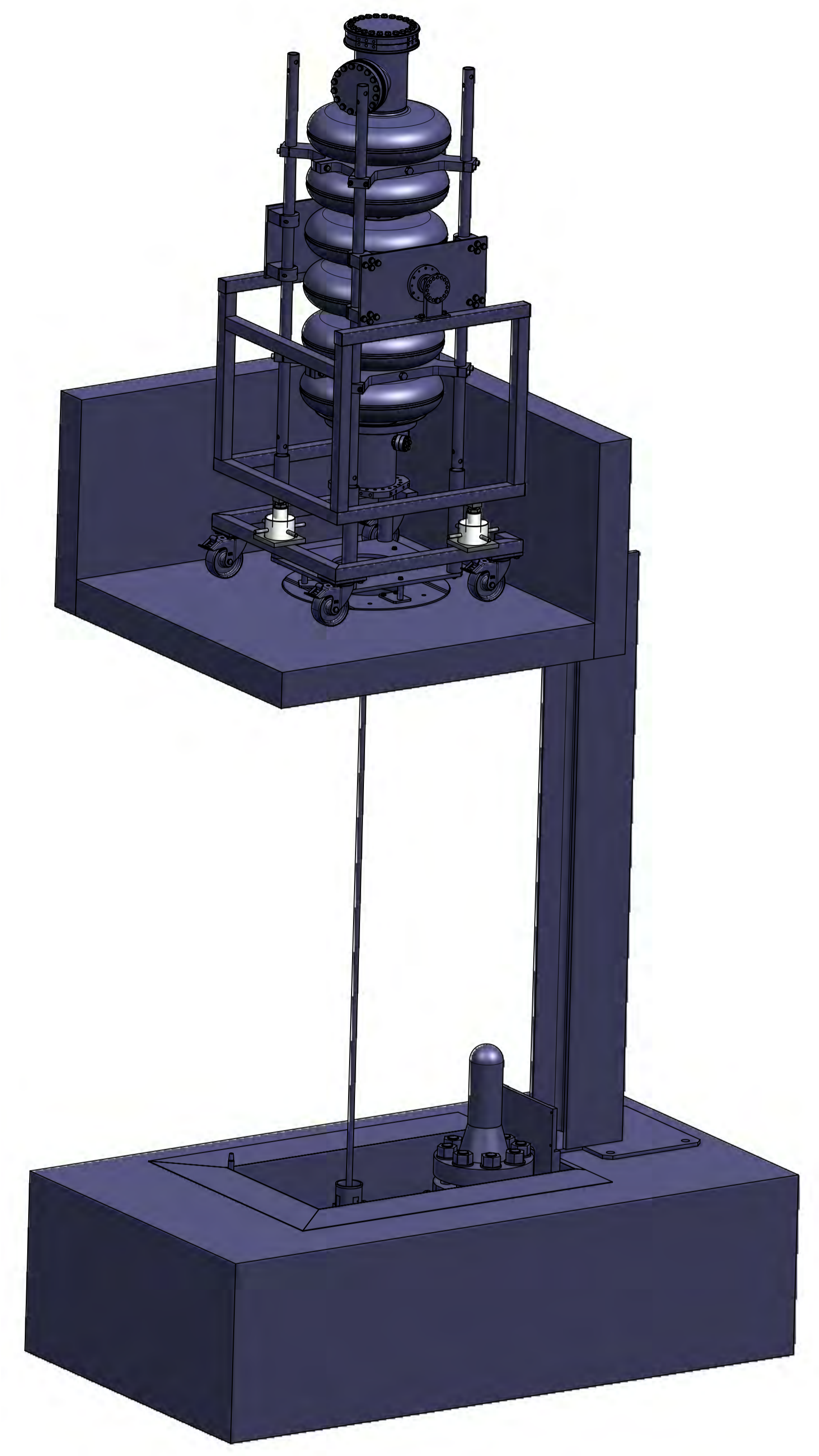
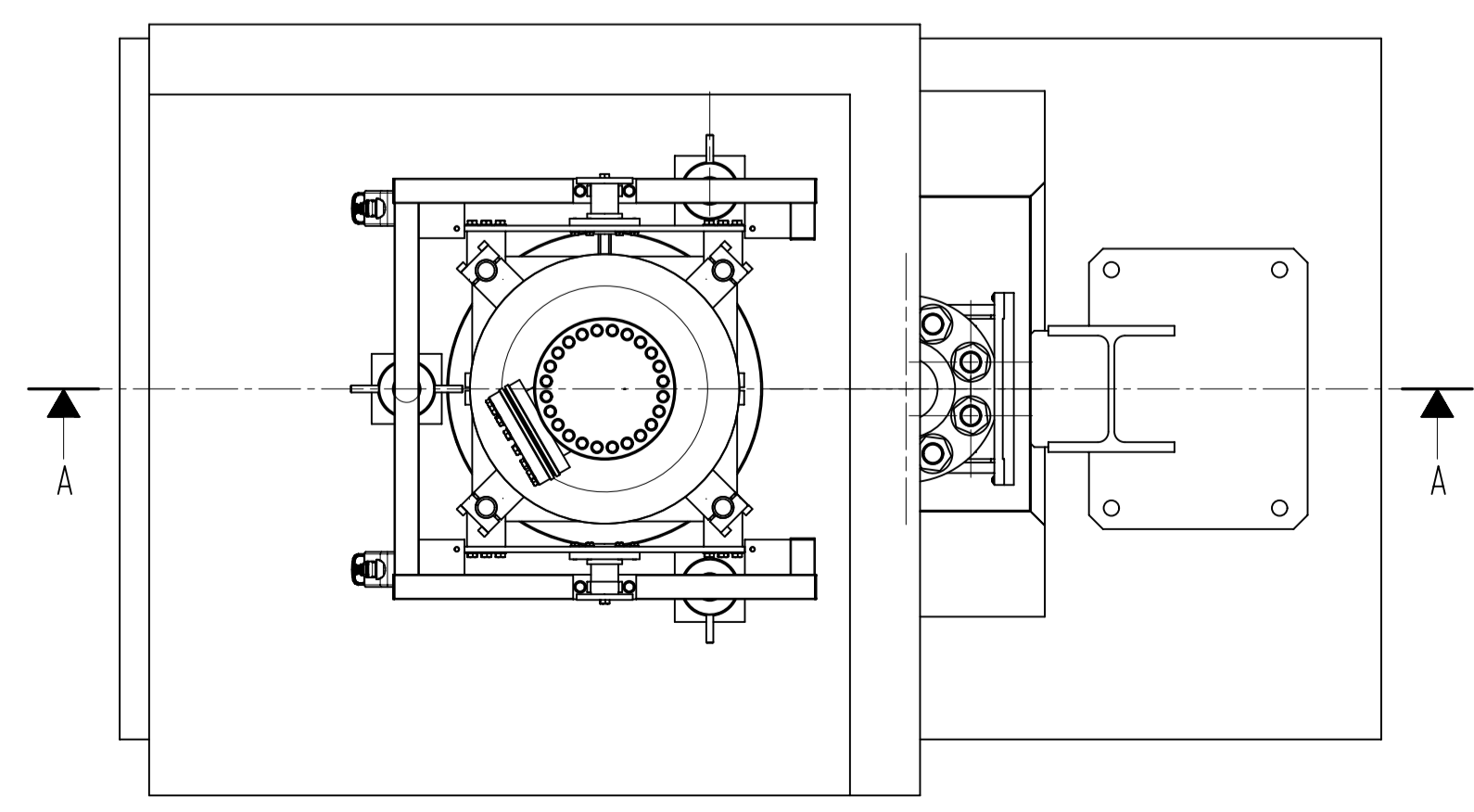
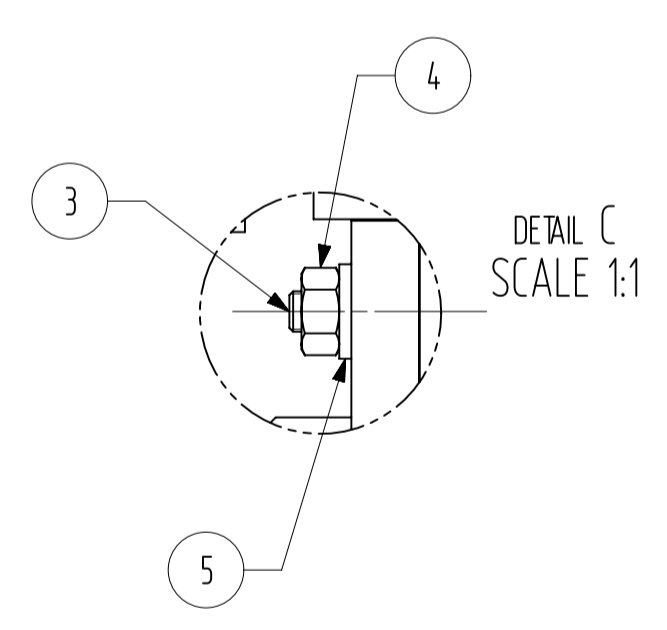
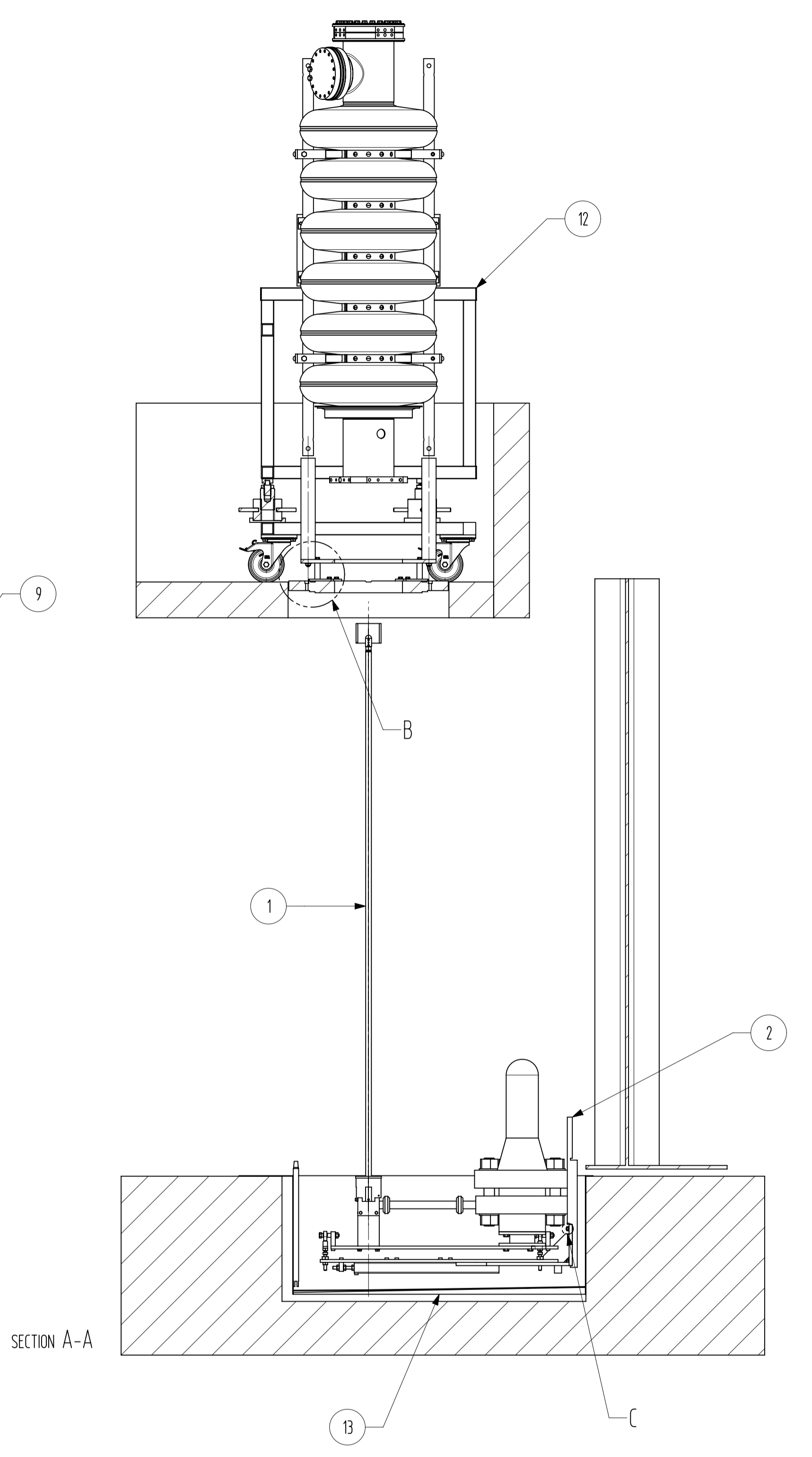
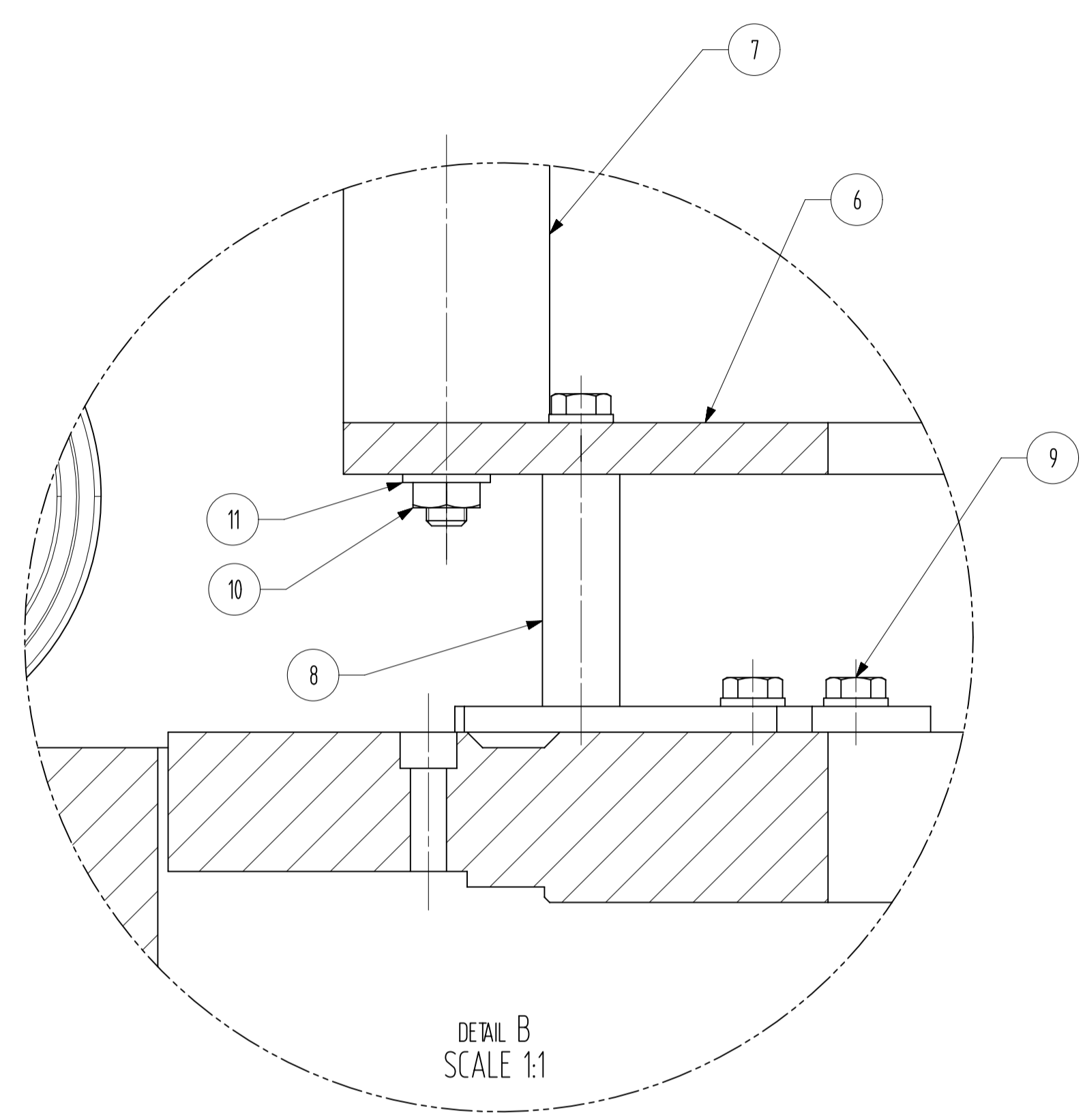


DESCRIZIONE, DISEGNI E SPECIFICHE PER MECCANICA SPECIALE DEDICATA
AL LAVAGGIO E MOVIMENTAZIONE CAVITÀ SUPERCONDUTTIVE IN
CAMERA BIANCA

GENERAL TOLERANCES	-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-8000	8000-12000	12000-50000	50000-200000	200000-		
FOR PLATES WORKING	± 1	± 2	± 2	± 3	± 4	± 6	± 8	± 10	± 12	± 14	± 16		
FOR MECHANICAL MACHINING OF SIZE WITHOUT CLEARANCE	-6	6-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-	ANG. DIM.	-6°	6°-30°	30°-120°	120°-
TOLERANCES NOT SPECIFIED	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3		± 1°	± 30'	± 20'	± 10'
WORKING SURFACES ROUGHNESS	ISO	N 10	N 9	N 8	N 7	N 6	N 5	N 4		N 3	N 2		
	N LCA	18	17	16	15	14	13	12		11	10		
	Ra	12.5	6.3	3.2	1.6	0.8	0.4	0.2		0.1	0.05		



Pos.	Part Name	Qty	Material	Drawing	Note	Weight
13	Vasca	1	AlSi-304		ESS-CB-0104.00	
12	Carrello-CB	1			ESS-CB-0103.00	
11	Rosetta-8.4x17-UNI-6592	4	A2			2
10	Nut M8 UNI-5588	4	A4			6
9	VTE-M6x0-UNI-5627	9	A2			0
8	Distanziale-giostra-ESS-MB	3	AlSi-304		ESS-CB-0102.02	230
7	Birchierino-cavita-ESS-MB	4	AlSi-304		ESS-CB-0102.02	2733
6	Piastra-cavita-ESS-MB	1	AlSi-304		ESS-CB-0102.02	8916
5	Rosetta-6.4x12.5-UNI-6592	13	A2			1
4	Nut M6 UNI-5588	4	A4			3
3	VTEI-M6x25-UNI-5931	4	A2			7
2	Prolunga-slitita	1	Anticorrosal		ESS-CB-0102.01	4815
1	Assy-Canna	1			ESS-CB-0101.00	

 INFN Milano - LASA via Fratelli Cervi, 201 20090 Segrate (MI)	Size: A1 DWG: DWG-ASSY-Capannone Drawn by: M. Bonezzi Checked by: P. Michelato Approved by: P. Michelato 3D part: ASSY-Capannone	Date: 2016/04/12 Scale: 1 : 5 Units: mm File name: R:\Project\HPRI\Capannone\DWG-Assy-Capannone.prt	Revision: 0 Sheet 1 of 1
-------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------	------------------------------------

Vasca in acciaio inossidabile per sistema HPR

Si richiede la quotazione per la realizzazione delle parti di seguito descritte

La vasca viene utilizzata per ricoprire una buca che verrà fatta su una pavimentazione in cemento, quindi è possibile che le misure possano variare di qualche centimetro, le dimensioni per la realizzazione saranno disponibili dopo la verifica delle dimensioni effettive della buca.

Dis. N°

ESS-CB-01.00.00 (Complessivo)

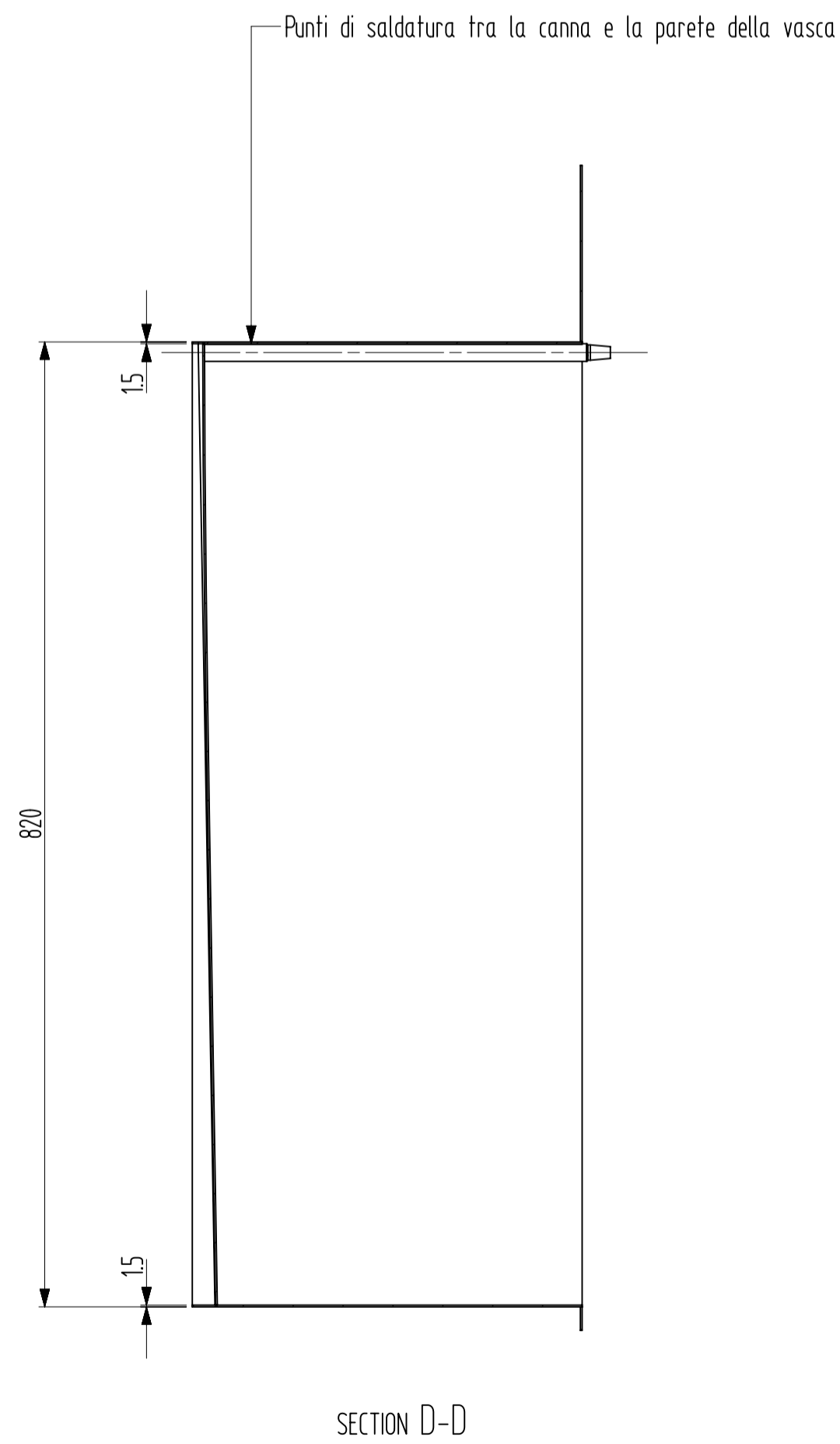
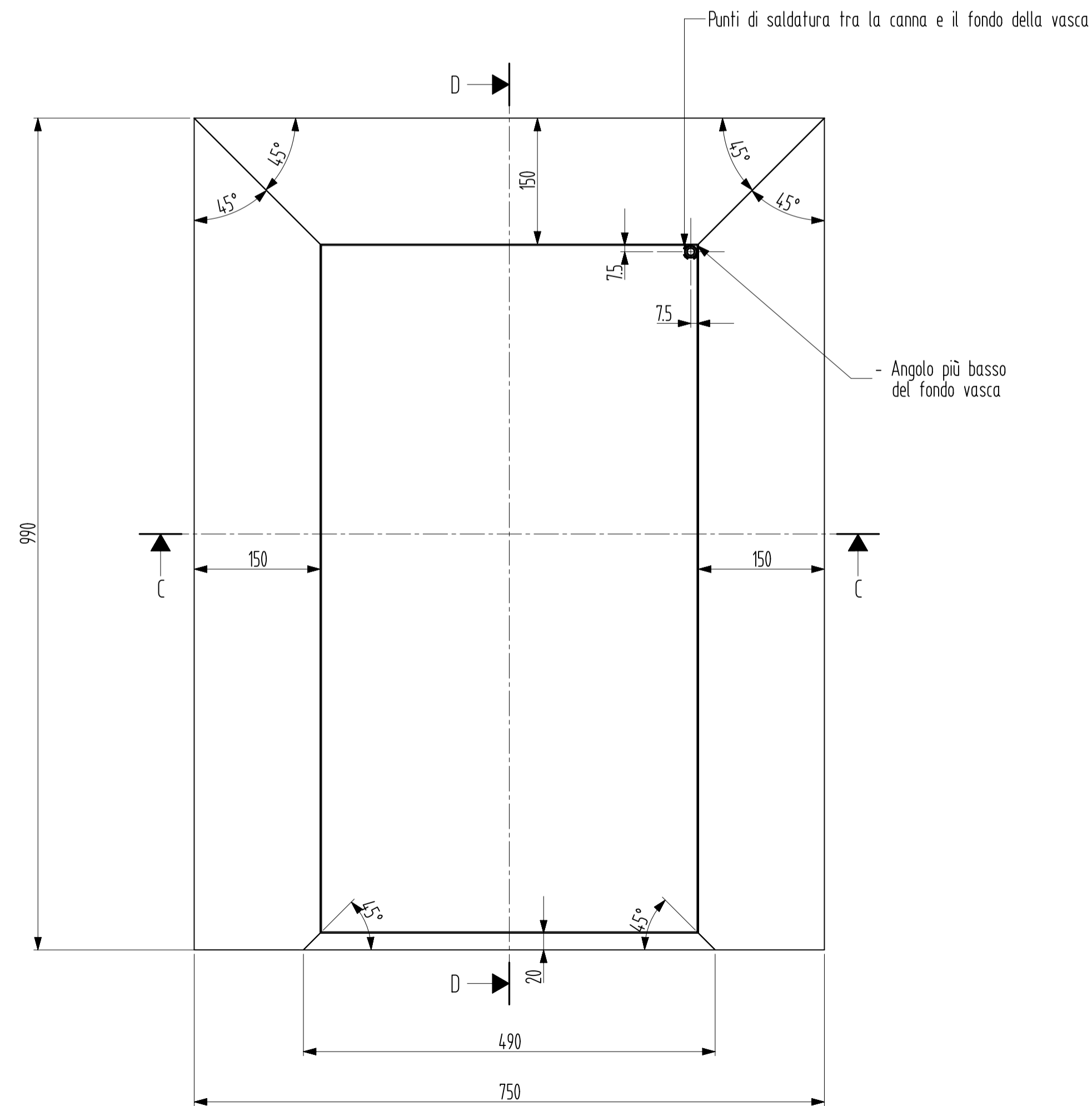
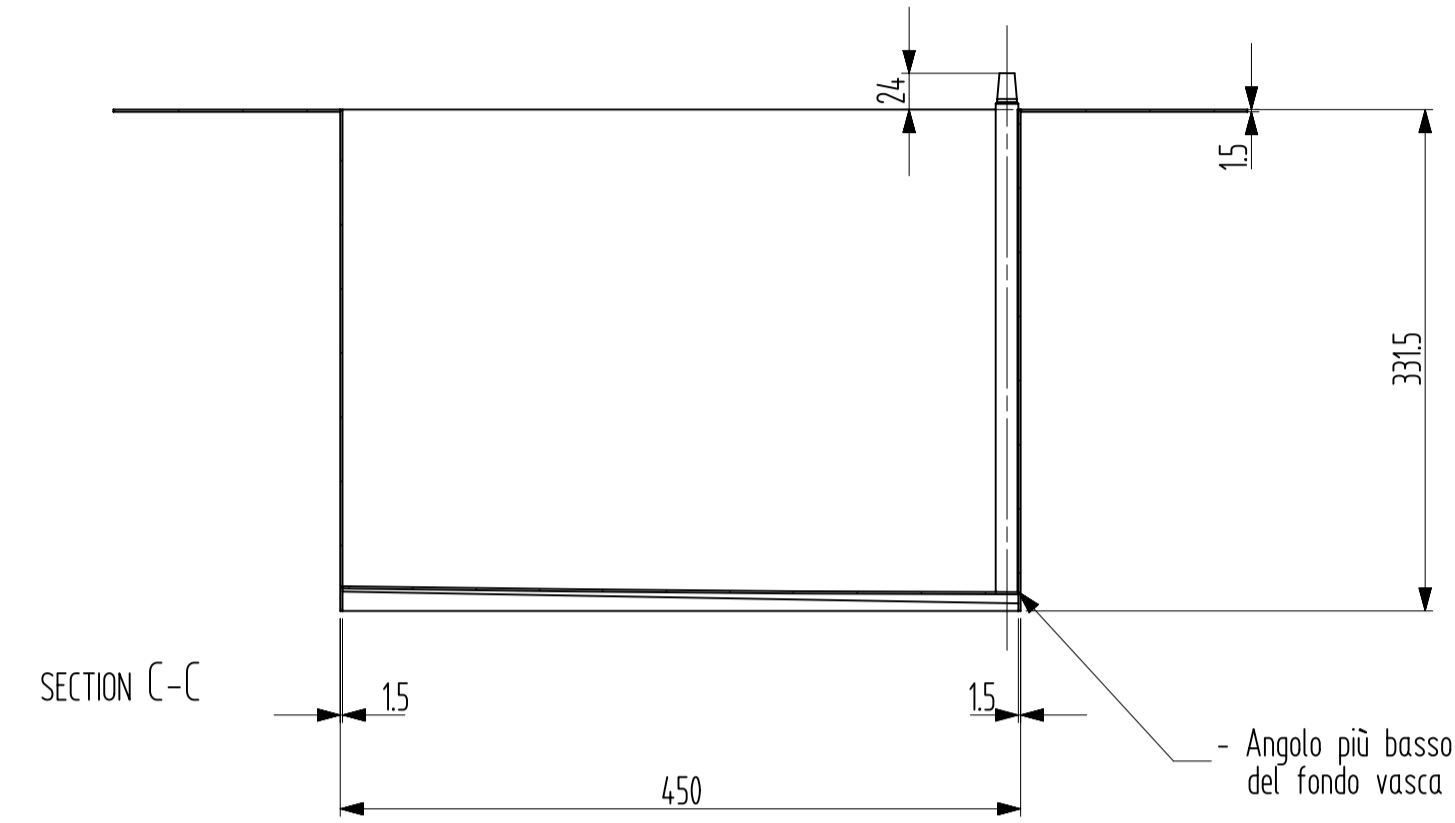
ESS-CB-01.04.00 (particolari)

Descrizione:

Vasca saldata a tenuta stagna con fondo inclinato in 2 direzioni

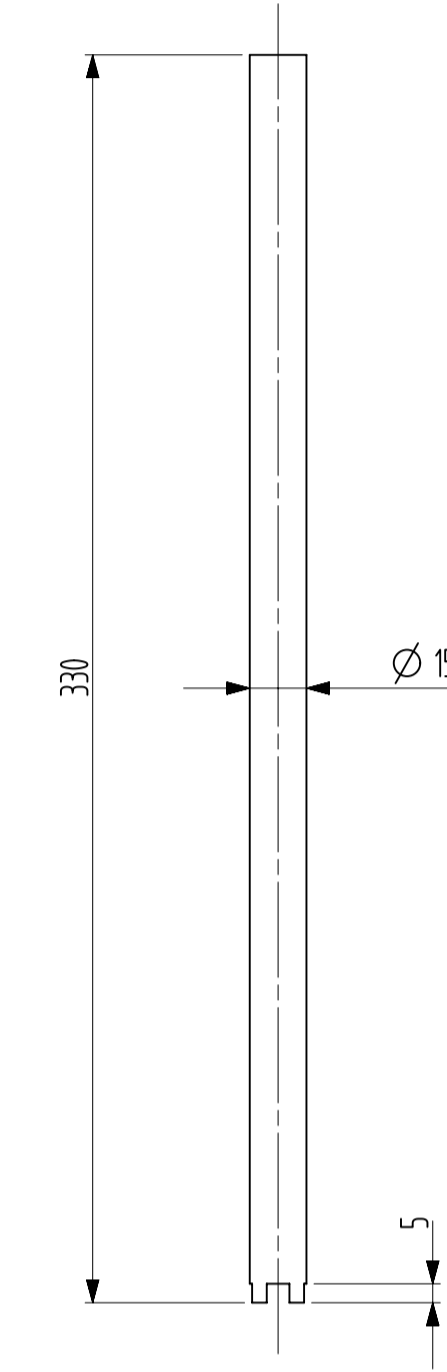
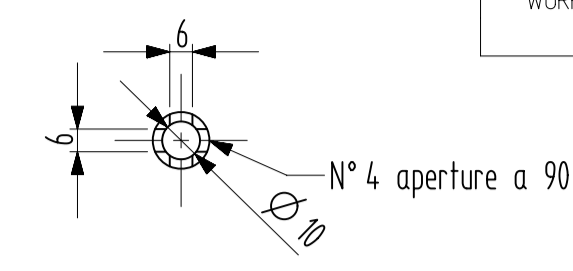
Canna di pescaggio saldata

- Fondo della vasca inclinato in due direzioni dislivello 10-15 mm
- Saldare a filo, il fondo della vasca deve essere a tenuta stagna

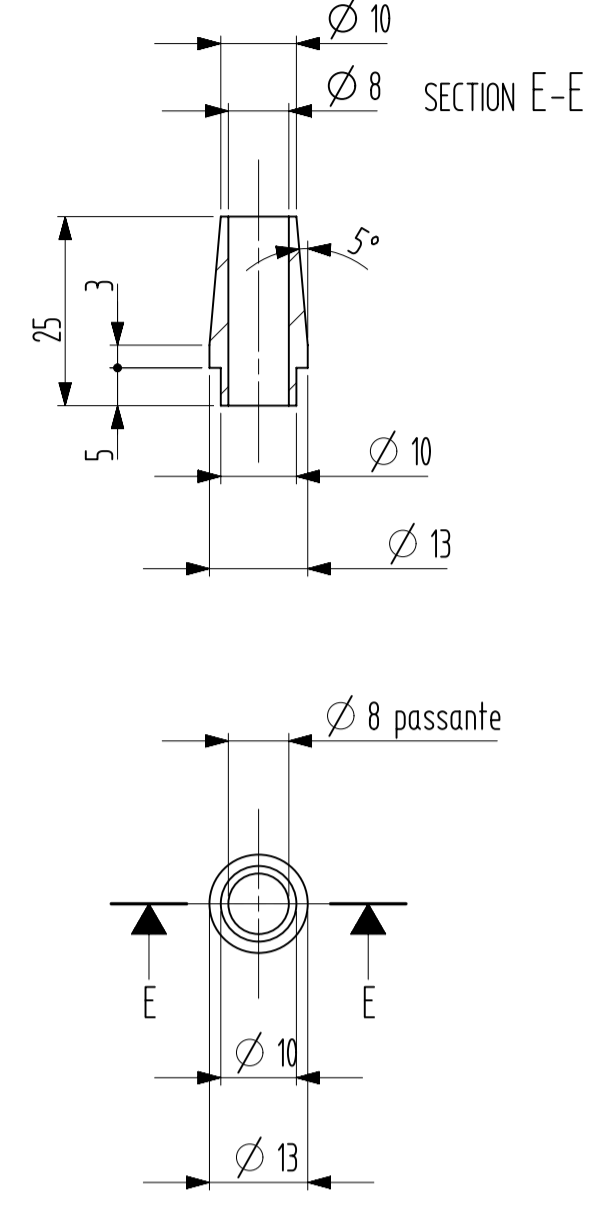


1 Scala 1:5

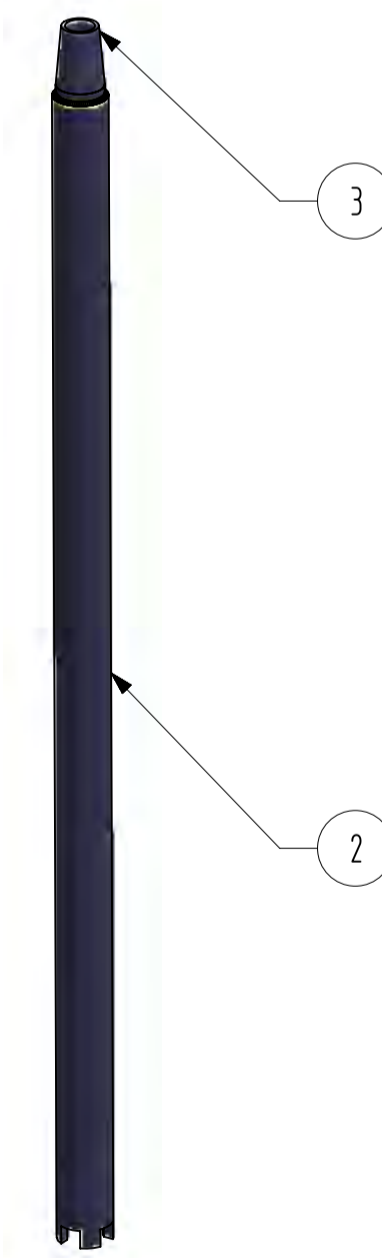
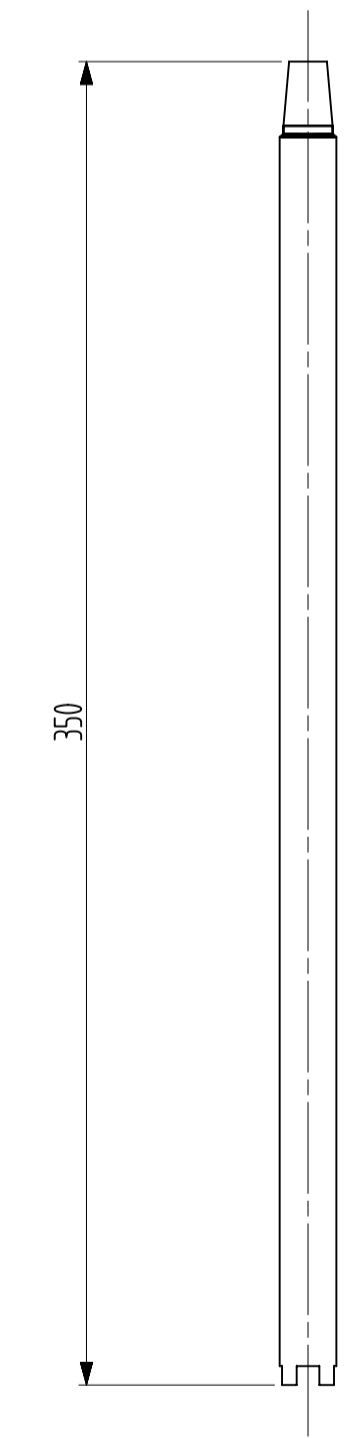
GENERAL TOLERANCES	-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-8000	8000-12000	12000-50000	50000-100000	100000-200000	200000-	
FOR PLATES WORKING	± 1	± 2	± 2	± 3	± 4	± 6	± 8	± 10	± 12	± 14	± 16		
FOR MECHANICAL MACHINING OF SIZE WITHOUT CLEARANCE	-6	6-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-	ANG. DIM.	-6°	6°-30°	30°-120°	120°-
TOLERANCES NOT SPECIFIED	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3		± 1°	± 30'	± 20'	± 10'
WORKING SURFACES ROUGHNESS	ISO	N 10	N 9	N 8	N 7	N 6	N 5	N 4	N 3	N 2			
	N LCA	18	17	16	15	14	13	12	11	10			
	Ra	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05			




2 Scala 1:2



3 Scala 1:1



3	Stringigomma	1	AISI 304			
2	Canna	1	AISI 304			
1	Vasca	1	AISI 304			
Pos.	Part Name	Qty	Material	Drawing	Note	Weight
 INFN Milano - LASA via Fratelli Cervi, 201 20090 Segrate (MI)		Size:	DWG: DWG-Vasca		Revision:	0
		A1	ESS-CB-01.04.00		Sheet 1 of 1	
Experience: ESS		Drawn by:	M. Chiodini	Date:	2016/04/19	
Object: Vasca		Checked by:		Scale:	1:5 1:2 1:1	
3D part: Assy-Vasca		Approved by:	P. Michelato	Units:	mm	
		File name:	R:\Projects\HPRI\PDF-DWG-STEP\ESS-CB-01.04.00			

Sistema carrello di movimentazione cavità in camera bianca

Si richiede la quotazione per la realizzazione delle parti di seguito descritte

Dis. N°

ESS-CB-01.00.00 (Complessivo)

ESS-CB-01.03.00 (Complessivo parziale)

ESS-CB-01.03.01 (Particolari tutti)

ESS-CB-01.0302 (Particolari tutti)

ESS-CB-01.03.03 (Particolari tutti)

La fornitura deve comprendere anche le parti unificate indicate in tabella tutti
(viti, rondelle, dadi ecc.)

Descrizione:

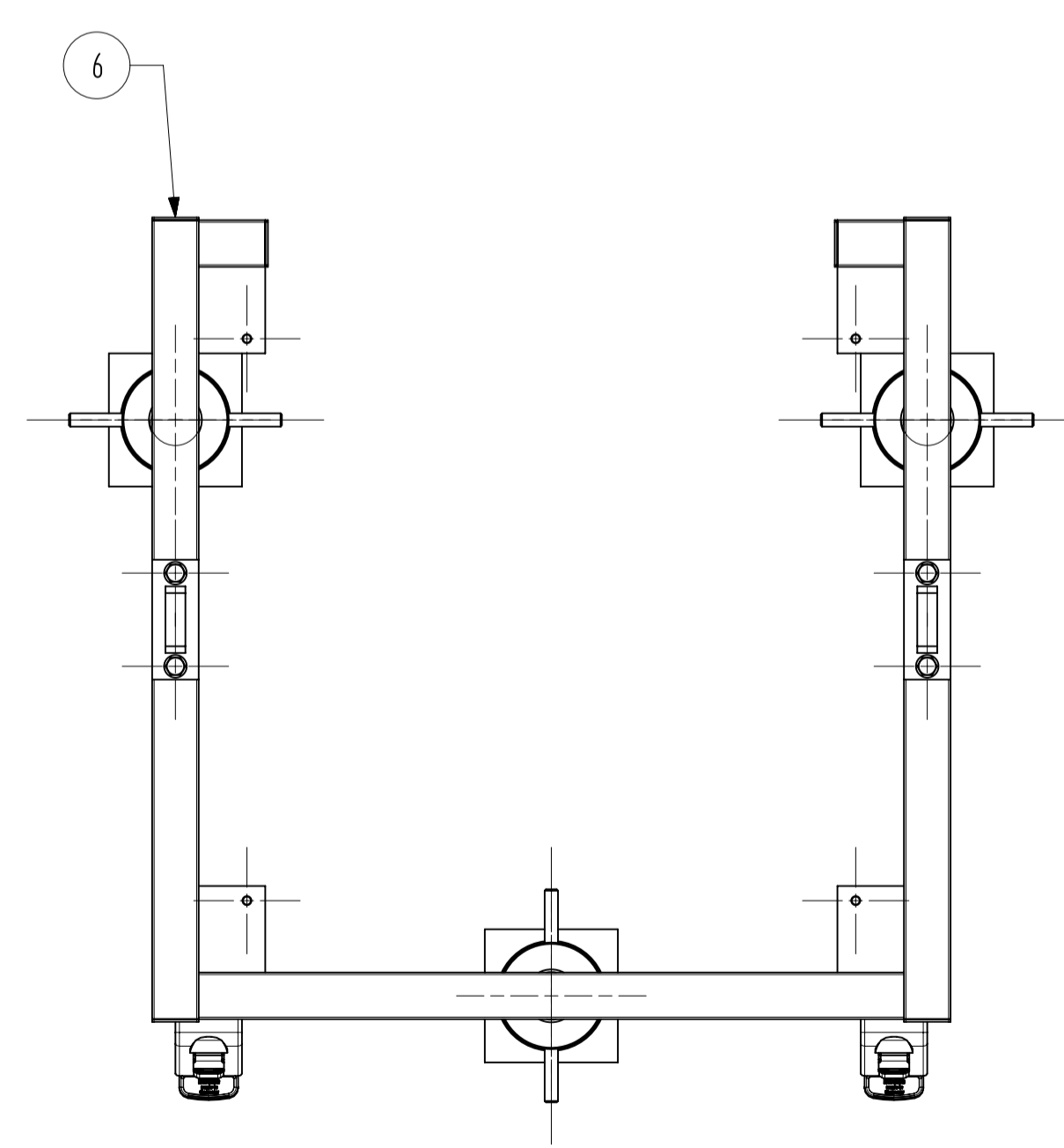
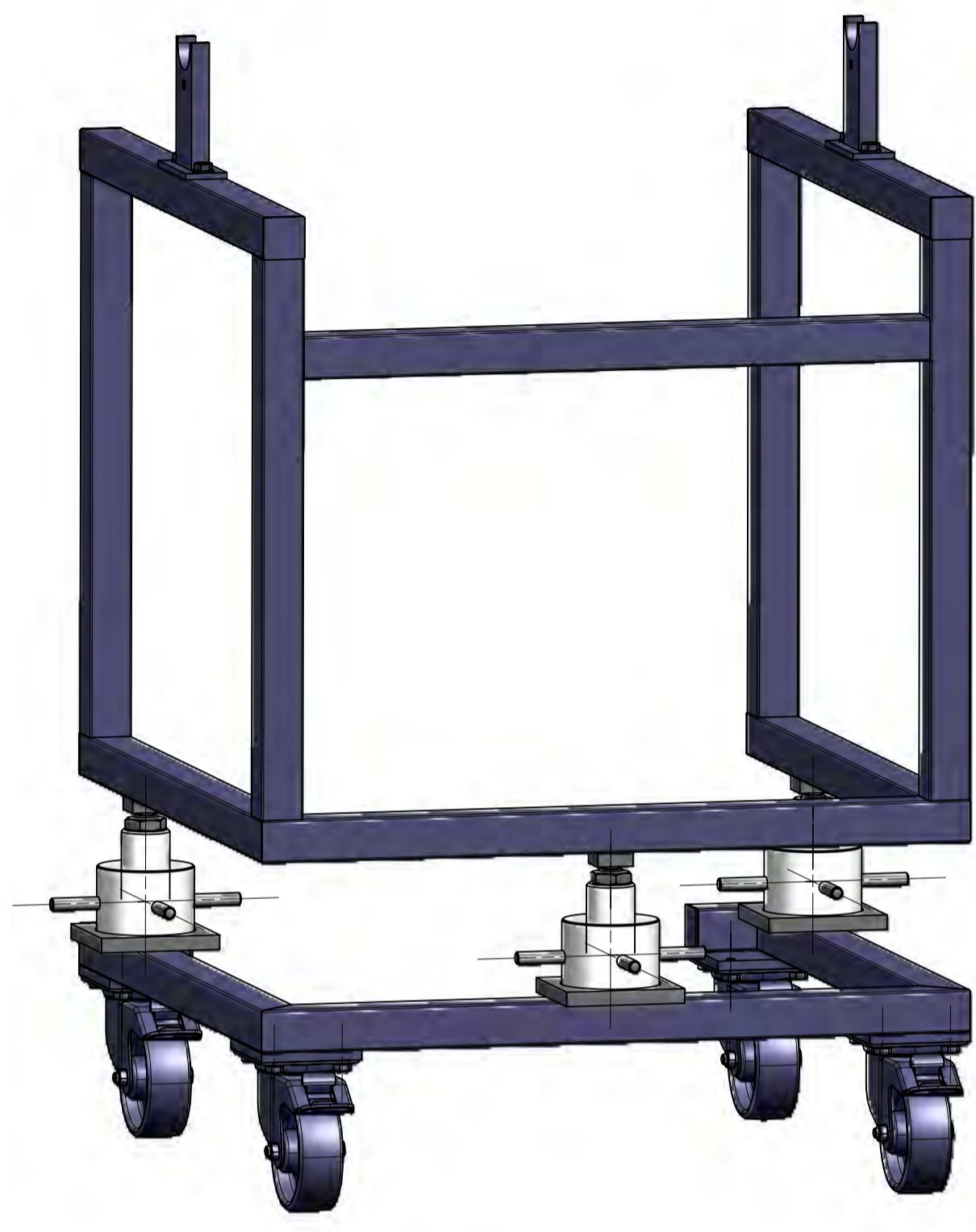
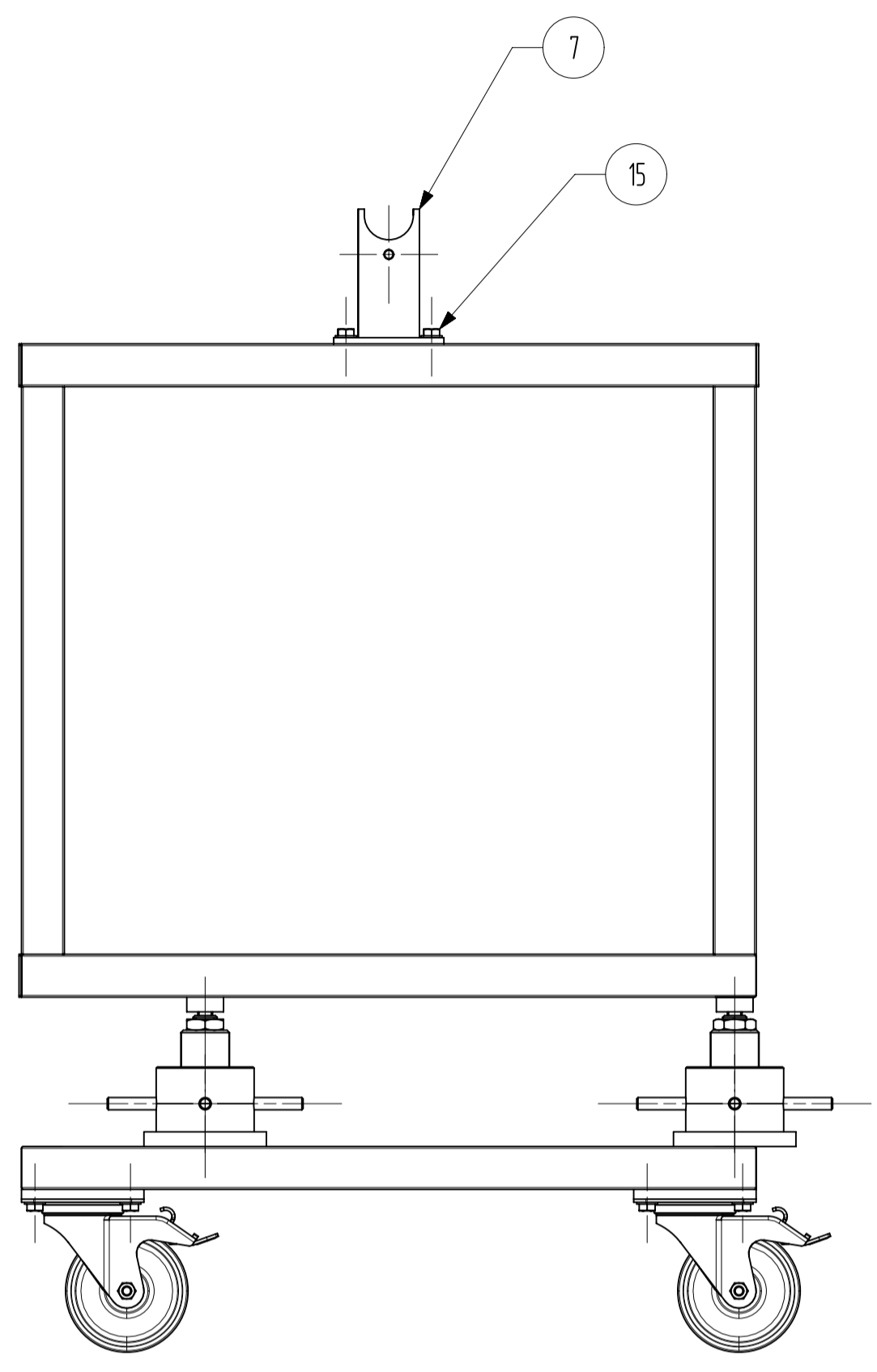
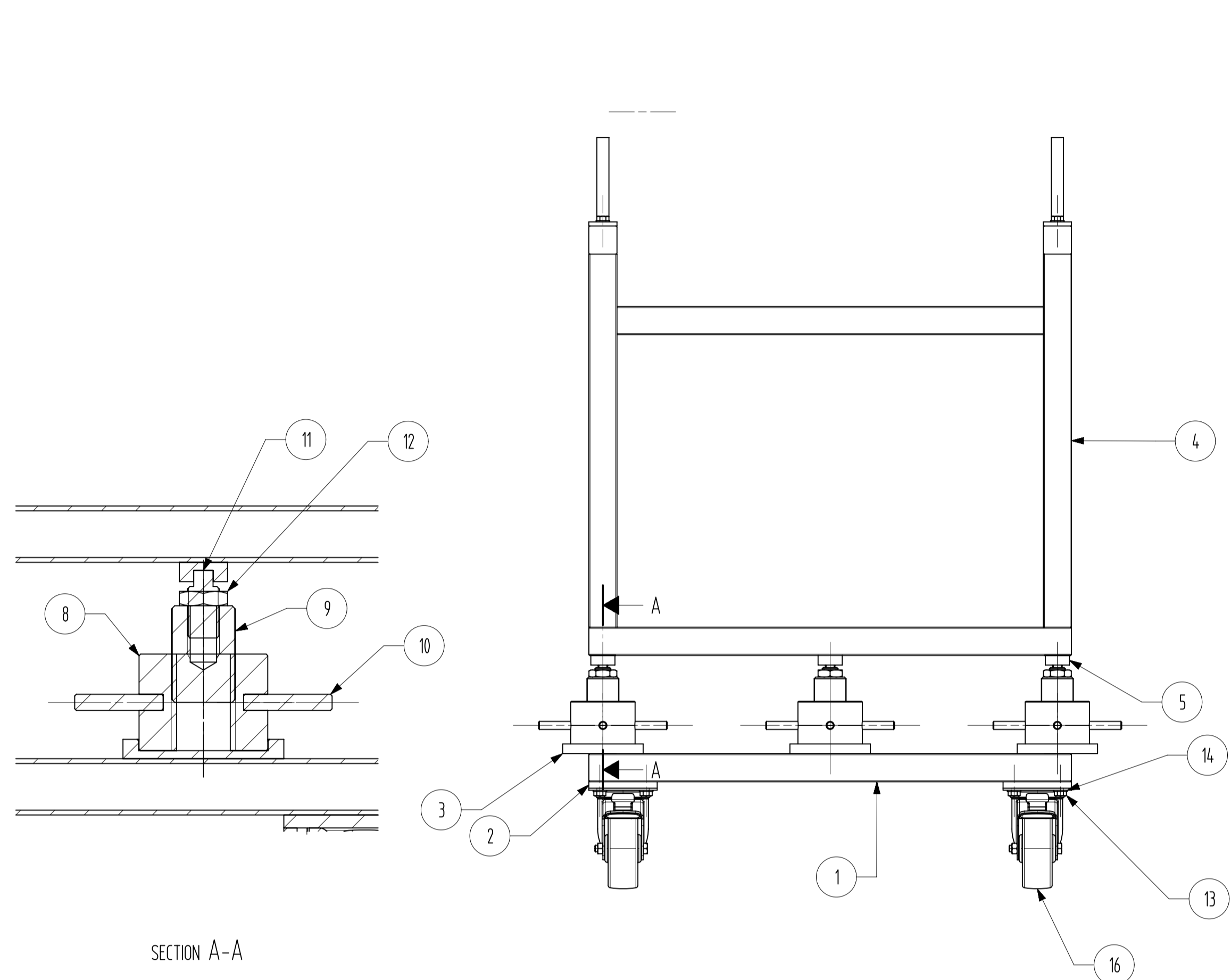
Carrello composto da tubolari saldati in AISI Elettrolucidati

Piastre e selle in AISI Elettrolucidati

Tondi in AISI Elettrolucidati

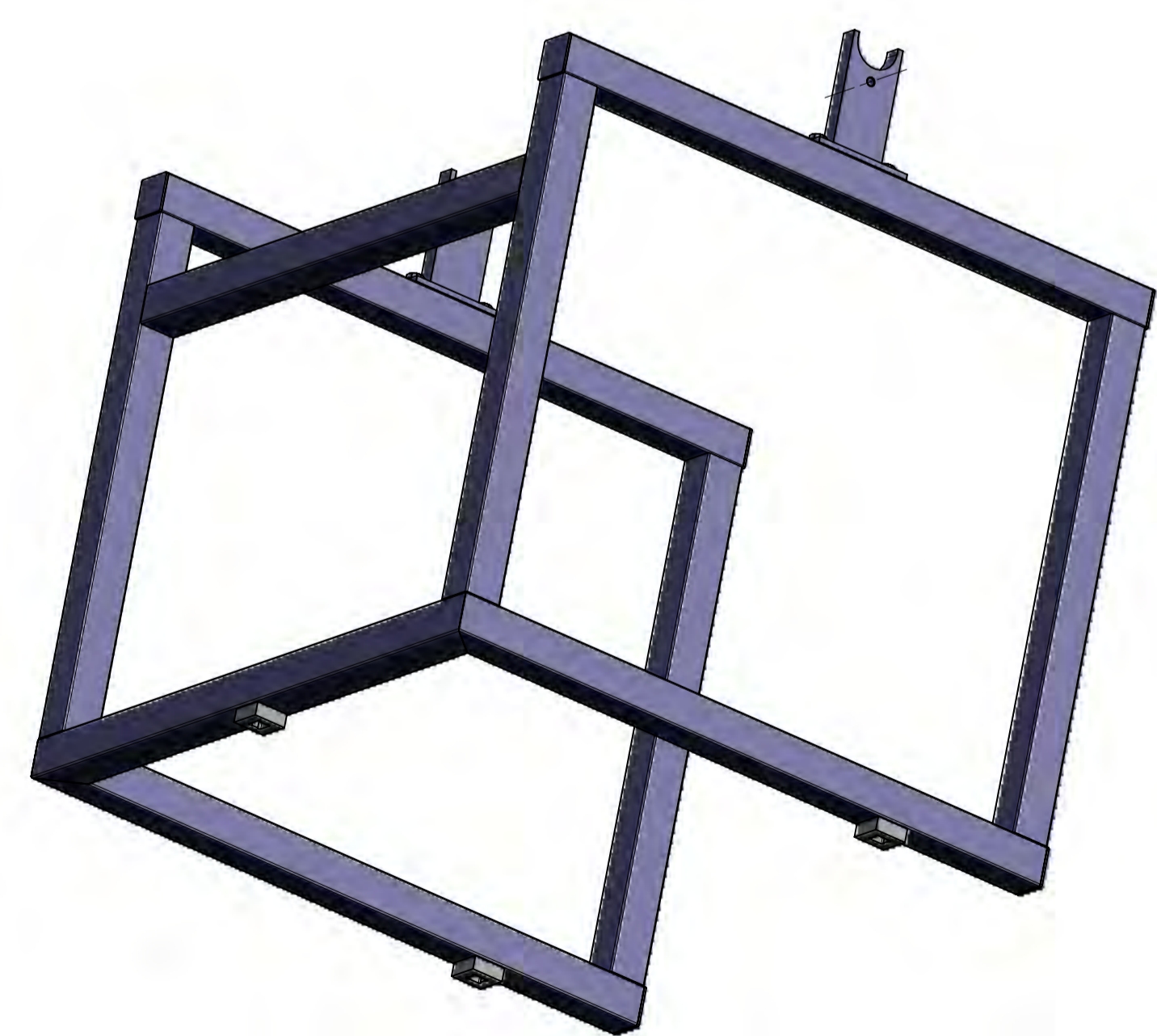
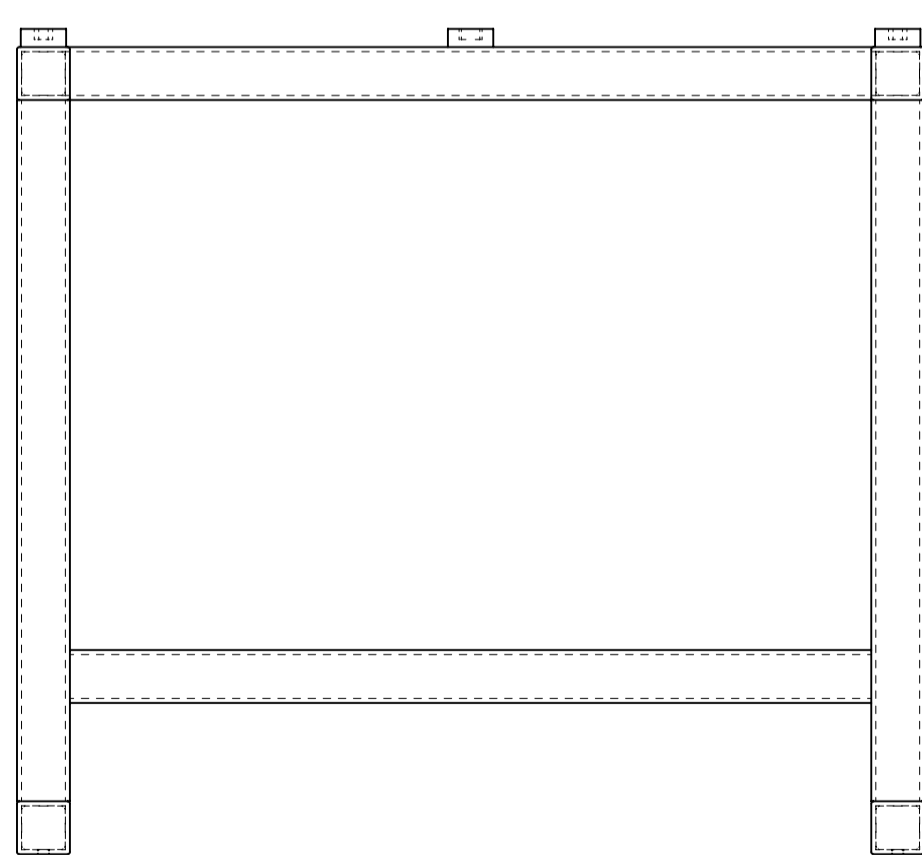
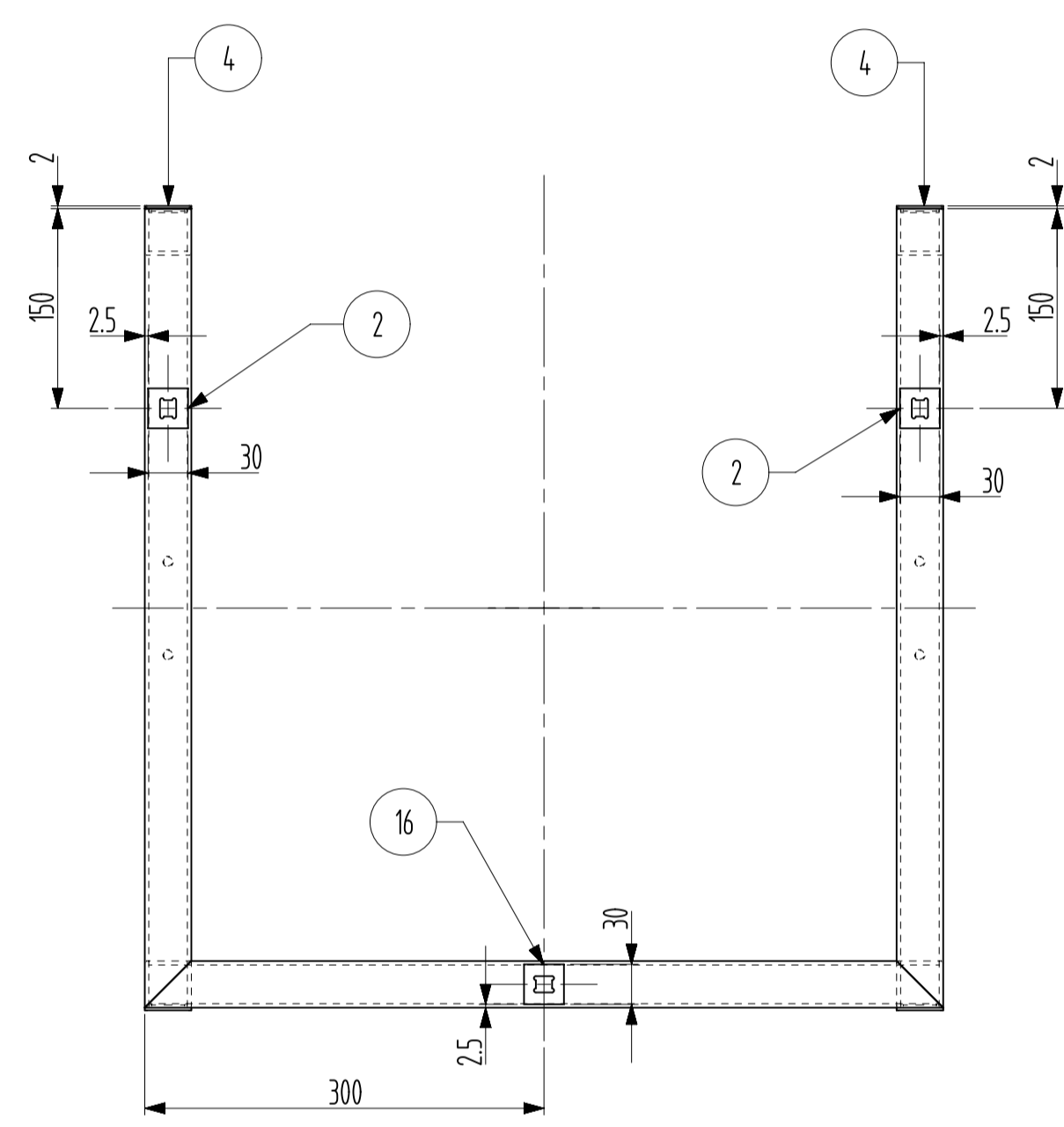
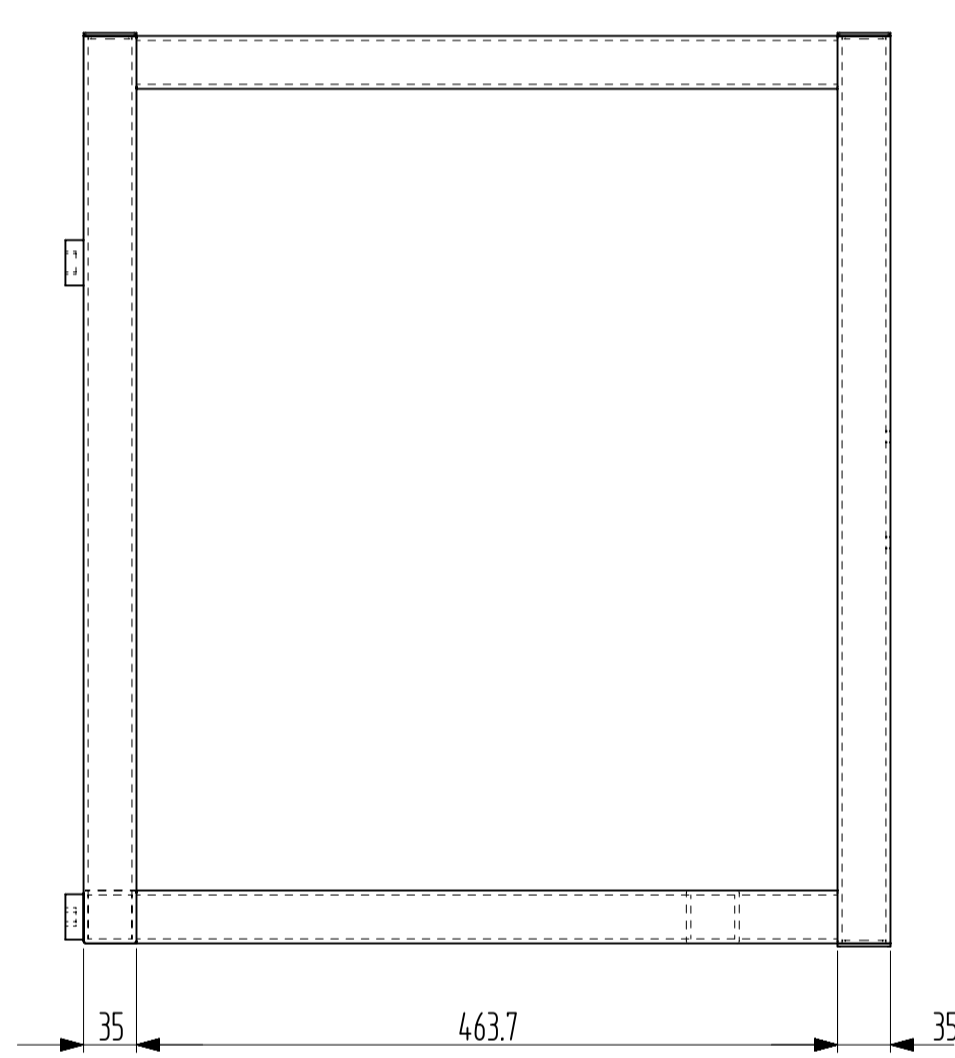
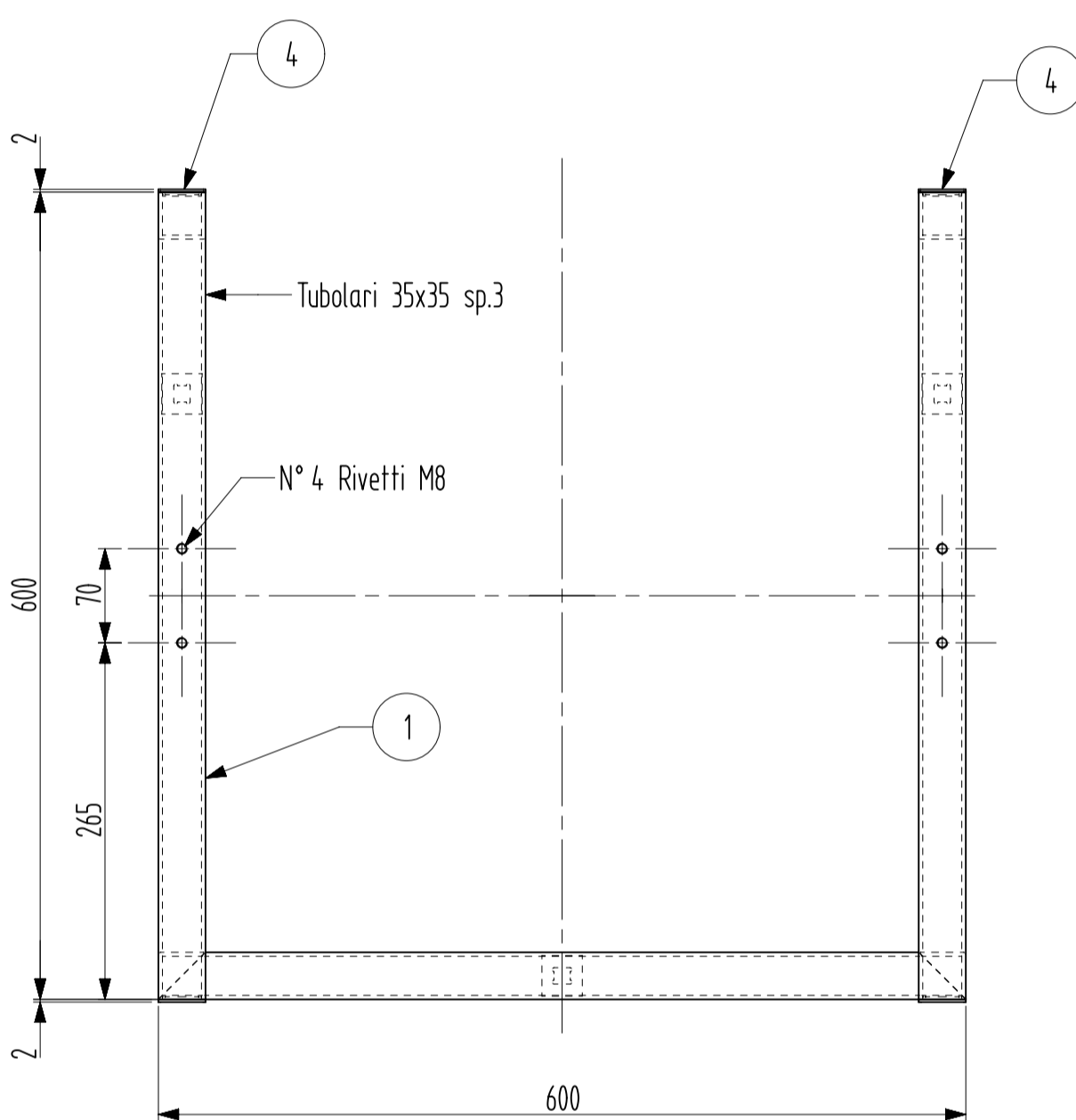
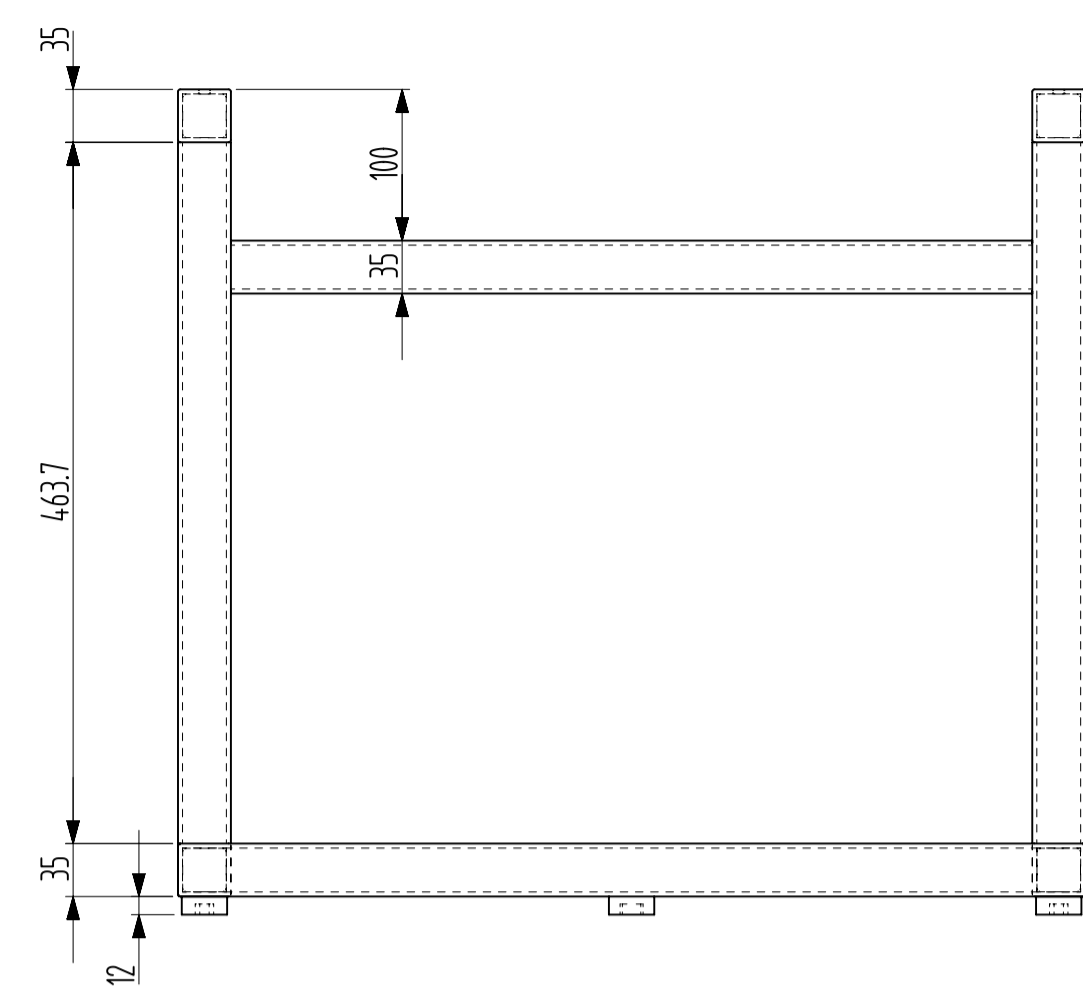
Vite e madrevite in teflon

GENERAL TOLERANCES	-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-8000	8000-12000	12000-50000	50000-100000	100000-200000	200000-		
FOR PLATES WORKING	± 1	± 2	± 2	± 3	± 4	± 6	± 8	± 10	± 12	± 14	± 16			
FOR MECHANICAL MACHINING OF SIZE WITHOUT CLEARANCE	-6	6-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-	ANG. DIM.	-6°	6°-30°	30°-120°	120°-	
TOLERANCES NOT SPECIFIED	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3		± 1°	± 30'	± 20'	± 10'	
WORKING SURFACES ROUGHNESS	ISO	N 10	N 9	N 8	N 7	N 6	N 5	N 4	N 3	N 2				
	N LCA	18	17	16	15	14	13	12	11	10				
	Ra	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05				

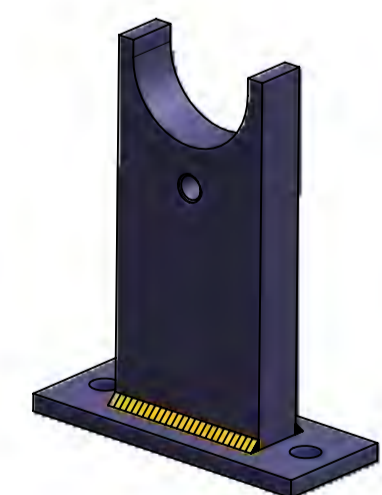
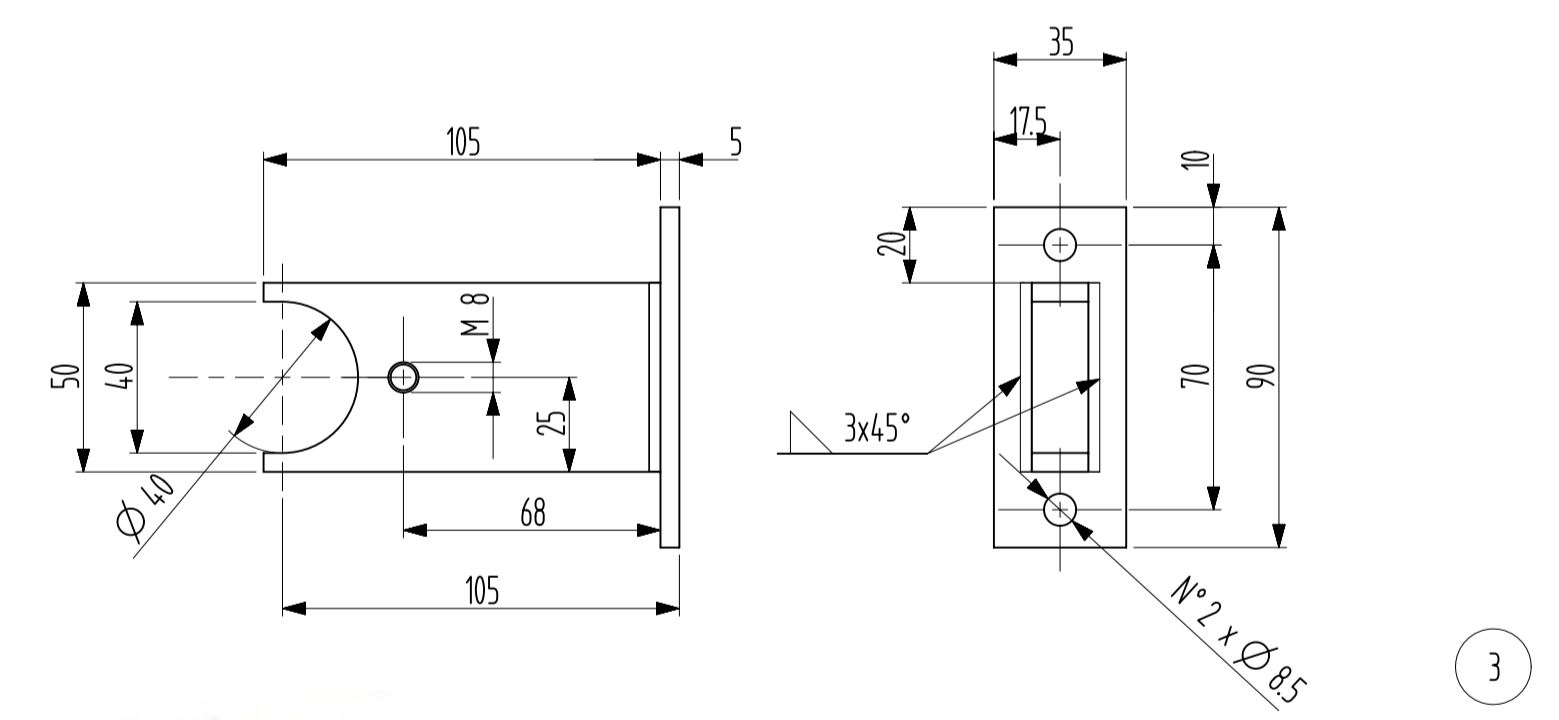
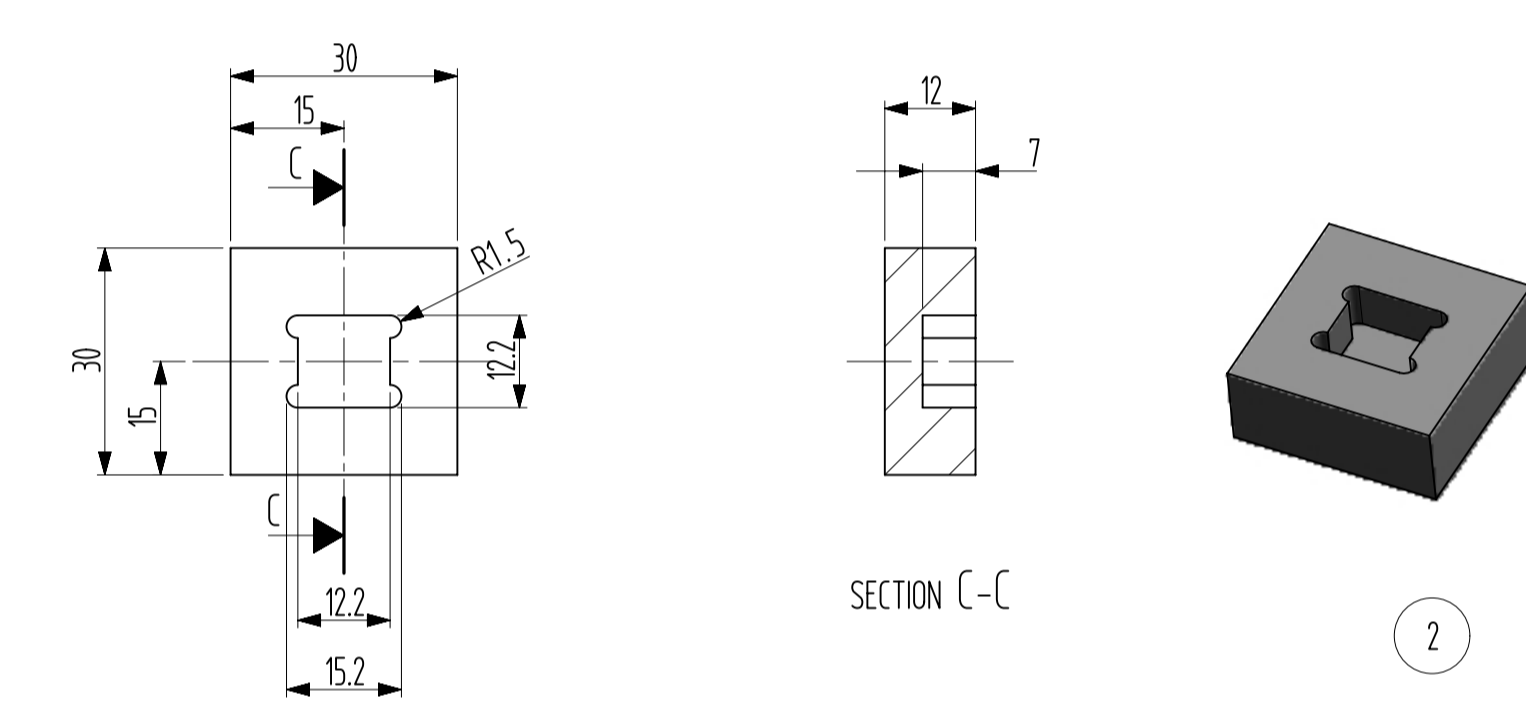
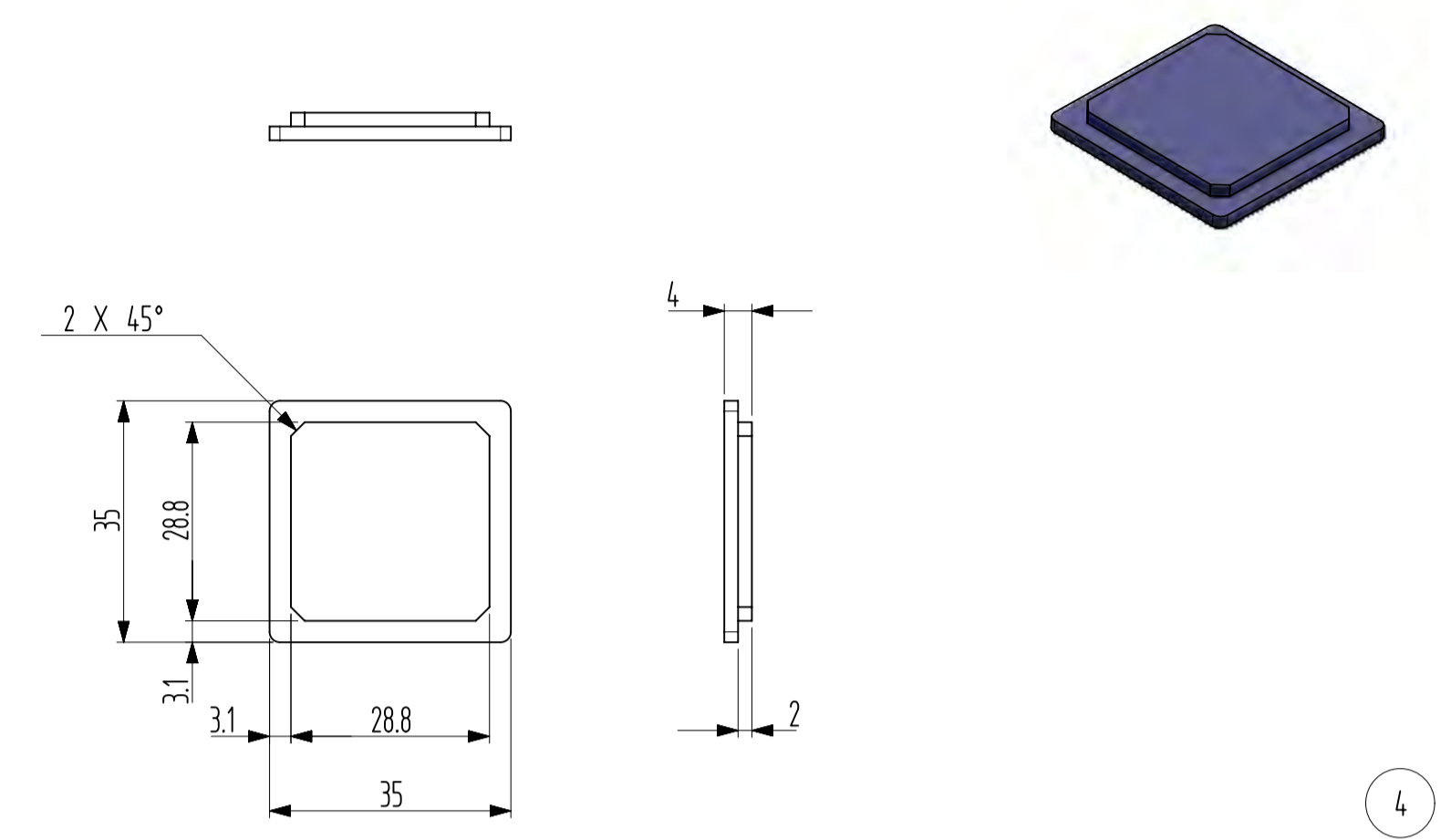


Pos.	Part Name	Qty	Material	Drawing	Note	Weight
16	Ruote-Bikkle	4				
15	VTE-M8x16-UNI-5739	4	A2			0
14	Rosetta-8.4x17-UNI-6592	20	A2			2
13	VTE-M8x12-UNI-5627	16	A2			0
12	Dado-M20-UNI-5589	3	A2			38
11	Carrello-CB-MT-Perno	3	ANSI-304	ESS-CB-03.00.03		87
10	Carrello-CB-MT-Razza	12	ANSI-304	ESS-CB-03.00.03		34
9	Carrello-CB-MT-Vite	3	Teflon	ESS-CB-03.00.03		79
8	Carrello-CB-MT-Madrevite	3	Teflon	ESS-CB-03.00.03		293
7	Carrello-CB-Sella	2	ANSI-304	ESS-CB-03.00.02		
6	Tappo-Tubolare	8	ANSI-304	ESS-CB-03.00.01/02		
5	Carrello-CB-Piastra-superiore-movimentazione	3	ANSI-304	ESS-CB-03.00.02		76
4	Carrello-CB-Supporto-alto	1	ANSI-304	ESS-CB-03.00.02		174.3
3	Carrello-CB-Piastra-inferiore-movimentazione	3	ANSI-304	ESS-CB-03.00.01		660
2	Carrello-CB-Piastra-per-ruote	4	ANSI-304	ESS-CB-03.00.01		523
1	Carrello-CB-Supporto-basso	1	ANSI-304	ESS-CB-03.00.01		1690

 INFN Milano - LASA via Fratelli Cervi, 201 20090 Segrate (MI)	Size: A1 DWG: DWG-ASSY-Carrello-CB	Date: 2016/03/22	Revision: 0
	Drawn by: M. Bonezzi	Date: 2016/03/22	Sheet 1
Experience: ESS	Checked by: P. Michelato	Scale: 1:5-1:2.5	
Object: Carrello-CB	Approved by: P. Michelato	Units: mm	
3D part: ASSY-Carrello-CB	File name: R:\Project\HPRI\Carrello-CB\DWG1-ASSY-Carrello-CB.prt		



GENERAL TOLERANCES	-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-8000	8000-12000	12000-50000	50000-100000	100000-		
FOR PLATES WORKING	± 1	± 2	± 2	± 3	± 4	± 6	± 8	± 10	± 12	± 14	± 16		
FOR MECHANICAL MACHINING OF SIZE WITHOUT CLEARANCE	-6	6-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-	ANG. DIM.	-6°	6°-30°	30°-120°	120°-
TOLERANCES NOT SPECIFIED	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3		± 1°	± 30'	± 20'	± 10'
WORKING SURFACES ROUGHNESS	ISO	N 10	N 9	N 8	N 7	N 6	N 5	N 4	N 3	N 2			
	N LCA	18	17	16	15	14	13	12	11	10			
	Ra	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05			

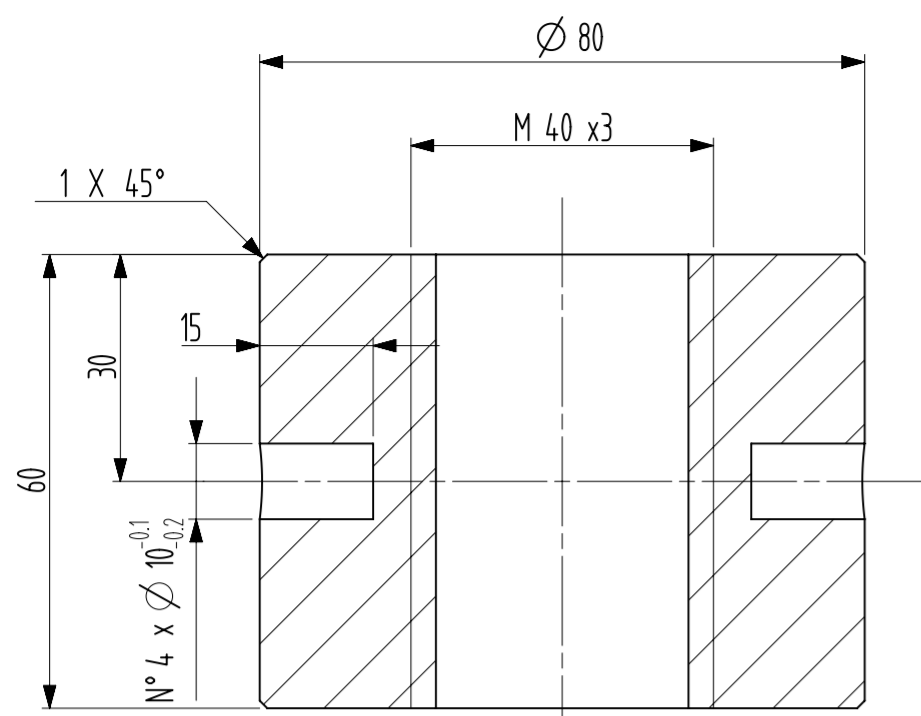


Smussi non indicati 0.3x45°

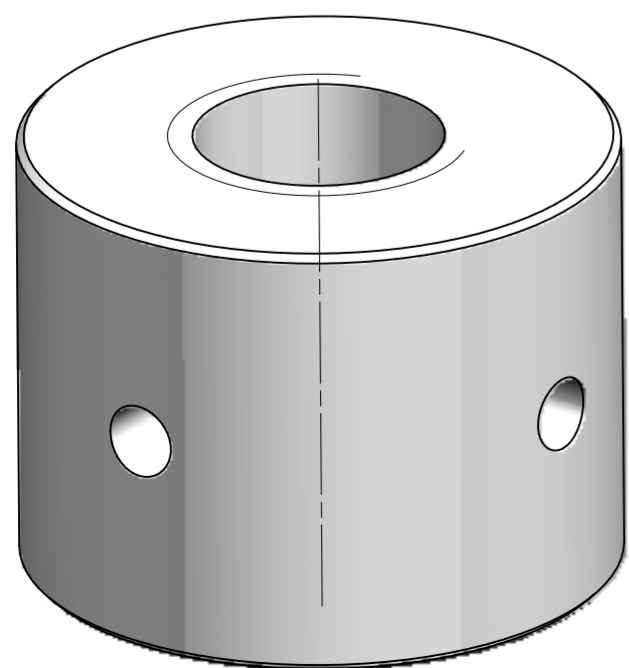
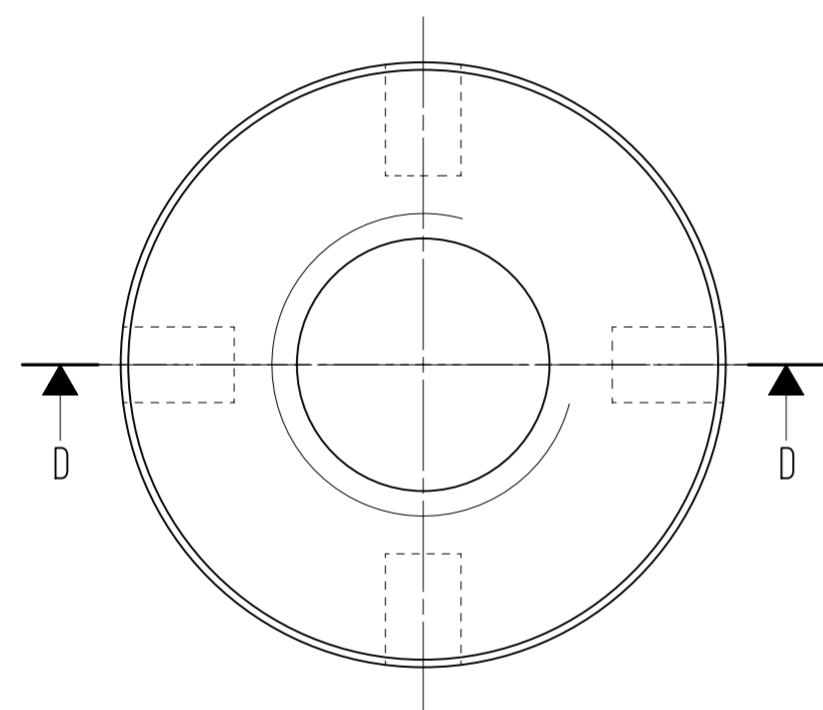
Pos.	Part Name	Qty	Material	Drawing	Note	Weight
4	Tappo-tubolare	6	ANSI-304			
3	Carrello-CB-Sella	2	ANSI-304			
2	Carrello-CB-Piastre-superiore-movimentazione	3	ANSI-304			76
1	Carrello-CB-Supporto-alto	1	ANSI-304			1743

Size:	A1		DWG: DWG-ASSY-Carrello-CB	Revision:	0
Drawn by:	M. Bonezzi	Date:	2016/03/23	Sheet	3
Checked by:		Scale:	1:5-1:2-1:1		
Approved by:	P. Michelato	Units:	mm		
File name:	R:\Project\HPRI\Carrello-CB\DWG1-Carrello-CB.prt				

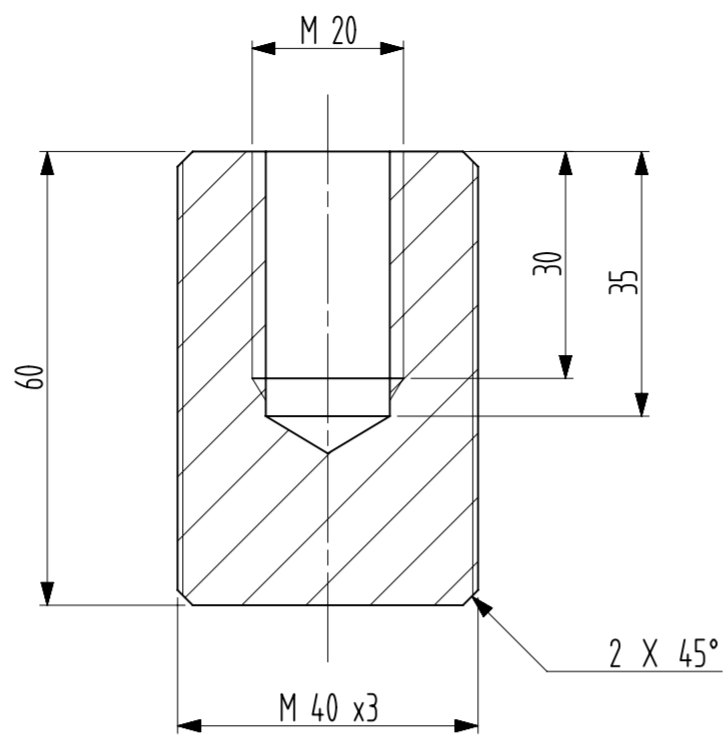
* Saldare i tubolari le piastre e i tappi a filo
 * Non ci devono essere intercapedini
 * Tutto Elettrolucidato



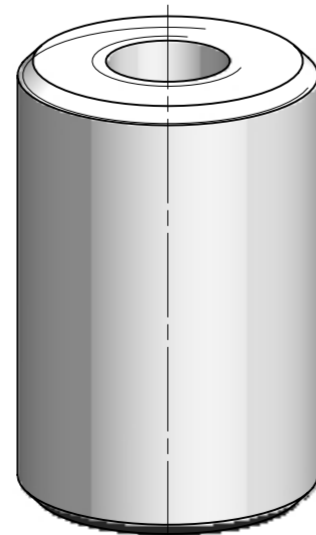
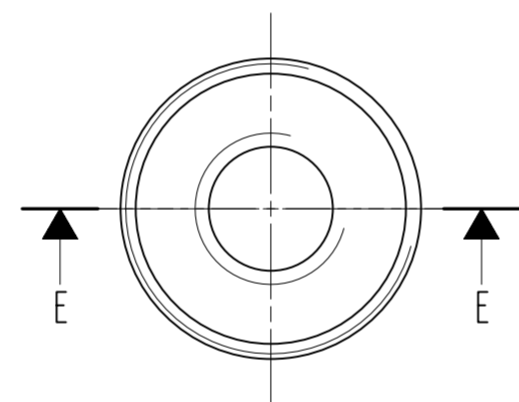
SECTION D-D



1

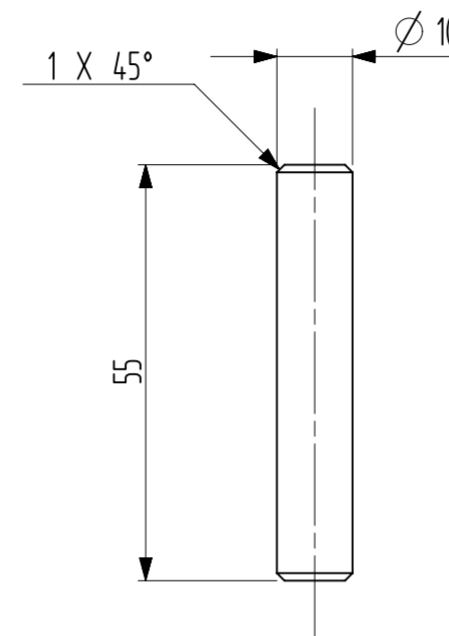


SECTION E-E



2

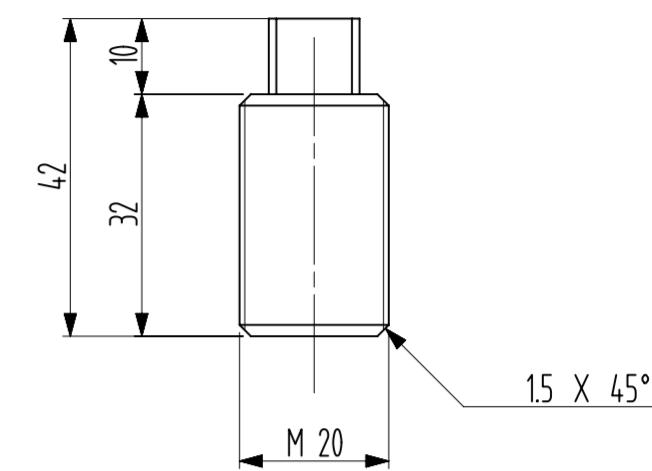
GENERAL TOLERANCES	-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-8000	8000-12000	12000-16000	16000-20000	20000-		
FOR PLATES WORKING	± 1	± 2	± 2	± 3	± 4	± 6	± 8	± 10	± 12	± 14	± 16		
FOR MECHANICAL MACHINING OF SIZE WITHOUT CLEREANCE	-6	6-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-	ANG. DIM.	-6°	6°-30°	30°-120°	120°-
TOLERANCES NOT SPECIFIED	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3		± 1°	± 30'	± 20'	± 10'
WORKING SURFACES ROUGHNESS	ISO	N 10	N 9	N 8	N 7	N 6	N 5	N 4	N 3	N 2			
	N LCA	18	17	16	15	14	13	12	11	10			
	Ra	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05			



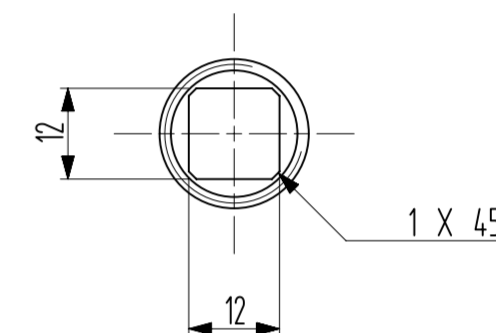
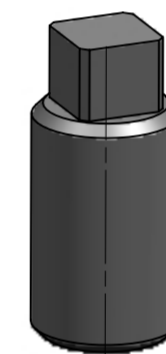
* Elettrolucidato



3



* Elettrolucidato



1.6

4

Smussi non indicati 0.3x45°

4	Carrello-CB-MT-Perno	3	AlSi-304			87
3	Carrello-CB-MT-Razza	12	AlSi-304			34
2	Carrello-CB-MT-Vite	3	Teflon			79
1	Carrello-CB-MT-Madrevite	3	Teflon			293
Pos.	Part Name	Qty	Material	Drawing	Note	Weight

 INFN Istituto Nazionale di Fisica Nucleare	INFN Milano - LASA via Fratelli Cervi, 201 20090 Segrate (MI)	Size: A2	DWG: DWG1-ASSY-Carrello-CB	Revision: 0
		ESS-CB-01.03.03		
Experience: ESS		Drawn by: M. Bonezzi	Date: 2016/03/24	Sheet 4
Object: Carrello-CB		Checked by:	Scale: 1 : 1	
3D part: ASSY-Carrello-CB		Approved by: P. Michelato	Units: mm	
		File name: R:\Project\HPR\Carrello-CB\DWG1-Carrello-CB.prt		

Sistema carrello di movimentazione cavità in capannone

Si richiede la quotazione per la realizzazione delle parti di seguito descritte

Dis. N°

ESS-TOOLING-01.00.00 (Complessivo)

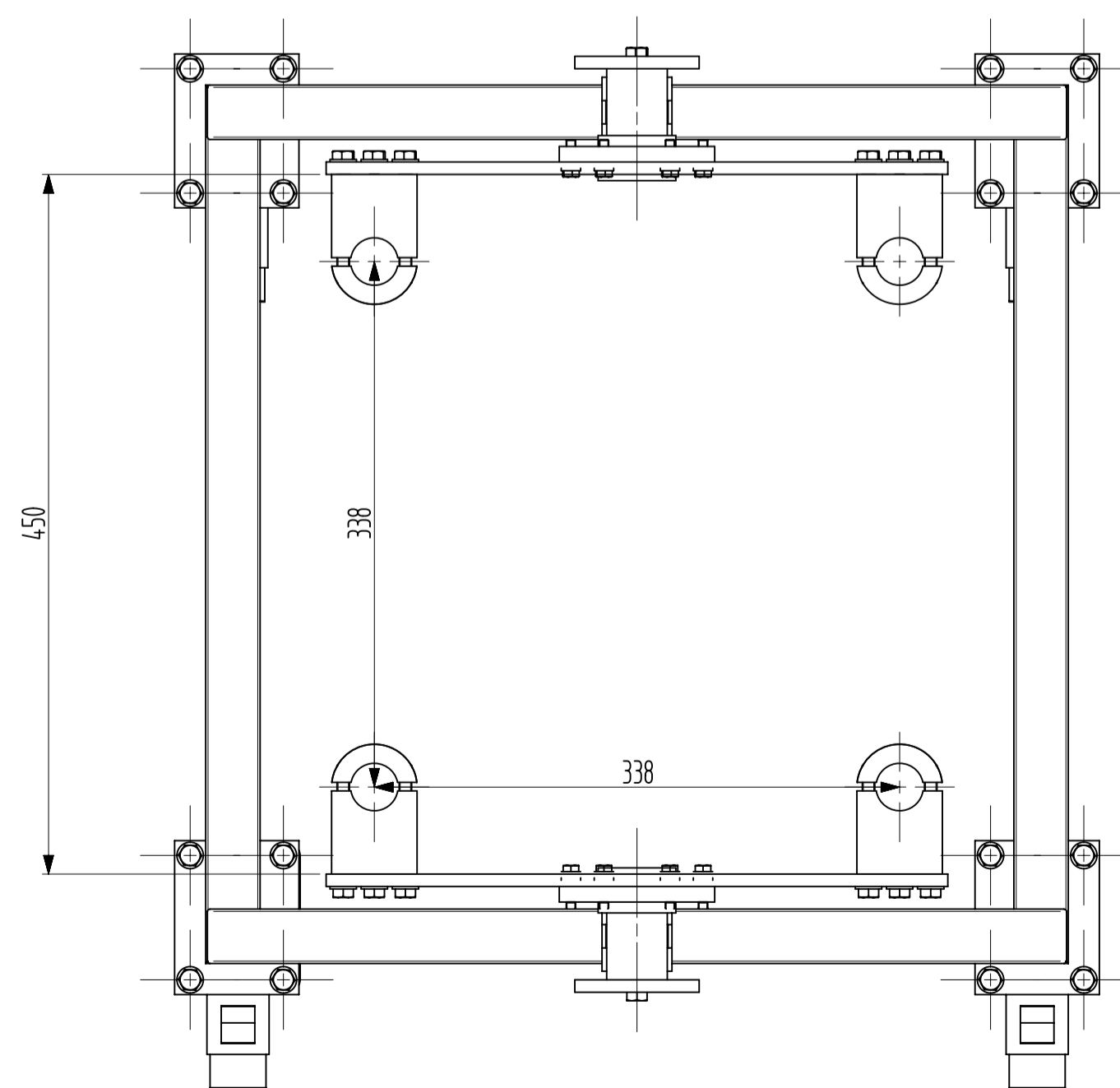
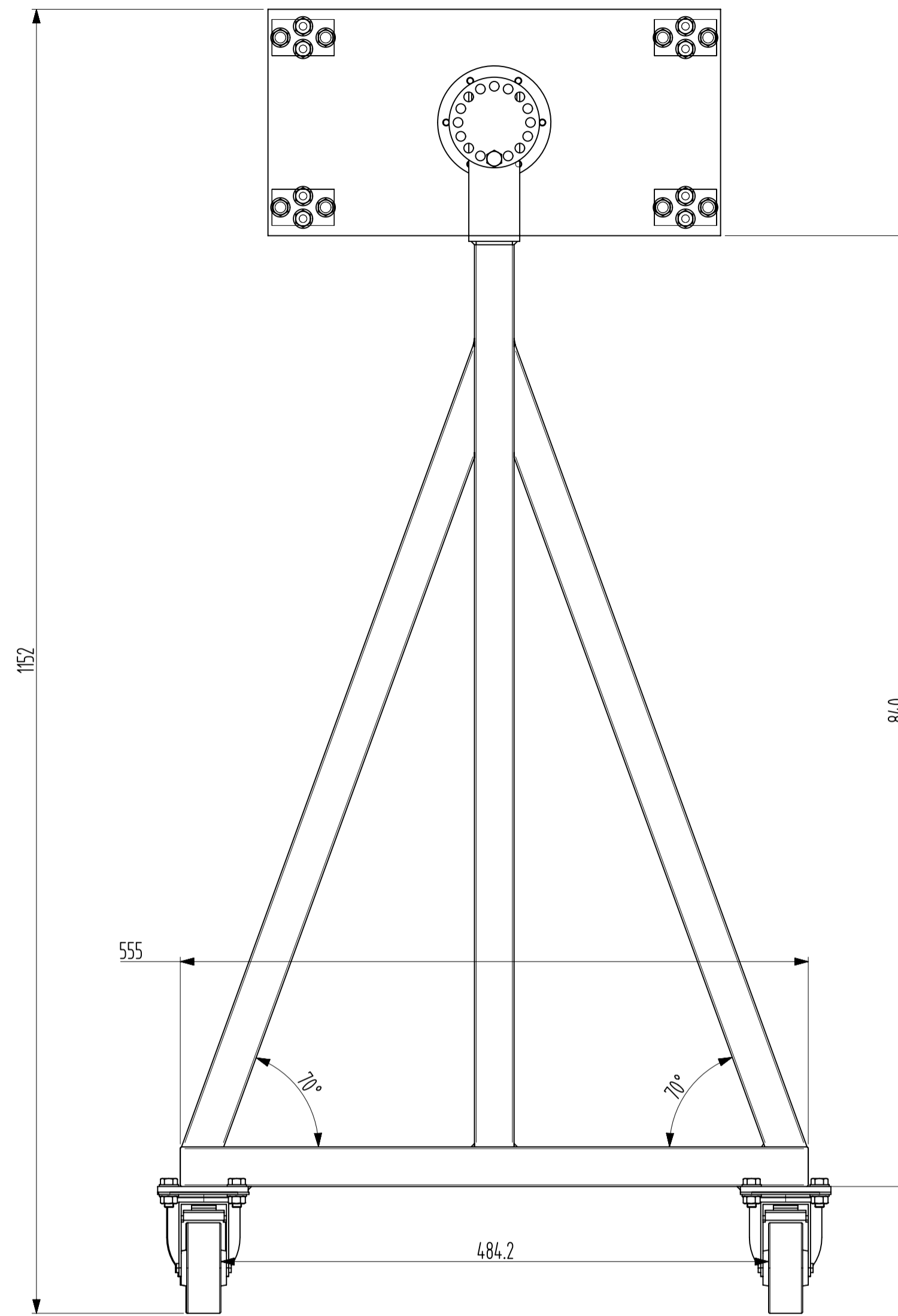
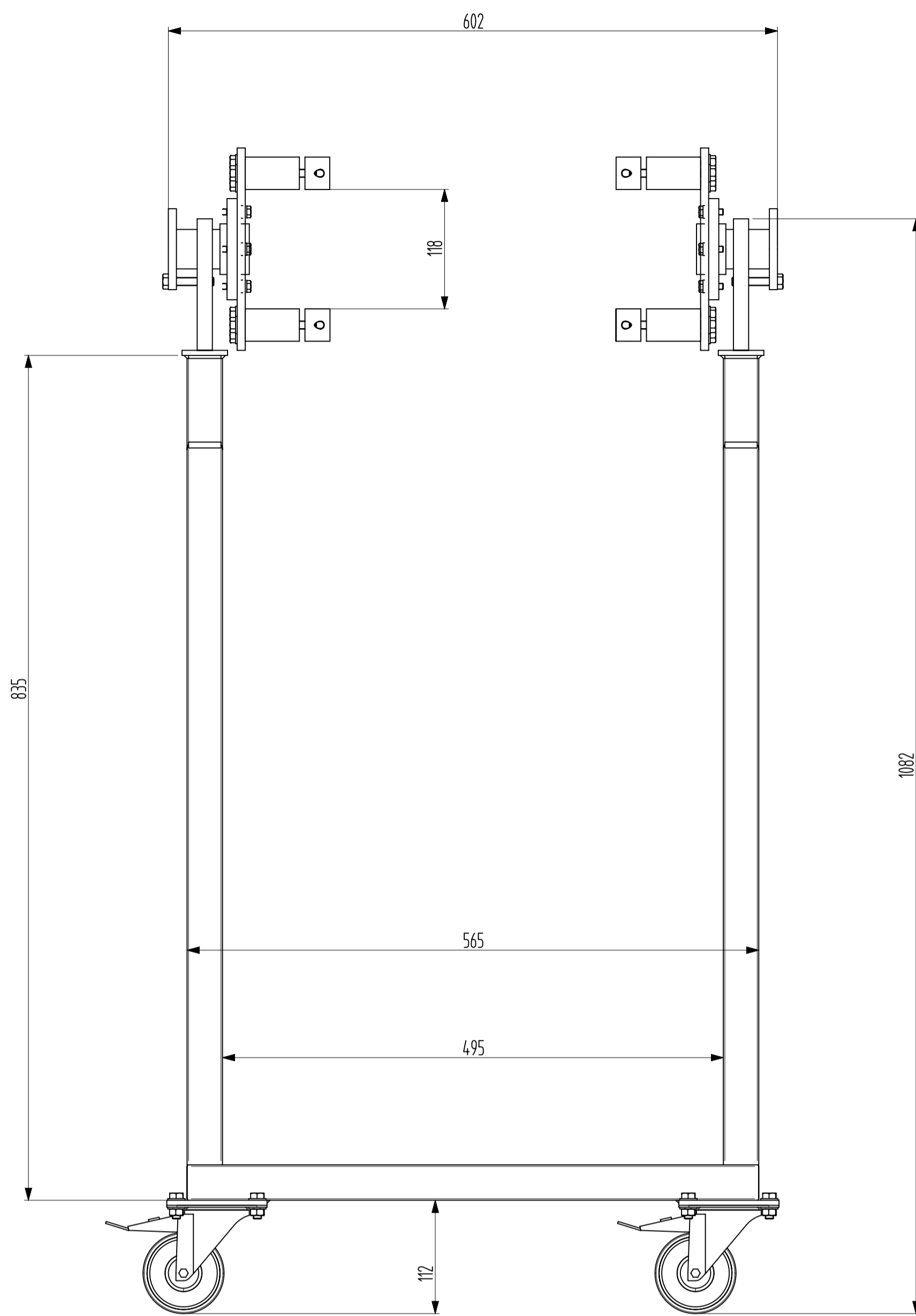
ESS-TOOLING-01.00.01 (Particolari tutti)

La fornitura deve comprendere anche le parti unificate indicate in tabella tutte (viti, rondelle, dadi ecc.)

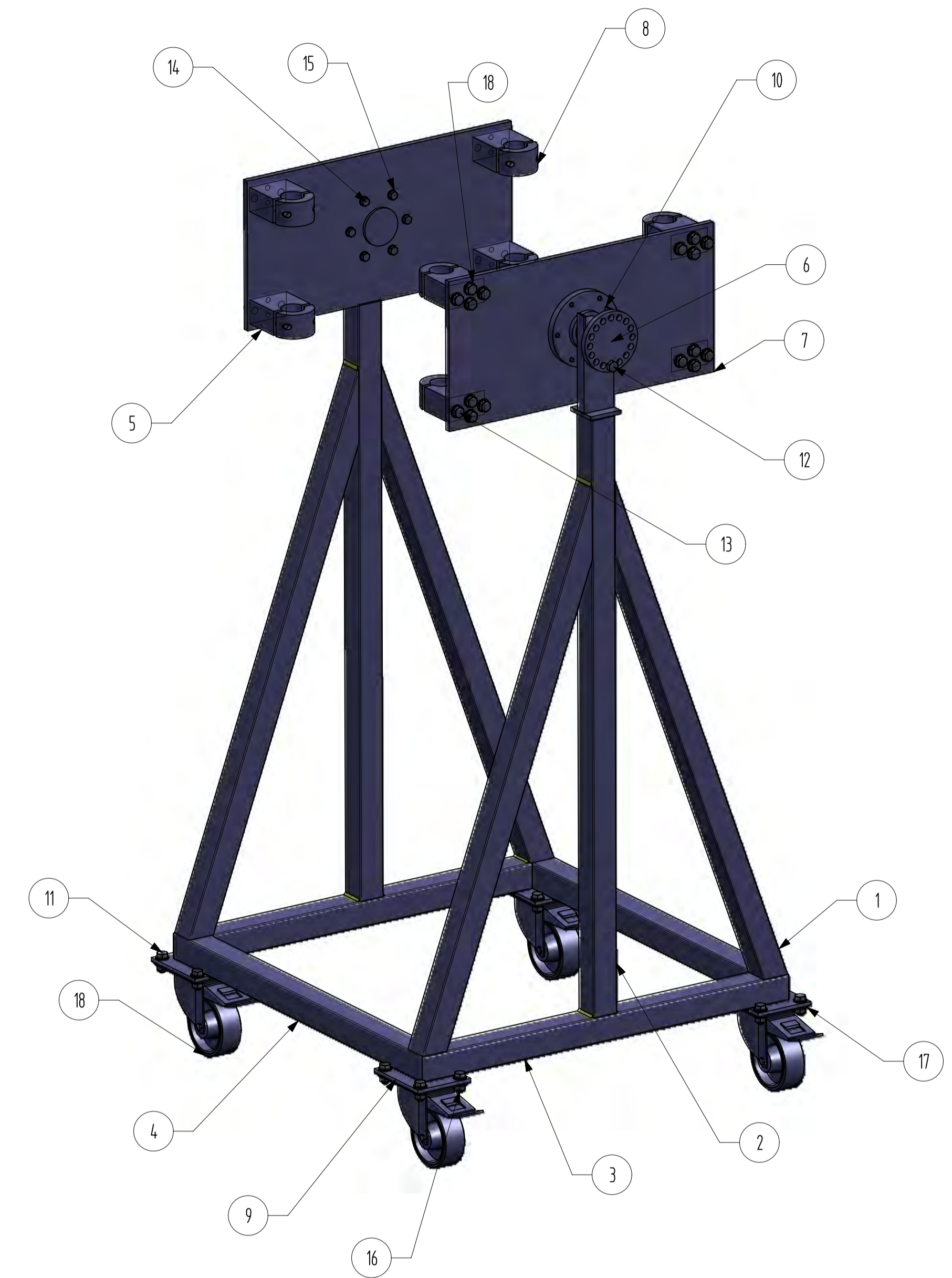
Descrizione:

Carrello composto da tubolari in AISI saldati

Piastre morsetti perni in AISI Elettrolucidati



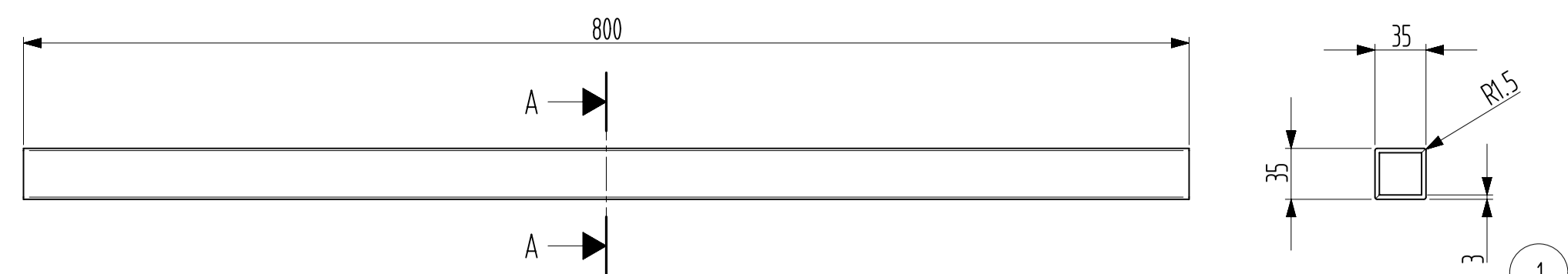
GENERAL TOLERANCES	-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-8000	8000-12000	12000-50000	50000-200000	200000-		
FOR PLATES WORKING	± 1	± 2	± 2	± 3	± 4	± 6	± 8	± 10	± 12	± 14	± 16		
FOR MECHANICAL MACHINING OF SIZE WITHOUT CLEARANCE	-6	6-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-	ANG. DIM.	-6°	6°-30°	30°-120°	120°-
TOLERANCES NOT SPECIFIED	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3		± 1°	± 30'	± 20'	± 10'
WORKING SURFACES ROUGHNESS	ISO	N 10	N 9	N 8	N 7	N 6	N 5	N 4	N 3	N 2			
	N LCA	18	17	16	15	14	13	12	11	10			
	Ra	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05			



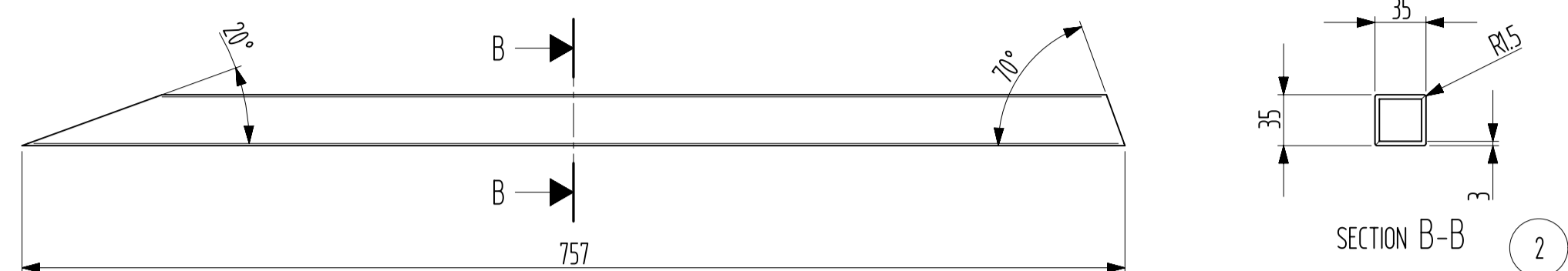
Pos.	Part Name	Qty	Material	Drawing	Note	Weight
18	Herwieu-ep3bd080-281	4				
17	Washer 8,4x17x1,6-UNI-6592	64	A2			0
16	M8, - UNI 5588	16	A2			6
15	Washer 6,4x12,5x1,6 UNI -6592	12	A2			6
14	M6x20-UNI-5627	12	A4			0
13	M8x80-UNI-5627	16	A4			0
12	M8x45-UNI-5627	2	A4			0
11	M8x20-UNI-5627	32	A4			0
10	Aggancio-Piastra	2	ANSI-304			541
9	Piastra-Attacco-Ruote	4	ANSI-304			303
8	Attacco-Tipo-2	8	ANSI-304			180
7	Piastra-inversione	2	ANSI-304			
6	Perno-di-Inversione	2	ANSI-304			1572
5	Attacco-Tipo-1	8	ANSI-304			
4	Tubolare-35x35x555	2	ANSI-304			1570
3	Tubolare-35x35x665	2	ANSI-304			1600
2	Tubolare-35x35x800	2	ANSI-304			2415
1	Tubolare-35x35x757	4	ANSI-304			2121

*Saldare tutto a filo
*Non ci devono essere intercapedini

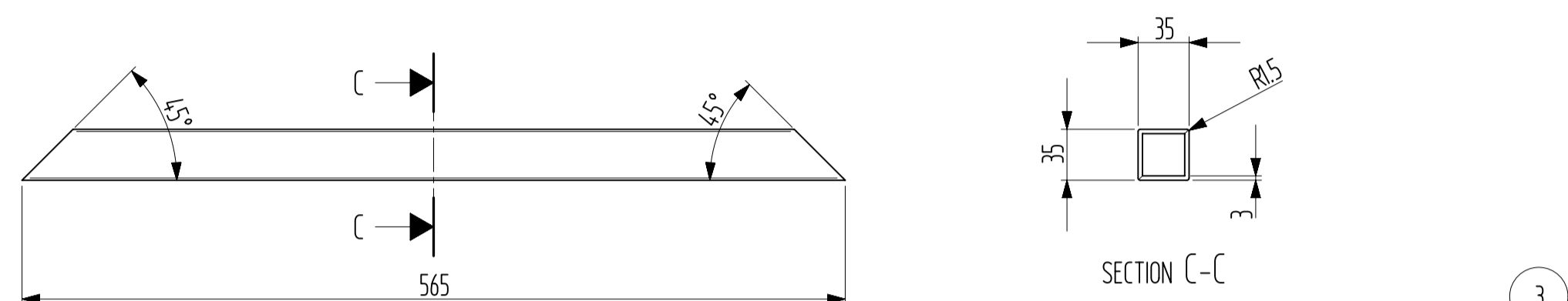
INFN Milano - LASA via Fratelli Cervi, 201 20090 Segrate (MI)	Size: A1	DWG: DWG-Sostegno-Verticale-Cavità	Revision: 0
	Drawn by: M. Chiodini Checked by: P. Michelato 3D part: ASSY-Supporto-Verticale	Date: 2016/01/29 Scale: 1 : 4 Units: mm File name: R:\Projects\ESS\AI-Tooling\Tooling-CB	Note: ESS-TOOLING-01.00.00



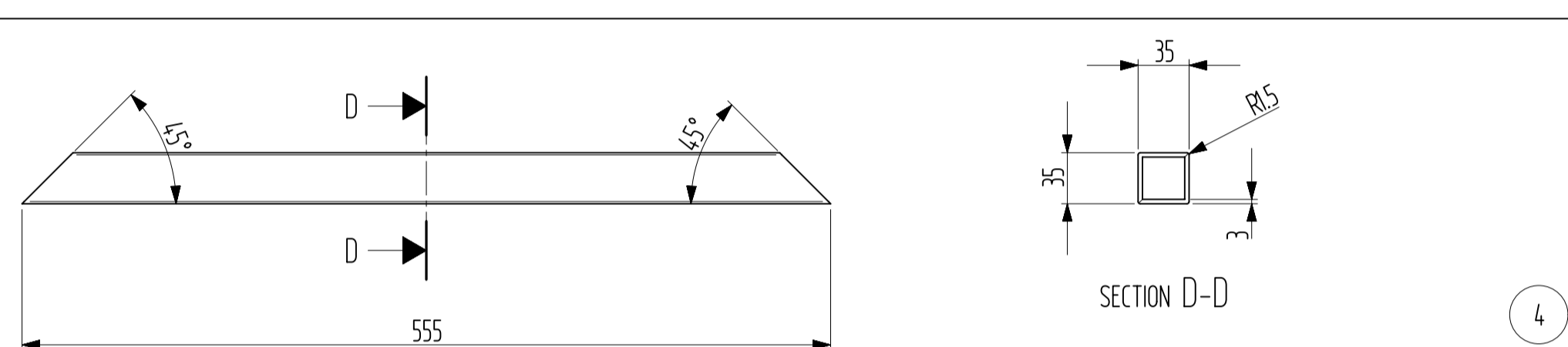
SECTION A-A (1)



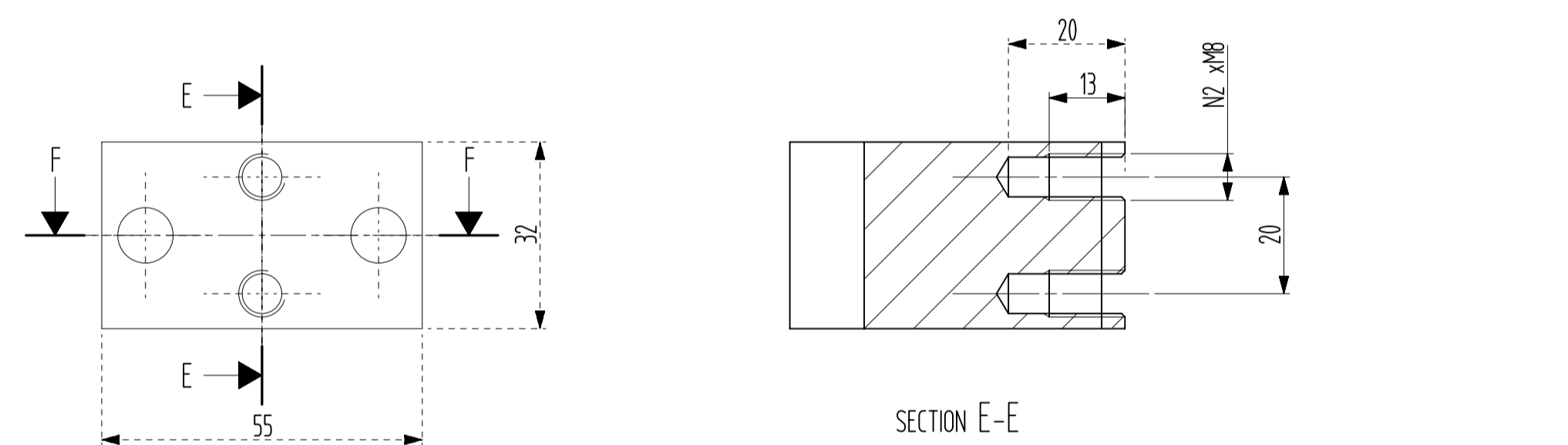
SECTION B-B (2)



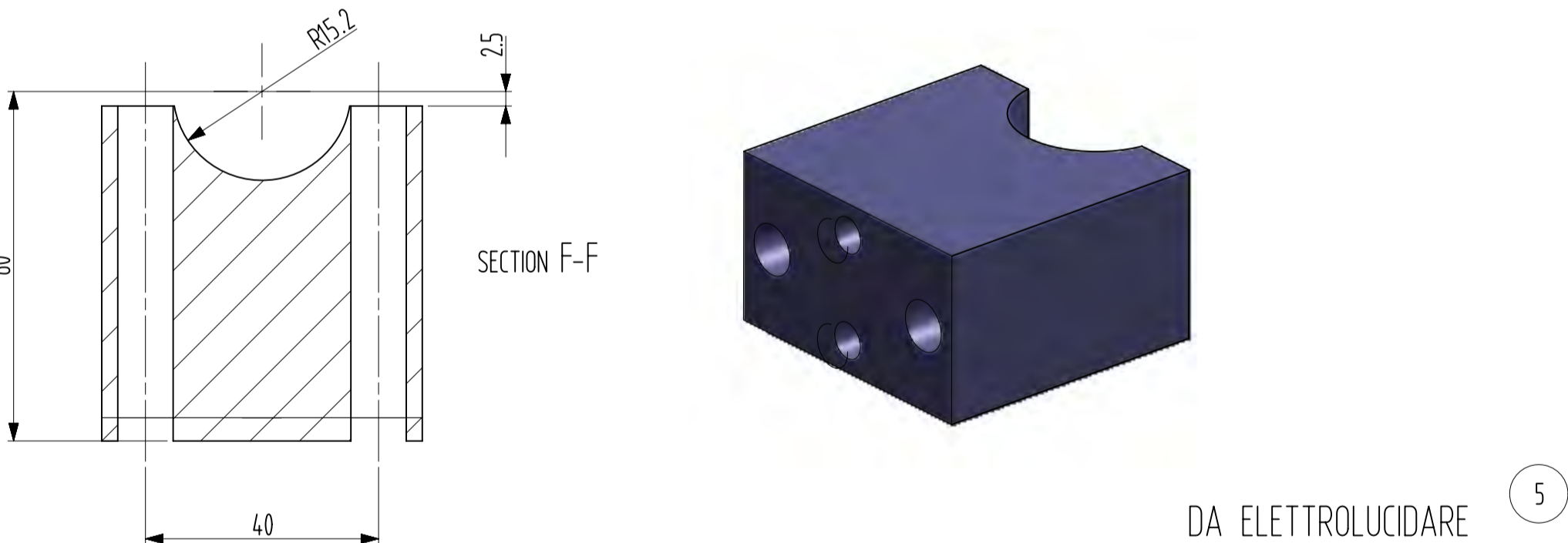
SECTION C-C (3)



SECTION D-D (4)

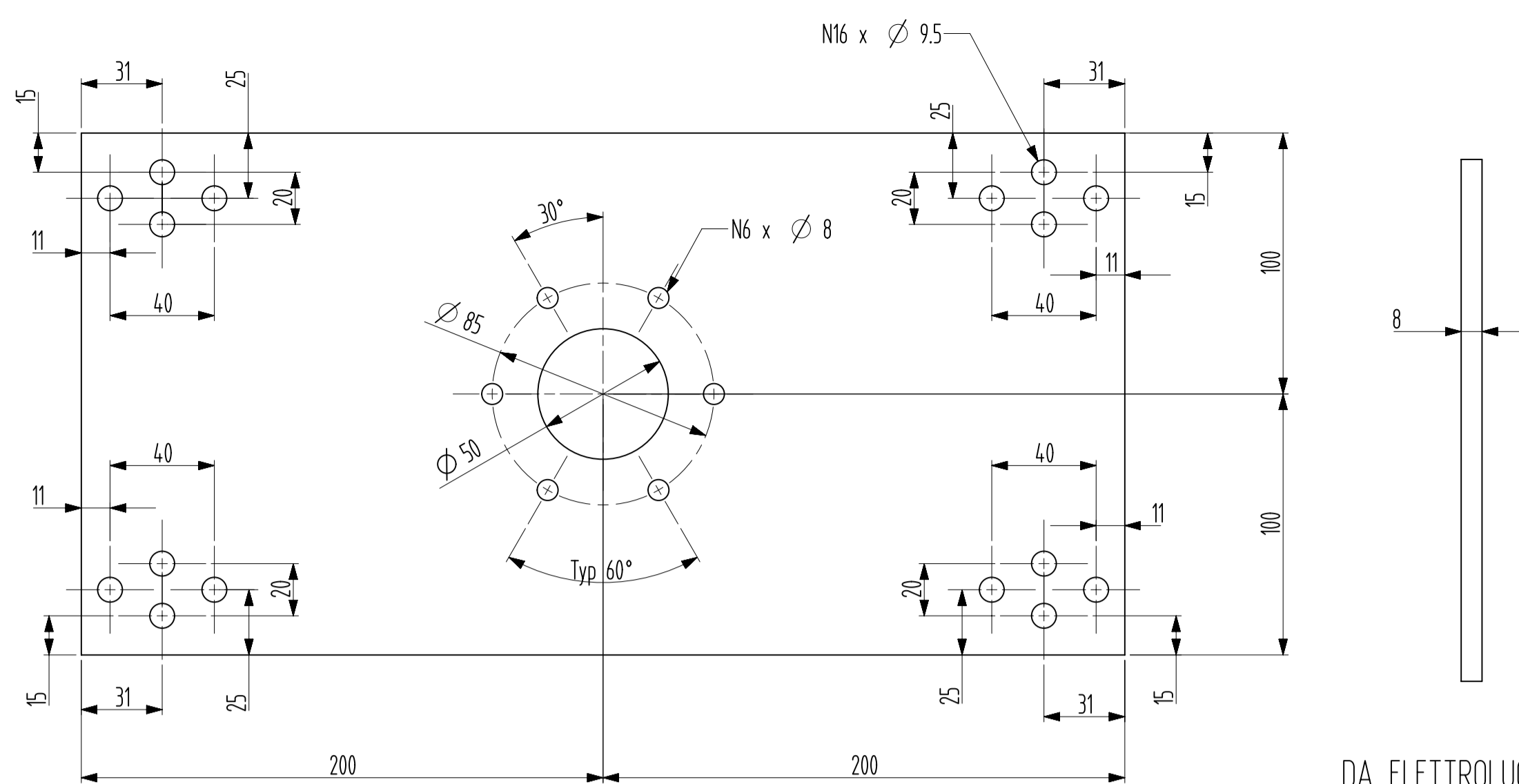


SECTION E-E

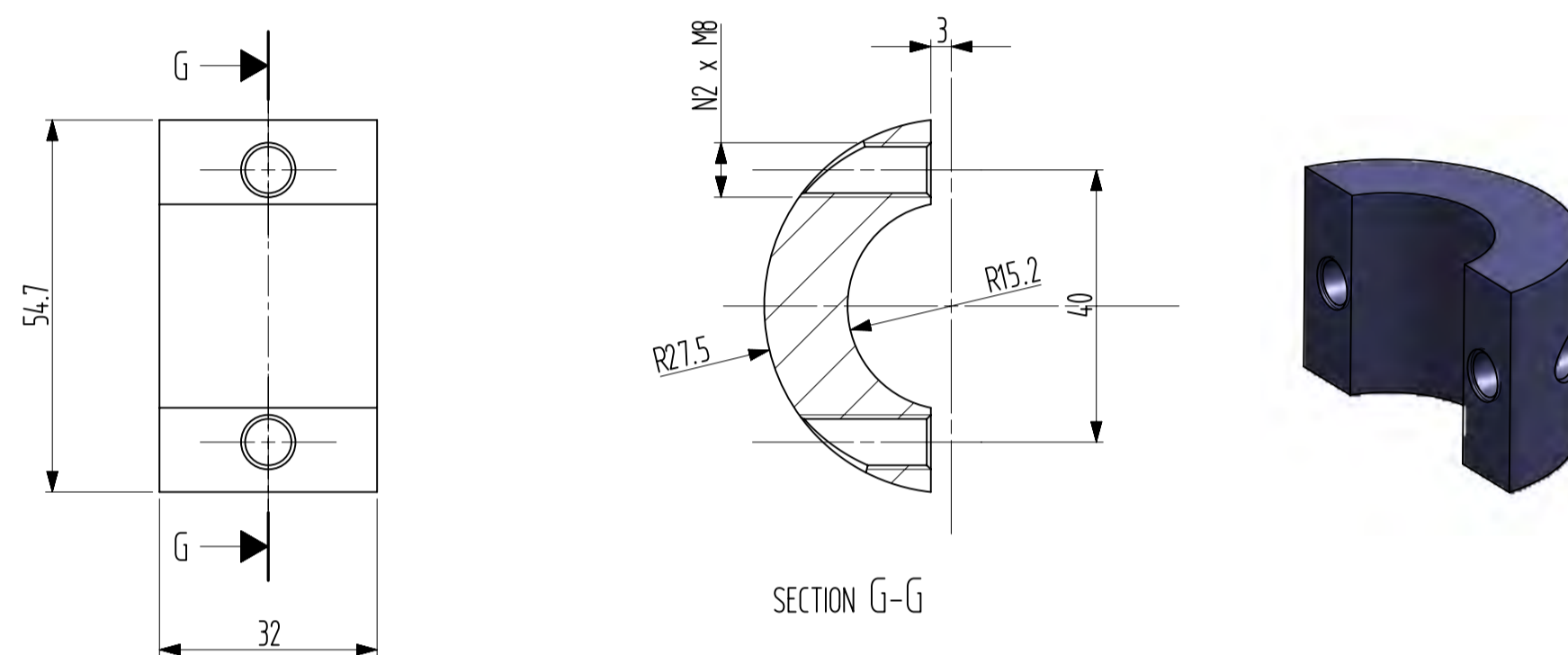


SECTION F-F

DA ELETTRORUCIDARE (5)

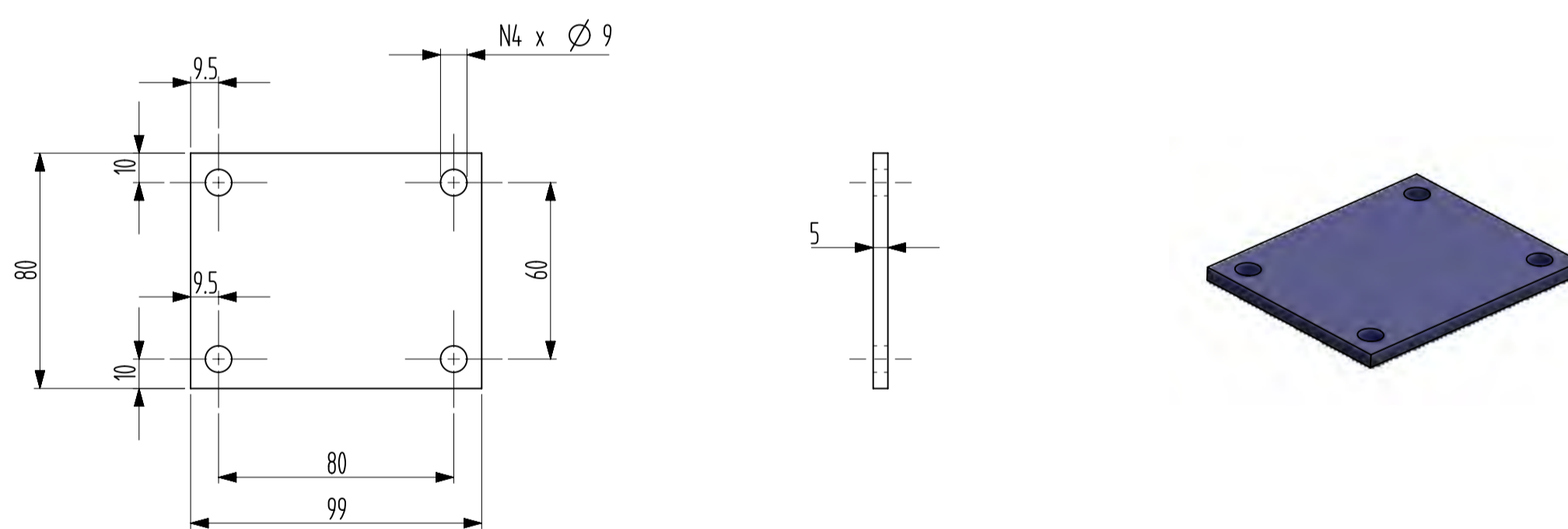


DA ELETTRORUCIDARE (7)

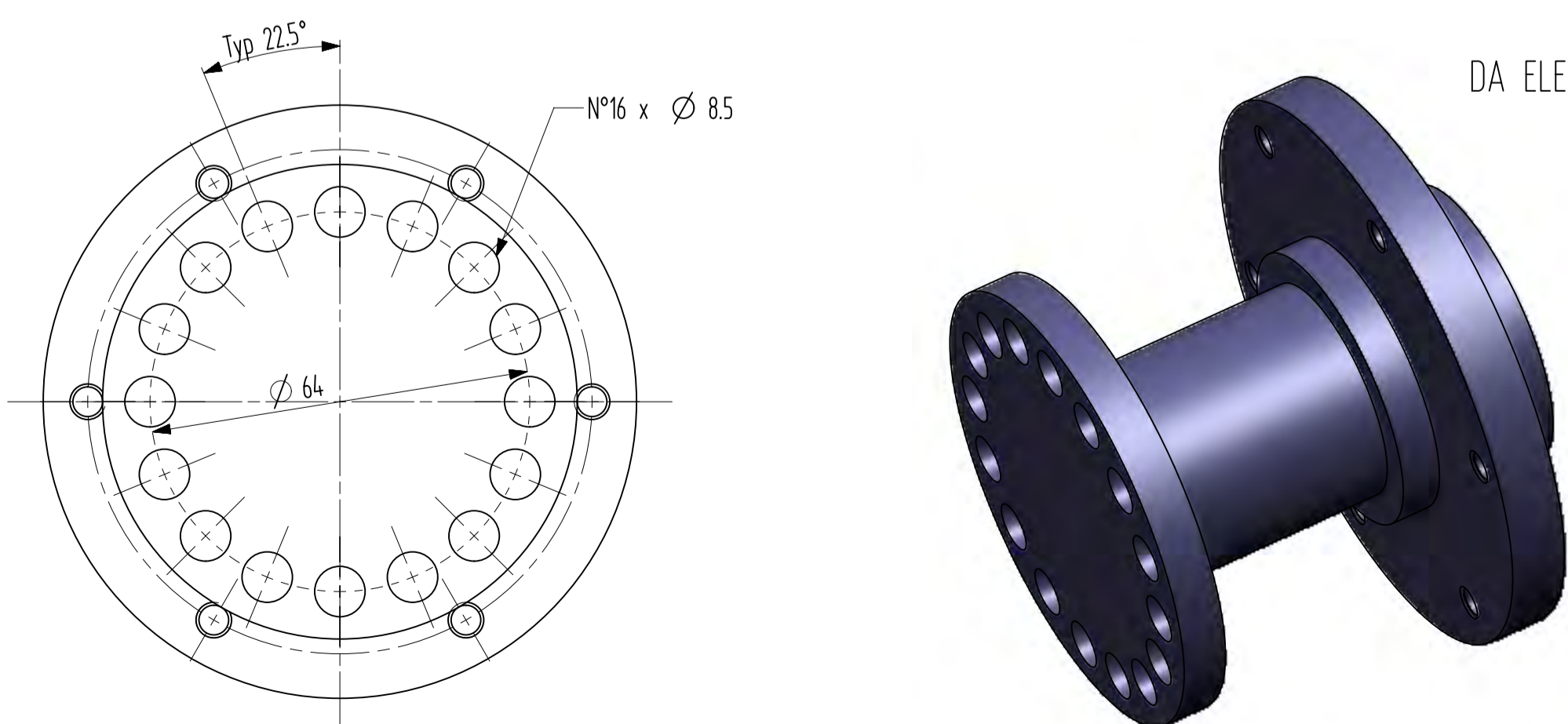
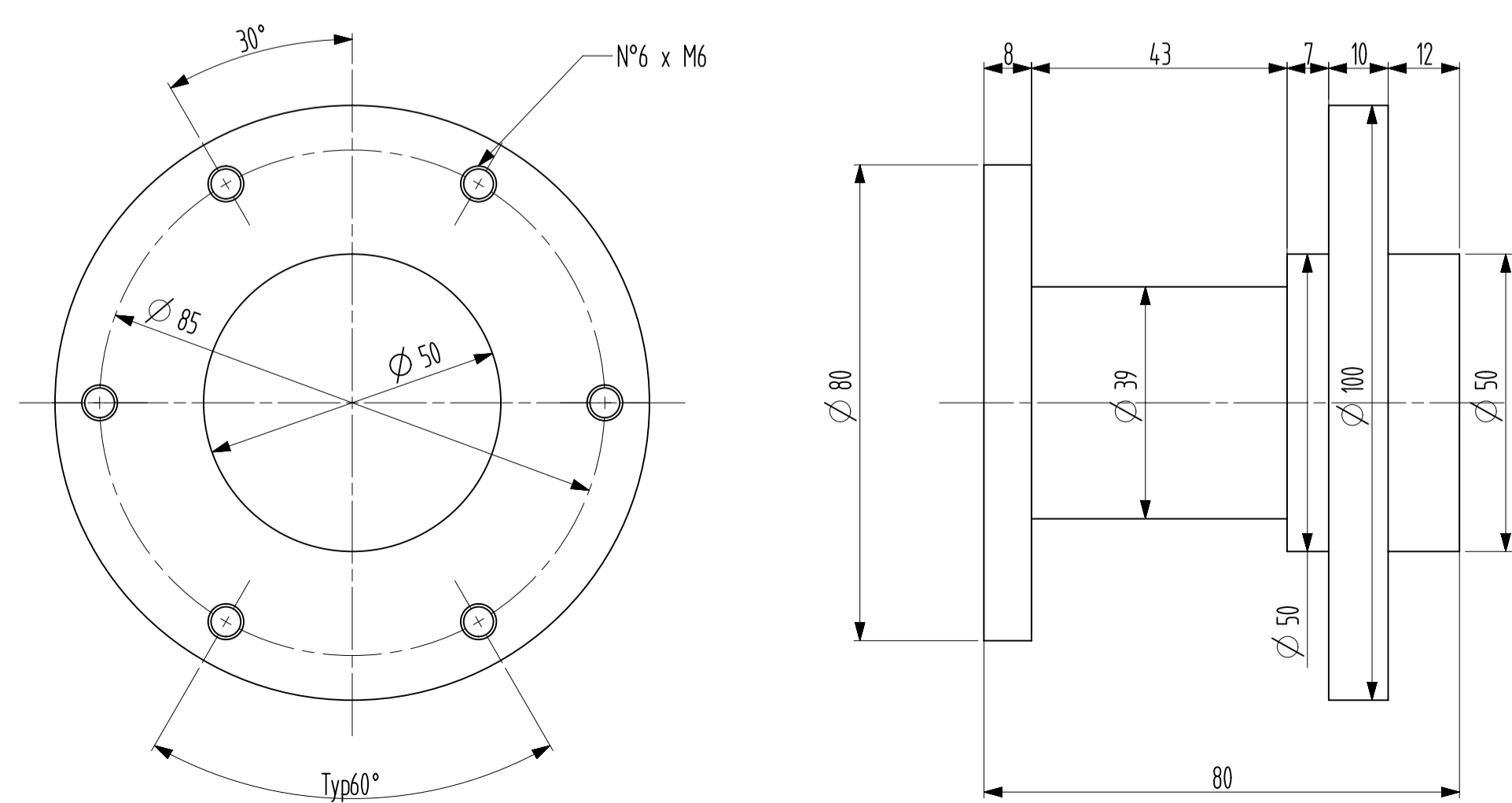


SECTION G-G

DA ELETTRORUCIDARE (8)

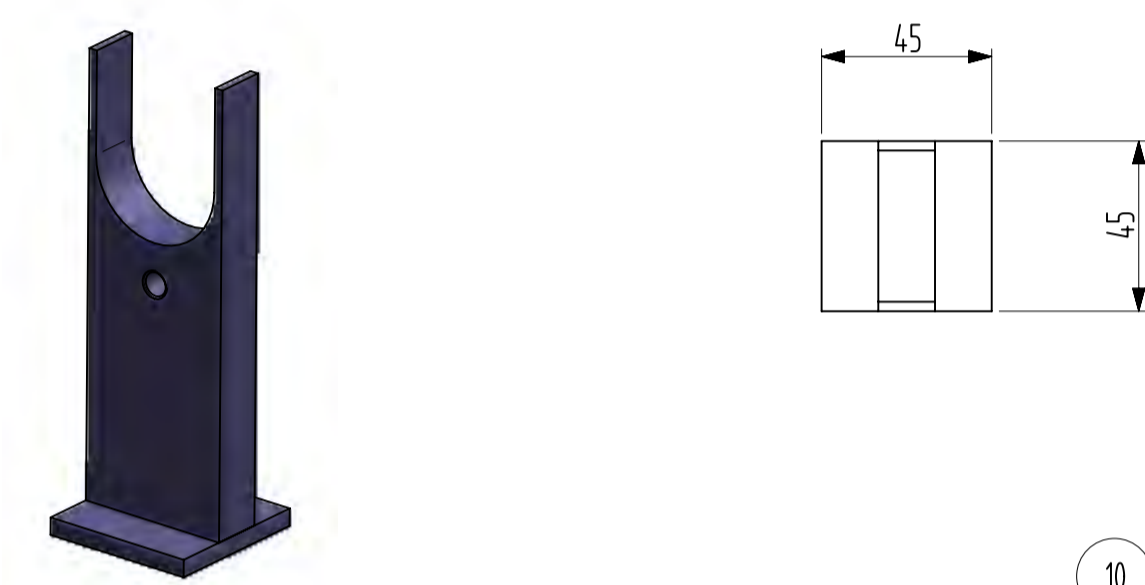
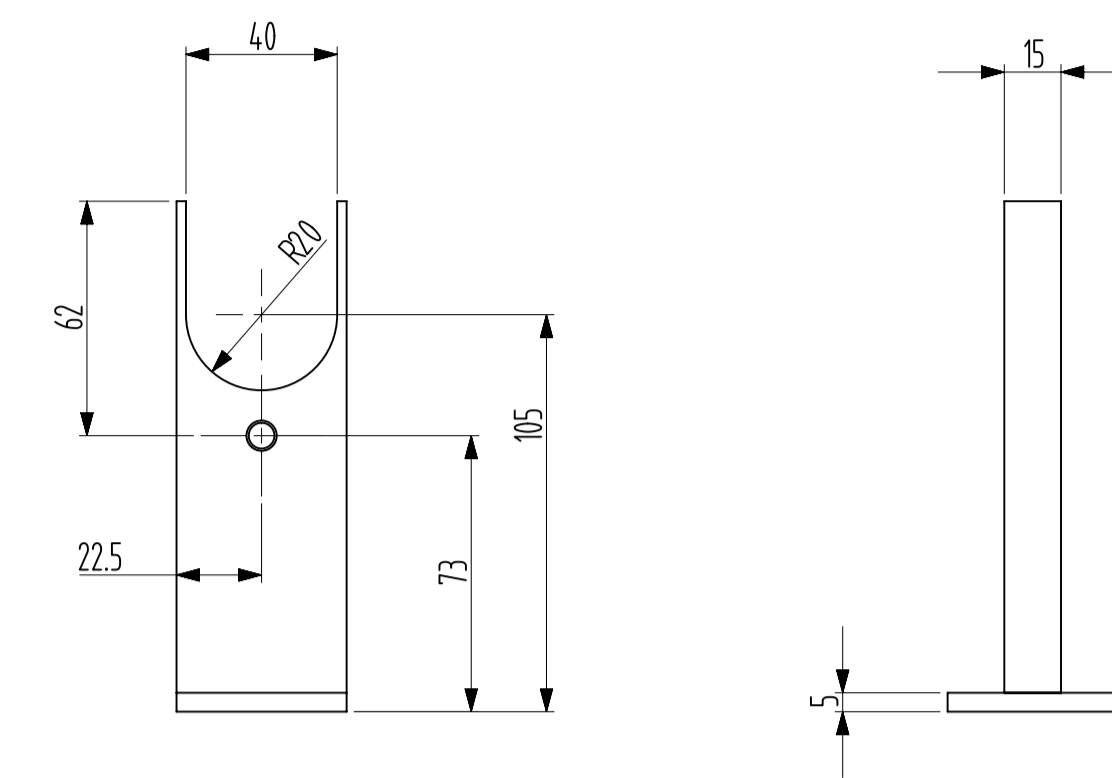


DA ELETTRORUCIDARE (9)



DA ELETTRORUCIDARE (6)

GENERAL TOLERANCES	-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-8000	8000-12000	12000-50000	50000-200000	200000-		
FOR PLATES WORKING	± 1	± 2	± 2	± 3	± 4	± 6	± 8	± 10	± 12	± 14	± 16		
FOR MECHANICAL MACHINING OF SIZE WITHOUT CLEARANCE	-6	6-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-	ANG. DIM.	-6°	6°-30°	30°-120°	120°-
TOLERANCES NOT SPECIFIED	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3		± 1°	± 30'	± 20'	± 10'
WORKING SURFACES ROUGHNESS	ISO N 10	N 9	N 8	N 7	N 6	N 5	N 4	N 3	N 2				
N LCA	18	17	16	15	14	13	12	11	10				
Ra	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05				



(10)

1.6
Smussi non indicati 0.3x45°

Pos.	Part Name	Qty	Material	Drawing	Note	Weight
10	Aggancio-Piastra	2	ANSI-304			541
9	Piastra-Attacco-Ruote	4	ANSI-304			303
8	Attacco-Tipo-2	8	ANSI-304		Da Elettrorucidare	180
7	Piastra-inversione	2	ANSI-304		Da Elettrorucidare	
6	Perno-di-Inversione	2	ANSI-304		Da Elettrorucidare	1572
5	Attacco-Tipo-1	8	ANSI-304		Da Elettrorucidare	
4	Tubolare-35x35x555	2	ANSI-304			1570
3	Tubolare-35x35x565	2	ANSI-304			1600
2	Tubolare-35x35x757	4	ANSI-304			2121
1	Tubolare-35x35x800	2	ANSI-304			2415

INFN Milano - LASA via Fratelli Cervi, 201 20090 Segrate (MI)	Size: <i>DWG: DWG-Sostegno-Verticale-Cavità</i> A1 ESS-TOOLING-01.00.01	Revision: 0
	Drawn by: M. Chiodini Checked by: P. Michelato 3D part: ASSY-Supporto-Verticale	Date: 2016/01/29 Scale: 1:1-1:2-1:4 Units: mm File name: R:\Projects\ESS\AI-Tooling\Tooling-CB\Sostegno-verticale

Beadpull

Si richiede la quotazione per la realizzazione delle parti di seguito descritte

Dis. N°

ESS-TOOLING-02.00.00 (Assieme)

ESS-TOOLING-02.01.00 (Particolari tutti)

ESS-TOOLING-02.02.00 (Particolari tutti)

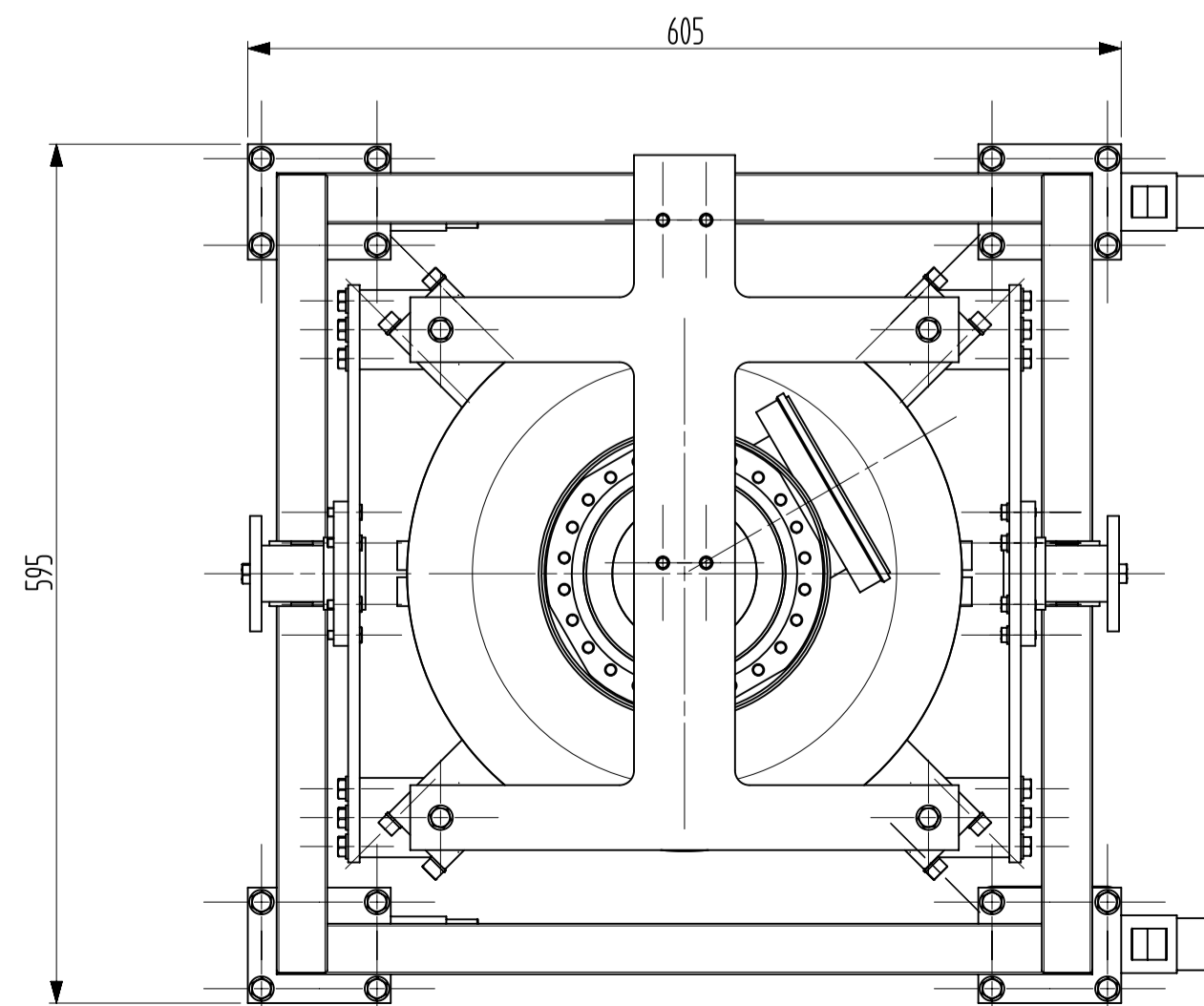
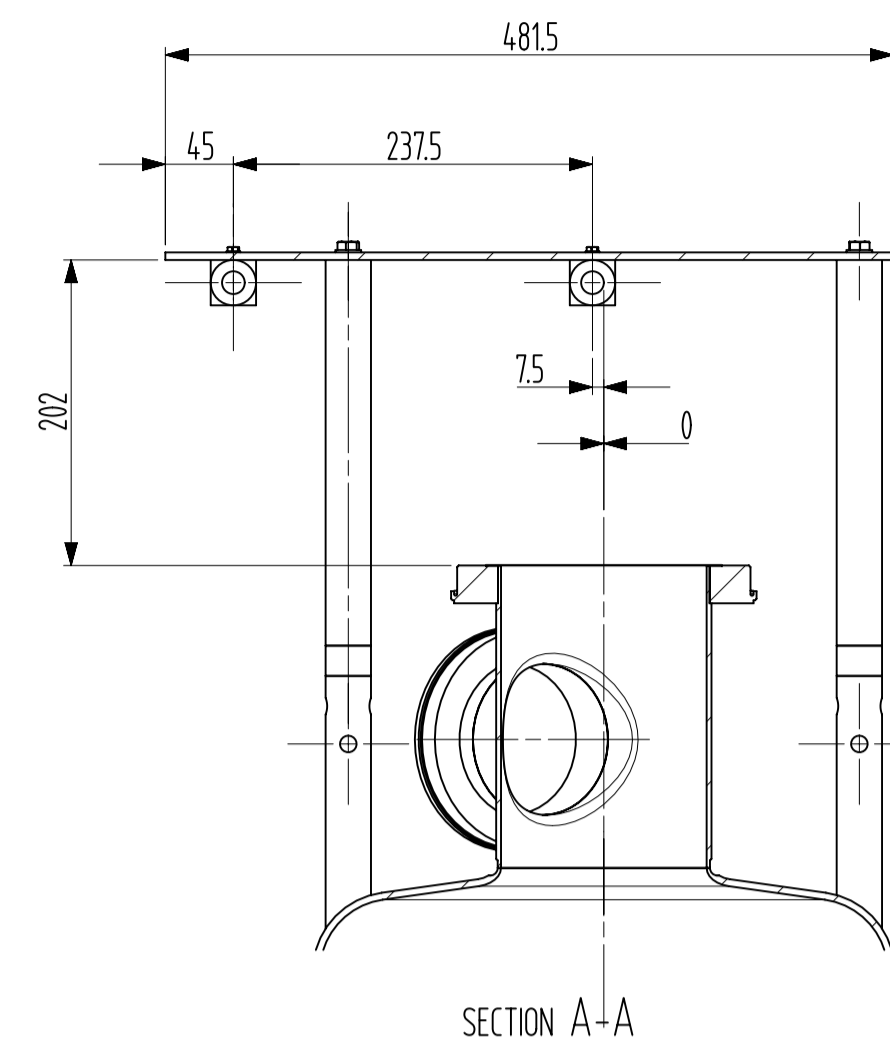
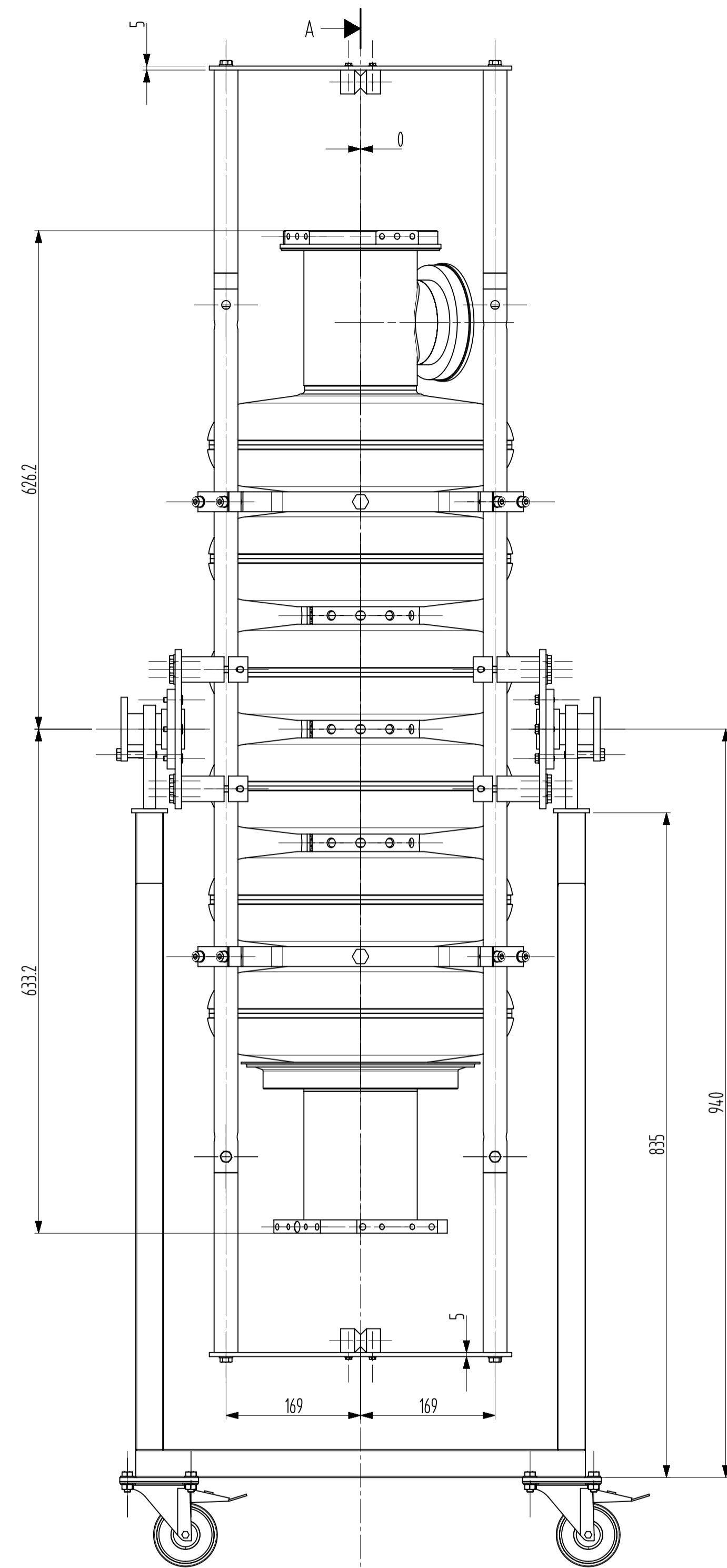
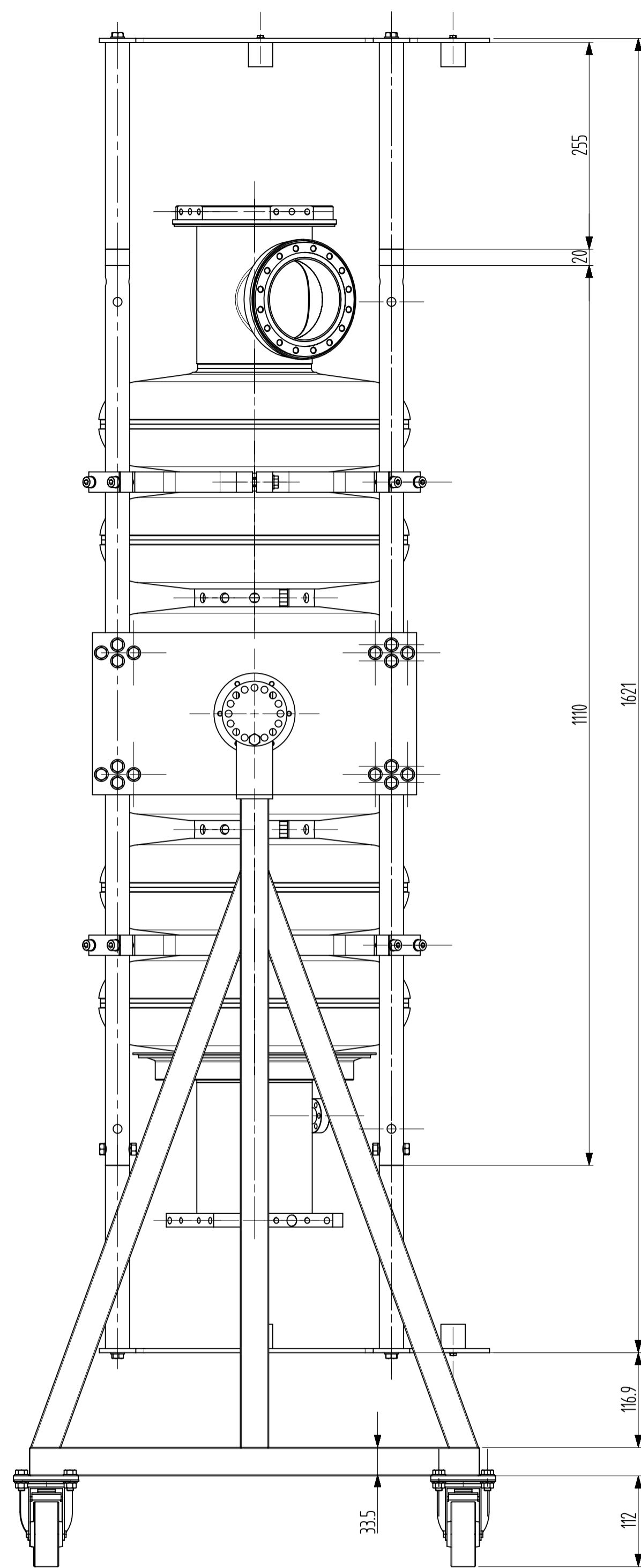
La fornitura deve comprendere anche le parti unificate indicate in tabella tutte (viti, rondelle, dadi ecc.)

Descrizione:

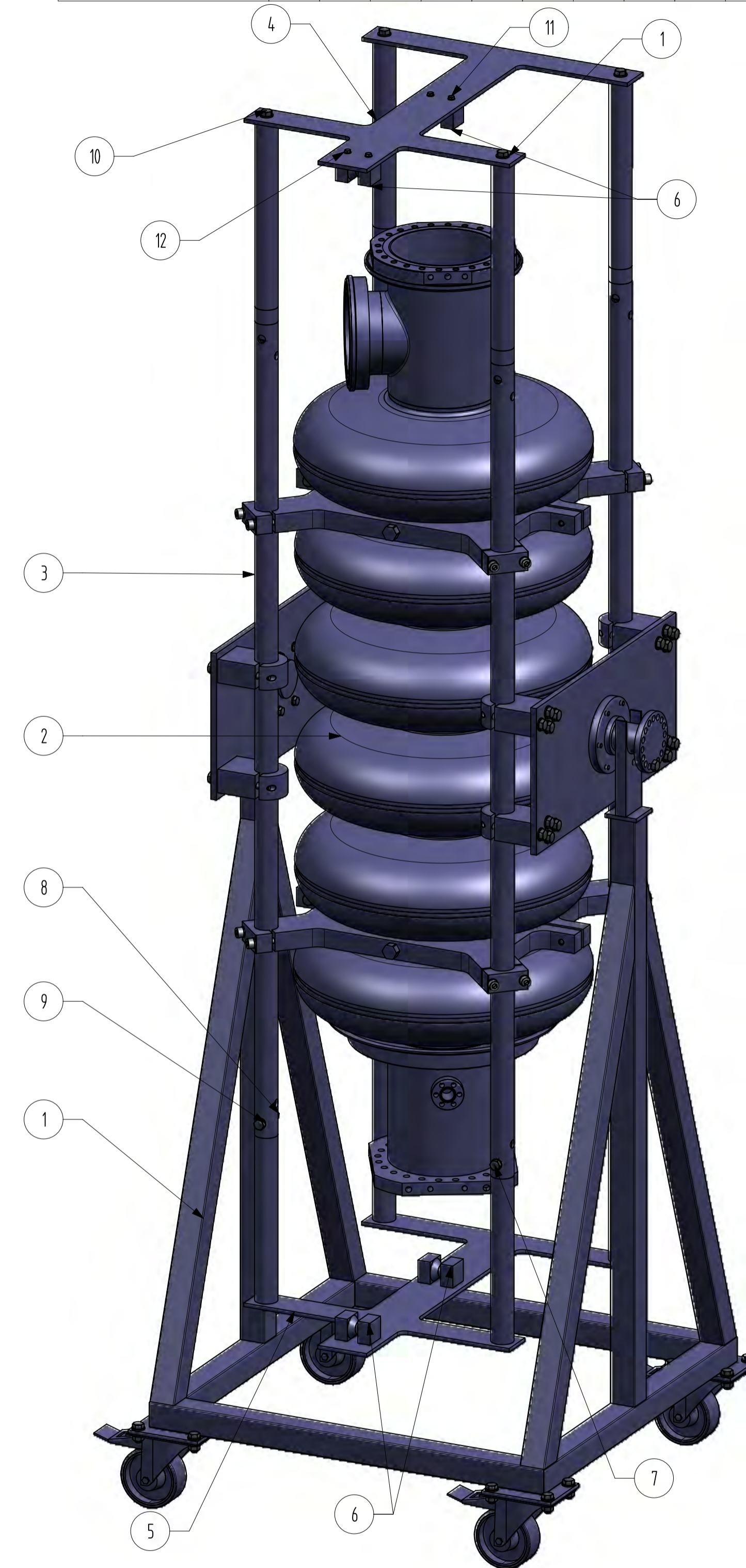
Piastre sagomate in AISI elettrolucidate

Tondi in AISI elettrolucidati

Spine lavorate e rotelle in teflon



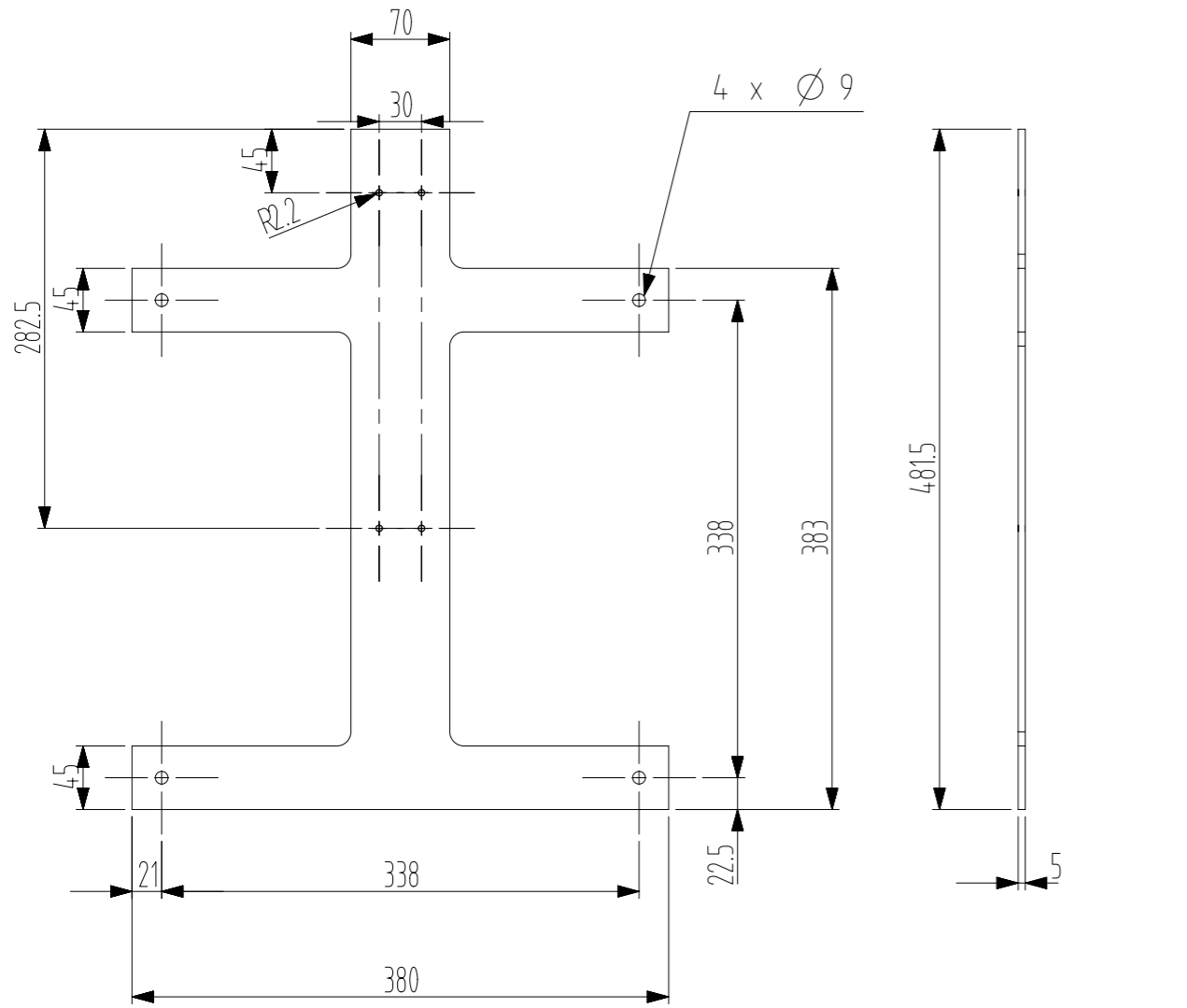
GENERAL TOLERANCES	-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-8000	8000-12000	12000-50000	50000-200000	200000-		
FOR PLATES WORKING	± 1	± 2	± 2	± 3	± 4	± 6	± 8	± 10	± 12	± 14	± 16		
FOR MECHANICAL MACHINING OF SIZE WITHOUT CLEARANCE	-6	6-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-	ANG. DIM.	-6°	6°-30°	30°-120°	120°-
TOLERANCES NOT SPECIFIED	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3		± 1°	± 30'	± 20'	± 10'
WORKING SURFACES ROUGHNESS	ISO	N 10	N 9	N 8	N 7	N 6	N 5	N 4		N 3	N 2		
	N LCA	18	17	16	15	14	13	12		11	10		
	Ra	12.5	6.3	3.2	1.6	0.8	0.4	0.2		0.1	0.05		



Pos.	Part Name	Qty	Material	Drawing	Note	Weight
12	Washer 4,3x9 UNI-6592	8				
11	M4x20 UNI-5627	8				
10	M8x20 UNI-5627	8				
9	Washer 8,4x14 UNI-6592	16				
8	NUT M8 UNI-5627	4				
7	M8x40 UNI-5627	4				
6	Rofella Fissa	4		ESS-TOOLING-02.02.00		
5	Piastra Inferiore	1		ESS-TOOLING-02.01.00		
4	Piastra Superiore	1		ESS-TOOLING-02.01.00		
3	Telaio Cavità	1		ESS-AT-03.00.00/03.00.01		
2	Cavità MB	1		ESS-MB-01.00.00/01.01.00/01.02.00/01.02.01		
1	Supporto Verticale	1		ESS-TOOLING-01.00.00/01.00.01		

Pos.	Part Name	Qty	Material	Drawing	Note	Weight
12	Washer 4,3x9 UNI-6592	8				
11	M4x20 UNI-5627	8				
10	M8x20 UNI-5627	8				
9	Washer 8,4x14 UNI-6592	16				
8	NUT M8 UNI-5627	4				
7	M8x40 UNI-5627	4				
6	Rofella Fissa	4		ESS-TOOLING-02.02.00		
5	Piastra Inferiore	1		ESS-TOOLING-02.01.00		
4	Piastra Superiore	1		ESS-TOOLING-02.01.00		
3	Telaio Cavità	1		ESS-AT-03.00.00/03.00.01		
2	Cavità MB	1		ESS-MB-01.00.00/01.01.00/01.02.00/01.02.01		
1	Supporto Verticale	1		ESS-TOOLING-01.00.00/01.00.01		

Size:	DWG:	DWG-Bead-Pull-Complessivo	Revision:
A1	ESS-TOOLING-02.00.00		0
Drawn by:	M. Chiodini	Date:	2016/03/15
Checked by:		Scale:	1 : 5
Approved by:	P. Michelato	Units:	mm
3D part:	ASSY-Supporto-Verticale-Completo	File name:	R:\Projects\ESS\AI-Tooling\Tooling-CB

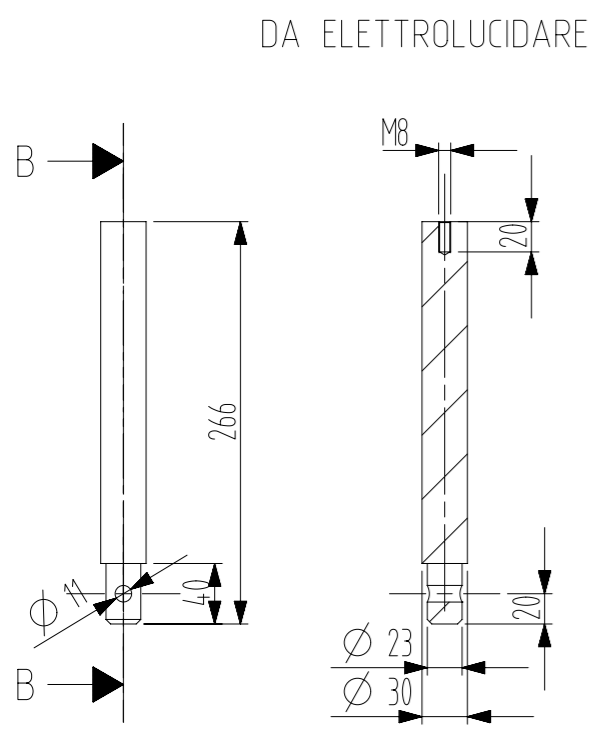


DA ELETTROLUCIDARE ①

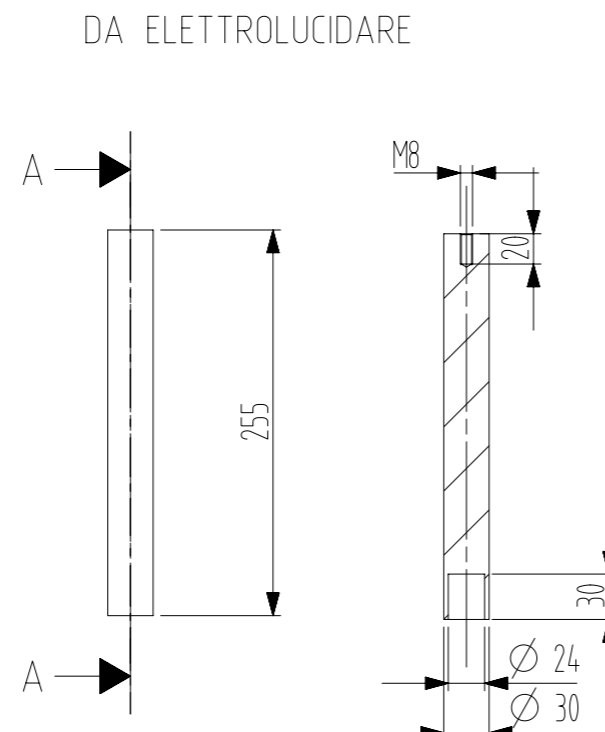
GENERAL TOLERANCES	-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-8000	8000-12000	12000-16000	16000-20000	20000-		
FOR PLATES WORKING	± 1	± 2	± 2	± 3	± 4	± 6	± 8	± 10	± 12	± 14	± 16		
FOR MECHANICAL MACHINING OF SIZE WITHOUT CLEREANCE	-6	6-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-	ANG. DIM.	-6°	6°-30°	30°-120°	120°-
TOLERANCES NOT SPECIFIED	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3		± 1°	± 30'	± 20'	± 10'
WORKING SURFACES ROUGHNESS	ISO	N 10	N 9	N 8	N 7	N 6	N 5	N 4	N 3	N 2			
	N LCA	18	17	16	15	14	13	12	11	10			
	Ra	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05			



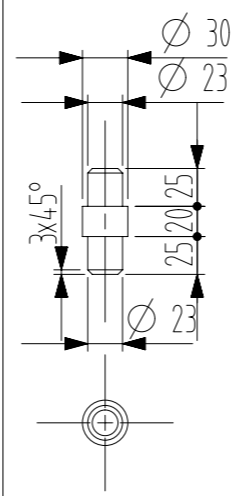
Smussi non indicati 0.3x45°




SECTION B-B ②



SECTION A-A ③



4	Adattatore Teflon	4	Teflon			
3	Tirante Superiore	4	AISI 304		DA ELETTROLUCIDARE	
2	Tirante Inferiore	4	AISI 304		DA ELETTROLUCIDARE	
1	Piastra	2	AISI 304		DA ELETTROLUCIDARE	
Pos.	Part Name	Qty	Material	Drawing	Note	Weight


 INFN Milano - LASA
 via Fratelli Cervi, 201
 20090 Segrate (MI)

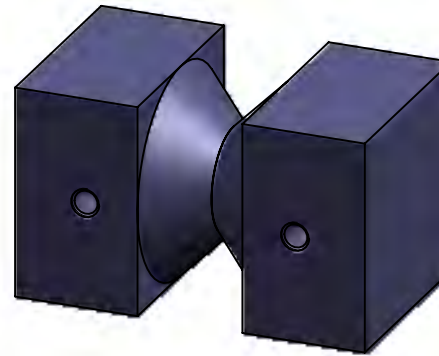
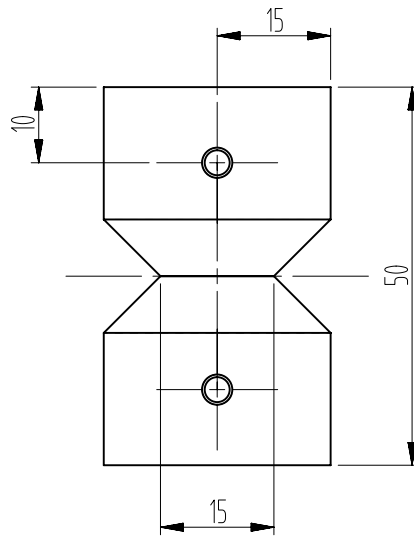
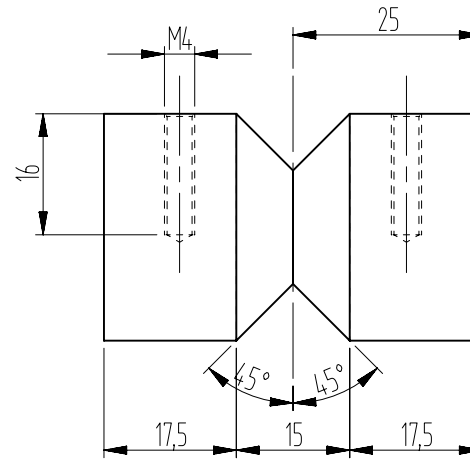
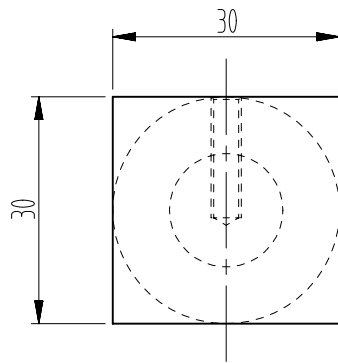
Size: **A3**
 DWG: DWG-ASSY-Piastre
ESS-TOOLING-02.01.00
 Revision: **0**

Drawn by: L.Sagliano
 Date: 2016/01/25
 Sheet 1 of 1

Experience: **ESS**
 Checked by: P.Michelato
 Scale: 1 : 5


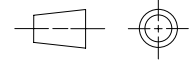
Object: **Attrezzatura-Camera-Bianca**
 Approved by: P.Michelato
 Units: mm

3D part: ASSY-PIASTRE
 File name: R:\Projects\ESS\AT-Tooling\Tooling-CB\Sostegno-verticale



1.6

Smussi non indicati 0.3x45°

Pos.	Part Name	Qty	Material	Drawing	Note	Weight
1	Rotella-Fissa	4	Teflon			
		INFN Milano - LASA via Fratelli Cervi, 201 20090 Segrate (MI)		Size: A4 Drawn by: L.Sagliano	DWG: DWG-Blocco-rotella-fissa ESS-TOOLING-02.02.00 Date: 2016/02/09	Revision: 0
Experience: ESS Object: Bead-Pull		Checked by: Approved by: P.Michelato		Scale: 1 : 1 Units: mm		
3D part: Blocco-rotella-fissa			File name: R:\Projects\ESS\AT-Tooling\Tooling-CB1Ruote			

Sistema di aggancio cavità al carro ponte

Si richiede la quotazione per la realizzazione delle parti di seguito descritte

Dis. N°

ESS-TOOLING-03.00.00 (Complessivo)

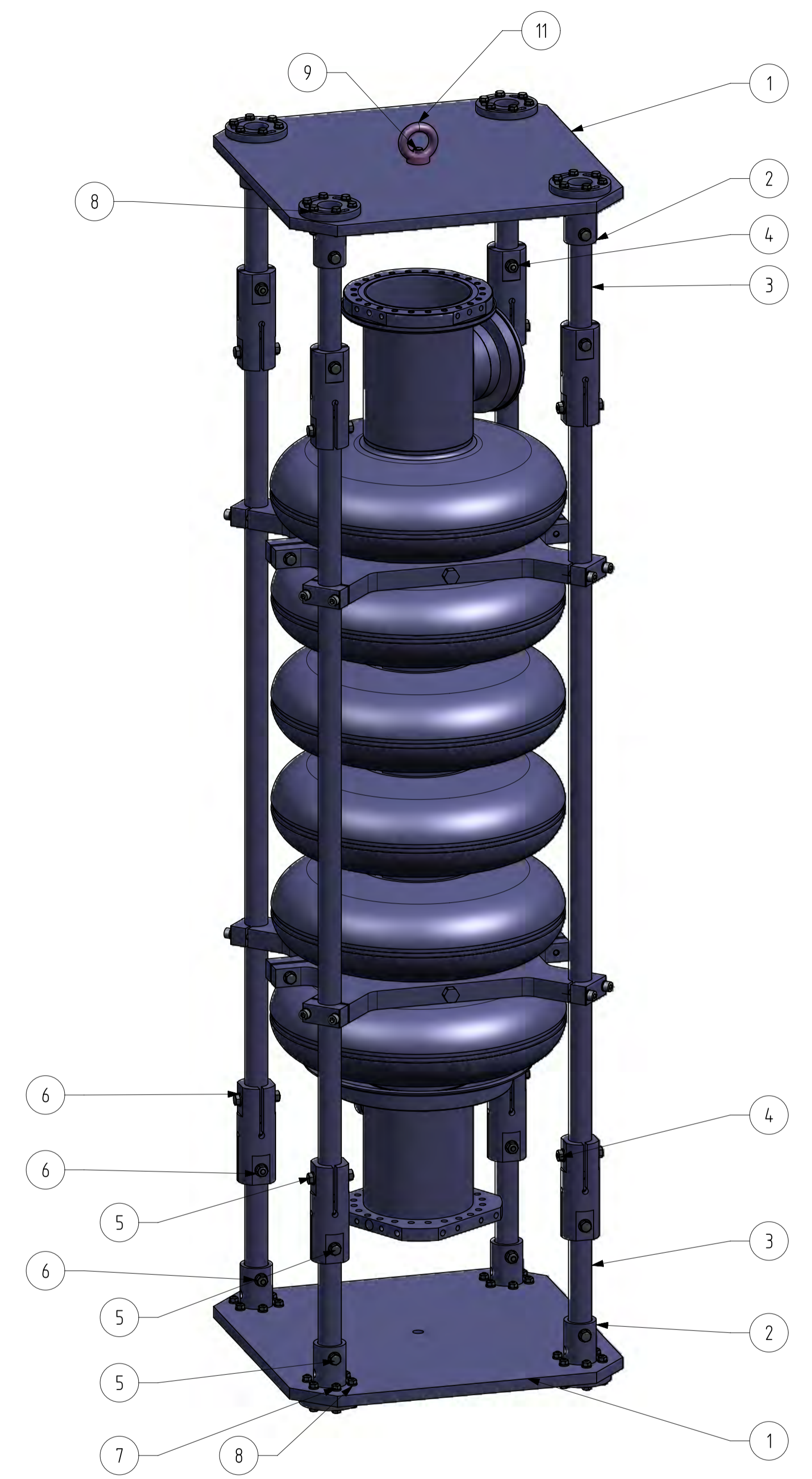
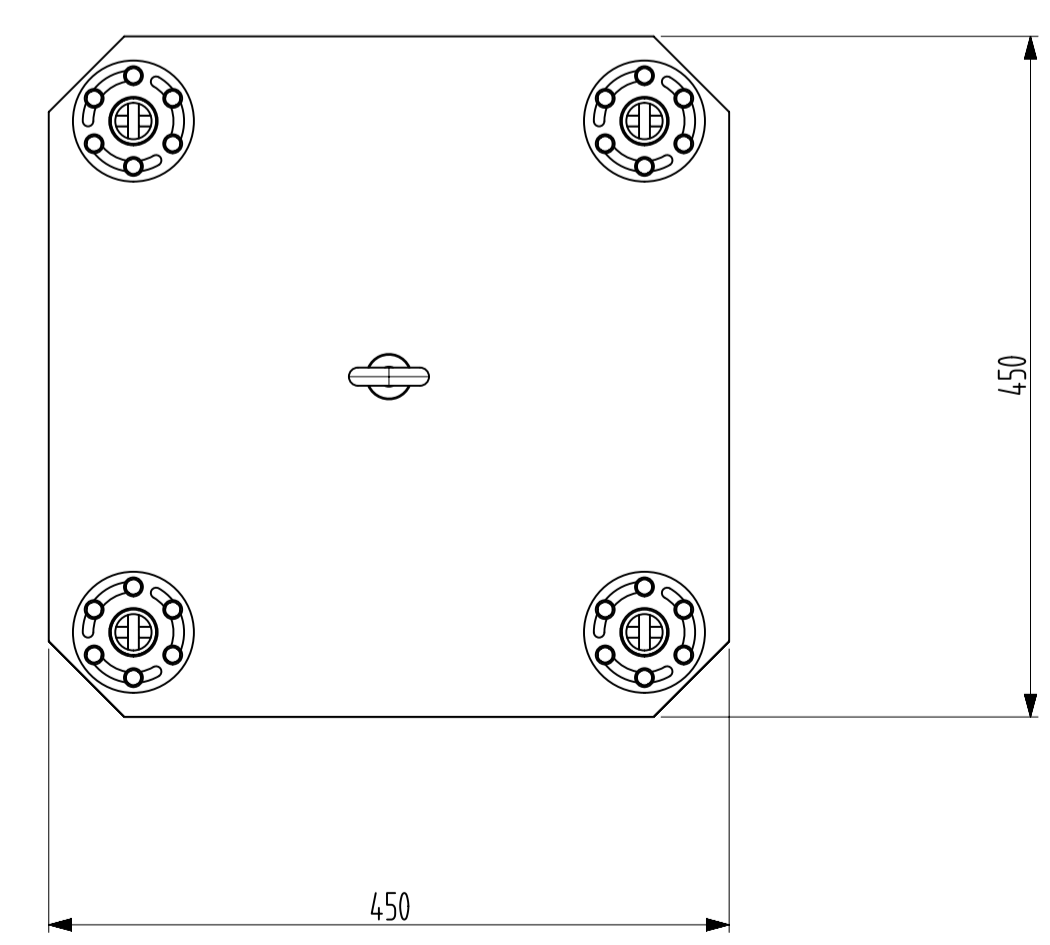
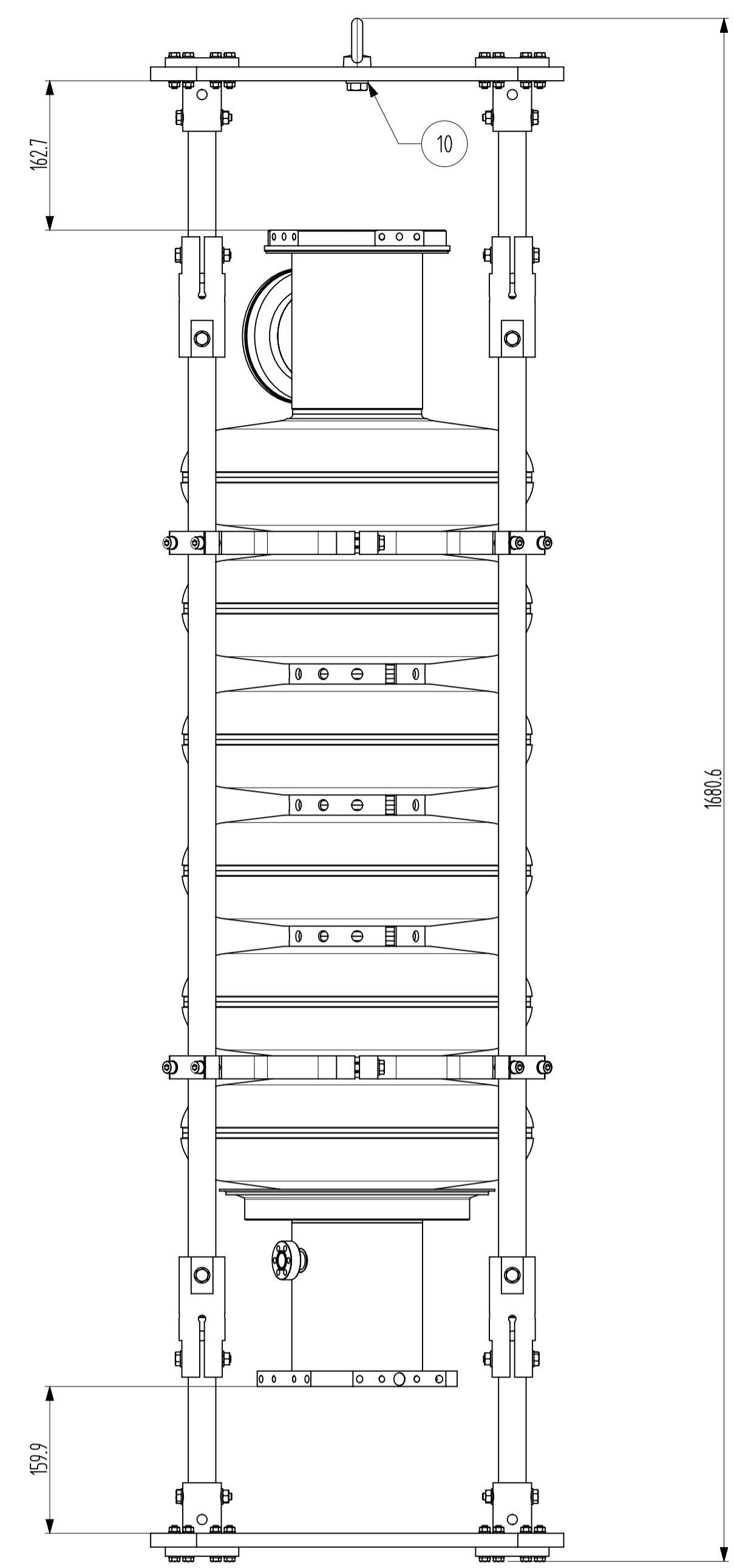
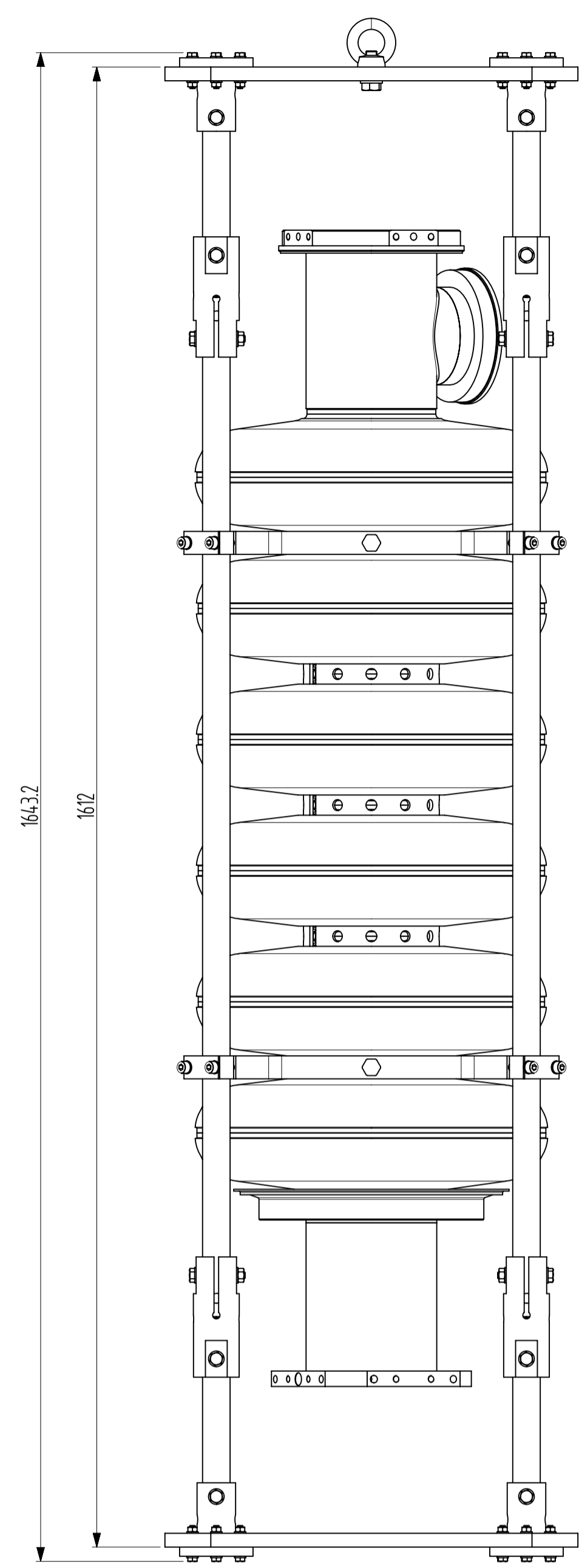
ESS-TOOLING-03.00.01 (Particolari tutti)

ESS-TOOLING-03.00.02 (Particolari tutti)

La fornitura deve comprendere anche le parti unificate indicate in tabella tutti (viti, rondelle, dadi ecc.)

Descrizione:

Piastre tubi e canotti saldati in AISI

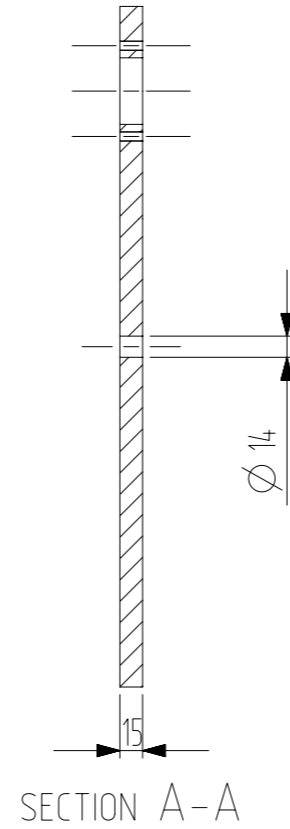
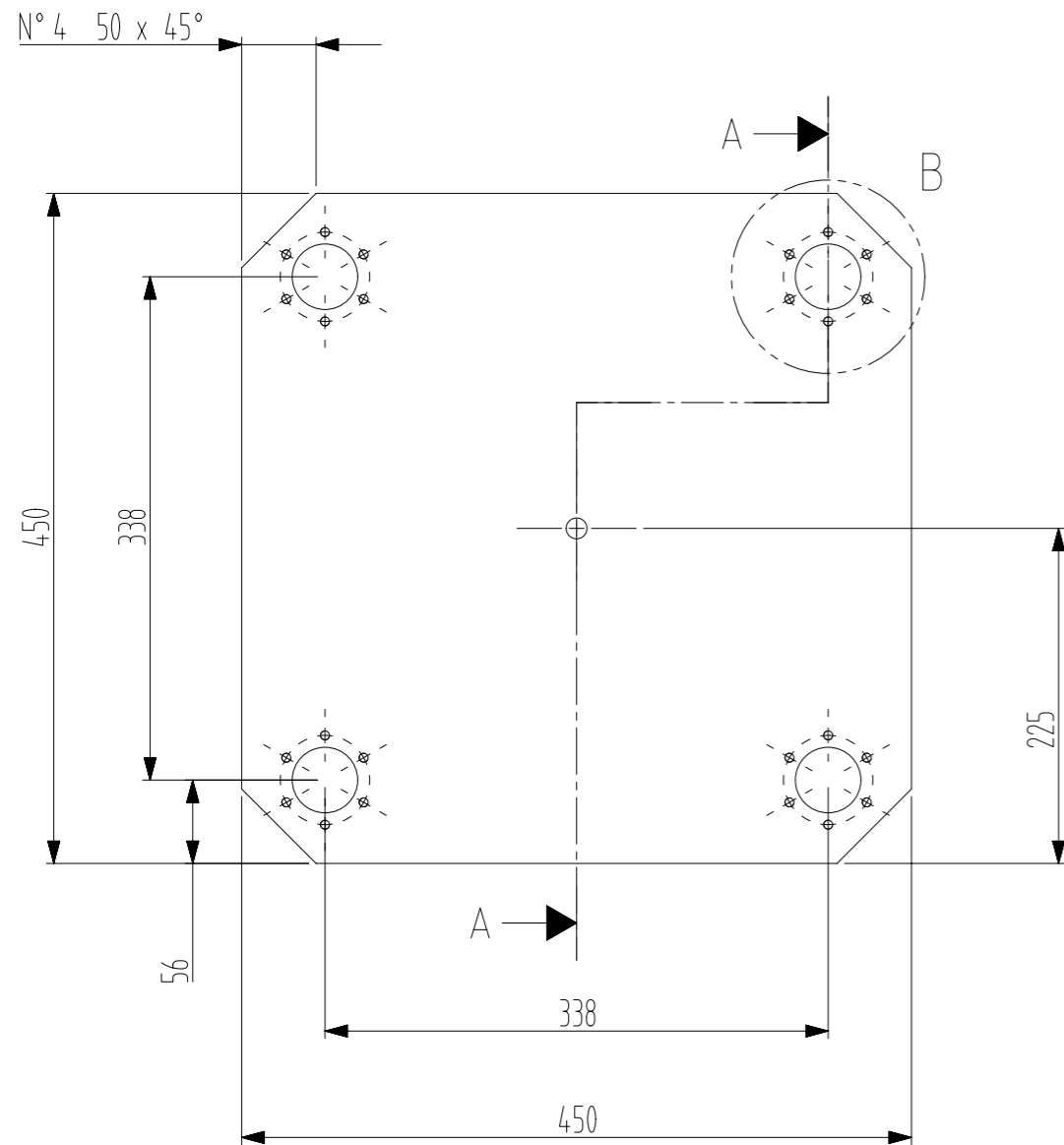


GENERAL TOLERANCES	-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-8000	8000-12000	12000-16000	16000-20000	20000-		
FOR PLATES WORKING	± 1	± 2	± 2	± 3	± 4	± 6	± 8	± 10	± 12	± 14	± 16		
FOR MECHANICAL MACHINING OF SIZE WITHOUT CLEARANCE	-6	6-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-	ANG. DIM.	-6°	6°-30°	30°-120°	120°-
TOLERANCES NOT SPECIFIED	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3		± 1°	± 30'	± 20'	± 10'
WORKING SURFACES ROUGHNESS	ISO	N 10	N 9	N 8	N 7	N 6	N 5	N 4	N 3	N 2			
	N LCA	18	17	16	15	14	13	12	11	10			
	Ra	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05			

Pos.	Part Name	Qty	Material	Drawing	Note	Weight
11	EMILE-MAURINE 18-018-12	1				
10	Washer 13x24x2.5 UNI-6592	1				
9	UNI 5627-M12x1.75x35	1				
8	Washer-6,4x12,5x1,6-UNI-6592	96				
7	Dado-M6-UNI-5588	48				
6	Washer-8,4x17x1,6-uni-6592	48				
5	M8x55-UNI 5627	24				
4	Dado-M8-UNI 5588	24				
3	Tubo	8	AISI 304			
2	Canotto	8	AISI 304			
1	Piastra Sollevamento	2	AISI 304			

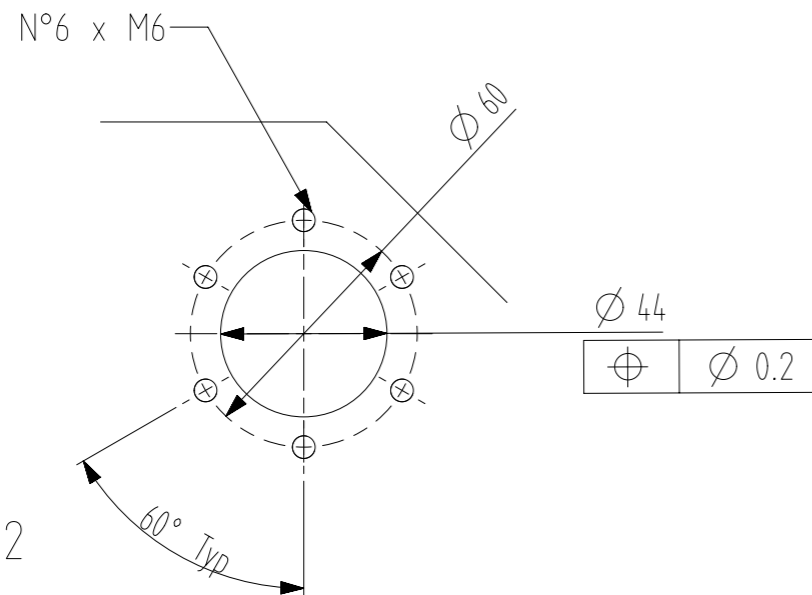
Size:	DWG: DWG-ASSY-Movimentazione-Cavit	Revision:	0
Object:	Aggancio Carroponete	Date:	2016/03/17
Experience:	ESS	Scale:	1 : 5
Object:	Aggancio Carroponete	Units:	mm
3D part:	ASSY-Movimentazione-Cavit	file name:	R:\Projects\ESS\AT-Tooling\Tooling-CB\Movimentazione_cavit

GENERAL TOLERANCES	-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-8000	8000-12000	12000-16000	16000-20000	20000-		
FOR PLATES WORKING	± 1	± 2	± 2	± 3	± 4	± 6	± 8	± 10	± 12	± 14	± 16		
FOR MECHANICAL MACHINING OF SIZE WITHOUT CLEREANCE	-6	6-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-	ANG. DIM.	-6°	6°-30°	30°-120°	120°-
TOLERANCES NOT SPECIFIED	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3		± 1°	± 30'	± 20'	± 10'
WORKING SURFACES ROUGHNESS	ISO	N 10	N 9	N 8	N 7	N 6	N 5	N 4	N 3	N 2			
	N LCA	18	17	16	15	14	13	12	11	10			
	Ra	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05			



1.6 ✓

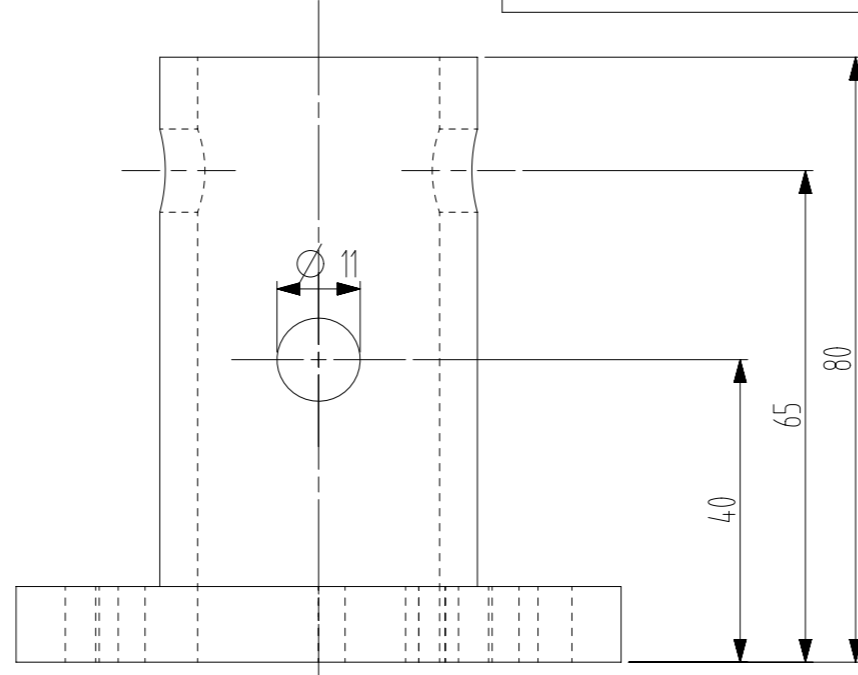
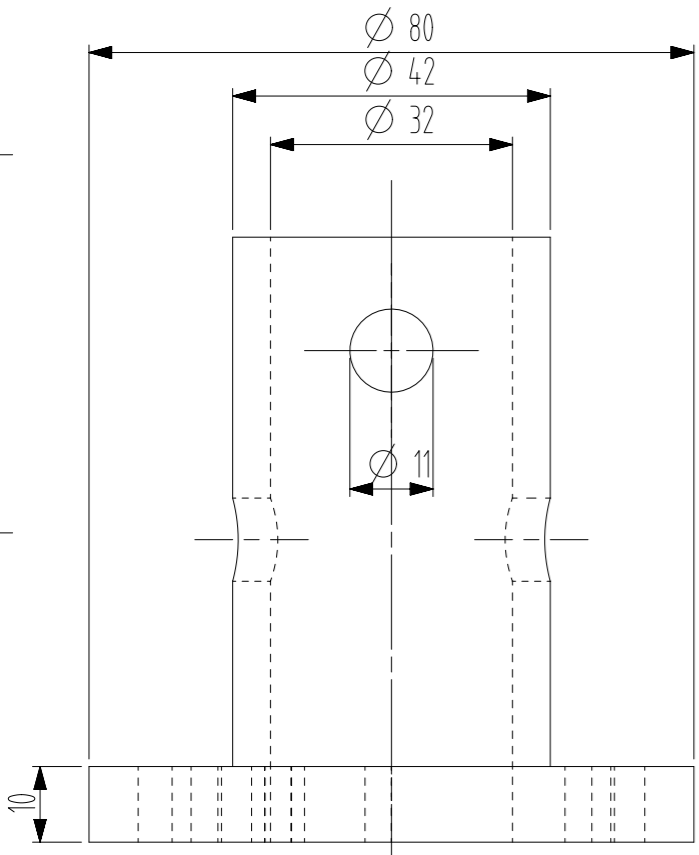
Smussi non indicati 0.3x45°



DETAIL B
SCALE 1:2

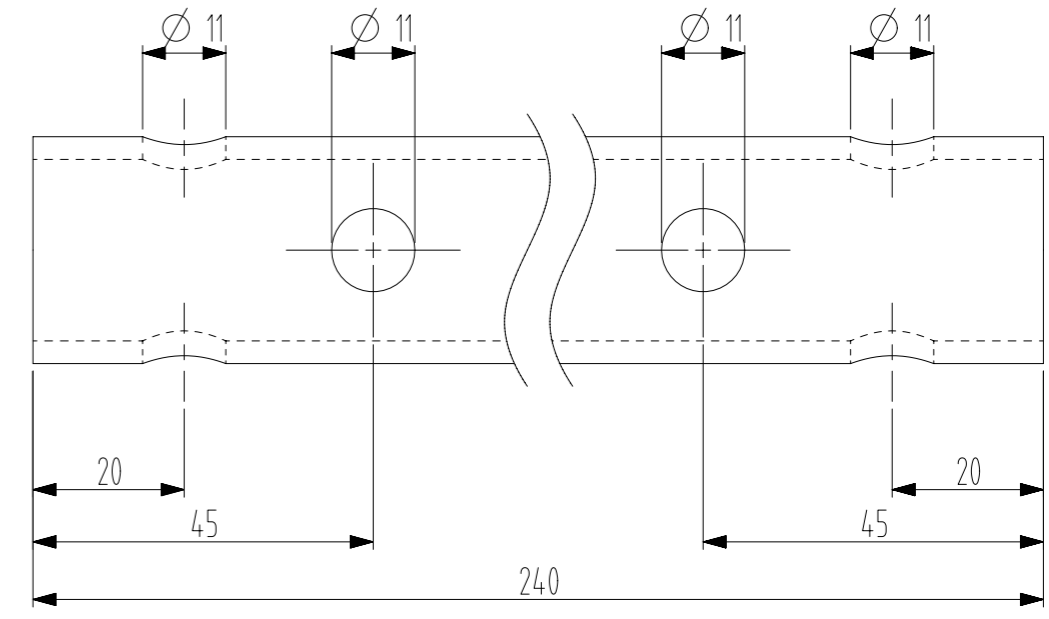
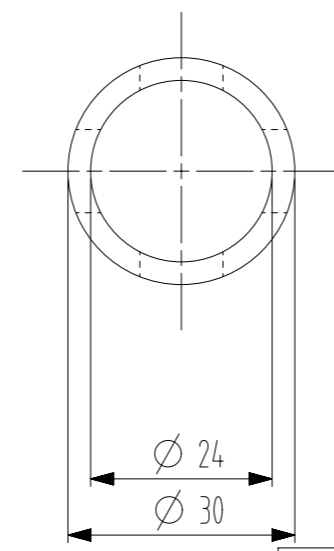
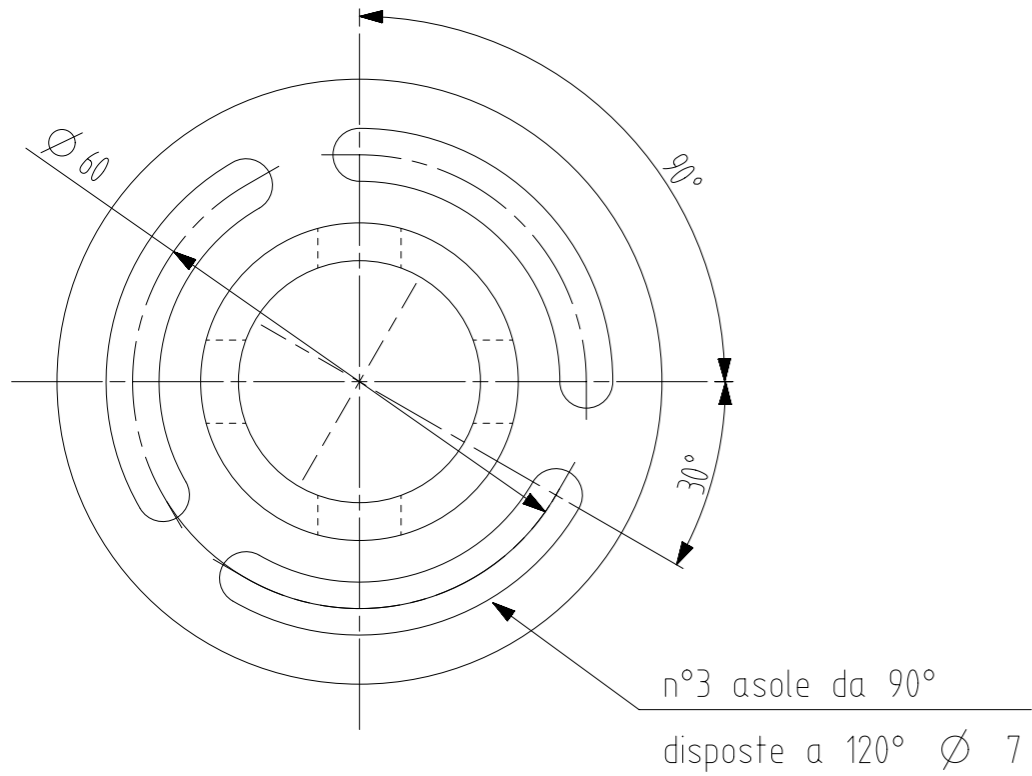
1	Piastra Sollevamento	2	AISI 304			22664
Pos.	Part Name	Qty	Material	Drawing	Note	Weight
 Istituto Nazionale di Fisica Nucleare	INFN Milano - LASA via Fratelli Cervi, 201 20090 Segrate (MI)	Size:	DWG: DWG-Piastra-Sollevamento		Revision:	
		A3	ESS-TOOLING-03.00.01		0	
Experience: ESS		Drawn by:	M. Chiodini	Date:	2016/03/17	Sheet 1 of 1
Object: Aggancio Carroponte		Checked by:		Scale:	1:5	
3D part: Piastra-Carroponte		Approved by:	P. Michelato	Units:	mm	
		File name:	R:\Projects\ESS\AT-Tooling\Tooling-CB\Movimentazione cavit			


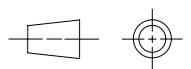
GENERAL TOLERANCES	-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-8000	8000-12000	12000-16000	16000-20000	20000-		
FOR PLATES WORKING	± 1	± 2	± 2	± 3	± 4	± 6	± 8	± 10	± 12	± 14	± 16		
FOR MECHANICAL MACHINING OF SIZE WITHOUT CLEREANCE	-6	6-30	30-120	120-315	315-1000	1000-2000	2000-4000	4000-	ANG. DIM.	-6°	6°-30°	30°-120°	120°-
TOLERANCES NOT SPECIFIED	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	± 2	± 3		± 1°	± 30'	± 20'	± 10'
WORKING SURFACES ROUGHNESS	ISO	N 10	N 9	N 8	N 7	N 6	N 5	N 4	N 3	N 2			
	N LCA	18	17	16	15	14	13	12	11	10			
	Ra	12.5	6.3	3.2	1.6	0.8	0.4	0.2	0.1	0.05			



1.6

Smussi non indicati 0.3x45°



3	Tubo	8	AISI 304			
2	Canotto	8	AISI 304			
Pos.	Part Name	Qty	Material	Drawing	Note	Weight
 INFN Milano - LASA via Fratelli Cervi, 201 20090 Segrate (MI)		Size: A3	DWG: DWG-Canotto-Tubo		Revision: 0	
Experience: ESS		Drawn by: L.Sagliano	Date: 2016/03/17		Sheet 1 of 1	
Object: Aggancio-Carroponte		Checked by:	Scale: 1 : 1			
3D part: Canotto-Tubo		Approved by: P.Michelato	Units: mm			
File name: R:\Projects\ESS\AT-Tooling\Tooling-CB\Movimentazione cavit						