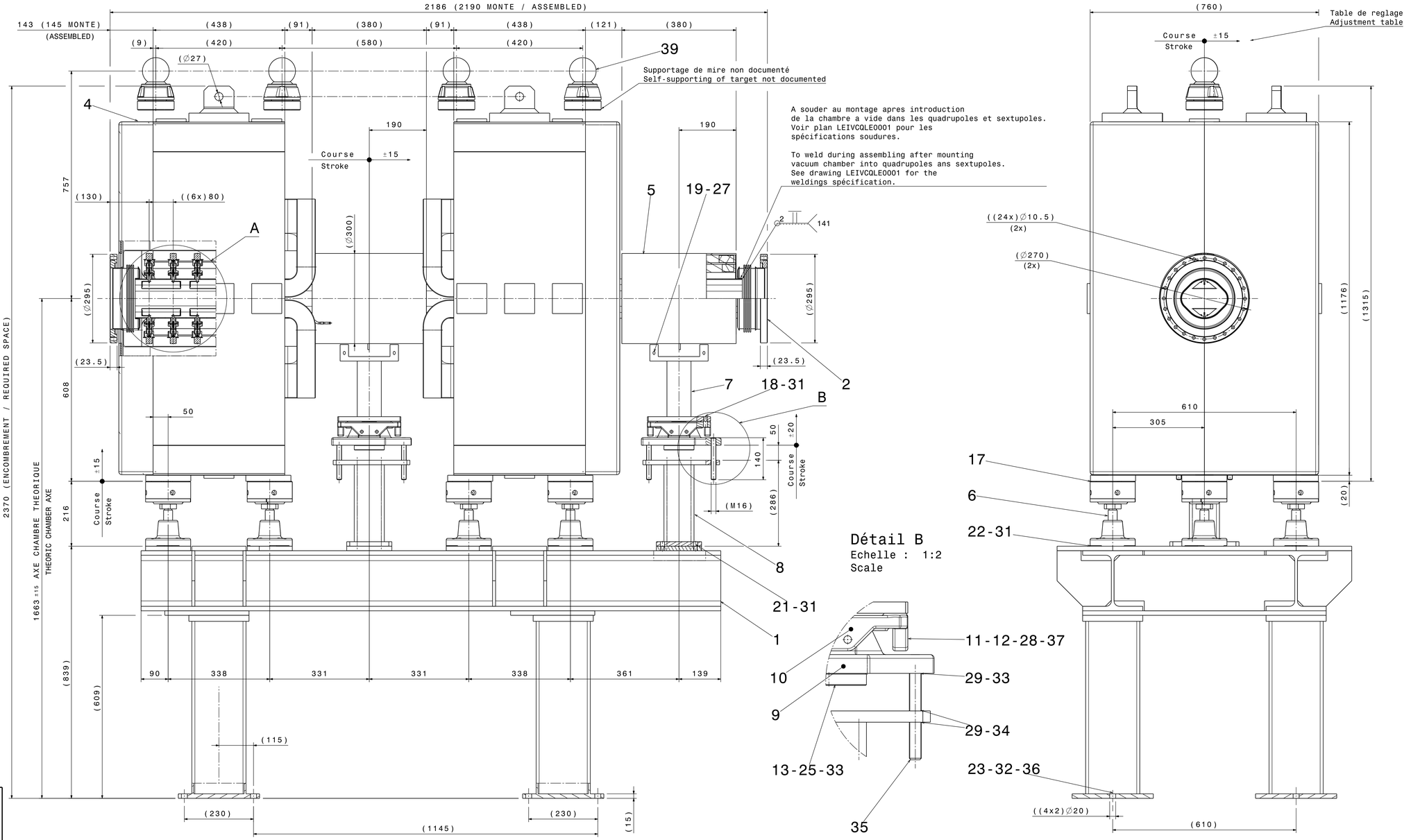
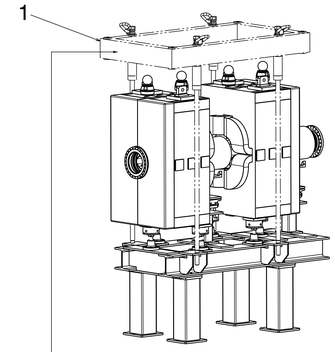
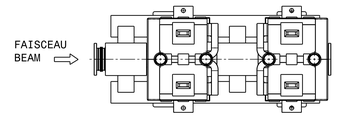
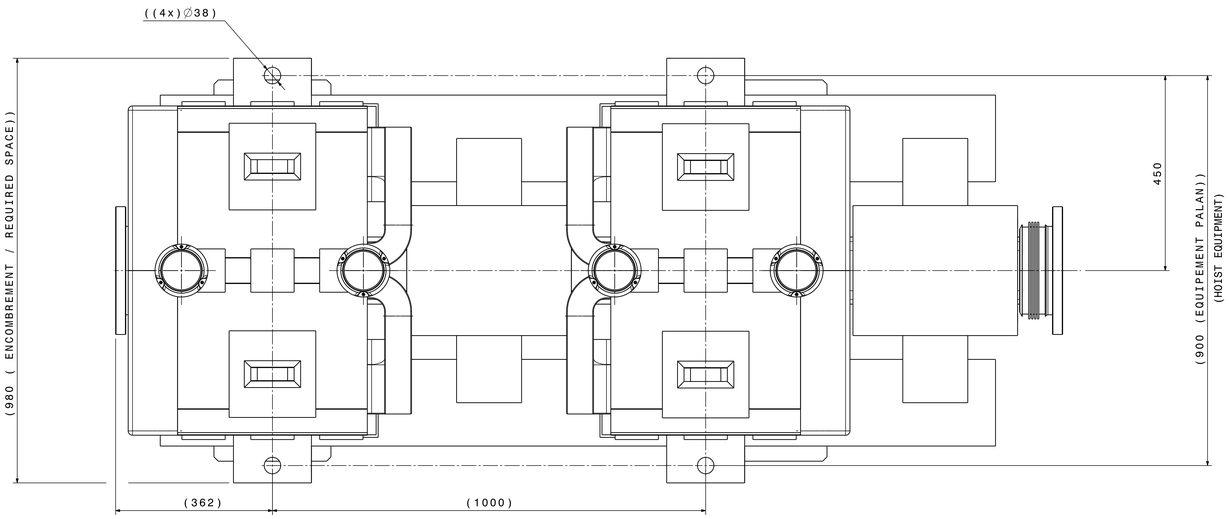




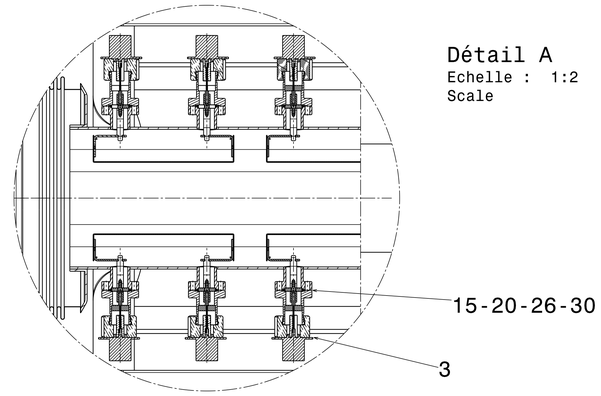
Equipement palan à demonter apres
la mise en place du stack de quadrupoles

Hoist equipment to dismantle after the
installation of the quadrupoles stack





Détail B
Echelle : 1:2
Scale



Détail A
Echelle : 1:2
Scale

Torque Screw A4-70 for general mechanical assembly Serrage pour du A4-70 a sec (coeff. frottement μ=0.2)									
Thread	M3	M4	M5	M6	M8	M10	M12	M14	M16
Couple de serrage Tightening torque Nm	1.1	2.6	5.1	8.8	21.4	44	74	119	183

QUANT	DESCRIPTION	POS	MAT.	OBSERVATIONS	REF.CERN
	ENS/ASS		S.ENS/S.ASS		
4	TARGET MIRE	39		LHCGIMSA0002	
		38			
10	RECT.HARD.ST.ELAST.PIN 2x16 GOUP.ELAST.AC.TREM.RECT. 2x16	37	STEEL ACIER		47.74.92 216.8
8	METALLIC PLUG CHEVILLE METALLIQUE	36	STEEL ACIER		47.86.27 282.4
6	THREADED ROD M16 TIGE FILETEE M16	35	STEEL ACIER	RATE 140mm DEBIT 140mm	47.36.77 160.3
12	SPHERICAL WASHER M16 RONDELLE SPHERIQUE M16	34	HARD. STEEL ACIER DUR		47.78.12 816.6
8	PLAIN WASHER M16 RONDELLE PLATE M16	33	ST. STEEL AC. INOX		47.78.15 016.8
8	PLAIN WASHER LARGE M12 RONDELLE PLATE LARGE M12	32	STEEL ACIER	STANDARD INDUSTRY	
40	PLAIN WASHER M12 RONDELLE PLATE M12	31	ST. STEEL AC. INOX		47.78.15 012.2
144	PLAIN WASHER M4 RONDELLE PLATE M4	30	ST. STEEL A4 AC. INOX A4		47.78.15 108.5
18	HEXAGONAL NUT M16 ECROU HEXAGONAL M16	29	ST. STEEL AC. INOX		47.43.77 160.4
10	HEXAGONAL NUT M12 ECROU HEXAGONAL M12	28	ST. STEEL AC. INOX		47.43.77 120.2
8	HEXAGONAL NUT M8 ECROU HEXAGONAL M8	27	ST. STEEL AC. INOX		47.43.77 080.3
72	HEXAGONAL NUTS M4 ECROU HEXAGONAL M4	26	ST. STEEL A4 AC. INOX A4		47.43.78 104.8
2	HEXAGONAL HEAD SCREW M16x90 VIS A TETE HEXAGONALE M16x90	25	ST. STEEL AC. INOX		47.62.82 540.3
		24			
8	HEXAGONAL HEAD SCREW M12x50 VIS A TETE HEXAGONALE M12x50	23	STEEL ACIER		47.62.81 415.1
24	HEXAGONAL HEAD SCREW M12x45 VIS A TETE HEXAGONALE M12x45	22	ST. STEEL AC. INOX		47.62.82 414.8
8	HEXAGONAL HEAD SCREW M12x30 VIS A TETE HEXAGONALE M12x30	21	ST. STEEL AC. INOX		47.62.82 411.1
72	HEXAGONAL HEAD SCREW M4x20 VIS A TETE HEXAGONALE M4x20	20	ST. STEEL A4 AC. INOX A4		47.62.83 004.8
8	HC SCREW M8x40 VIS HC M8x40	19	STEEL ACIER	BOSSARD BN617	
8	SOCKET HEAD SCREW M12x35 VIS CHC M12x35	18	ST. STEEL AC. INOX		47.62.71 412.9
24	SOCKET HEAD SCREW M10x70 VIS CHC M10x70	17	ST. STEEL AC. INOX		47.62.71 369.5
		16			
12	SEAL METAL FOR UHV FLANGE DN 16 JOINT METAL. POUR BRIDE UHV DN 16	15	CuOFS 0,1 AG CuOFS 0,1 AG		18.60.55 840.8
		14			
2	SPECIAL WASHER RONDELLE SPECIALE	13	ANTICO	E76.1068.4	
10	DRIP CUP CUVETTE	12	ST. STEEL AC. INOX	ISR 244,466.4	
10	SCREW HM12 MACHINED VIS HM12 USINEE	11	ST. STEEL AC. INOX	ISR 244,373.4	
2	ADJUSTMENT BASE BASE DE REGLAGE	10		ISR 244,464.1C	
2	BASIC SHEET PLAQUE DE BASE	9		ISR 244,463.1	
2	FOOT FOR CRADLE PIED POUR BERCEAU	8		E76.1027	
2	CRADLE BERCEAU	7		E76.1026	
6	JACK 5T VERIN 5T	6		E76.1006	
2	SEXTUPOLE SEXTUPOLE	5		E20.1001	
2	QUADRUPOLE QUADRUPOLE	4		E12.1010	
6	ELECTRODE EQUIPPED ELECTRODE EQUIPEE	3		LEIBPUAG0001	
1	VACUUM CHAMBER ASSEMBLY ENSEMBLE CHAMBRE A VIDE	2		LEIVCQLE0001	
1	FRAME / HOIST CHASSIS / PALAN	1		LEIHMQFB0002	

Assembly of Quadrupole Focusing in Both planes

LAY OUT
QUADRUPOLES STACK
LAY OUT
STACK DE QUADRUPOLES

ECHELLE SCALE	DES/DRA.	ACROTECNA	2006-07-17
1:5 1:2	CONTROLLED		
	RELEASED		
	APPROVED		

LEI\LMQFB0\LEILMQFB0004

REMPLACE/REPLACES

NON VALABLE POUR EXECUTION
NOT VALID FOR EXECUTION

GAC -

LEILMQFB0004 | SIZE A0 | IND. 0

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