

CERN name (MTF) HCTCLP_001-CQ000406
 CERCA name TCLP_007
 MADX name TCL.4R5.B1

ID
 Angle 0.0
 Material CU
 Length 1.0
 Beam B1
 Family TCLP
 IP IP5

BLMI BLMEI.04R5.B1E10_TCL.4R5.B1
 BLMS BLMES.04R5.B1E10_TCL.4R5.B1

Jaw corner notation

LEFT UP	C
LEFT DOWN	A
RIGHT UP	D
RIGHT DOWN	B

AXIS_A	1
AXIS_B	1
AXIS_C	1
AXIS_D	1
AXIS_E	0

AXIS_LEFT_UP	1
AXIS_LEFT_DOWN	1
AXIS_RIGHT_UP	1
AXIS_RITGH_DOWN	1
AXIS_TANK	0

Mechanical STOPS

	OUT	IN
LEFT UP	-29.98106004	6.011267516
LEFT DOWN	-29.99007486	6.013326008
RIGHT UP	30.01316908	-6.035192779
RIGHT DOWN	30.01036135	-6.033233687
ANTI - UP	0.38100777	
ANTI - DOWN	0.37795732	

Measurements in the metrology frame:

	OUT	IN
A	-29.99007486	6.013326008
B	30.01036135	-6.033233687
C	-29.98106004	6.011267516
D	30.01316908	-6.035192779

Mechanical stops

Max gap	AB	60.00043621
	CD	59.99422911
Min gap	AB	0.37795732
	CD	0.38100777

Switches

	OUT	IN
LEFT UP	-29.65106004	5.681267516
LEFT DOWN	-29.67007486	5.673326008
RIGHT UP	29.69316908	-5.695192779
RIGHT DOWN	29.71036135	-5.663233687
ANTI - UP	0.50100777	
ANTI - DOWN	0.47795732	

Switches

	OUT	IN
A	-29.67007486	5.673326008
B	29.71036135	-5.663233687
C	-29.65106004	5.681267516
D	29.69316908	-5.695192779

Switches

Max gap	AB	59.3804362
	CD	59.3442291
Min gap	AB	0.47795732
	CD	0.50100777

Maximum flatness error

Left	0.039407344
Right	-0.019113451

Maximum flatness error (mm)

AC	0.039407344
BD	-0.019113451

Mechanical plays

Left UP	0.014
Left DOWN	0.018
Right UP	0.005
Right DOWN	0.006

Mechanical plays

A	0.018
B	0.006
C	0.014
D	0.005

Auto-retraction

Left UP	0.015
Left DOWN	0.008
Right UP	0.017
Right DOWN	3.205

Auto-retraction

A	0.008
B	3.205
C	0.015
D	0.017

Maximum tilt angle

Left Plus	3.58
Left Minus	3.55
Right Plus	3.70
Right Minus	3.60

Maximum tilt angle

AC Plus	3.58
AC Minus	3.55
BD Plus	3.70
BD Minus	3.60

Transverse tank position

Stop UP	
Switch UP	
Set point	
Switch DOWN	
Stop DOWN	

Detailed flatness data

Left jaw on mech. Stop IN

Long. Pos. [cm]	z = -20mm	z = 0 mm	z = +20mm
270	6.021087325	6.013326008	5.997269838
425	6.026393126	6.015365769	6.013486383
580	6.029316472	6.028263995	6.014212002
735	6.054541482	6.050674859	6.025207925
890	6.022303921	6.022746377	6.002078022
1045	6.024006101	6.013435873	5.997271748
1200	6.023813421	6.011267516	6.006284658

Detailed flatness - Jaw AC on mech. Stop IN

Long. Pos. [mm]	z = -20mm	z = 0 mm	z = +20mm
270	6.021087325	6.013326008	5.997269838
425	6.026393126	6.015365769	6.013486383
580	6.029316472	6.028263995	6.014212002
735	6.054541482	6.050674859	6.025207925
890	6.022303921	6.022746377	6.002078022
1045	6.024006101	6.013435873	5.997271748
1200	6.023813421	6.011267516	6.006284658

Detailed flatness data

Right jaw on mech. Stop IN

Long. Pos. [cm]	z = -20mm	z = 0 mm	z = +20mm
270	-6.031842302	-6.033233687	-6.052173334
425	-6.039822491	-6.039842004	-6.051222229
580	-6.039988046	-6.048304754	-6.057196241
735	-6.01374431	-6.031971645	-6.027811825
890	-6.030017325	-6.045112025	-6.059922676
1045	-6.051877362	-6.051085096	-6.067618275
1200	-6.037207252	-6.035192779	-6.045285349

Detailed flatness - Jaw BD on mech. Stop IN

Long. Pos. [cm]	z = -20mm	z = 0 mm	z = +20mm
270	-6.03184230	-6.03323369	-6.05217333
425	-6.03982249	-6.03984200	-6.05122229
580	-6.03998805	-6.04830475	-6.05719624
735	-6.01374431	-6.03197164	-6.02781183
890	-6.03001732	-6.04511202	-6.05992268
1045	-6.05187736	-6.05108510	-6.06761827
1200	-6.03720725	-6.03519278	-6.04528535

Screw Serial Number

LEFT UP	8092495-20
LEFT DOWN	8092495-13
RIGHT UP	8092495-79
RIGHT DOWN	8092495-38

Screw S N

A	8092495-13
B	8092495-38
C	8092495-20
D	8092495-79