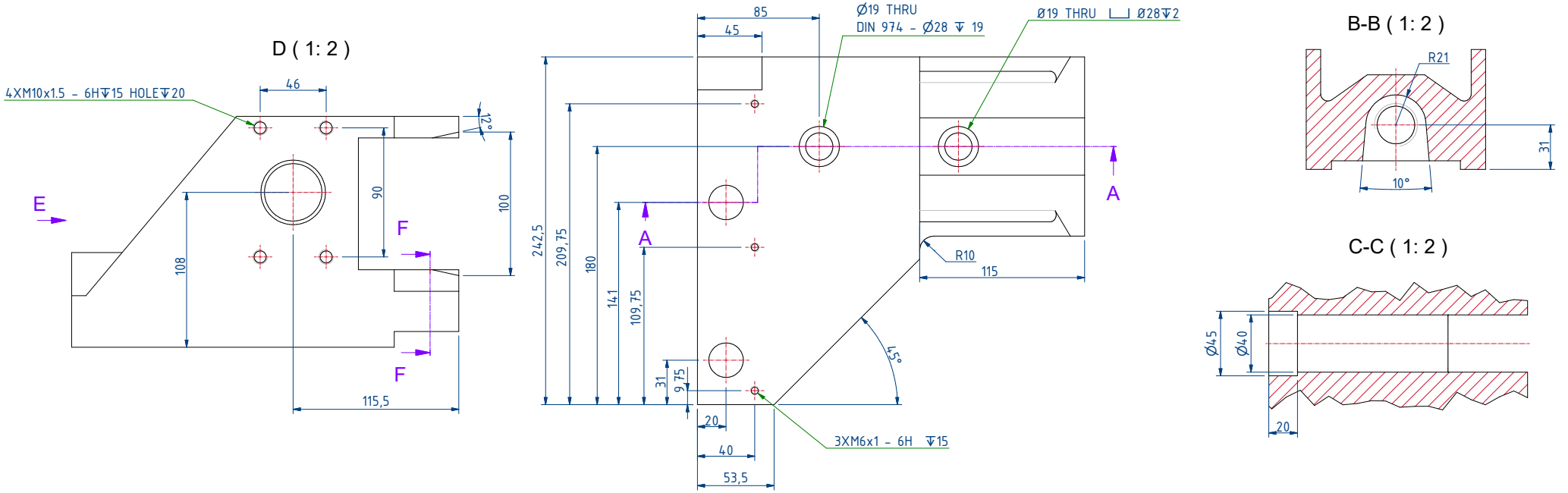
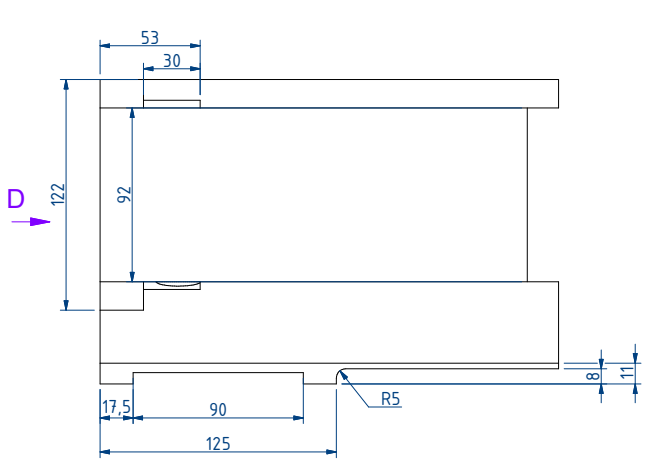
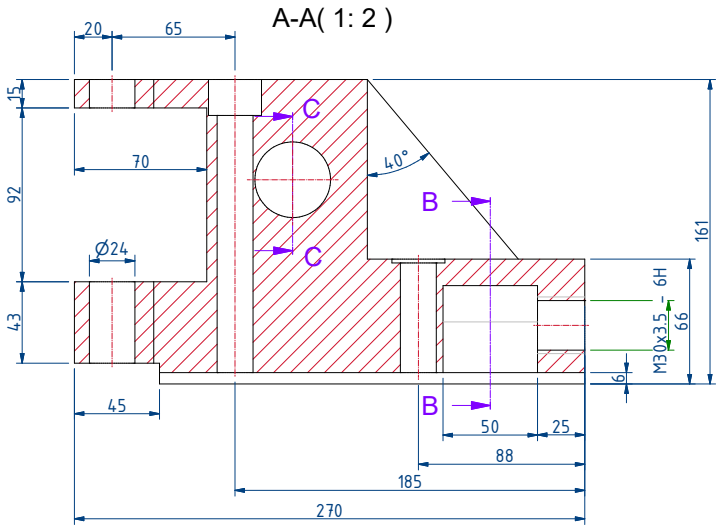
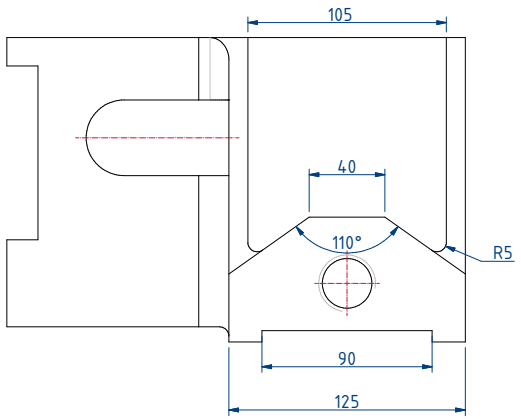
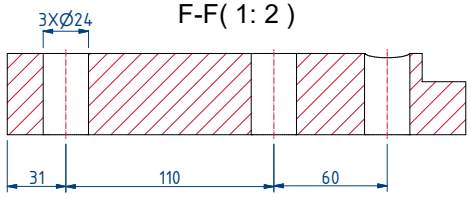










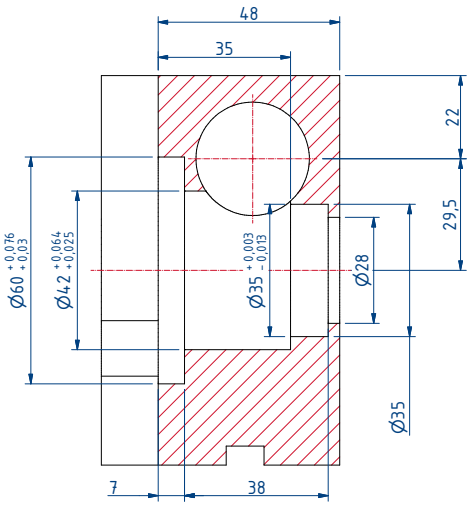
worldskills Shanghai2026

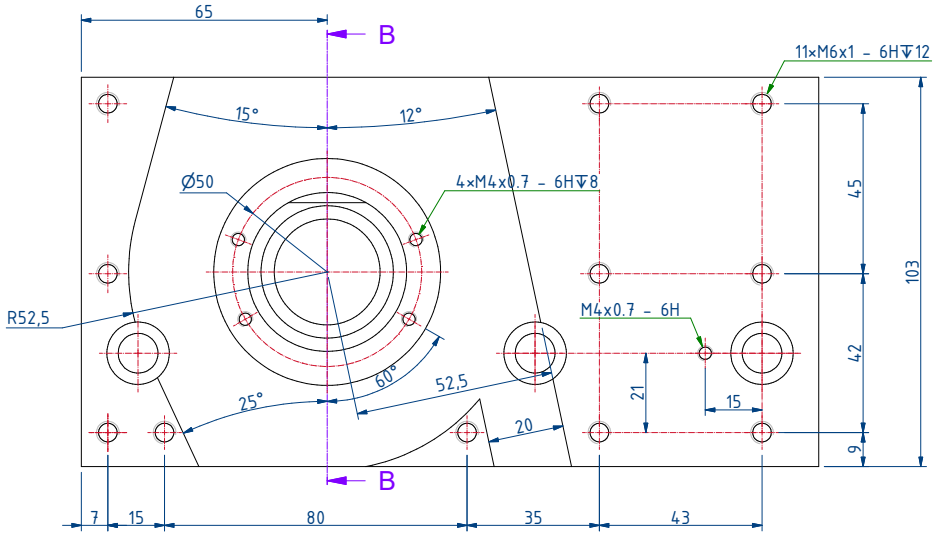
Test Project for the 48th WorldSkills Competition in Shanghai, China 2026

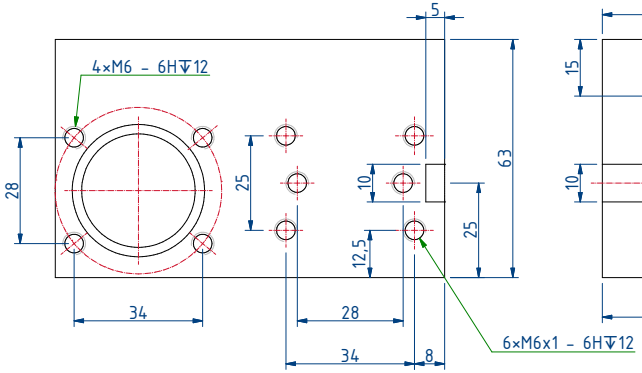
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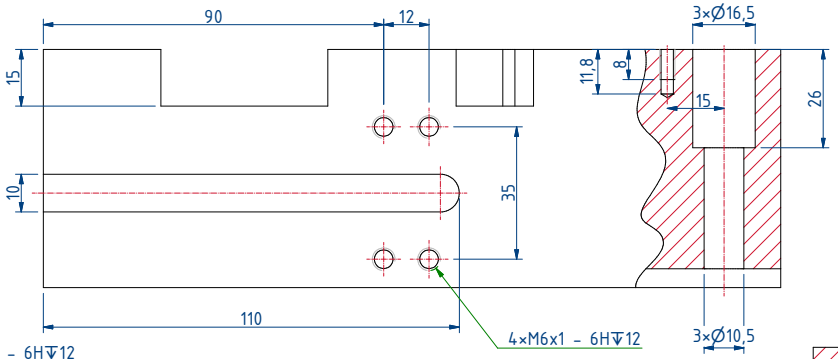
Skill:	#05 - Mechanical Engineering CAD			
Design by:				
Last Update: 23/04/2026	Scale: 1: 2	Paper: A2	Page: 1/11	
Drawing Number: WSC2026_TP05_M3				Rev:
Description: PBM-001-004-005				Projection:

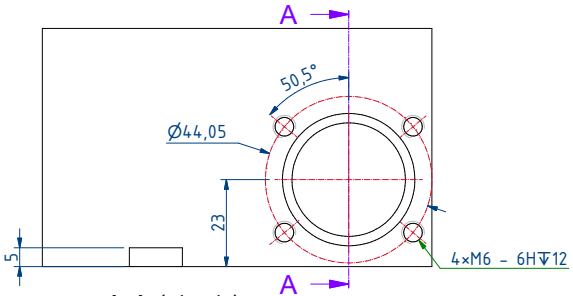
B-B (1 : 1)



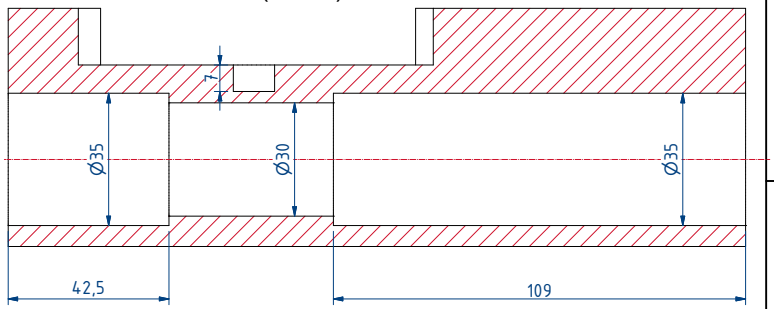


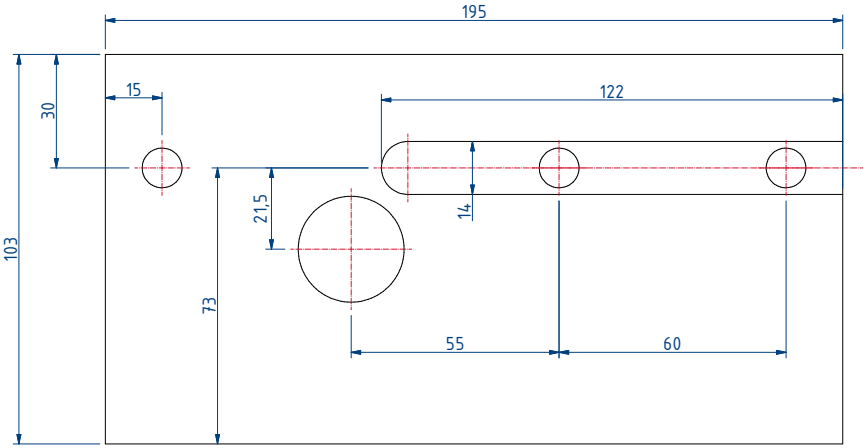






A-A (1 : 1)





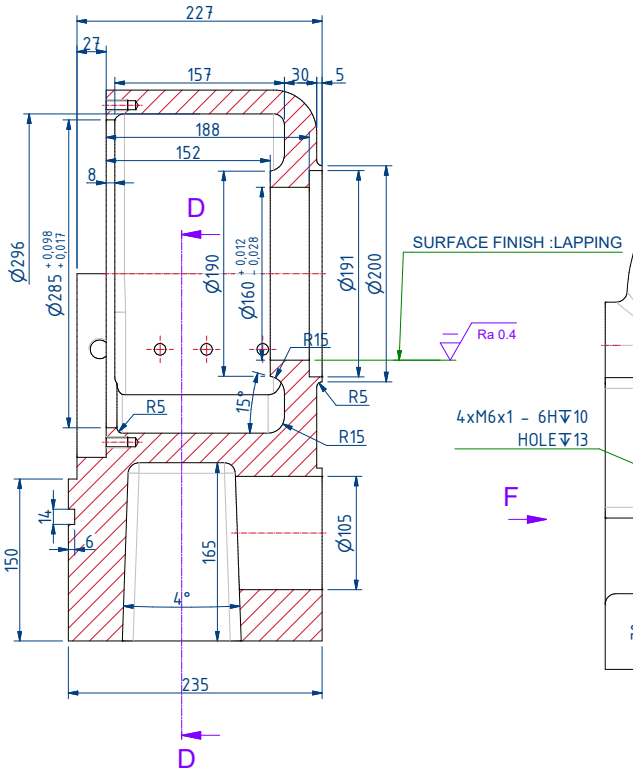
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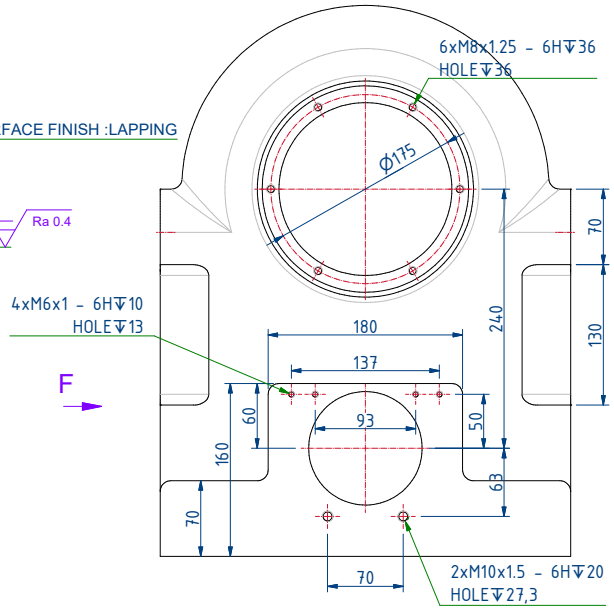
Test Project for the 48th WorldSkills Competition in Shanghai, China 2026

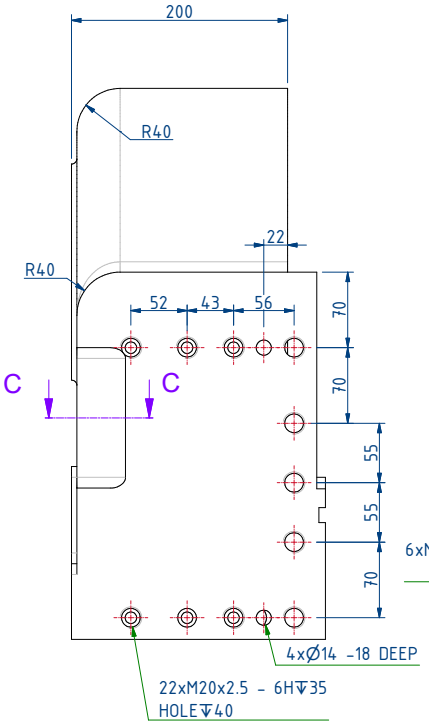
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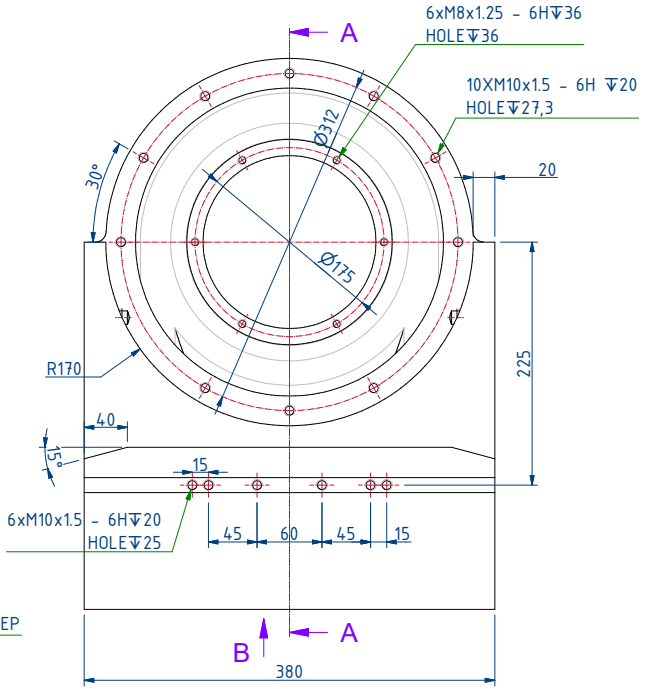
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Design by:	
Last Update:	23/04/2026
Scale:	1 : 1
Paper:	A2
Page:	2/11
Drawing Number:	WSC2026_TP05_M3
Rev:	
Description:	PBM-001-011
Projection:	

A-A (1 :3.5)

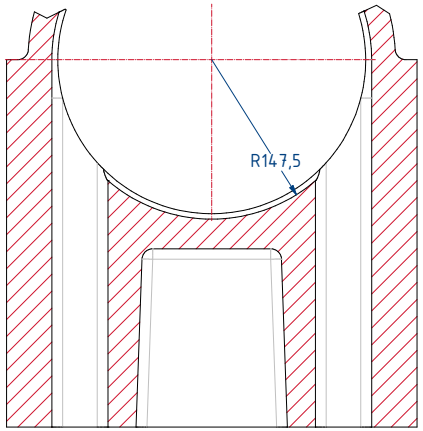




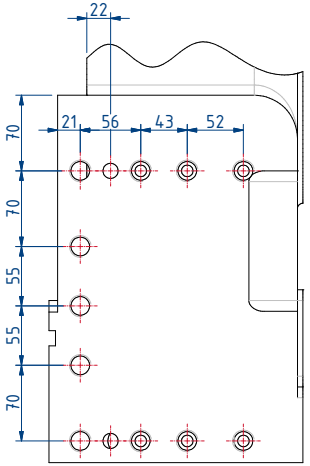




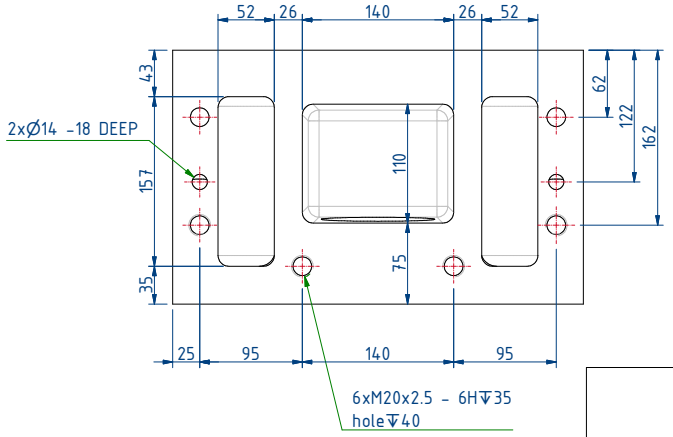
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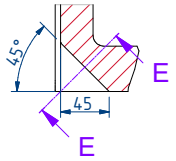
F (1 :3.5)



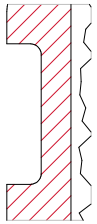
B (1 :3.5)



C-C (1 :3.5)



E-E (1 :3.5)



NOTES:
1.All unspecified fillets=R10

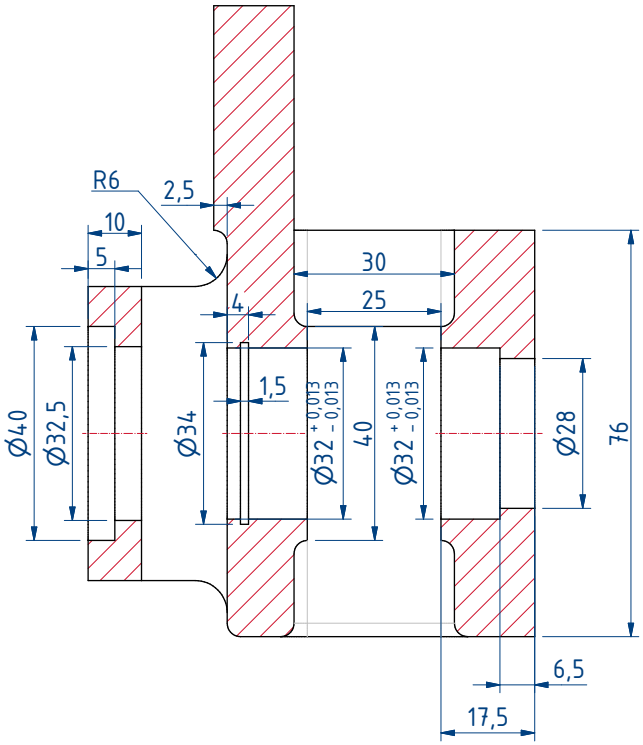
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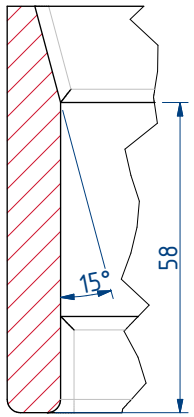
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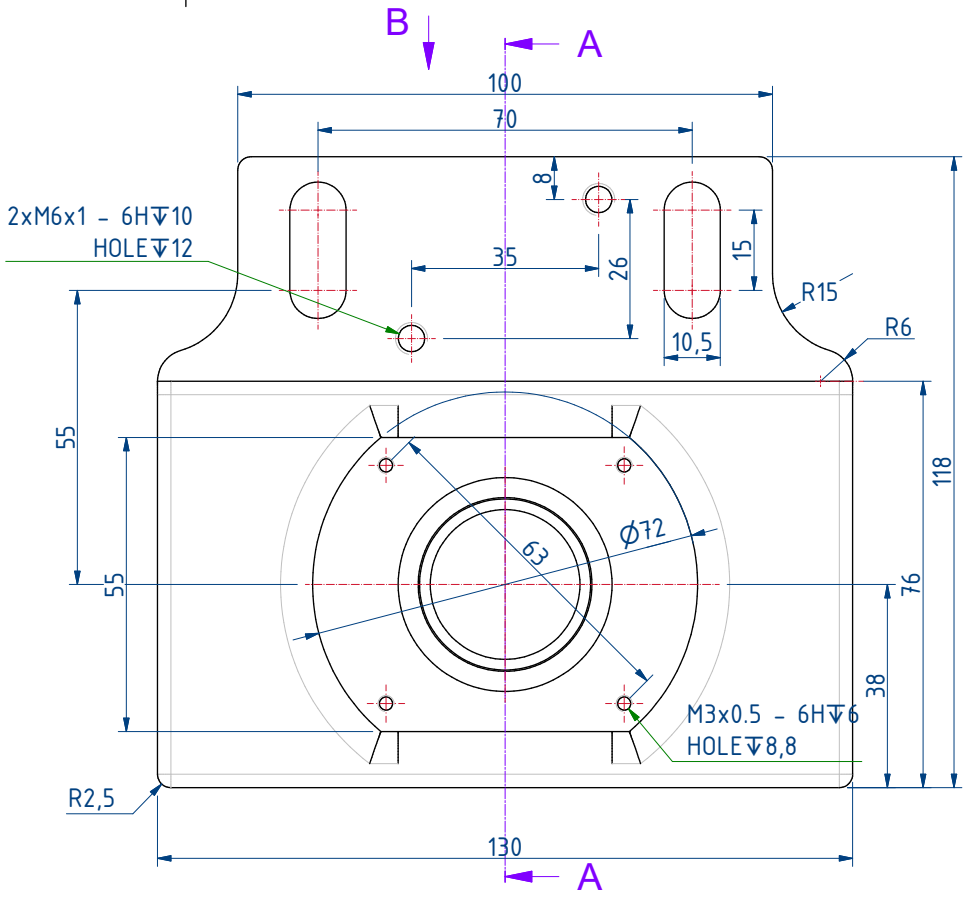
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Design by:				
Last Update: 23/04/2026	Scale: 1 :3.5	Paper: A2	Page: 3/11	
Drawing Number: WSC2026_TP05_M3				Rev:
Description: PBM-001-028				Projection:

A-A (1 : 1)

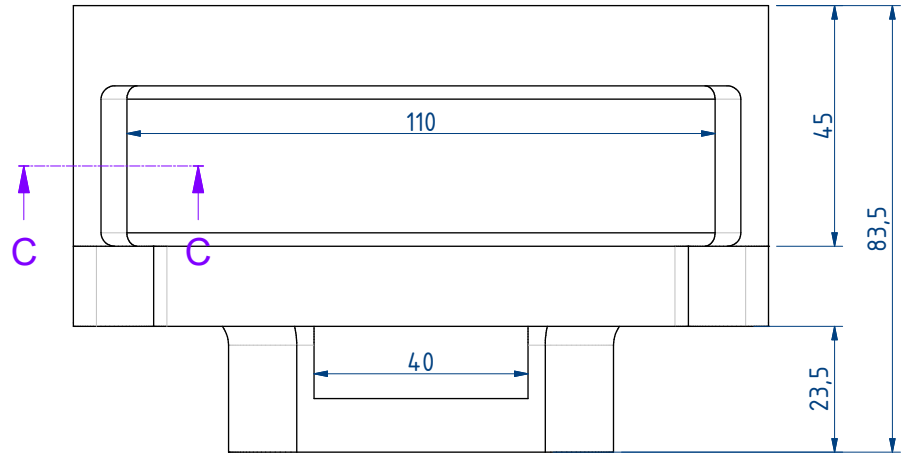


C-C (1 : 1)





B (1 : 1)



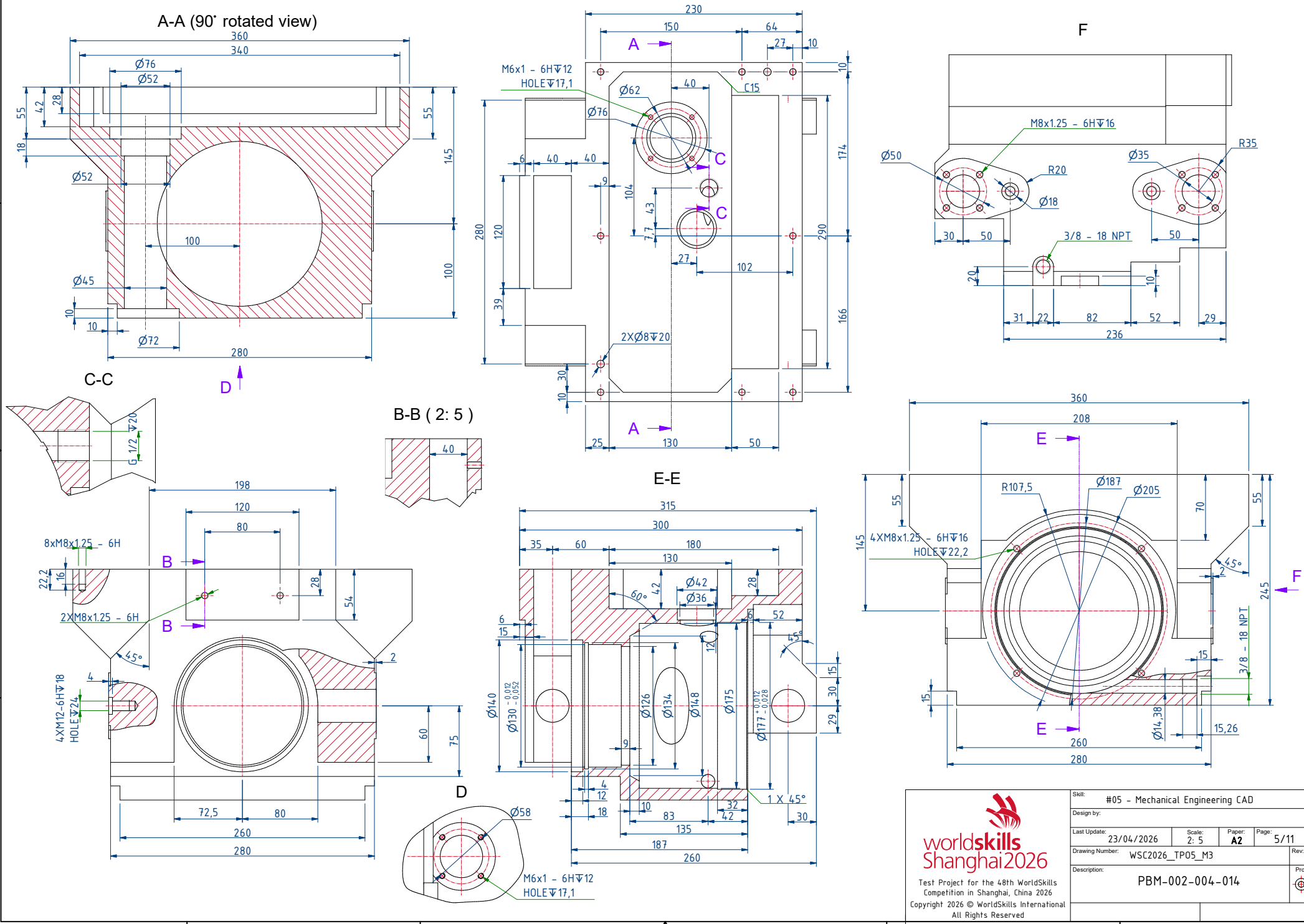
NOTES:
1.All unspecified fillets=R2.5

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Skill: #05 - Mechanical Engineering CAD				
Design by:				
Last Update: 23/04/2026	Scale: 1 : 1	Paper: A3	Page: 4/11	
Drawing Number: WSC2026_TP05_M3				Rev:
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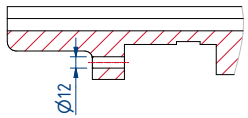
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Test Project for the 48th WorldSkills Competition in Shanghai, China 2026

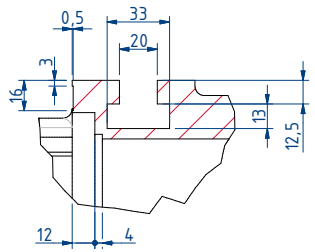
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Last Update:	23/04/2026
Scale:	2: 5
Paper:	A2
Page:	5/11
Drawing Number:	WSC2026_TP05_M3
Rev:	
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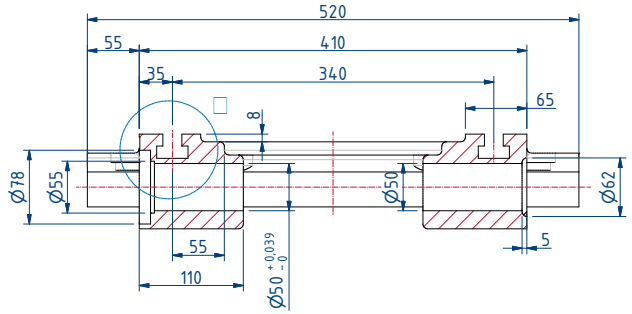
D-D (1 : 4)

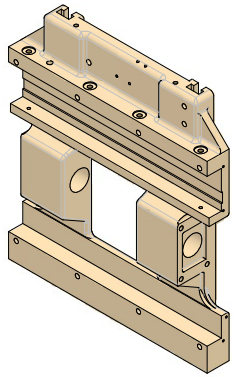


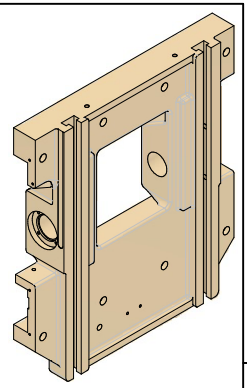
□ (1 : 2)



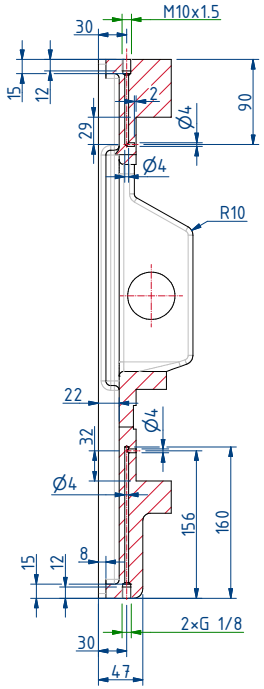
C-C (1 : 4)



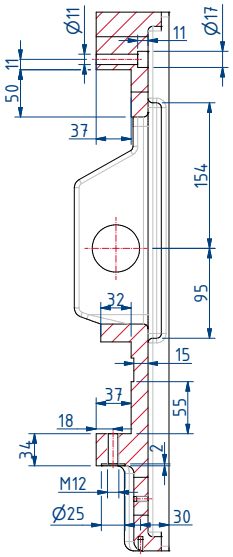


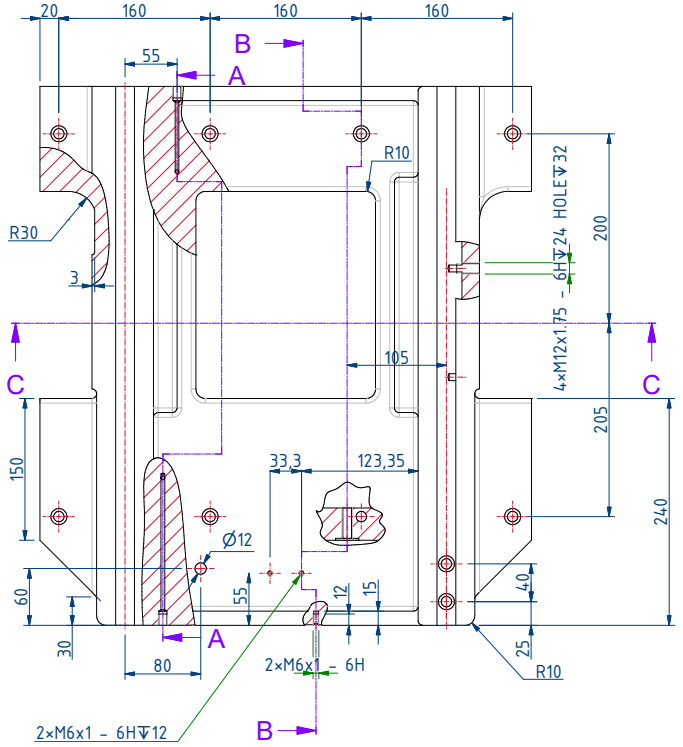


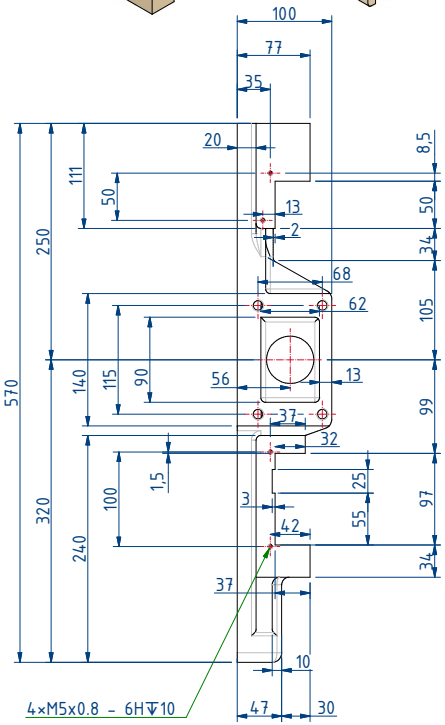
A-A (1 : 4)

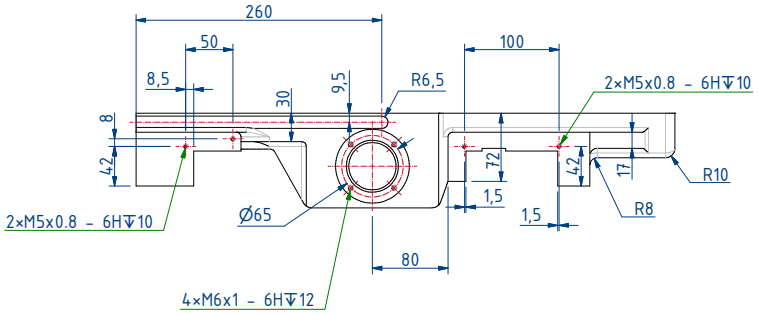


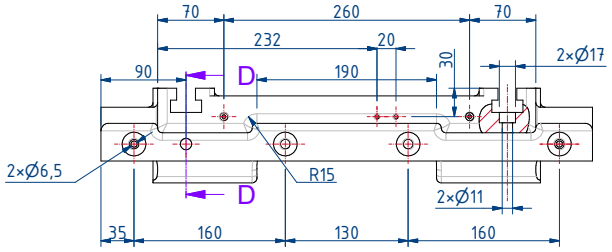
B-B (1 : 4)











NOTES:
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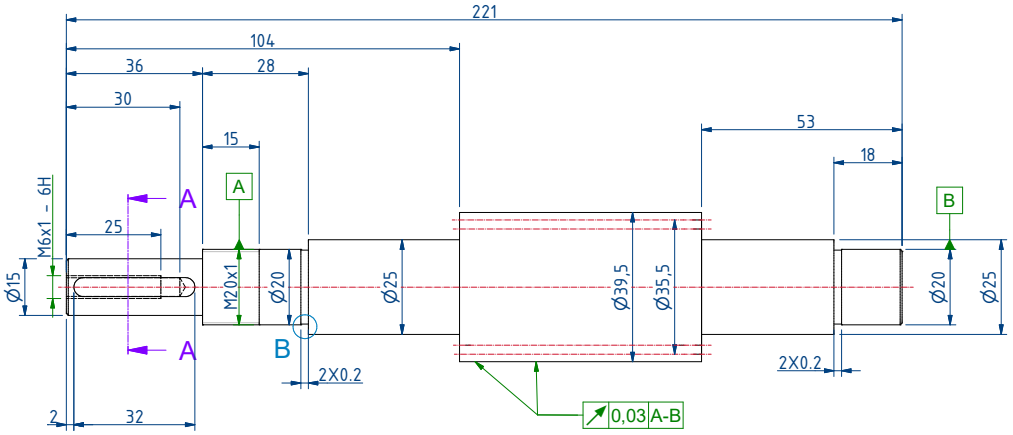
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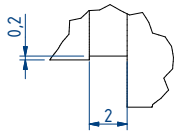
Test Project for the 48th WorldSkills Competition in Shanghai, China 2026

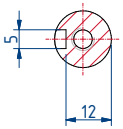
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Skill: #05 - Mechanical Engineering CAD				
Design by:				
Last Update: 23/04/2026	Scale: 1 : 4	Paper: A2	Page: 6/11	
Drawing Number: WSC2026_TP05_M3				Rev:
Description: PBM-002-001-008				Projection:

modulus	m	?
number of threads of worm	Z1	1
modification coefficient	?	
lead angle	γ	3°13'28"
Spiral direction		right
pressure angle	α	20°
center distance	a	?



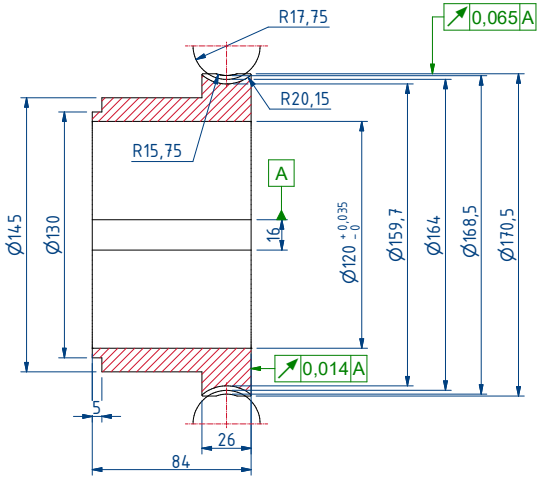


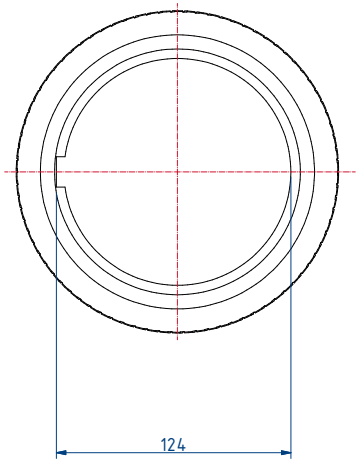


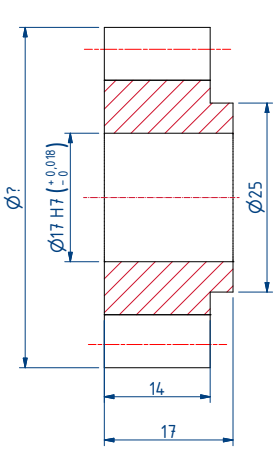
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1. All unspecified chamfers=C0.5

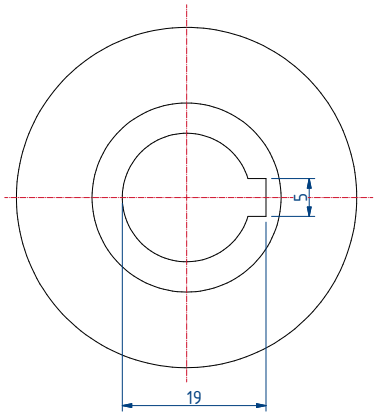
PBM-002-004-011

modulus	m	?
number of teeth	Z2	?
number of threads of worm	Z	1
modification coefficient	0.125	
lead angle	γ	3°13'28"
Spiral direction		right
Pressure angle within the axial section of the worm shaft	α	20°
center distance	a	?









PBM-001-015

PBM-002-004-012

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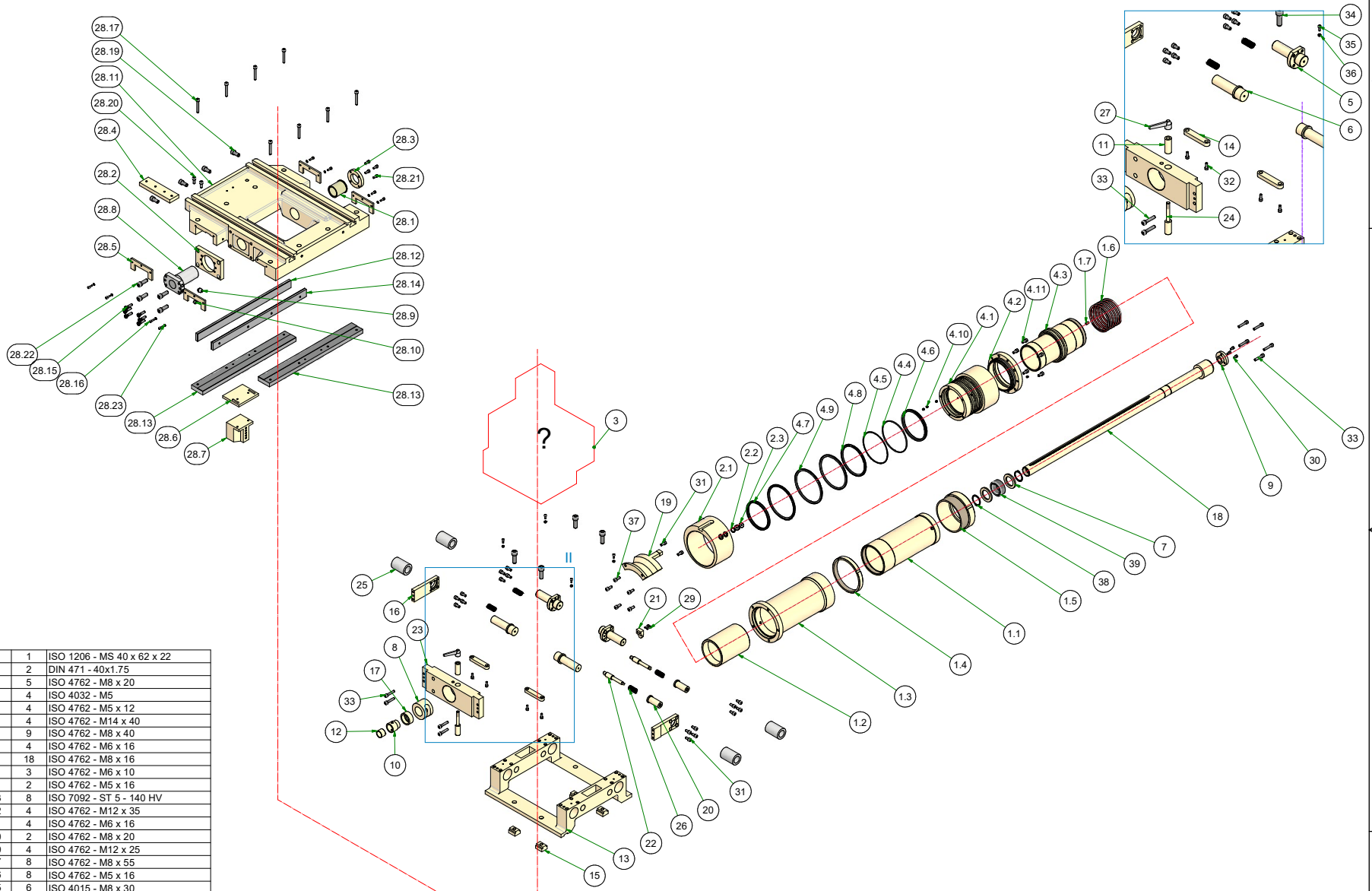
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Skill: #05 – Mechanical Engineering CAD				
Design by:				
Last Update: 23/04/2026	Scale: 1 : 1	Paper: A2	Page: 7/11	
Drawing Number: WSC2026_TP05_M3				Rev:
Description:				Projection:

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22	2	PBM-002-023
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20	2	PBM-002-021
19	1	PBM-002-020
18	1	PBM-002-019
17	1	PBM-002-018
16	2	PBM-002-017
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9	1	PBM-002-010
8	1	PBM-002-009
7	2	PBM-002-008
6	2	PBM-002-007
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4.8	1	PBM-002-005-007
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4.5	1	PBM-002-005-009
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4.3	1	PBM-002-005-003
4.2	1	PBM-002-005-002
4.1	1	PBM-002-005-001
4	1	PBM-002-005
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3.36	1	ISO 2982-2 - M120 x 2 x 135
3.35	1	DIN 625 SKF - SKF 6007
3.34	1	DIN 625 SKF - SKF 6004
3.33	1	DIN 625 SKF - SKF 6304
3.32	1	DIN 472 - 130 x 4
3.31	2	ISO 8734 - 6 x 14 - A
3.30	1	DIN 3760 - A - 110 x 140 x 12 - NBR
3.29	1	DIN 3760 - A - 130 x 160 x 12 - NBR
3.28	1	DIN 6885 - A 16 x 10 x 70
3.27	1	DIN 6885 - A 5 x 5 x 32
3.26	1	ISO 49 Beaded Plug T9 1/2
3.25	1	PBM-002-004-024
3.24	17	ISO 4762 - M6 x 16
3.23	4	ISO 4762 - M8 x 45
3.20	15	ISO 4762 - M8 x 30
3.38	1	PBM-002-004-023
3.22	1	PBM-002-004-022
3.21	1	PBM-002-004-021
3.19	1	PBM-002-004-019
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3.4	1	PBM-002-004-004
3.3	1	PBM-002-004-003
3.2	1	PBM-002-004-002
3.1	1	PBM-002-004-001
3	1	PBM-002-004
2.3	2	PBM-002-003-003
2.2	2	PBM-002-003-002
2.1	1	PBM-002-003-001
2	1	PBM-002-003
1.7	1	PBM-002-002-007
1.6	1	PBM-002-002-006
1.5	1	PBM-002-002-005
1.4	1	PBM-002-002-004
1.3	1	PBM-002-002-003
1.2	1	PBM-002-002-002
1.1	1	PBM-002-002-001
1	1	PBM-002-002

NO.	QTY.	PART NUMBER
39	1	ISO 1206 - MS 40 x 62 x 22
38	2	DIN 471 - 40x1.75
37	5	ISO 4762 - M8 x 20
36	4	ISO 4032 - M5
35	4	ISO 4762 - M5 x 12
34	4	ISO 4762 - M14 x 40
33	9	ISO 4762 - M8 x 40
32	4	ISO 4762 - M6 x 16
31	18	ISO 4762 - M8 x 16
30	3	ISO 4762 - M6 x 10
29	2	ISO 4762 - M5 x 16
28.23	8	ISO 7092 - ST 5 - 140 HV
28.22	4	ISO 4762 - M12 x 35
28.21	4	ISO 4762 - M6 x 16
28.20	2	ISO 4762 - M8 x 20
28.19	4	ISO 4762 - M12 x 25
28.17	8	ISO 4762 - M8 x 55
28.16	8	ISO 4762 - M5 x 16
28.15	6	ISO 4015 - M8 x 30
28.14	1	PBM-002-001-011
28.13	2	PBM-002-001-010
28.12	1	PBM-002-001-009
28.11	1	PBM-002-001-008
28.10	1	PBM-002-001-014
28.9	1	PBM-002-001-013
28.8	1	PBM-002-001-012
28.7	1	PBM-002-001-007
28.6	1	PBM-002-001-006
28.5	4	PBM-002-001-005
28.4	1	PBM-002-001-004
28.3	1	PBM-002-001-003
28.2	1	PBM-002-001-002
28.1	1	PBM-002-001-001
28	1	PBM-002-001
27	1	PBM-002-028

II (1 : 6)

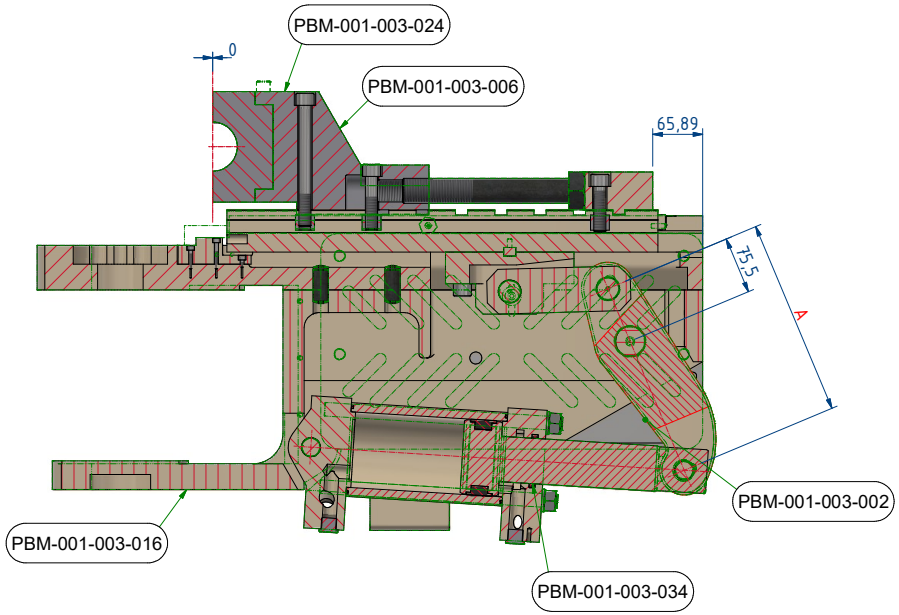


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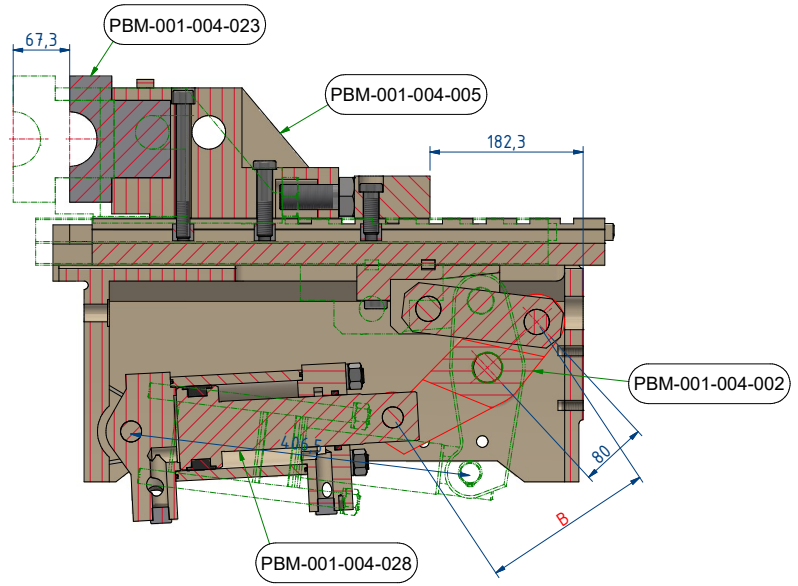
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Design by:				
Last Update: 23/04/2026	Scale: 1 : 5	Paper: A1	Page: 8/11	
Drawing Number: WSC2026_TP05_M3				Rev:
Description: PBM-002				Projection:



Determine the dimension A based on the stroke of PBM-001-003-024 and the limit positions of PBM-001-003-034.

PBM-001-003

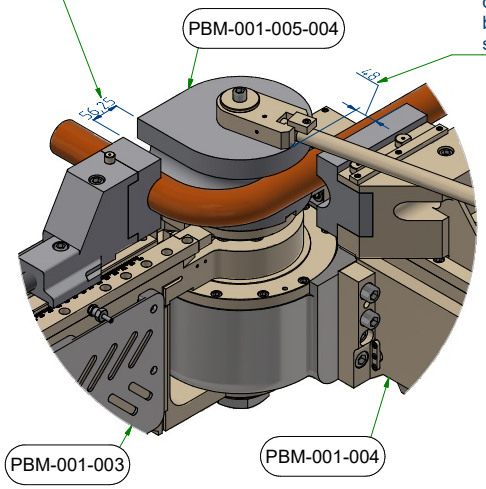


Determine the dimension B based on the stroke of PBM-001-004-023 and
the limit positions of PBM-001-004-028.

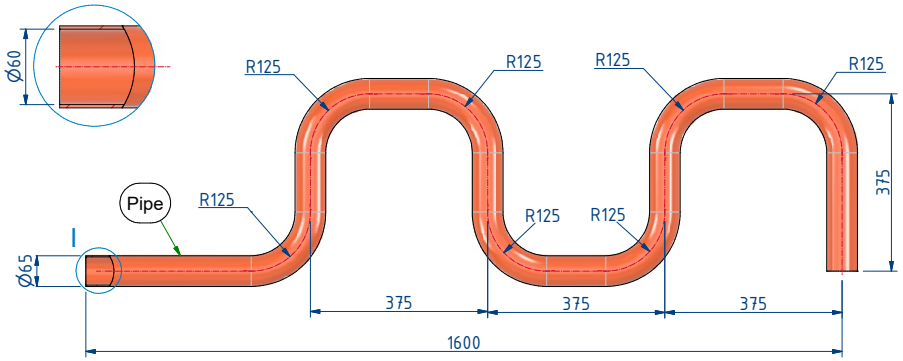
PBM-001-004

Maximum theoretical stroke of PBM-001-003-024 is 59.14 mm. However, during actual operation, its stroke is limited by PBM-001-005-004, resulting in an actual stroke of only 56.25 mm.

Maximum theoretical stroke of PBM-001-004-023 is 67.3 mm. However, during actual operation, its stroke is limited by PBM-001-005-004, resulting in an actual stroke of only 48 mm.

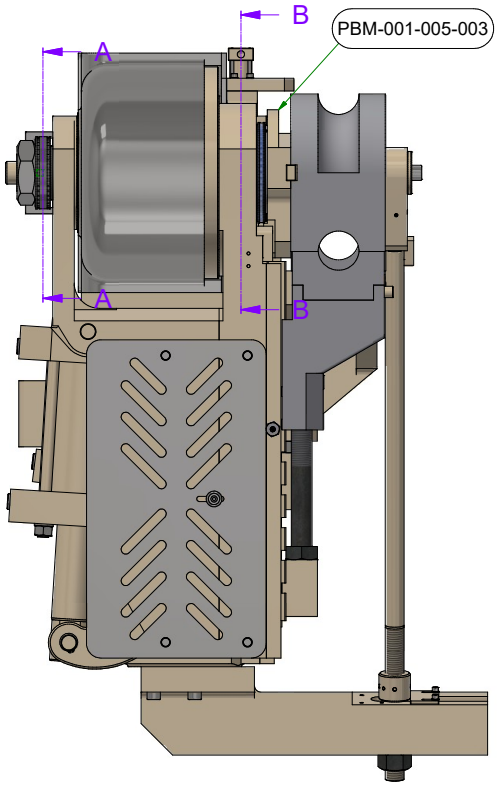


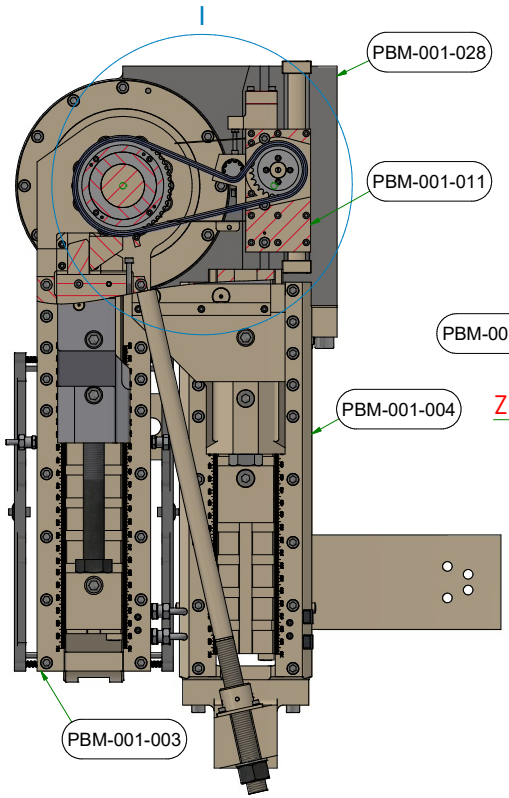
I (1 : 3)



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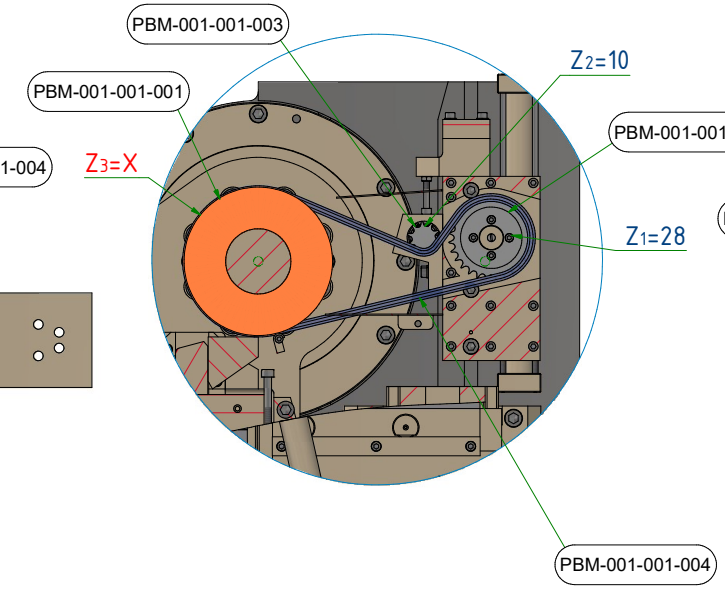
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Drawing Number:	WSC2026_TP05_M3 · Rev:
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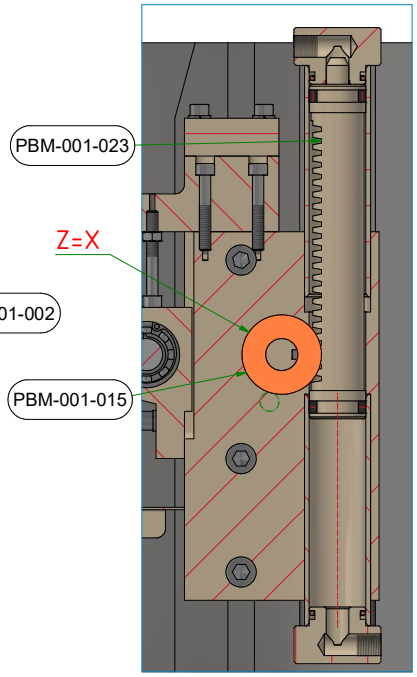


I (1 : 4)

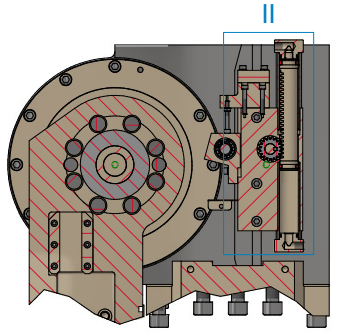
PBM-001-001.iam



II (1 : 2)

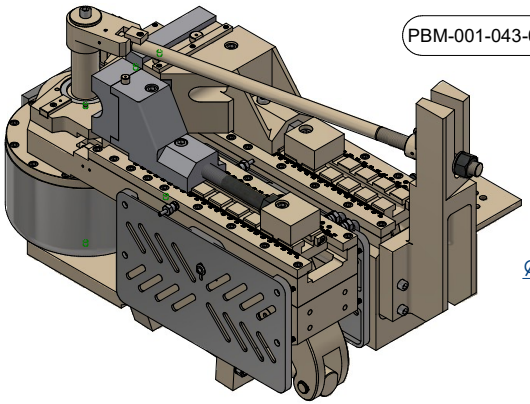


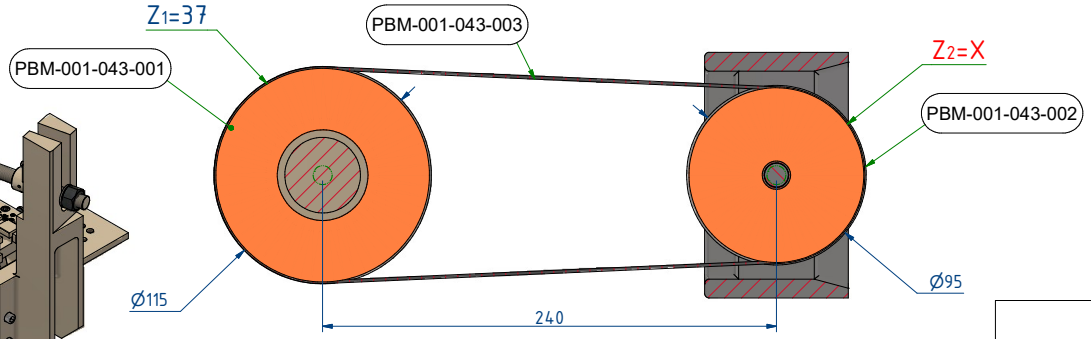
B-B (1 : 6)



A-A (1 : 2)

PBM-001-043.iam



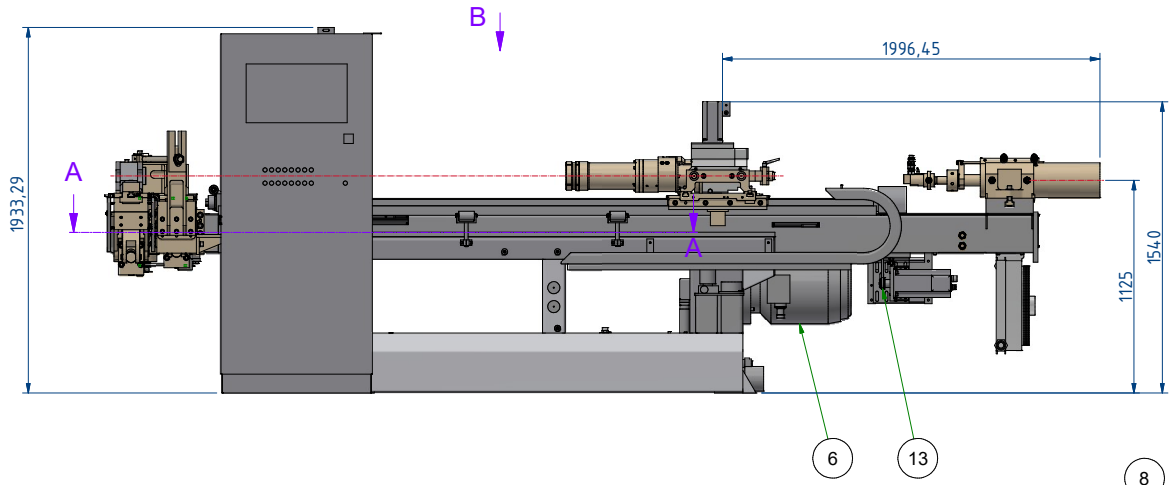


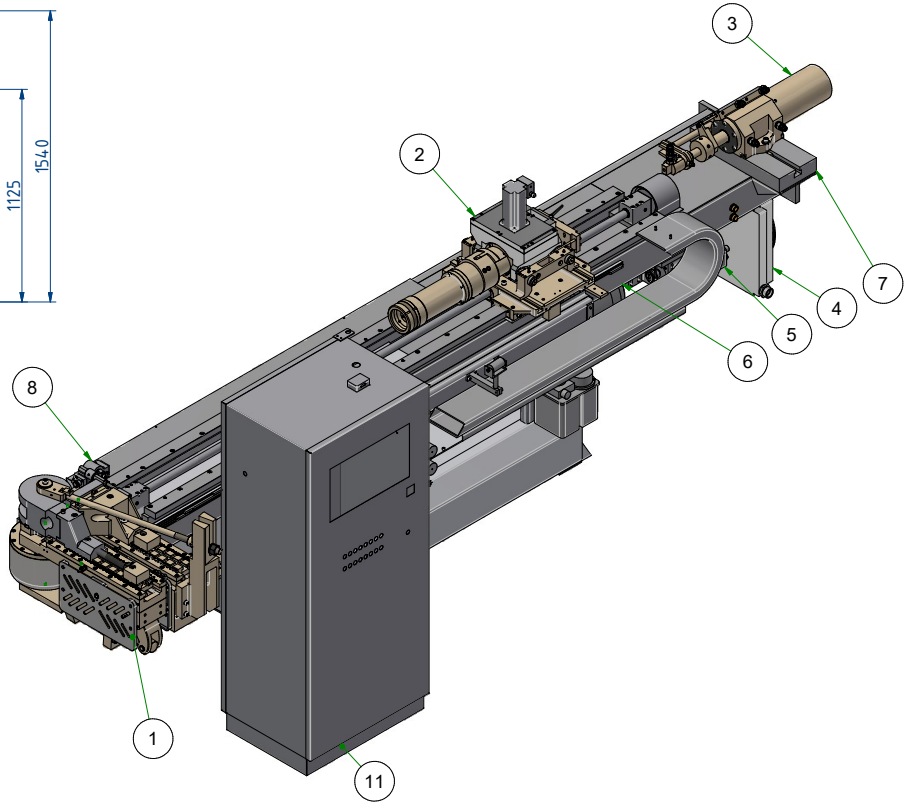
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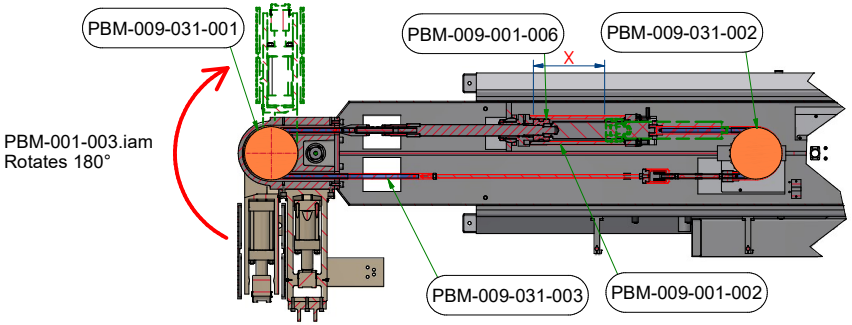
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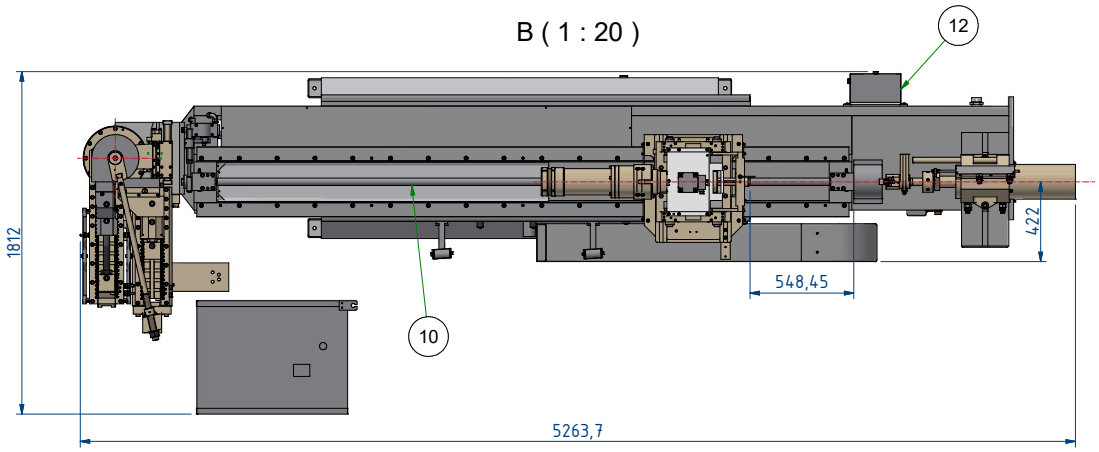


A-A (1 : 20)

PBM-009.iam



B (1 : 20)



NO.	QTY.	PART NUMBER
13	1	PBM-015
12	1	PBM-014
11	1	PBM-013
10	1	PBM-012
9	1	PBM-009
8	1	PBM-008
7	1	PBM-007
6	1	PBM-006
5	1	PBM-005
4	1	PBM-004
3	1	PBM-003
2	1	PBM-002
1	1	PBM-001

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