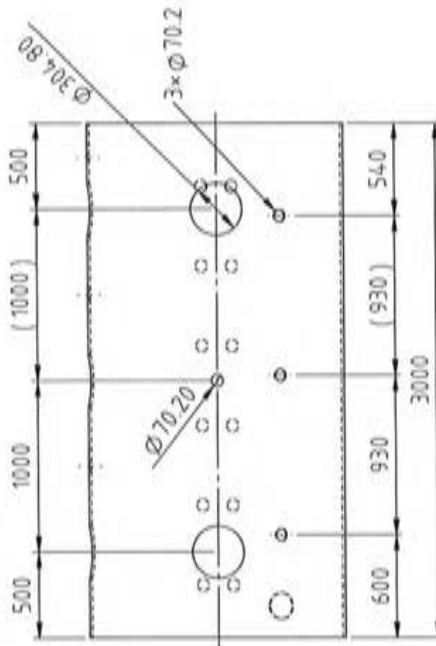
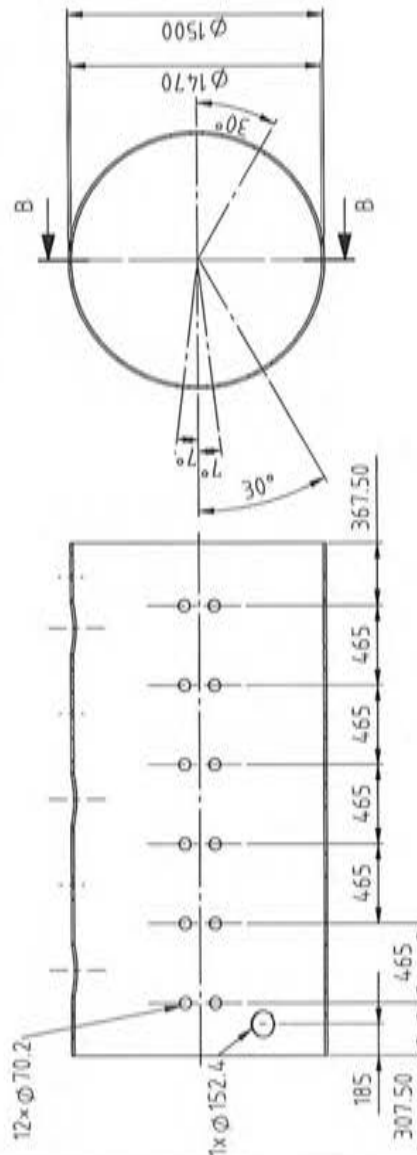
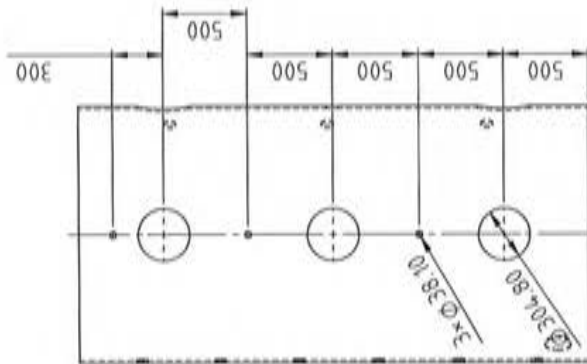


เอกสารแนบ 1

ITEM NO.	DESCRIPTION	MATERIAL	QTY.
1	Vacuum Firing Main Body	AISI 304	1



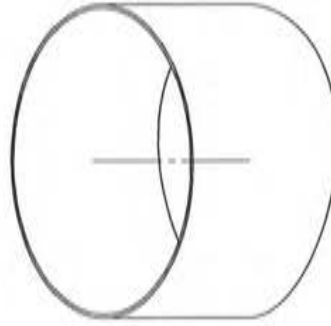
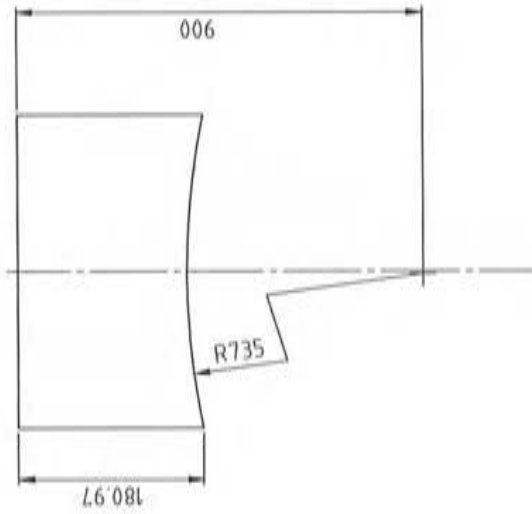
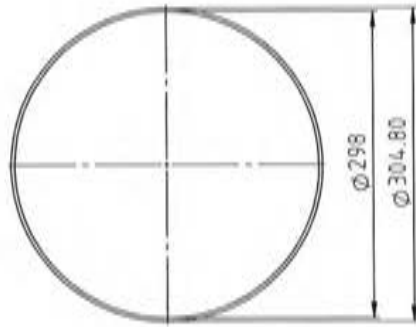
SECTION B-B
SCALE 1 : 30

REVISION	DATE	BY	CHK	APP
1	2023/06/29	WAC		

สถาบันวิจัยแสงซินโครตรอน (องค์การมหาชน) Synchrotron Light Research Institute (Public Organization)	WAC Vacuum Firing Furnace Chamber Update 20230629	SCALE 1:1	UNIT mm	DATE 2023/06/29	BY WAC	CHK WAC	APP WAC	PROJECT SLRI-AC-VAC-650086-P	REVISION A3	DATE 2023/06/29
---	--	----------------------	--------------------	----------------------------	-------------------	--------------------	--------------------	---	------------------------	----------------------------

เอกสารแนบ 2

ITEM NO.	DESCRIPTION	MATERIAL	QTY.
2	HV Pump Tube	AISI 304	5



เอกสารแนบท้ายที่ ๑

	Name	Signature	Date
1	SAJAL K.		06-09-2023
2	SANJAY K.		
3	DEVIKANTH		
4	ARUN K.		
TOTAL			

สถาบันวิจัยแสงซินโครตรอน (องค์การมหาชน)
Synchrotron Light Research Institute (Public Organization)

[illegible]

Update 20230629

SLRI-AC-VAC-650086-P

其四

SCOTT 13

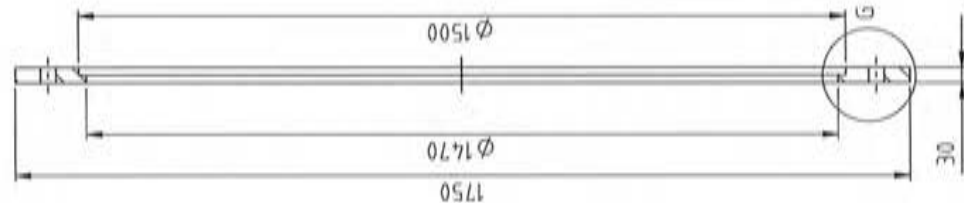
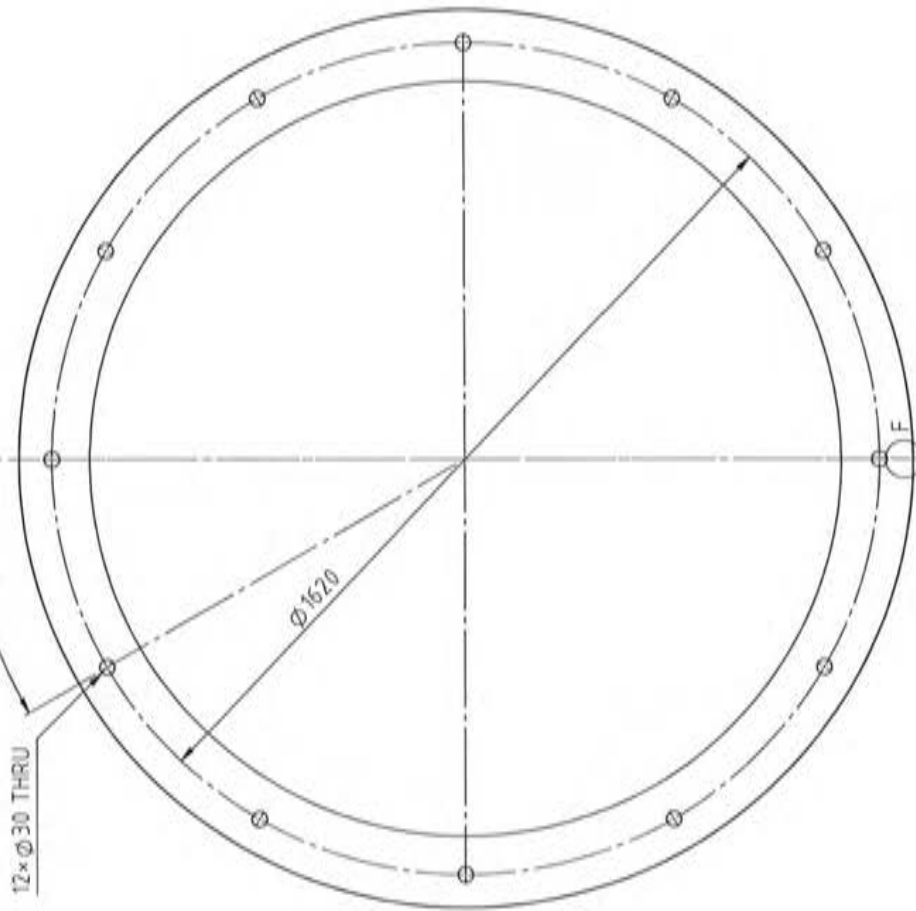
10/20/27 4:52 PM

940174.25.11

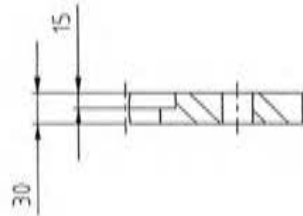
940174.25.11

เอกสารแนบ 3

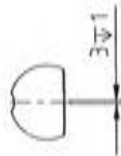
ITEM NO.	DESCRIPTION	MATERIAL	QTY.
3	Front-Back Plate	AISI 304	2



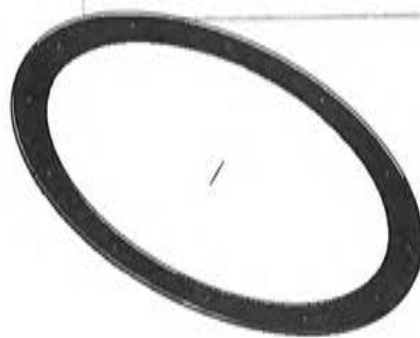
SECTION E-E
SCALE 1:10



DETAIL G
SCALE 1:5



DETAIL F
SCALE 1:5

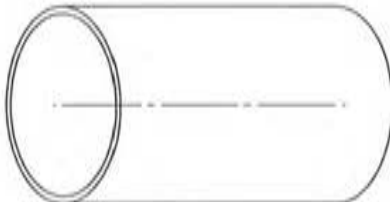
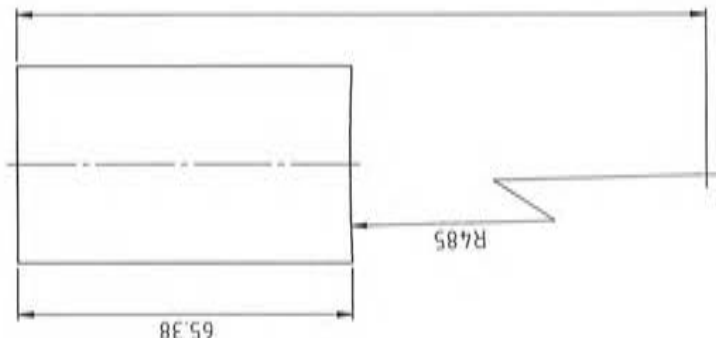
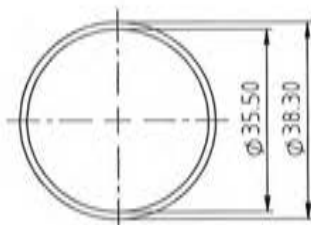


Surface Roughness Ra	1.6	3.2	6.3	12.5	25	50	100	200	400	800	1600
Symbol	1.6	3.2	6.3	12.5	25	50	100	200	400	800	1600
Symbol	1.6	3.2	6.3	12.5	25	50	100	200	400	800	1600
Symbol	1.6	3.2	6.3	12.5	25	50	100	200	400	800	1600
Symbol	1.6	3.2	6.3	12.5	25	50	100	200	400	800	1600
Symbol	1.6	3.2	6.3	12.5	25	50	100	200	400	800	1600
Symbol	1.6	3.2	6.3	12.5	25	50	100	200	400	800	1600
Symbol	1.6	3.2	6.3	12.5	25	50	100	200	400	800	1600
Symbol	1.6	3.2	6.3	12.5	25	50	100	200	400	800	1600
Symbol	1.6	3.2	6.3	12.5	25	50	100	200	400	800	1600
Symbol	1.6	3.2	6.3	12.5	25	50	100	200	400	800	1600
Symbol	1.6	3.2	6.3	12.5	25	50	100	200	400	800	1600
Symbol	1.6	3.2	6.3	12.5	25	50	100	200	400	800	1600

	สถาบันวิจัยแสงซินโครตรอน (องค์การมหาชน) Synchrotron Light Research Institute (Public Organization)	Project Name SLRI-AC-VAC-650086-P	Project No. 650086-P	Project Date 20230625
Drawing No. 650086-P	Revision No. 01	Scale 1:10	Material AISI 304	Quantity 2
Drawing Title SLRI-AC-VAC-650086-P	Drawing Date 20230625	Drawing By [Signature]	Drawing Check [Signature]	Drawing Approval [Signature]

เอกสารแนบ 4

ITEM NO.	DESCRIPTION	MATERIAL	QTY.
4	VG Tube	AISI 304	3



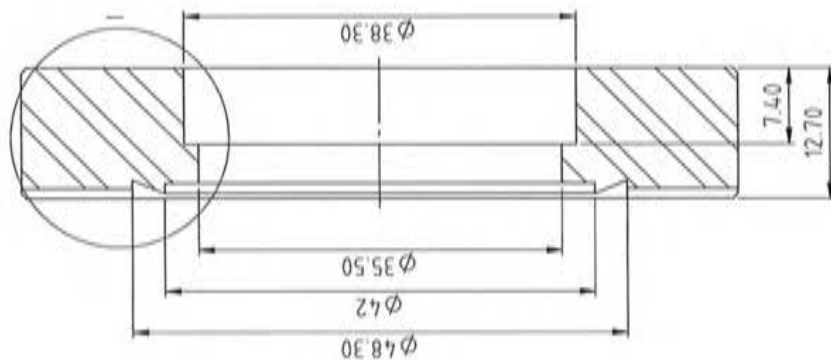
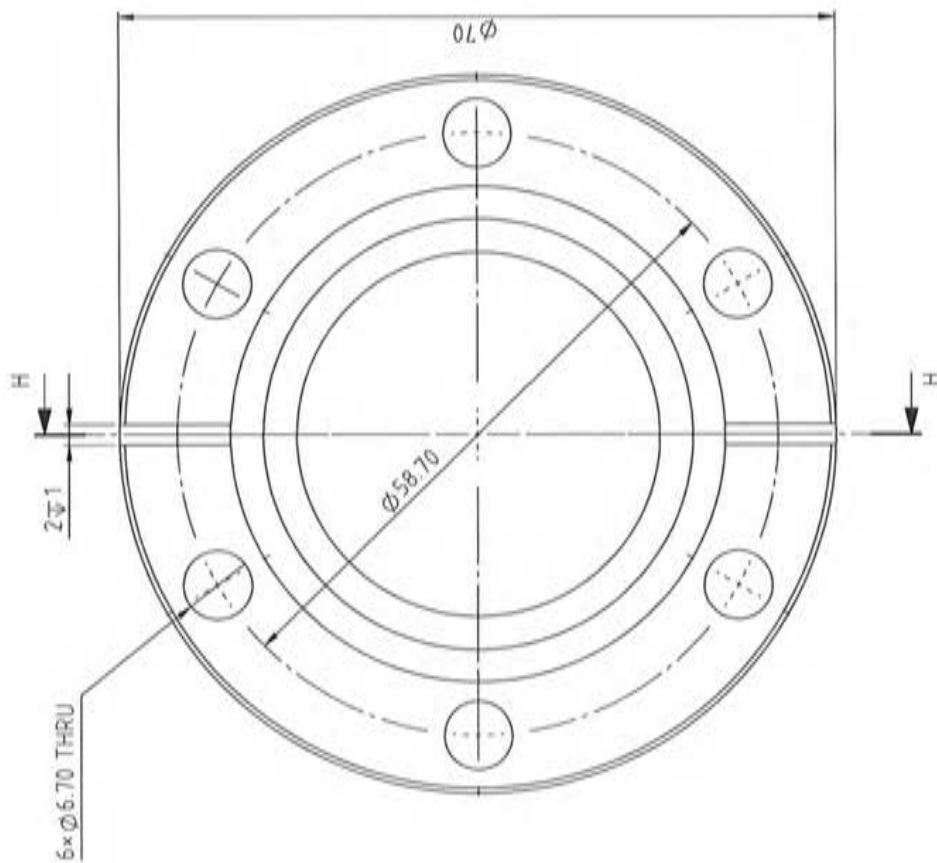
ศูนย์วิจัยและพัฒนาโลหะ (สถาบันวิจัยและพัฒนา)

SYNCHRON LIGHT RESEARCH INSTITUTE (Public Organization)	สถาบันวิจัยและพัฒนาโลหะ (สถาบันวิจัยและพัฒนา)
Medium Firing Furnace Chamber _Update 20230625	
SLRI-AC-VAC-650086-P	A3
SLRI-AC-VAC-650086-P	

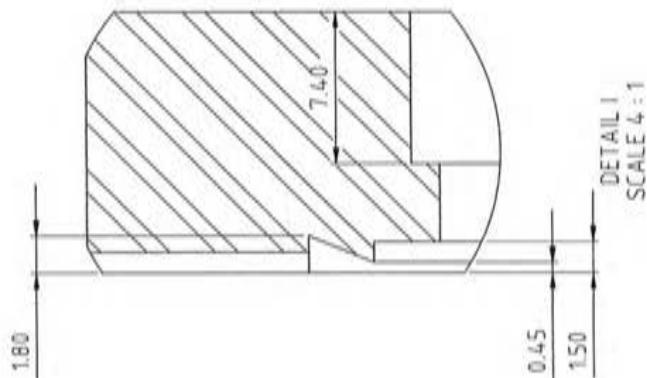
REVISION	DATE	BY	CHK
1	2023-06-25	W	W
2	2023-06-25	W	W
3	2023-06-25	W	W
4	2023-06-25	W	W
5	2023-06-25	W	W
6	2023-06-25	W	W
7	2023-06-25	W	W
8	2023-06-25	W	W
9	2023-06-25	W	W
10	2023-06-25	W	W

เอกสารแนบ 5

ITEM NO.	DESCRIPTION	MATERIAL	QTY.
5	CF70 Non-rotatable-Bore-3 May 2021	AISI 304	5



SECTION H-H
SCALE 2:1



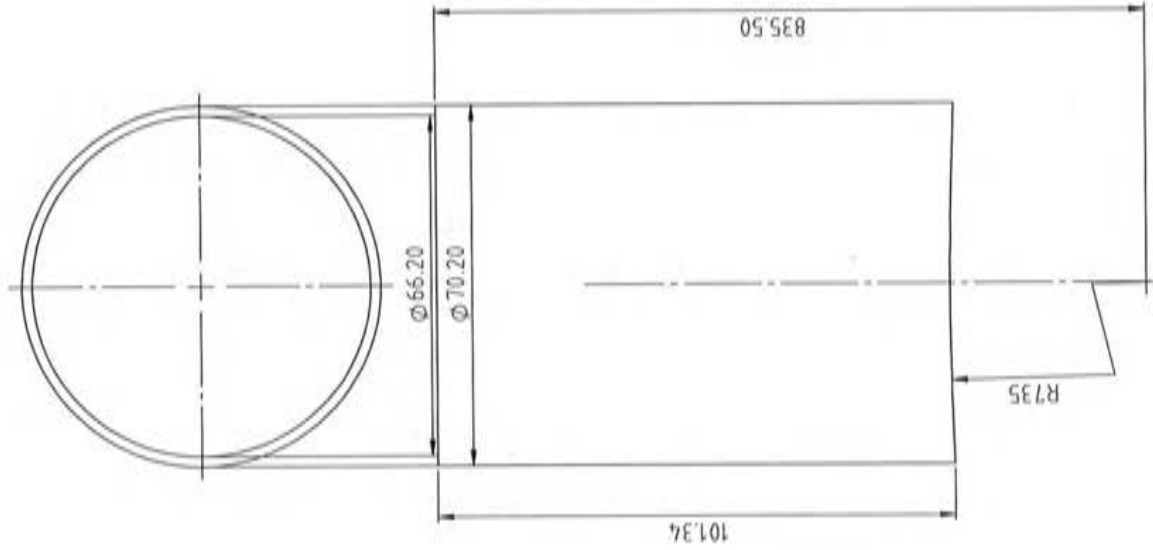
การสำรวจแบบทํายางกันนิ้วมือ

[illegible]

Surface Roughness Ra	
μm	μin
0.025	0.001
0.050	0.002
0.100	0.004
0.150	0.006
0.200	0.008
0.300	0.012
0.400	0.016
0.500	0.020
0.600	0.024
0.800	0.032
1.000	0.040
1.250	0.050
1.600	0.063
2.000	0.080
2.500	0.100
3.150	0.125
4.000	0.160
5.000	0.200
6.300	0.250
8.000	0.315
10.000	0.398
12.500	0.500
16.000	0.630
20.000	0.799
25.000	1.000
31.500	1.250
40.000	1.585
50.000	2.000
63.000	2.500
80.000	3.150
100.000	3.946
125.000	5.000
160.000	6.300
200.000	7.938
250.000	10.000
315.000	12.500
400.000	15.875
500.000	20.000
630.000	25.000
800.000	31.500
1000.000	39.463

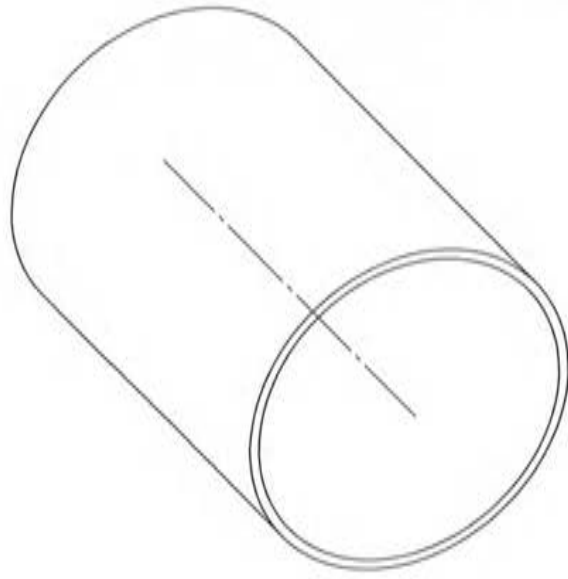
เอกสารแนบ 6

เอกสารแนบ 5



ITEM NO.	DESCRIPTION	MATERIAL	QTY.
6	Feedthrough Port Tube	AISI 304	16

เอกสารแนบ 5

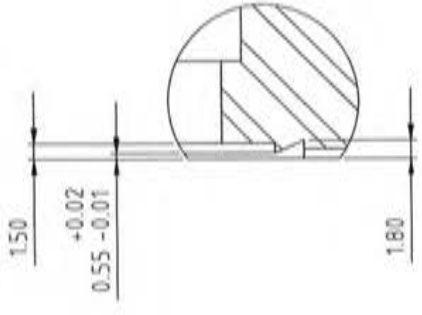
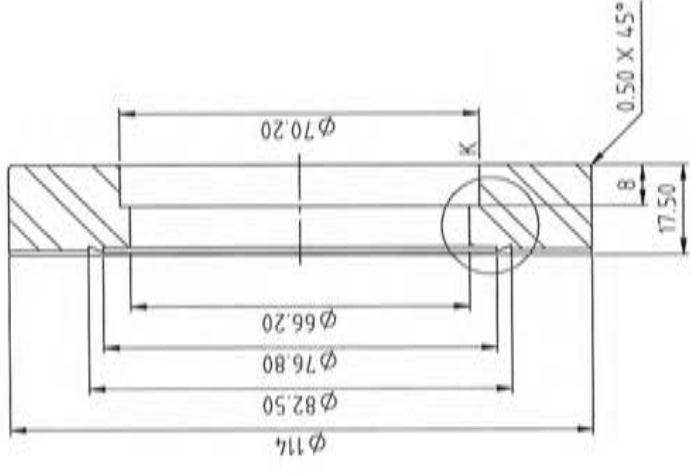
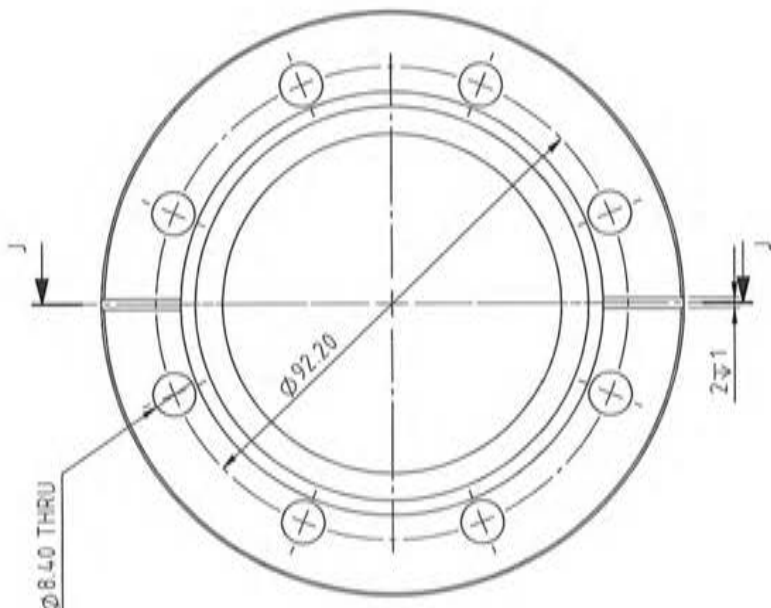


Surface Roughness Ra
0.032
0.063
0.125
0.25
0.5
1.0
2.0
4.0
8.0
16.0
32.0
63.0
125.0
250.0
500.0
1000.0

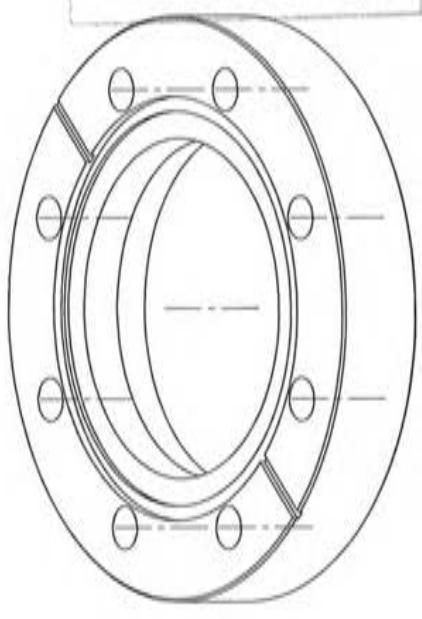
		สถาบันวิจัยแสงซินโครตรอน (องค์การมหาชน) Synchrotron Light Research Institute (Public Organization)	
Project Name Vacuum Firing Furnace Chamber		Project No. SLRI-AC-VAC-650086-P	
Material AISI 304		Quantity 16	
Drawing No. 650086-01		Revision 01	
Date 2023-06-25		Scale 1:1	
Weight 16.00 kg		Volume 0.0001 m³	
Surface Area 0.0001 m²		Total Length 0.0001 m	
Material AISI 304		Weight 16.00 kg	
Quantity 16		Volume 0.0001 m³	
Date 2023-06-25		Scale 1:1	
Weight 16.00 kg		Volume 0.0001 m³	
Surface Area 0.0001 m²		Total Length 0.0001 m	

เอกสารแนบ 7

ITEM NO.	DESCRIPTION	MATERIAL	QTY.
7	CF114 Non-rotatable-Bore for Tube 70-3 May 2021	AISI 304	18



DETAIL K
SCALE 2 : 1



SECTION J-J

REVISION	DATE	BY	CHKD
1	2021-05-03	W	W
2	2021-05-03	W	W
3	2021-05-03	W	W
4	2021-05-03	W	W
5	2021-05-03	W	W
6	2021-05-03	W	W
7	2021-05-03	W	W
8	2021-05-03	W	W
9	2021-05-03	W	W
10	2021-05-03	W	W

สถาบันวิจัยแสงซินโครตรอน (องค์การมหาชน)
Synchrotron Light Research Institute (Public Organization)

Medium Firing Furnace Chamber Update 20230625

SLRI-AC-VAC-6S0086-P

A3

เอกสารแนบ 8

12x Ø14 THRU

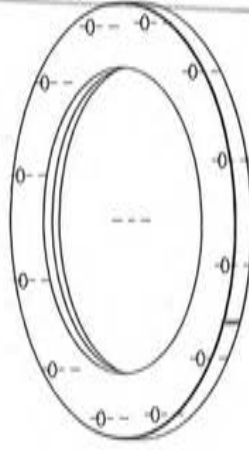
Ø 395

Seal

Tube

Ø 425
Ø 298
Ø 304.80

3x1
2 Side
L

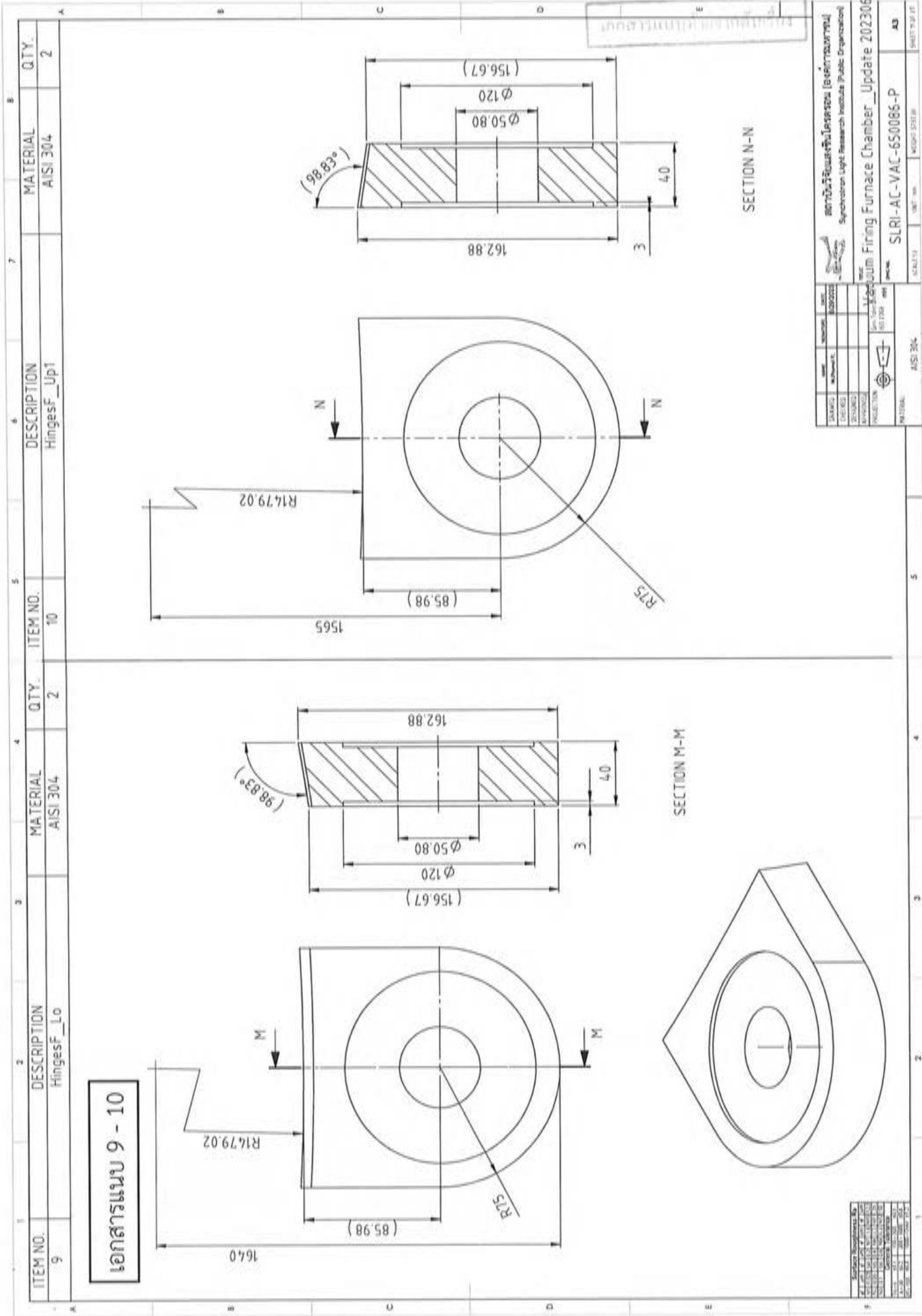


สํานักงานวิจัยแสงซินโครตรอน

DATE	REVISION	DATE	REVISION
2023/03/03	1	2023/03/03	1
DESIGNED BY	W. P. P. P.	DESIGNED BY	W. P. P. P.
CHECKED BY	W. P. P. P.	CHECKED BY	W. P. P. P.
APPROVED BY	W. P. P. P.	APPROVED BY	W. P. P. P.
PROJECT	SLRI-AC-VAC-650086-P	PROJECT	SLRI-AC-VAC-650086-P
SCALE	1:1	SCALE	1:1
DATE	2023/03/03	DATE	2023/03/03

สํานักงานวิจัยแสงซินโครตรอน [Public Organization]
Synchrotron Light Research Institute (Public Organization)
SLRI-AC-VAC-650086-P
Update 20230625

SECTION L-L
SCALE 1:2



เอกสารแนบ 9 - 10

ITEM NO.	DESCRIPTION	QTY.	ITEM NO.	DESCRIPTION	QTY.
9	HingesF_Lo	2	10	HingesF_Up1	2

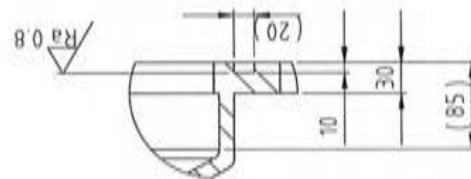
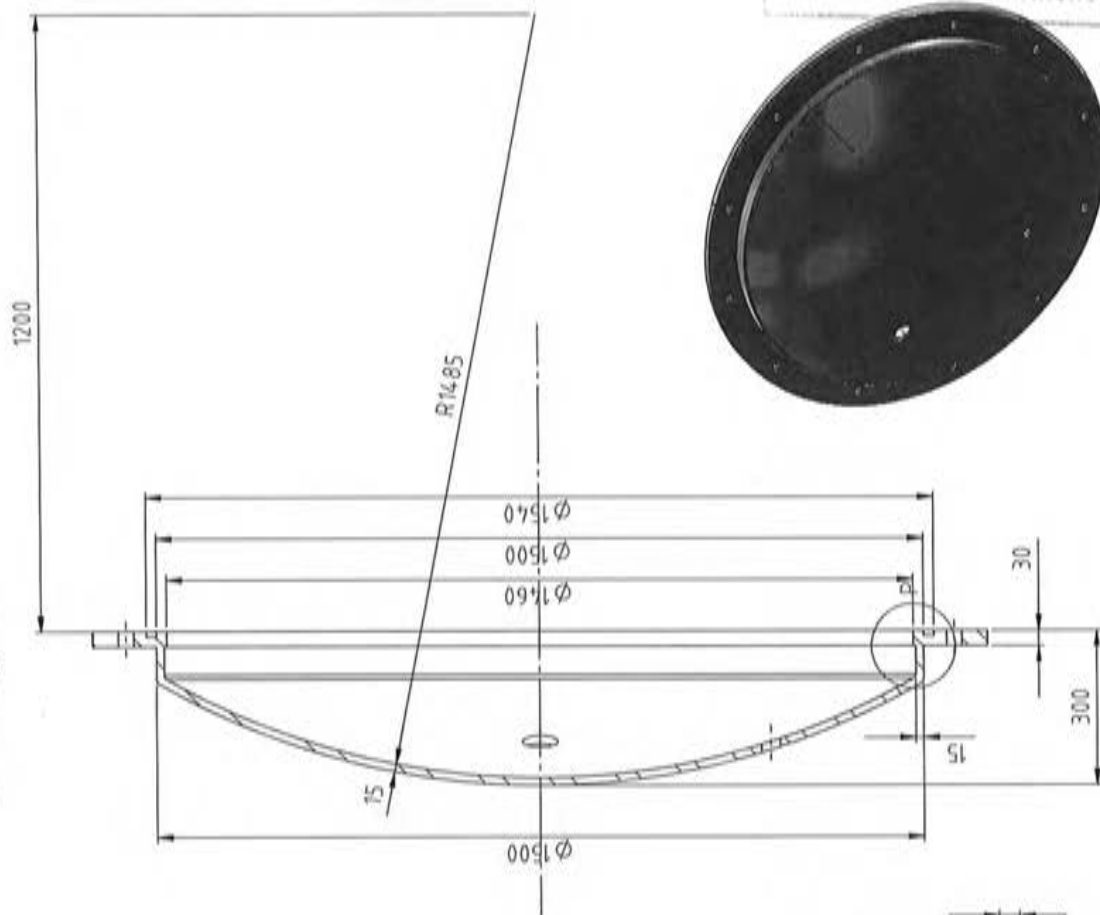
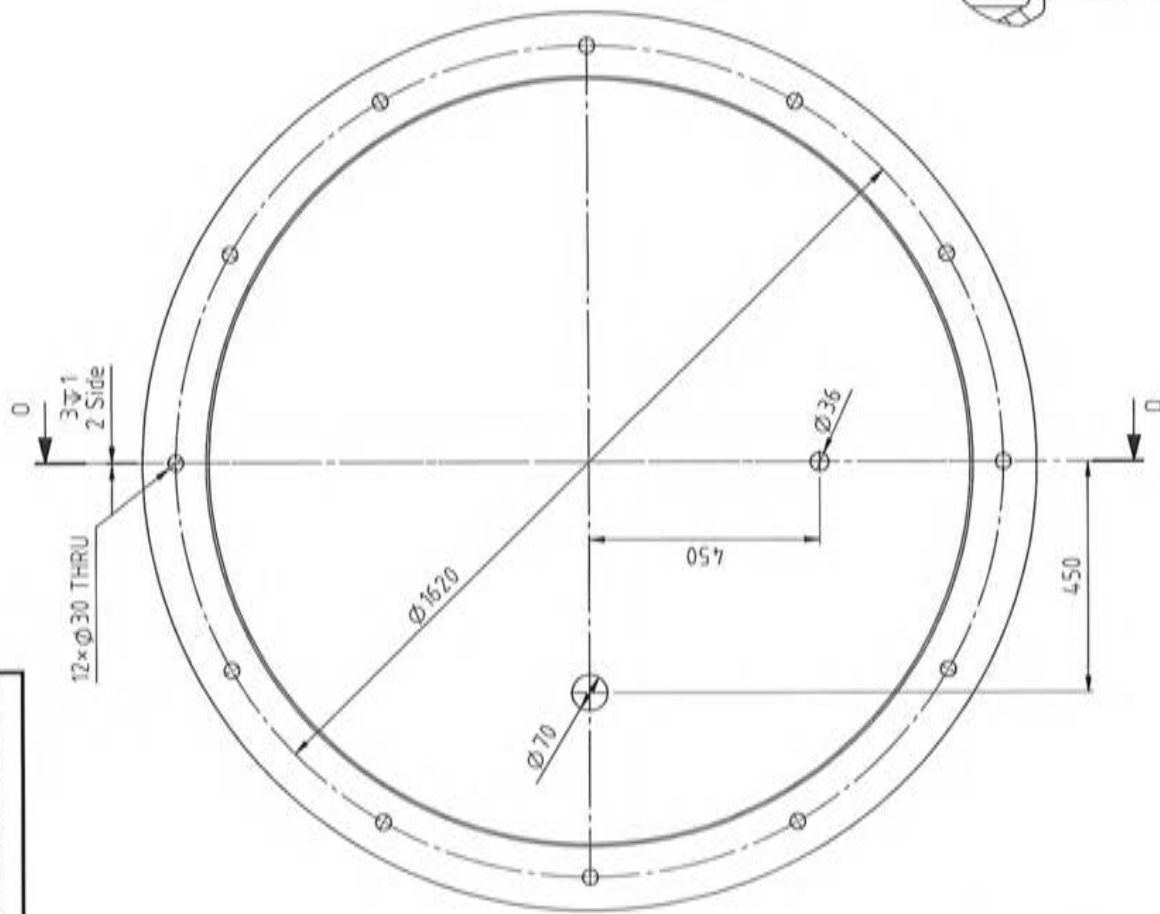
สถาบันวิจัยแสงซินโครตรอน (องค์การมหาชน) Synchrotron Light Research Institute (Public Organization) Medium Firing Furnace Chamber_Update 20230625 SLRI-AC-VAC-6S0086-P	SCALE 1:1 UNIT mm WEIGHT STEEL	DATE 2023-06-25 BY SLRI-AC-VAC-6S0086-P CHECKED SLRI-AC-VAC-6S0086-P	ITEM SLRI-AC-VAC-6S0086-P DESCRIPTION Medium Firing Furnace Chamber_Update 20230625 QTY. 2	ITEM SLRI-AC-VAC-6S0086-P DESCRIPTION Medium Firing Furnace Chamber_Update 20230625 QTY. 2
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SLRI-AC-VAC-6S0086-P SLRI-AC-VAC-6S0086-P	SCALE 1:1 UNIT mm WEIGHT STEEL	DATE 2023-06-25 BY SLRI-AC-VAC-6S0086-P CHECKED SLRI-AC-VAC-6S0086-P	ITEM SLRI-AC-VAC-6S0086-P DESCRIPTION Medium Firing Furnace Chamber_Update 20230625 QTY. 2	ITEM SLRI-AC-VAC-6S0086-P DESCRIPTION Medium Firing Furnace Chamber_Update 20230625 QTY. 2
--	---	---	---	---

เอกสารแนบ 11

ITEM NO.	DESCRIPTION	MATERIAL	QTY.
11	Front Cover	AISI 304	1

1. Assembly drawing
2. Welding : GTAW



DETAIL P
SCALE 1:5

SECTION 0-0
SCALE 1:10

[illegible]

สถาบันวิจัยแสงซินโครตรอน (องค์การมหาชน)
Synchrotron Light Research Institute (Public Organization)

20230629

SLRI-AC-VAC-650086-P

706 5578

95 JULY 1995

Weight: 4.2mm

09-06-1784

Surface Roughness Ra			
μ	in	μ	in
0.001	0.00004	0.001	0.00004
0.002	0.00008	0.002	0.00008
0.003	0.00012	0.003	0.00012
0.004	0.00016	0.004	0.00016
0.005	0.00020	0.005	0.00020
0.006	0.00024	0.006	0.00024
0.007	0.00028	0.007	0.00028
0.008	0.00032	0.008	0.00032
0.009	0.00036	0.009	0.00036
0.010	0.00040	0.010	0.00040
0.012	0.00048	0.012	0.00048
0.015	0.00060	0.015	0.00060
0.020	0.00080	0.020	0.00080
0.025	0.00100	0.025	0.00100
0.030	0.00120	0.030	0.00120
0.040	0.00160	0.040	0.00160
0.050	0.00200	0.050	0.00200
0.063	0.00250	0.063	0.00250
0.080	0.00315	0.080	0.00315
0.100	0.00398	0.100	0.00398
0.125	0.00500	0.125	0.00500
0.160	0.00630	0.160	0.00630
0.200	0.00791	0.200	0.00791
0.250	0.01000	0.250	0.01000
0.315	0.01250	0.315	0.01250
0.400	0.01585	0.400	0.01585
0.500	0.02000	0.500	0.02000
0.630	0.02500	0.630	0.02500
0.800	0.03150	0.800	0.03150
1.000	0.03980	1.000	0.03980
1.250	0.05000	1.250	0.05000
1.600	0.06300	1.600	0.06300
2.000	0.07910	2.000	0.07910
2.500	0.10000	2.500	0.10000
3.150	0.12500	3.150	0.12500
4.000	0.15850	4.000	0.15850
5.000	0.20000	5.000	0.20000
6.300	0.25000	6.300	0.25000
8.000	0.31500	8.000	0.31500
10.000	0.39800	10.000	0.39800
12.500	0.50000	12.500	0.50000
16.000	0.63000	16.000	0.63000
20.000	0.79100	20.000	0.79100
25.000	1.00000	25.000	1.00000
31.500	1.25000	31.500	1.25000
40.000	1.58500	40.000	1.58500
50.000	2.00000	50.000	2.00000
63.000	2.50000	63.000	2.50000
80.000	3.15000	80.000	3.15000
100.000	3.98000	100.000	3.98000
125.000	5.00000	125.000	5.00000
160.000	6.30000	160.000	6.30000
200.000	7.91000	200.000	7.91000
250.000	10.00000	250.000	10.00000
315.000	12.50000	315.000	12.50000
400.000	15.85000	400.000	15.85000
500.000	20.00000	500.000	20.00000
630.000	25.00000	630.000	25.00000
800.000	31.50000	800.000	31.50000
1000.000	39.80000	1000.000	39.80000
1250.000	50.00000	1250.000	50.00000
1600.000	63.00000	1600.000	63.00000
2000.000	79.10000	2000.000	79.10000
2500.000	100.00000	2500.000	100.00000
3150.000	125.00000	3150.000	125.00000
4000.000	158.50000	4000.000	158.50000
5000.000	200.00000	5000.000	200.00000
6300.000	250.00000	6300.000	250.00000
8000.000	315.00000	8000.000	315.00000
10000.000	398.00000	10000.000	398.0000

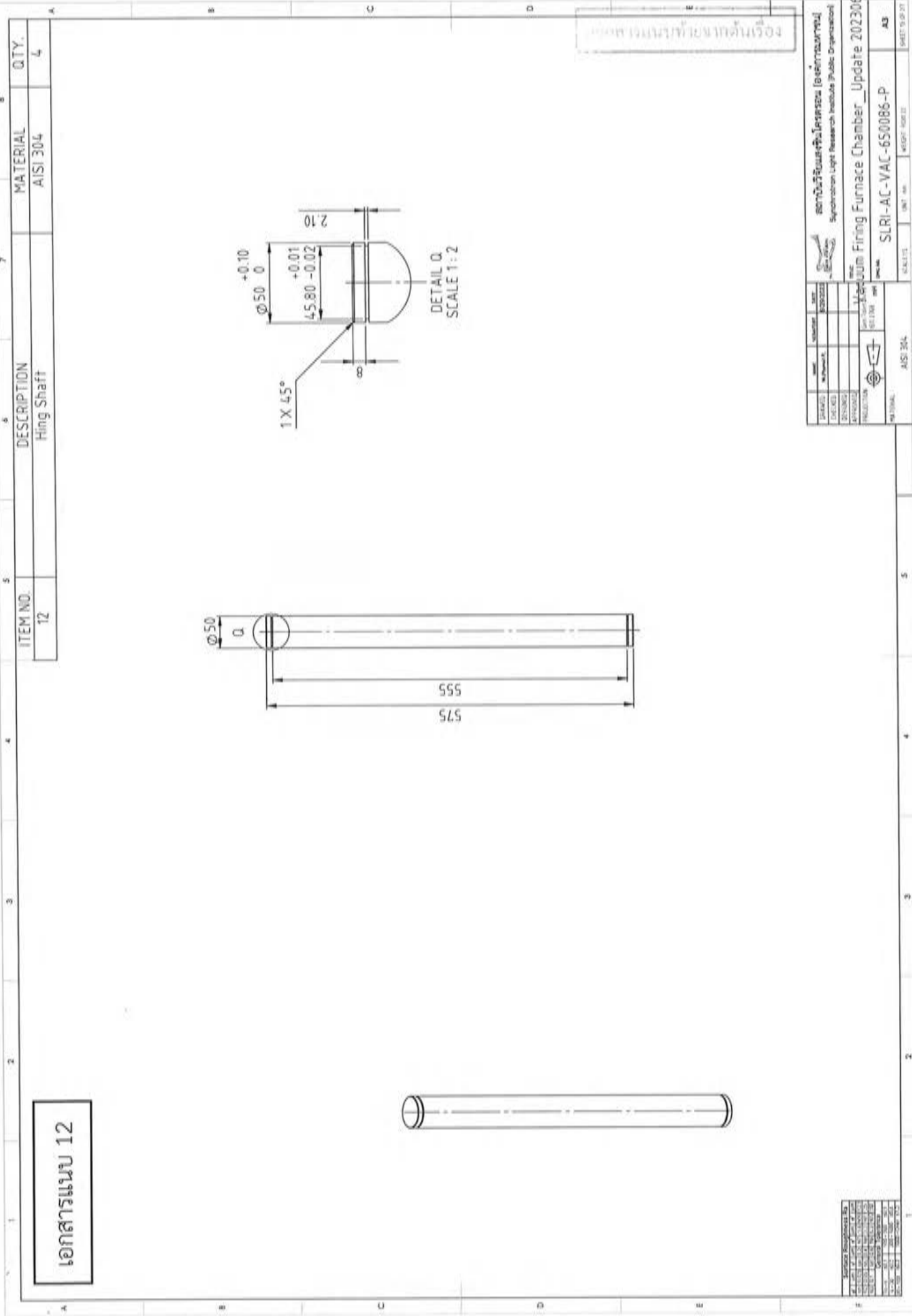
Technical drawing of a Hing Shaft (Item 12). The drawing includes a side view and a detail view.

Side View:

- Shaft diameter: $\varnothing 50$
- Shaft length: 575
- Internal feature: 555

Detail View (DETAIL Q. SCALE 1:2):

- Detail diameter: $\varnothing 50$
- Detail length: 45.80
- Chamfer: 1X 45°
- Dimension: 2.10



Technical drawing of a Hing Shaft (Item 12). The drawing includes a side view and a detail view.

Side View:

- Shaft diameter: $\varnothing 50$
- Shaft length: 575
- Internal feature: 555

Detail View (DETAIL Q. SCALE 1:2):

- Detail diameter: $\varnothing 50$
- Detail length: 45.80
- Chamfer: 1X 45°
- Dimension: 2.10

Technical drawing of a Hing Shaft (Item 12). The drawing includes a side view and a detail view.

Side View:

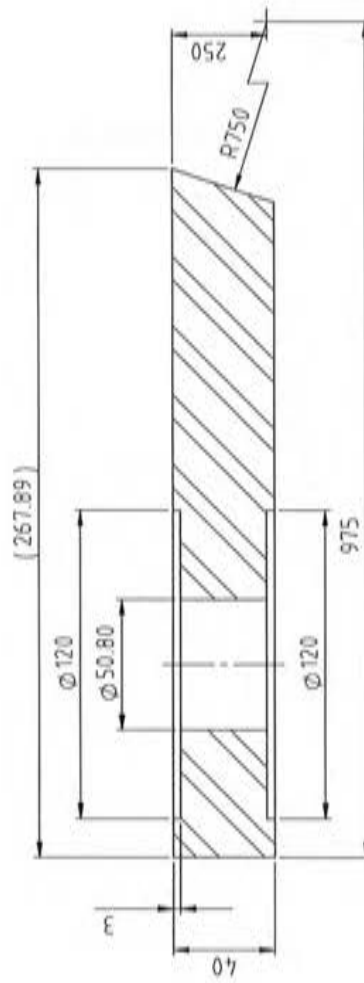
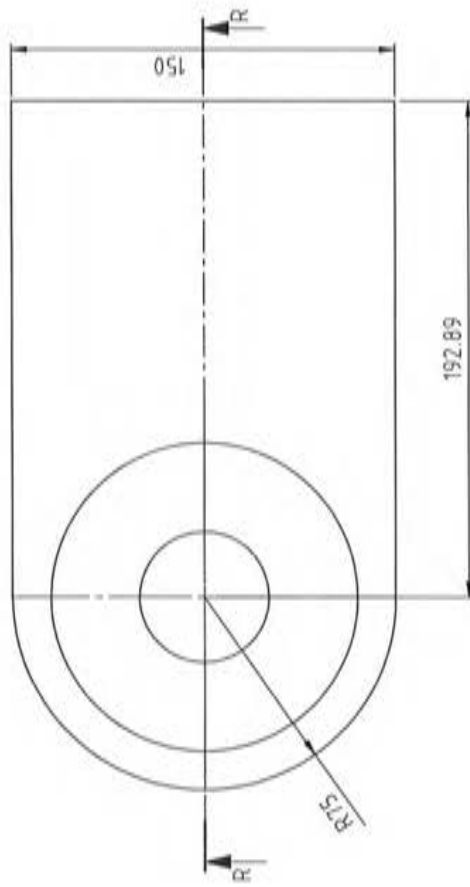
- Shaft diameter: $\varnothing 50$
- Shaft length: 575
- Internal feature: 555

Detail View (DETAIL Q. SCALE 1:2):

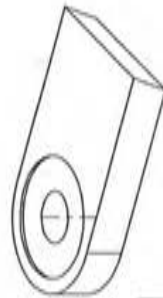
- Detail diameter: $\varnothing 50$
- Detail length: 45.80
- Chamfer: 1X 45°
- Dimension: 2.10

เอกสารแนบ 14 - 15

ITEM NO.	DESCRIPTION	MATERIAL	QTY.
14, 15	Hinges Up1	AlSI 304	4



SECTION R-R

[illegible]

สถาบันวิจัยแสงซินโครตรอน (องค์การมหาชน)
Synchrotron Light Research Institute (Public Organization)

Maximum Firing Furnace Chamber Update 20230625

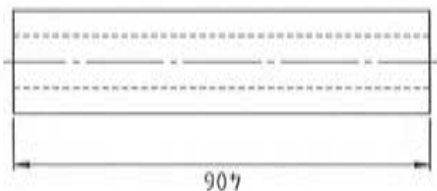
SLRI-AC-VAC-650086-P

4377-4676

Surface Roughness Ra	
μm	in
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0.050	0.002
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0.200	0.008
0.400	0.016
0.800	0.032
1.600	0.063
3.200	0.125
6.300	0.250
12.500	0.500
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50.000	2.000
100.000	4.000
200.000	8.000
400.000	16.000
800.000	32.000
1600.000	64.000
3200.000	128.000
6400.000	256.000
12800.000	512.000
25600.000	1024.000
51200.000	2048.000
102400.000	4096.000
204800.000	8192.000
409600.000	16384.000
819200.000	32768.000
1638400.000	65536.000
3276800.000	131072.000
6553600.000	262144.000
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236	

1	2	3	4	5	6	7	8
				ITEM NO.	DESCRIPTION	MATERIAL	QTY.
				16, 18	Hing Boat 2	Alsi 304	4

1	2	3	4	5	6	7	8
				ITEM NO.	DESCRIPTION	MATERIAL	QTY.
				16, 18	Hing Boat 2	Alsi 304	4

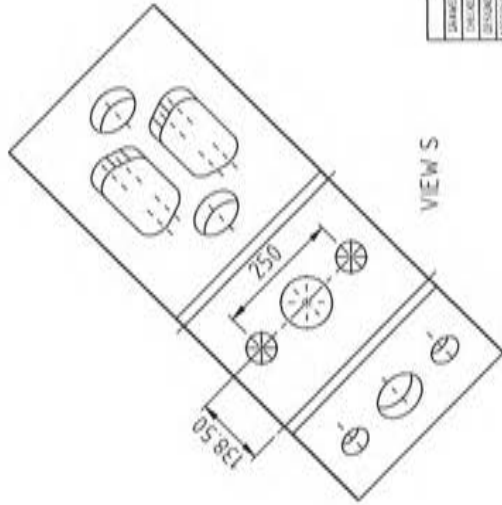
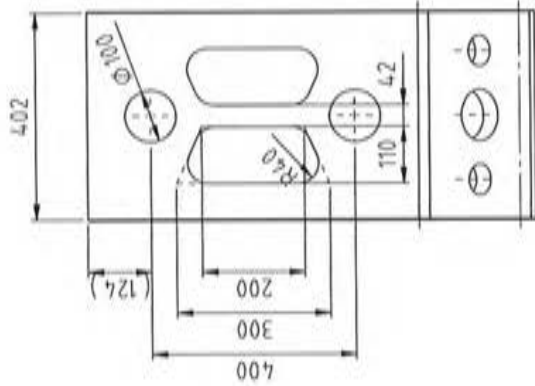
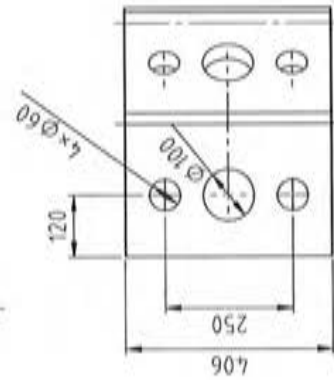
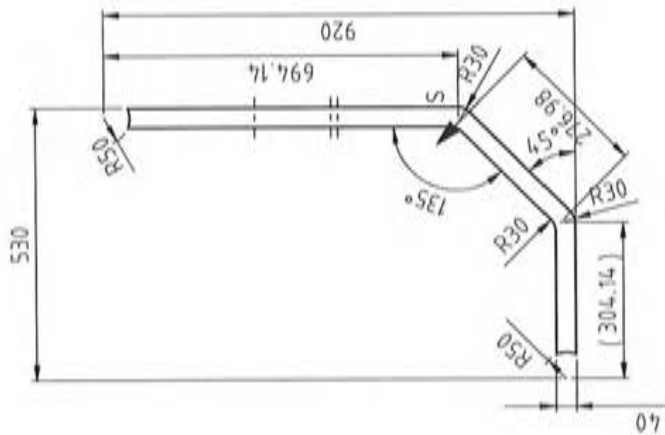


กองสารนิเทศที่หอจดหมายเหตุ

[illegible]

เอกสารแบบ 17

ITEM NO.	DESCRIPTION	MATERIAL	QTY.
17	Arm	AISI 304	2



VIEW S



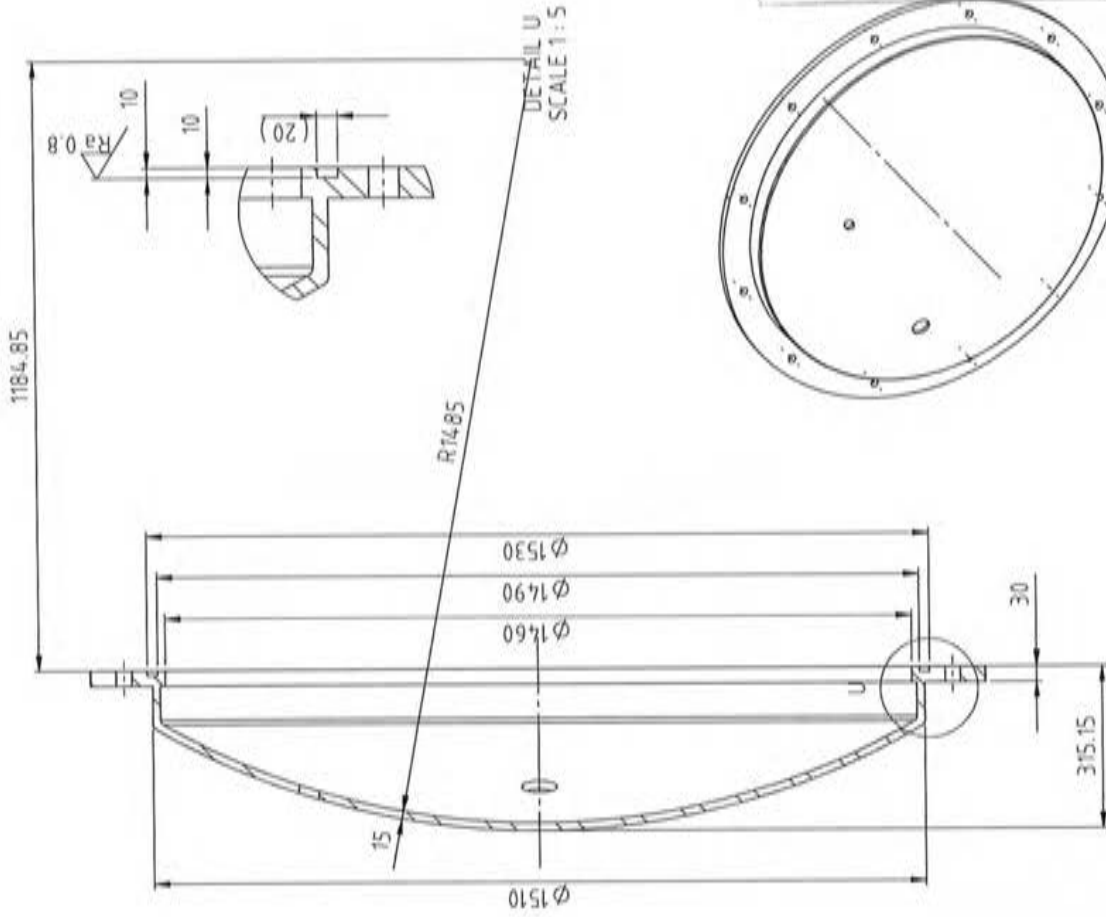
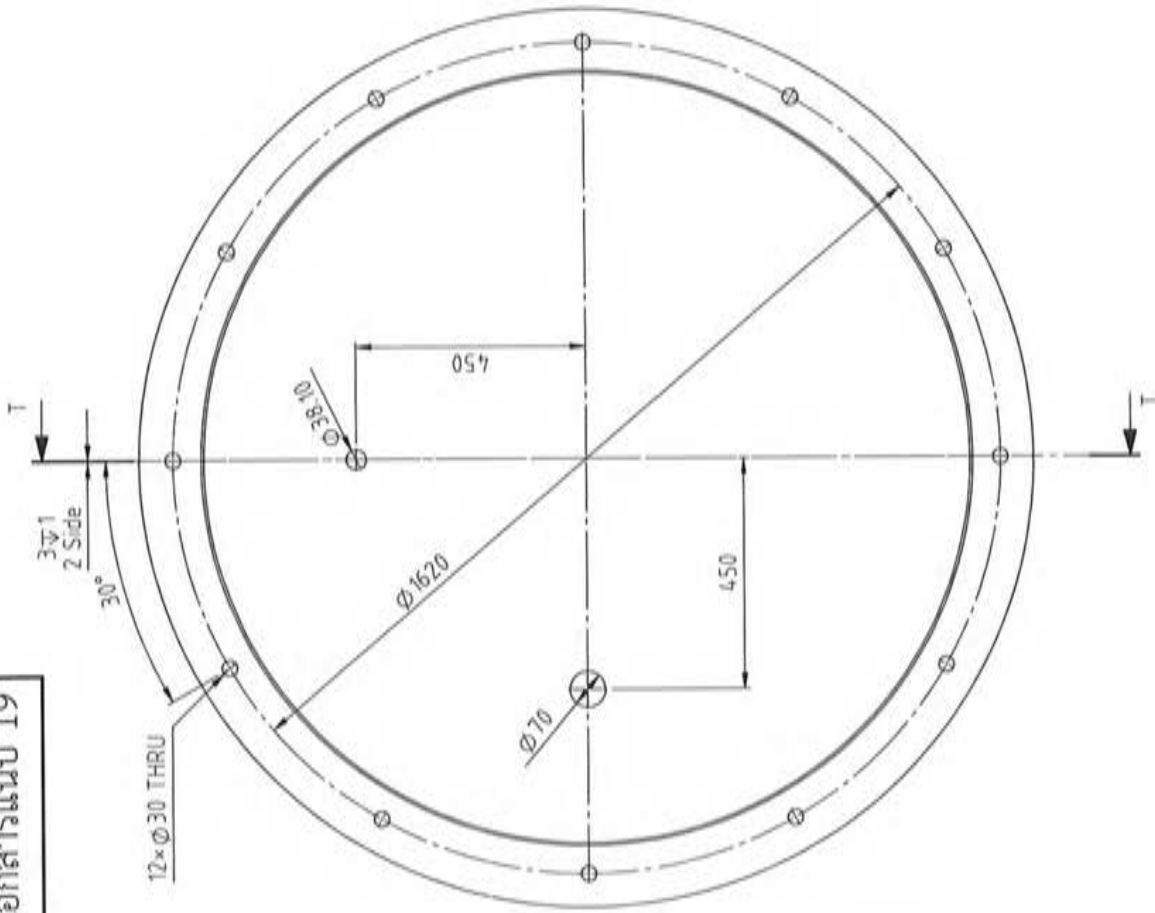
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เอกสารแนบ 19



ITEM NO.	DESCRIPTION	MATERIAL	QTY.
19	Back Cover	AISI 304	1

REVISION	DATE	BY	CHK	APP
1	2023/06/25			
2	2023/06/25			
3	2023/06/25			
4	2023/06/25			
5	2023/06/25			
6	2023/06/25			
7	2023/06/25			
8	2023/06/25			
9	2023/06/25			
10	2023/06/25			

SECTION T-T
SCALE 1:10

สถาบันวิจัยแสงซินโครตรอน (องค์การมหาชน)
Synchrotron Light Research Institute Public Organization

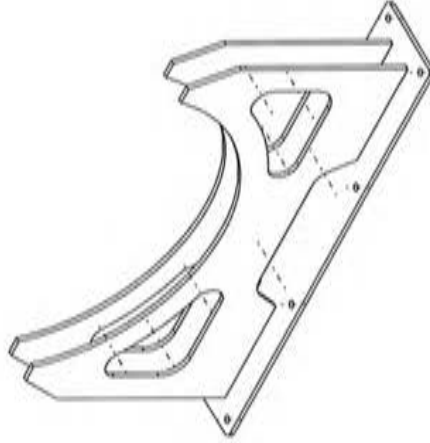
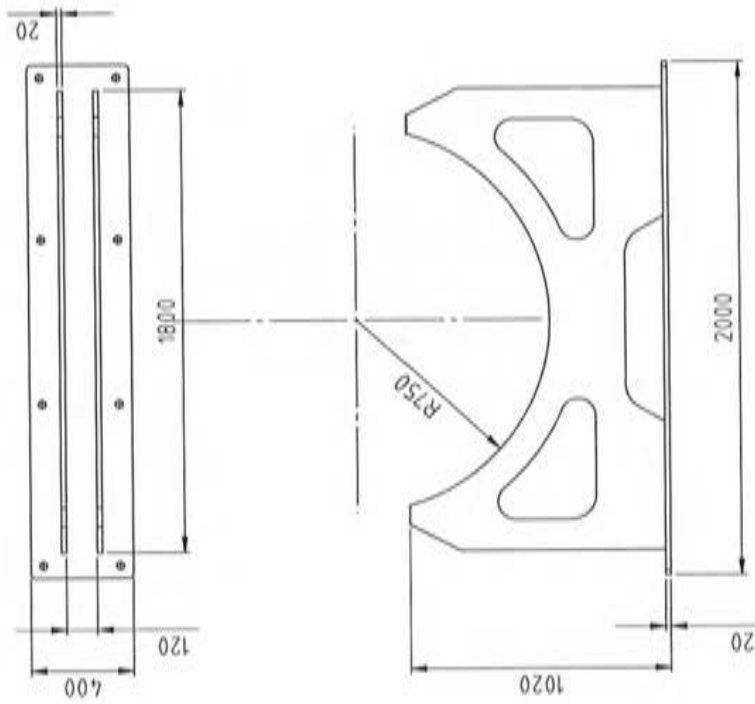
SLRI-AC-VAC-650086-P

SLRI-AC-VAC-650086-P

SLRI-AC-VAC-650086-P

$(1/3)$

2 Sets



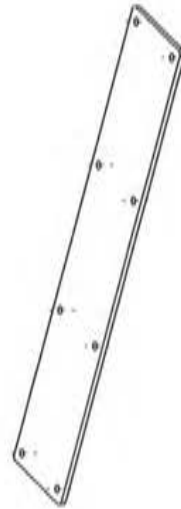
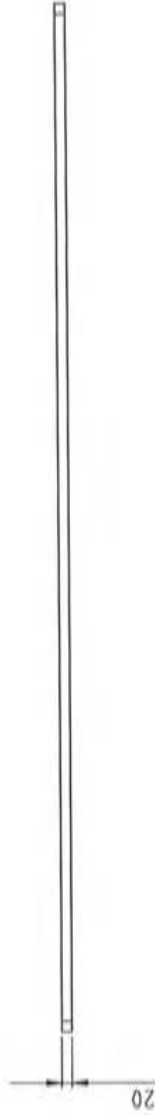
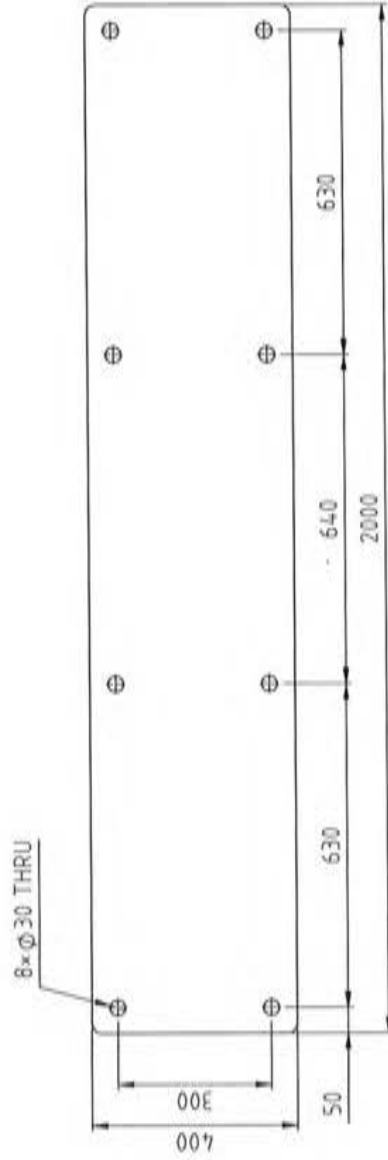
การรวมกันจากต้นเรื่อง

[illegible]

เอกสารแนบ 22

 $(2/3)$

ITEM NO.	DESCRIPTION	MATERIAL	QTY.
22-1	Base Plate	SS400	2



00767-95834V110001700000000

	name	signature	date
Chairman	M. P. ...		8-09-2023
Vice-Chairman			
Secretary			
Treasurer			
Production			

สถาบันวิจัยแสงซินโครตรอน (องค์การมหาชน)
Synchrotron Light Research Institute (Public Organization)

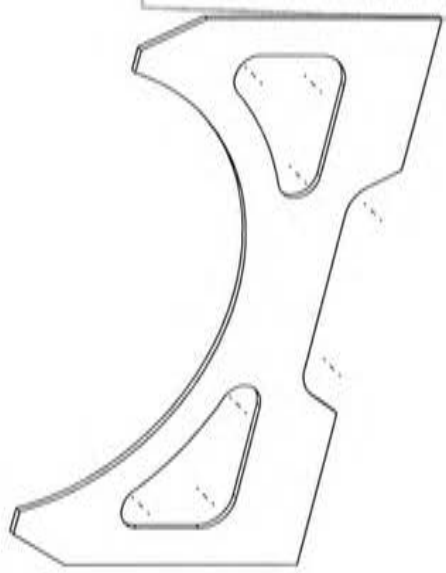
Maximum Firing Furnace Chamber_Update 20230625

part no.	SLRI-AC-VAC-650086-P		A3
SLRI LOT	INT. no.	425-07 05403-08	9-007 2013-13

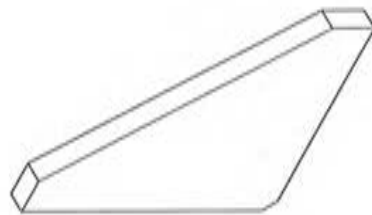
Surface Roughness Ra	
μm	in
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0.1	0.004
0.2	0.008
0.4	0.016
0.8	0.032
1.6	0.063
3.2	0.125
6.3	0.250
12.5	0.500
25.0	1.000
50.0	2.000
100.0	4.000
200.0	8.000
400.0	16.000
800.0	32.000
1600.0	64.000
3200.0	128.000
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102400.0	4096.000
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(3/3)

4

[illegible]

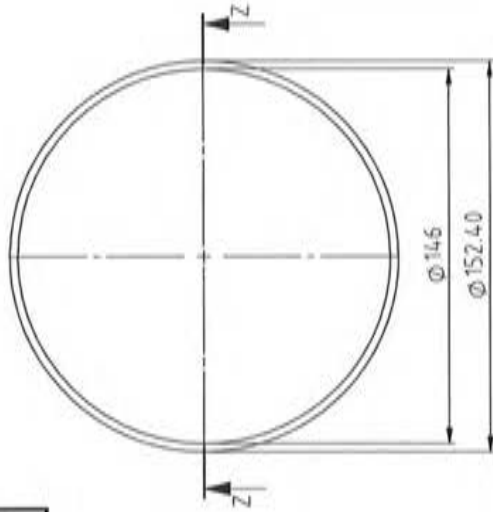
ITEM NO.	DESCRIPTION	MATERIAL	QTY.
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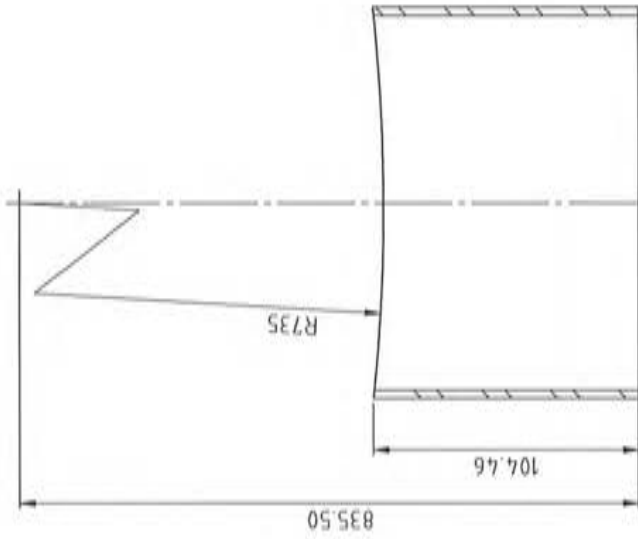

 สถาบันวิจัยแสงซินโครตรอน (องค์การมหาชน)
 Synchrotron Light Research Institute (Public Organization)

SLRI-AC-VAC-650086-P	SLRI-000	WFO-017936	A3
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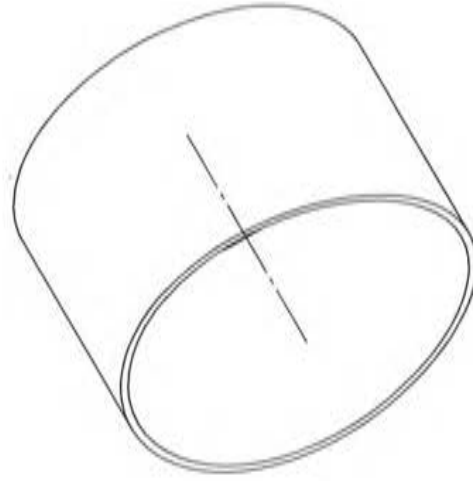
เอกสารแนบ 28



เอกสารแนบ 1



SECTION Z-Z



เอกสารแนบท้ายจากต้นเรื่อง

ITEM NO.	DESCRIPTION	MATERIAL	QTY.
28	Tube 00152.40mm	AlSi304	1

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