QTOP	6 (F)	2	ISC, DAMP	10 x 10	9.9	1.694
	R0	B	B	QTOP	6 (F)	2	DAMP	10 x 10	9.9	1.694
	L1	B	B	UIM (UIM*)	4	4	ISC	10 x 10	0.15 (0.62)	1.694
	L2	A	A	PUM	4	4	ISC	2 x 6	0.26	0.0309
	L3	OL	ESD	ESD	4	-	ISC	-	-	$I=7.5e-12^{**}$ $E=4.2e-10^{**}$
BSFM	M1	B	B	TTOP	6 (F)	2	ISC, DAMP	10 x 10	11.9	1.694
	M2	B	B	TACQ	4	3	ISC	10 x 5	0.33	0.963
	M3	OL	-	-	-	-	-	-	-	-
HLTS	M1	B	B	TTOP	6 (T)	2	ISC, DAMP	10 x 10	11.9	1.694
	M2	A	A	TACQ	4	3	ISC	1.9 x 3.2	0.33	0.0158
	M3	A + OL	A	TACQ	4	3	ISC	2 x 0.5	0.33	0.00281
HSTS	M1	B	B	TTOP	6 (T)	2	ISC, DAMP	10 x 5	11.9	0.963
	M2	A	A	TACQ (TACQ***)	4	3	ISC	1.9 x 3.2	0.33 (2.8)	0.0158
	M3	A	A	TACQ (TACQ***)	4	3	ISC	2 x 0.5	0.33 (2.8)	0.00281
OMCS	M1	B	B	OTOP	6 (T)	2	ISC, DAMP	10 x 10	0.2	1.694
	M2	-	-	-	-	-	-	-	-	-
TMTS	M1	B	B	MTOP	6 (F)	2	ISC, DAMP	10 x 10	11.9	1.694
	M2	-	-	-	-	-	-	-	-	-
HAUX	-	A	A, ECD	HAMA	4	2	DAMP	1.9 x 3.2	0.998	0.0158
HTTS	-	B	B, ECD	HAMA	4	2	ISC, DAMP	2 x 3	0.988	0.021
OFIS	-	-	ECD	-	-	-	DAMP	-	-	-

AOSEM	BOSEM
R_{coil} 19.8	42.7 [Ohm]
L_{coil} 3.2	11.9 [mH]
N_{turns} 400	800

Sensors
B = B OSEM
A = A OSEM
OL = Optical Lever

Actuators
B = B OSEM,
A = A OSEM
ESD = Electrostatic Drive
ECD = Eddy Current Damping

Every A or B OSEM is read out using a UK Satellite Amplifier, D0901284
except HTTS BOSEMs, which are read out by US Sat. Amp, D1002818

Every A or B OSEM is normalized to have a sensitivity of 76.29 / 0.7 [mA/mm]

Driver Types

QTOP = Quad Top Mass Coil Driver, D1001782
TTOP = Triple Top Mass Coil Driver, D1001242
OTOP = OMC Top Mass Coil Driver, D1100304
MTOP = TransMon Top Mass Coil Driver, D1100301
UIM = Upper Intermediate Mass Coil Driver, D070481
UIM* = Modified Upper Int. Mass Coil Driver, T1400223
PUM = Penultimate Mass Coil Driver, D070483
ESD = Electrostatic Driver, T1000220
TACQ = Triple Acquisition Coil Driver, D0901047
TACQ*** = Modified Triple Acq. Coil Driver, E1200931
HAMA = HAM Auxiliary Coil Driver, T1200264

OSEM Arrangements

(F) = F1 F2 F3 LF RT SD
(T) = T1 T2 T3 LF RT SD
QUAD = E1000617
BSFM = E1100108
HSTS = E1100109
HLTS = E1100109
OMCS = E1100109
TMTS = E1200045
HAUX = E1200215

System Signal Paths

(Design Decription)
QUAD = T1100378
BSFM = T1100479
HSTS = T1000061
HLTS = T1000061
OMCS = T1300535
TMTS = T1300537
HTTS = T1400030
HAUX = T1400029

**ESD Force Coefficients are in [N/V²]