

FIGARO HORIZONTAL GEOMETRY v01 – 30/05/09

Component	Length / Gap	Start Distance	Centre Distance	End Distance
A. Reactor Guide Exit (Position 0)	(0)	(0)	0	(0)
	20	0	10	20
B. FIGARO Feed Guide	2754	20	1397	2774
	63	2774	2805.5	2837
C. Frame Overlap Mirror (FOM)	900	2837	3287	3737
	81	3737	3777.5	3818
D. Chopper Guide 1	150	3818	3893	3968
	116	3968	4026	4084
E. Chopper Guide 2	234	4084	4201	4318
	19	4318	4327.5	4337
F. Chopper Guide 3	434	4337	4554	4771
	87	4771	4814.5	4858
G. Lead Diaphragm (BGS1)	82	4858	4899	4940
	49	4940	4964.5	4989
H. Deflector Mirror (M1)	1450	4989	5714	6439
	43	6439	6460.5	6482
I. Deflector Mirror (M2)	803	6482	6883.5	7285
	63	7285	7317.5	7350
J. Precision Slit (S2)	4	7350	7352	7354
	38	7354	7372	7390
K. Collimation Guide (COH)	1876	7390	8328	9266
	62	9266	9297	9328
L. Lead Diaphragm (BGS3)	104	9328	9380	9432
	79	9432	9471.5	9511
M. Precision Slit (S3)	4	9515	9517	9519
	366	9519	9702	9885
N. Sample Centre	(0)	(9885)	9885	(9885)
	2854	9885	11312	12739
O. Detector Centre	(0)	(12739)	12739	(12739)

M1 Motor Geometry	
Guide Portion	Length
a	95
b	1250
c	105

M2 Motor Geometry	
Guide Portion	Length
d	56
e	585
f	162

COH Motor Geometry	
Guide Portion	Length
g	200
h	1450
i	226

(S2-S3 distance = 2165 mm / s2-sample distance = 2533 mm / s3-sample distance = 368 mm)

