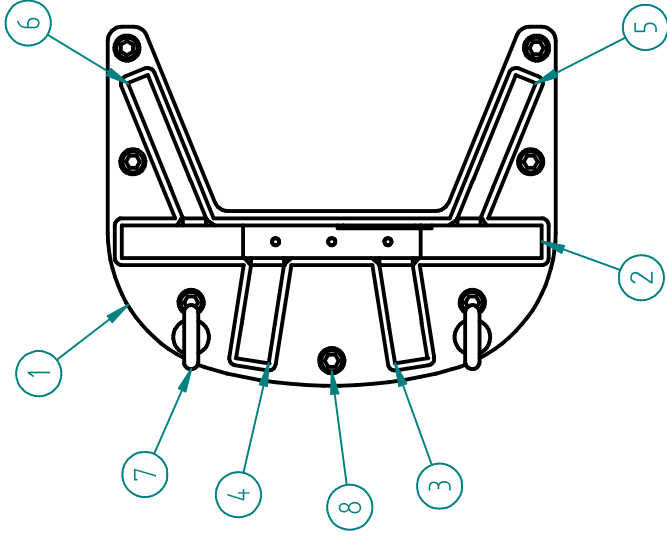


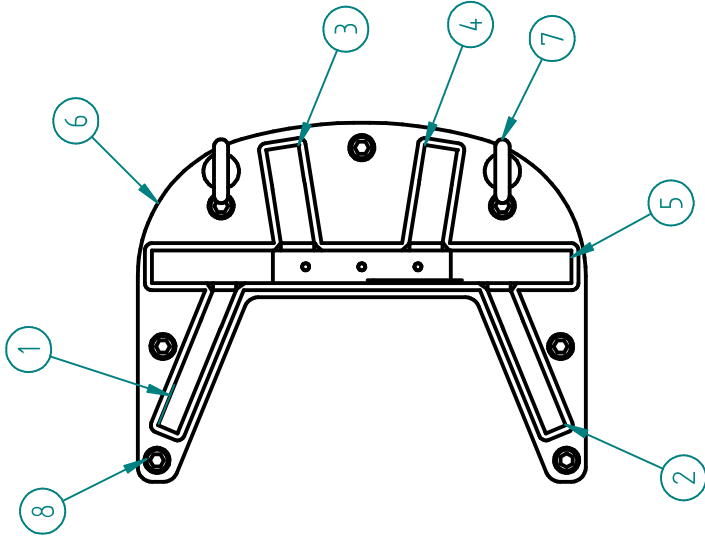
1	Base plate	1	12
2	Left post	1	2
3	Oil post	1	3
4	Heckert pallette hydraulic 1060736-0	1	
5	din_912-m16x2-55-12_9	14	
6	07061-16 T-nut Norelem	14	
7	Bridge	1	13
8	din_912-m12x1_75-40-12_9	6	
9	Bottom left module	1	10
10	Bottom mid module	1	8
11	Bottom right module	1	7
12	Oil module	1	6
13	Top left module	1	4
14	Top right module	1	5
15	Locator pin Z6	1	11
16	Side clamp Atlas Copco	1	26
17	Top clamp Atlas Copco	2	25
18	Bottom mid Z5 attachment	1	9
19	Cover post	2	27
20	left base plate cover	1	28
21*	Right base plate cover	1	29
Item Number	Name	Quantity	DWG No.

Scale	Projection	Comments	File Name	DWG No.
1:20		Fixture mass Z5 configuration: 1336 kg Fixture mass Z6 configuration: 1355 kg	Z5/Z6 BH Fixture	1
KATHOLIEKE UNIVERSITEIT LEUVEN MECHANICAL ENGINEERING Author: Jérémy Dupont, Elia Menten, Thibault Mertens, Olivier Ndiindayino				
Z5/Z6 BH Fixture				A4
Date: 20/04/2021				



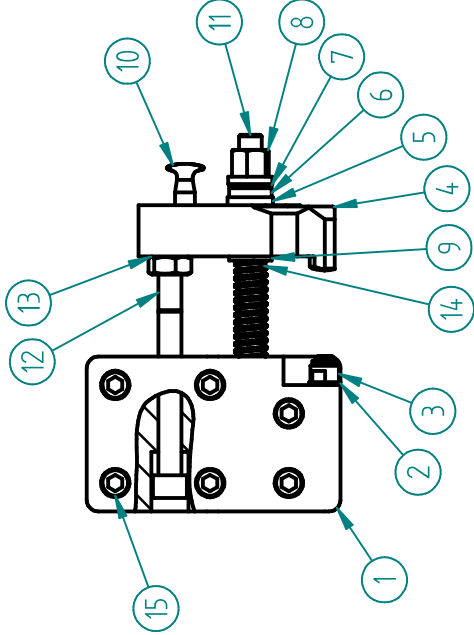
1	U-shaped base left post	1	14
2	Vertical plate left post	1	14
3	Outer rib 1	1	14
4	Outer rib 2	1	14
5	Inner rib 1	1	14
6	Inner rib 2	1	14
7	bolt_m24x3_din_580	2	
8	din_912-m20x2_5-50-12_9	7	
Item Number	Name	Quantity	DWG No.

Scale	Projection	Comments	File Name	DWG No.
1:10		The weldment consisting of pieces 1, 2, 3, 4, 5 and 6 is shown in drawing number 14. Mass: 282 kg	Z5/Z6 BH Fixture	2
KATHOLIEKE UNIVERSITEIT LEUVEN MECHANICAL ENGINEERING				
Author: Olivier Ndiindayano, Thibault Mertens			Date: 22/04/2021	
Left post			A4	



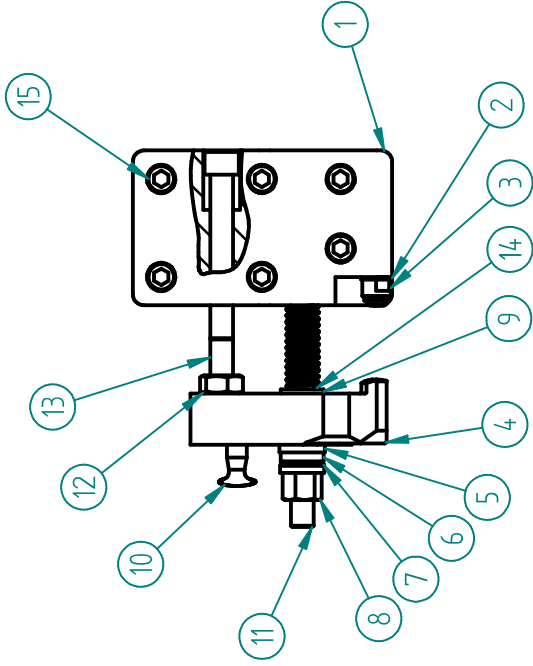
1	Inner rib 1	1	15
2	Inner rib 2	1	15
3	Outer rib 1	1	15
4	Outer rib 2	1	15
5	Vertical plate oil post	1	15
6	U-shaped base oil post	1	15
7	bolt_m24x3_din_580	2	
8	din_912-m20x2_5-50-12_	7	
Item Number	Name	Quantity	DWG No.

Scale	Projection	Comments	File Name	DWG No.
1:10		The weldment consisting of pieces 1, 2, 3, 4, 5 and 6 is shown in drawing number 15. Mass: 279 kg	Z5/Z6 BH Fixture	3
KATHOLIEKE UNIVERSITEIT LEUVEN MECHANICAL ENGINEERING				
Oil post				
Author: Olivier Ndiindayino, Thibault Mertens			Date: 22/04/2021	A4



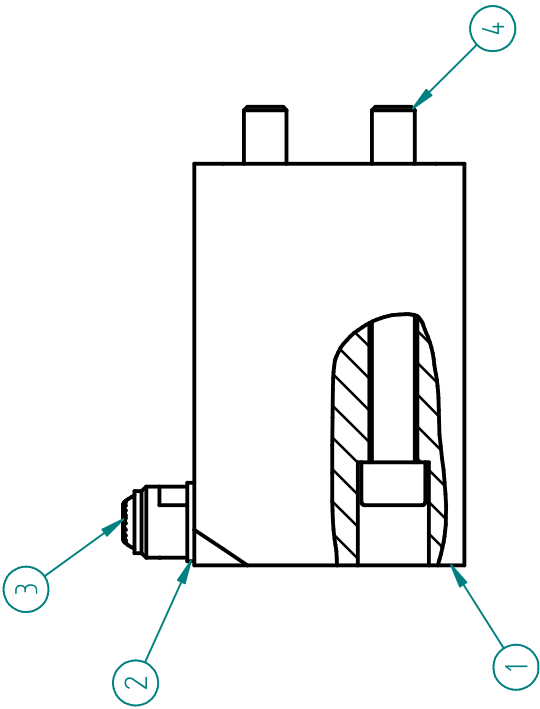
1	Block top left module	1	16
2	Washer 2 mm Atlas Copco	1	
3	02000-312 self-aligning pad Norelem	1	
4	Clamp M16 Atlas Copco	1	
5	Clamp sleeve Atlas Copco	1	
6	07420-216 conical seat Norelem	1	
7	07420-116 spherical washer Norelem	1	
8	07242-16 nut with no-loss washer Norelem	1	
9	Clamp washer Atlas Copco	1	
10	Knob clamp Atlas Copco	1	
11	M16 x 200 threaded rod	1	
12	din_912-m16x2-160-12_9	1	
13	nut_din_6915_m16	1	
14	Spring Atlas Copco	1	
15	din_912-m12x1_75-100-12_9	6	
Item Number	Name	Quantity	DWG No.

Scale	Projection	Comments	DWG No.
1:5		Screw No. 12 must be threaded along the entire shank.	
		Z5/Z6 BH Fixture	4
<div> <div> KATHOLIEKE UNIVERSITEIT LEUVEN MECHANICAL ENGINEERING </div> <div> Top left module </div> </div>			
Author: Elia Menten, Thibault Mertens			Date: 21/04/2021
			A4



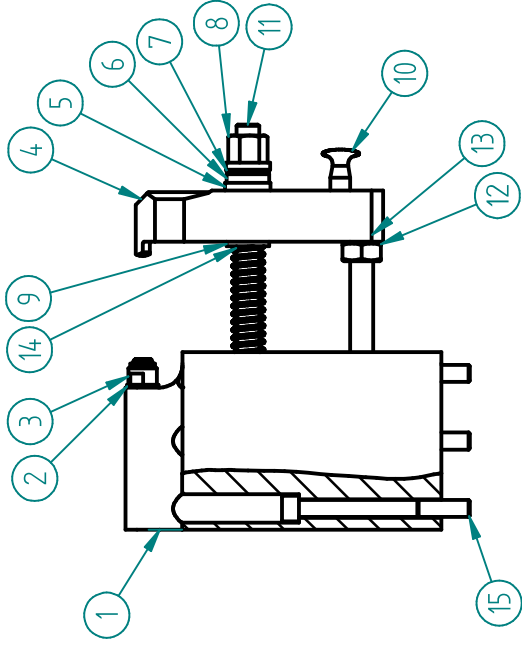
1	Block top right module	1	17
2	Washer 2 mm Atlas Copco	1	
3	02000-312 self-aligning pad Norelem	1	
4	Clamp M16 Atlas Copco	1	
5	Clamp sleeve Atlas Copco	1	
6	07420-216 conical seat Norelem	1	
7	07420-116 spherical washer Norelem	1	
8	07242-16 nut with no-loss washer Norelem	1	
9	Clamp washer Atlas Copco	1	
10	Knob clamp Atlas Copco	1	
11	M16 x 200 threaded rod	1	
12	nut_din_6915_m16	1	
13	din_912-m16x2-160-12_9	1	
14	Spring Atlas Copco	1	
15	din_912-m12x1_75-100-12_9	6	
Item Number	Name	Quantity	DWG No.

Scale	Projection	Comments	File Name	DWG No.
1:5		Screw No. 13 must be threaded along the entire shank.	Z5/Z6 BH Fixture	5
KATHOLIEKE UNIVERSITEIT LEUVEN MECHANICAL ENGINEERING Author: Elia Menten, Thibault Mertens				
Top right module				
Date: 21/04/2021				A4



1	Block oil module	1	18
2	Washer 2 mm Atlas Copco	1	
3	02000-312 self-aligning pad Norelem	1	
4	din_912-m12x1_75-100-12_9	4	
Item Number	Name	Quantity	DWG No.

Scale	Projection	Comments	
1:2			
		File Name	DWG No.
		Z5/Z6 BH Fixture	6
Oil module			
KATHOLIEKE UNIVERSITEIT LEUVEN MECHANICAL ENGINEERING			
Author: Elia Menten, Thibault Mertens		Date: 21/04/2021	A4



1	Block bottom right module	1	19
2	Washer 2 mm Atlas Copco	1	
3	02000-312 self-aligning pad Norelem	1	
4	Clamp M16 Atlas Copco	1	
5	Clamp sleeve Atlas Copco	1	
6	07420-216 conical seat Norelem	1	
7	07420-116 spherical washer Norelem	1	
8	07242-16 nut with no-loss washer Norelem	1	
9	Clamp washer Atlas Copco	1	
10	Knob Clamp Atlas Copco	1	
11	M16 x 200 threaded rod	1	
12	nut_din_6915_m16	1	
13	M16 x 120 threaded rod	1	
14	Spring Atlas Copco	1	
15	din_912-m12x1_75-120-12_9	6	
Item Number	Name	Quantity	DWG No.

Scale Projection Comments



1:5

File Name	DWG No.
Z5/Z6 BH Fixture	7

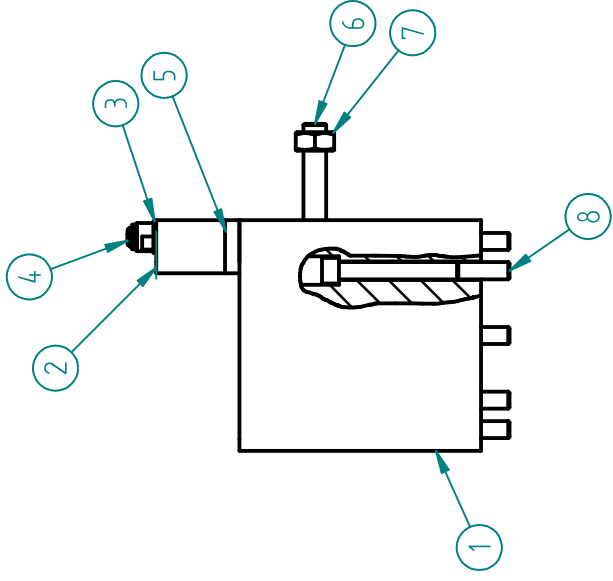
KATHOLIEKE UNIVERSITEIT
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MECHANICAL ENGINEERING

Bottom right module

Author: Thibault Mertens, Elia Menten

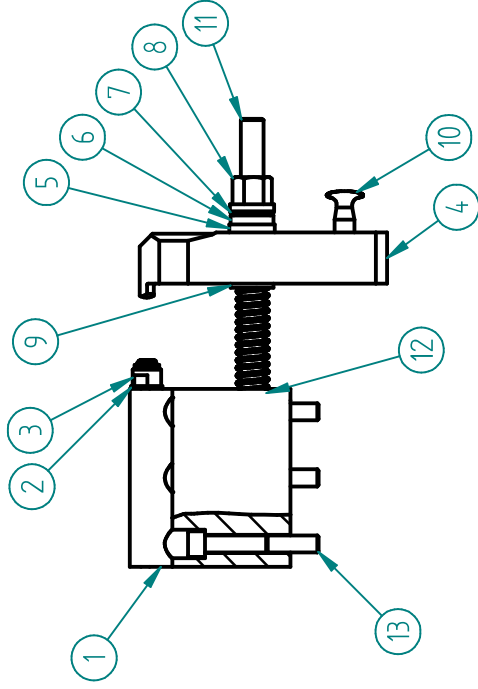
Date: 21/04/2021

A4



1	Block mid module	1	20
2	Mid module L-block	1	21
3	Washer 2 mm Atlas Copco	1	
4	02000-312 self-aligning pad Norelem	1	
5	screw_iso_10642-m10x20-12_9	2	
6	M16 x 105 threaded rod	1	
7	nut_din_6915_m16	1	
8	din_912-m12x1_75-120-12_9	6	
Item Number	Name	Quantity	DWG No.

Scale	Projection	Comments	
1:5			
		File Name	DWG No.
		Z5/Z6 BH Fixture	8
KATHOLIEKE UNIVERSITEIT LEUVEN MECHANICAL ENGINEERING			
Author: Thibault Mertens, Elia Menten			
Bottom mid module			Date: 22/04/2021
			A4



1	Z5 attachment block	1	22
2	Washer 2 mm Atlas Copco	1	
3	02000-312 self-aligning pad Norelem	1	
4	Clamp M16 Atlas Copco	1	
5	Clamp sleeve Atlas Copco	1	
6	07420-216 conical seat Norelem	1	
7	07420-116 spherical washer Norelem	1	
8	07242-16 nut with no-loss washer Norelem	1	
9	Clamp washer Atlas Copco	1	
10	Knob Clamp Atlas Copco	1	
11	M16 x 230 threaded rod	1	
12	Spring Atlas Copco	1	
13	din_912-m12x1_75-80-12_9	6	
Item Number	Name	Quantity	DWG No.

Scale Projection Comments



1:5

File Name	DWG No.
Z5/Z6 BH Fixture	9

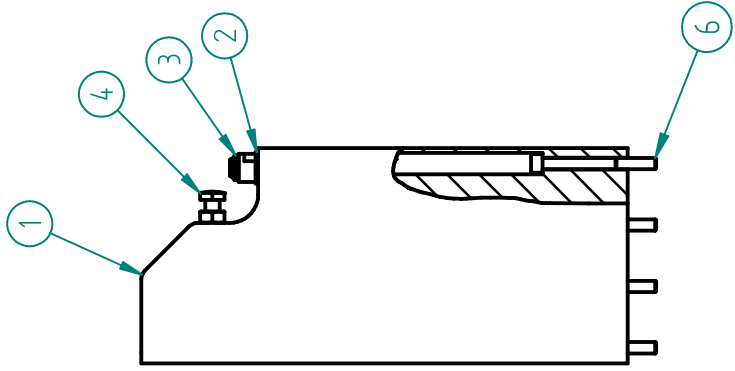
KATHOLIEKE UNIVERSITEIT
LEUVEN
MECHANICAL ENGINEERING

Bottom mid Z5 attachment


Author: Thibault Mertens, Elia Menten

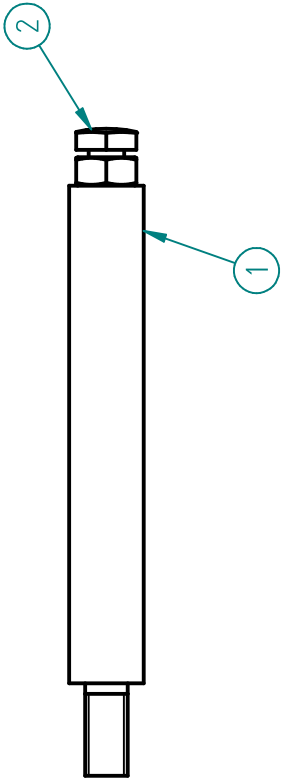
Date: 21/04/2021

A4

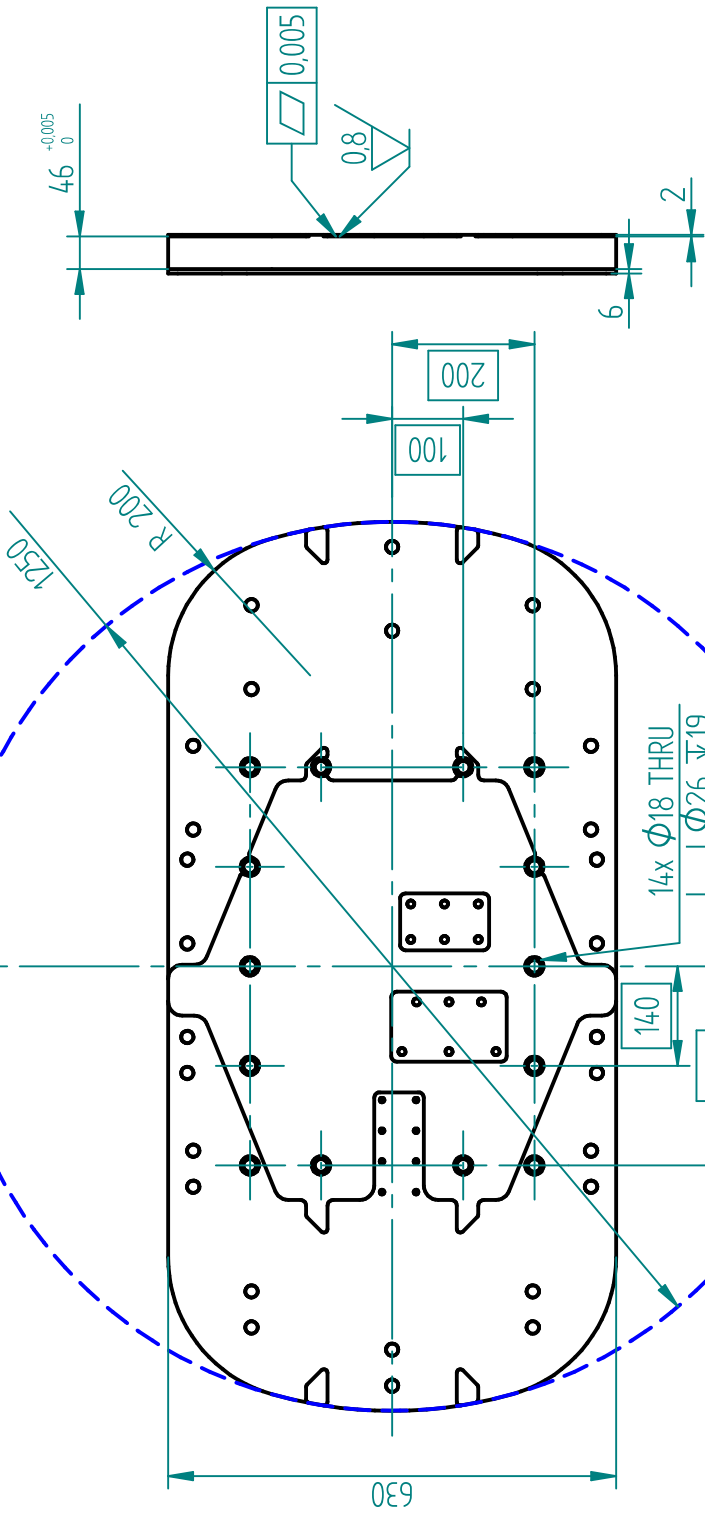
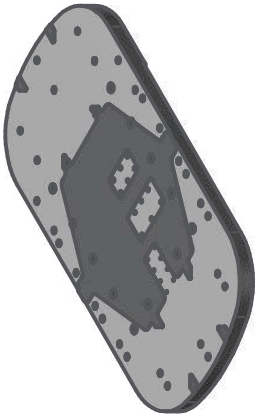


1	Block bottom left module	1	23
2	Washer 2 mm Atlas Copco	1	
3	02000-312 self-aligning pad Norelem	1	
4	02153-10048 rest pad Norelem	1	
6	din_912-m8x1_25-80-12_9	8	
Item Number	Name	Quantity	DWG No.

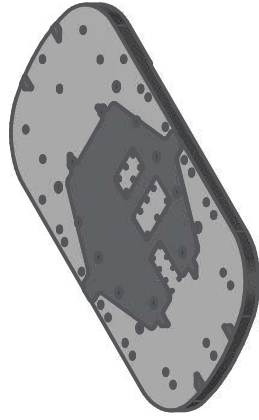
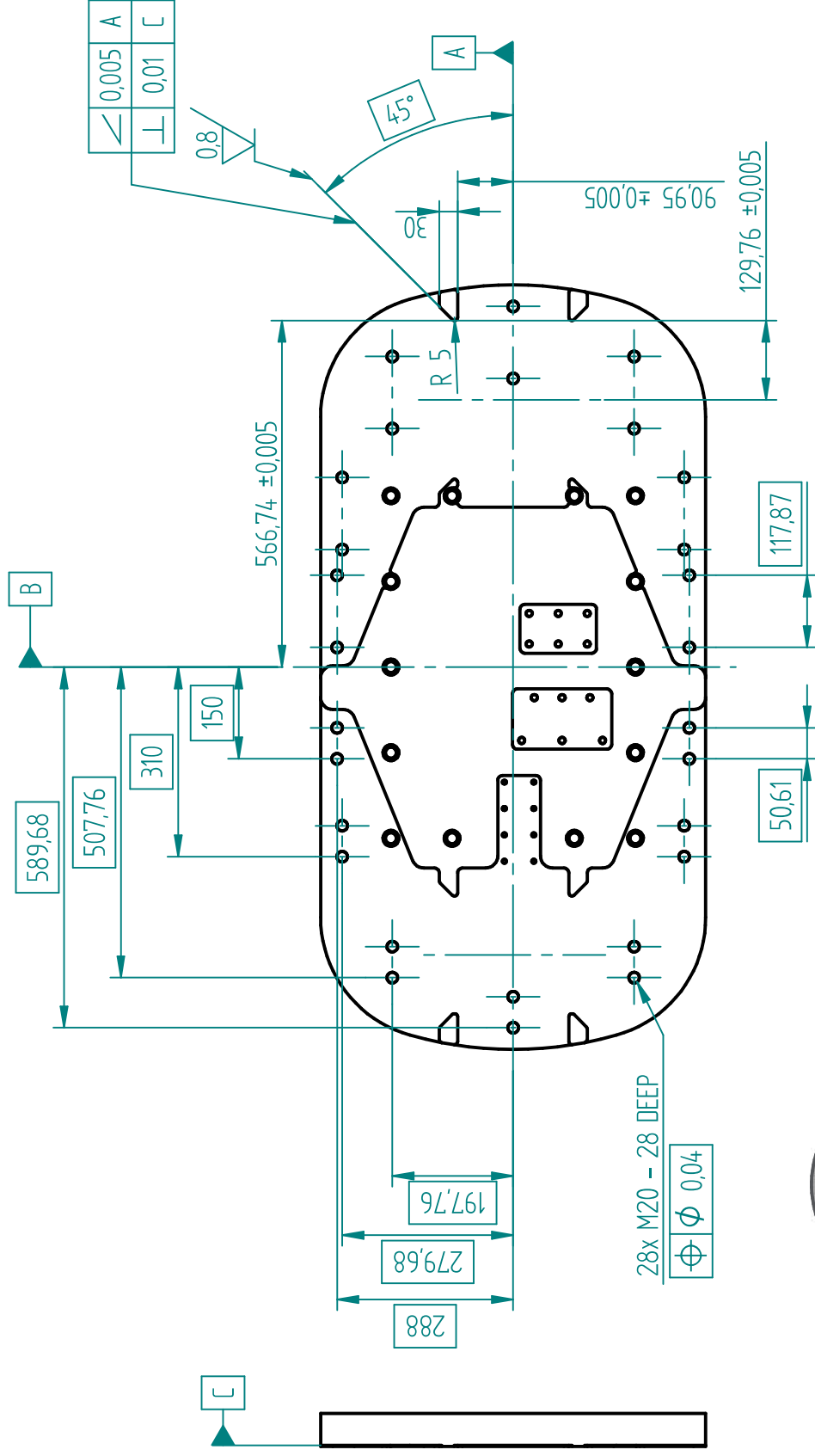
Scale	Projection	Comments	
1:5			
		File Name	DWG No.
		Z5/Z6 BH Fixture	10
Bottom left module			
KATHOLIEKE UNIVERSITEIT LEUVEN MECHANICAL ENGINEERING			
Author: Thibault Mertens, Elia Menten		Date: 20/04/2021	A4

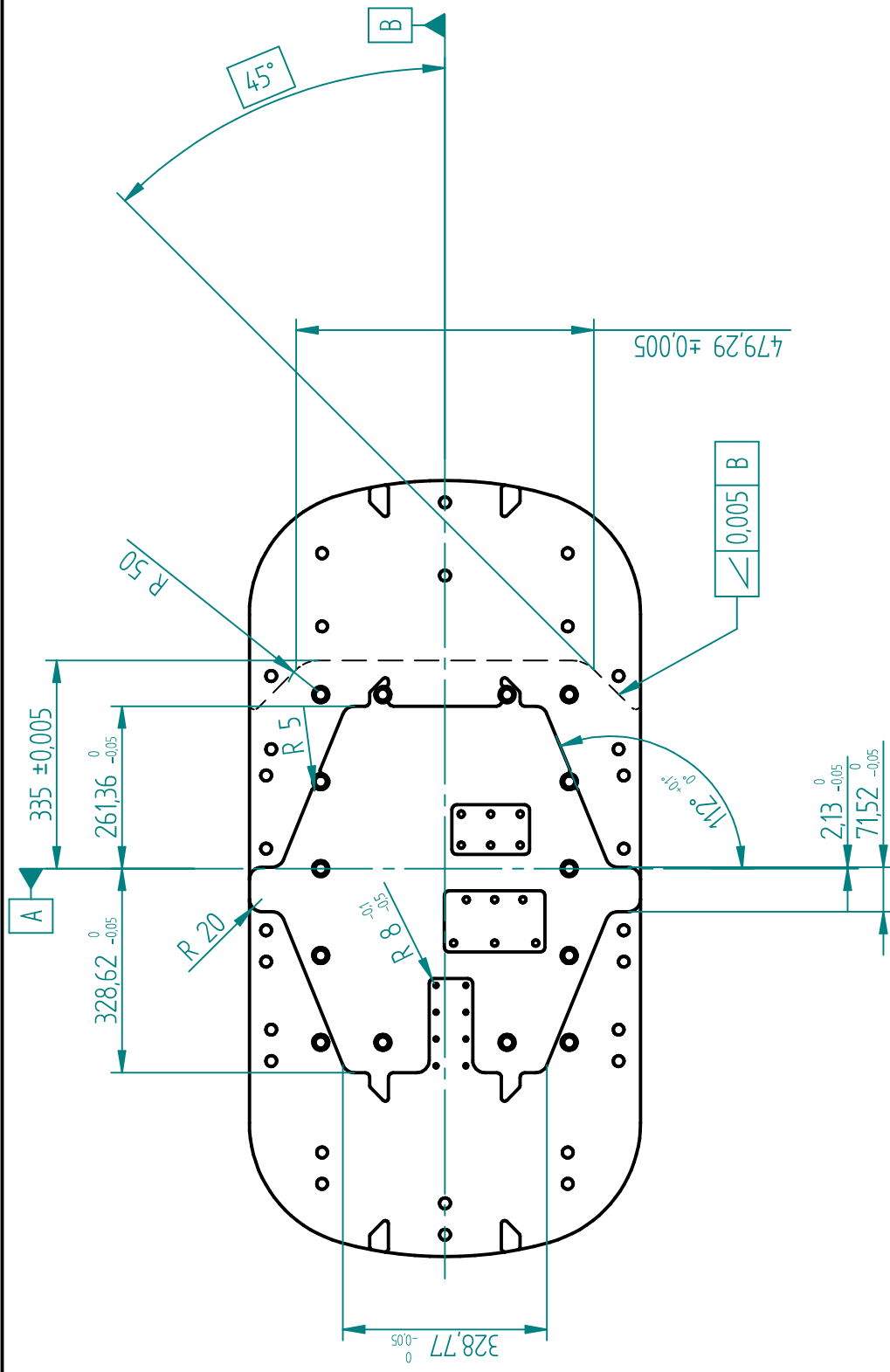
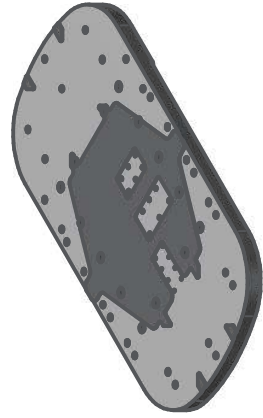


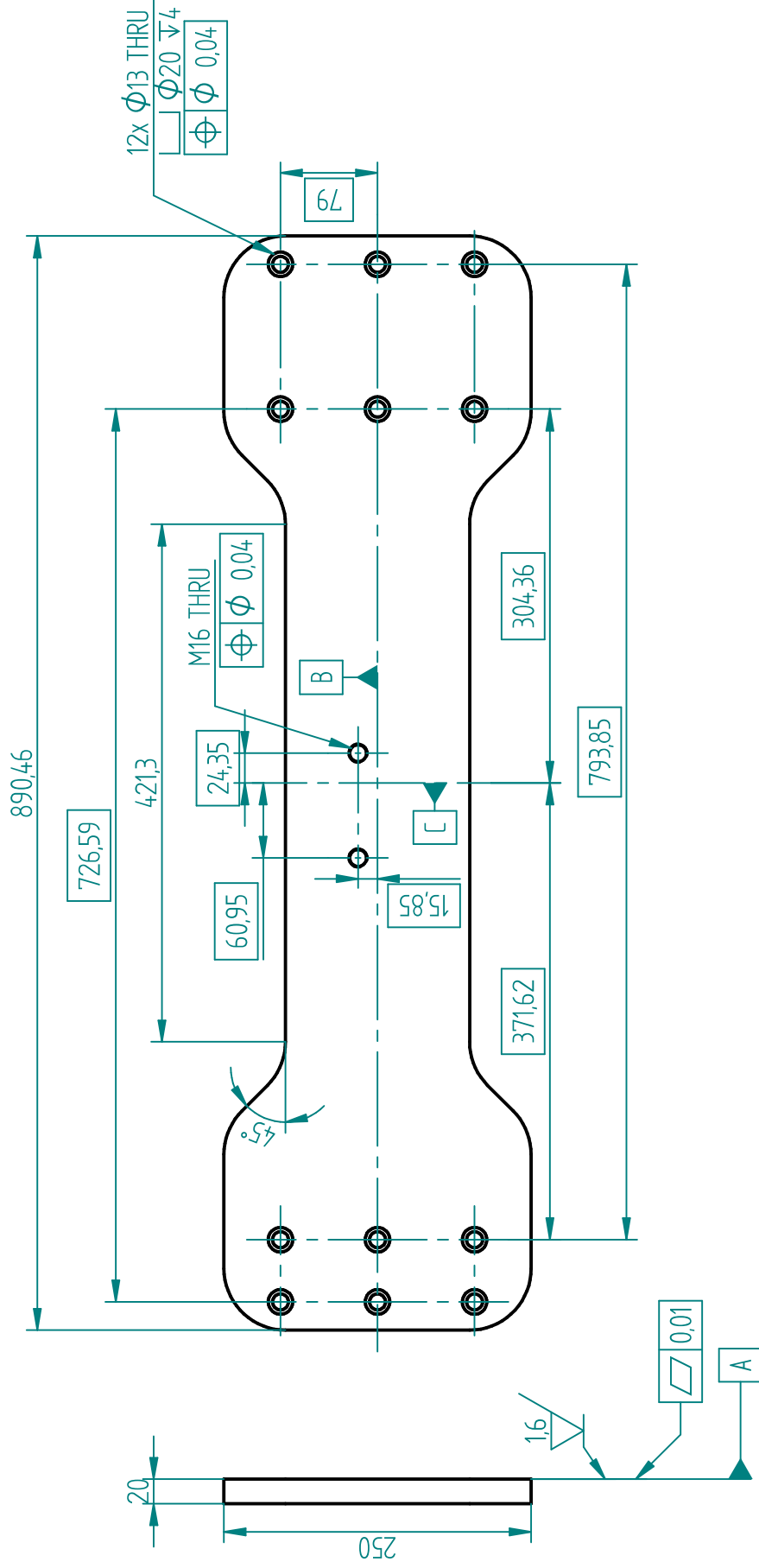
1	Pin	1	24
2	02153-10048 rest pad Norelem	1	
Item Number	Name	Quantity	DWG No.
Scale	Projection	Comments	
1:2			
KATHOLIEKE UNIVERSITEIT LEUVEN MECHANICAL ENGINEERING		File Name	DWG No.
Author: Thibault Mertens, Elia Menten		Z5/Z6 BH Fixture	11
		Locator pin Z6	
		Date: 21/04/2021	A4





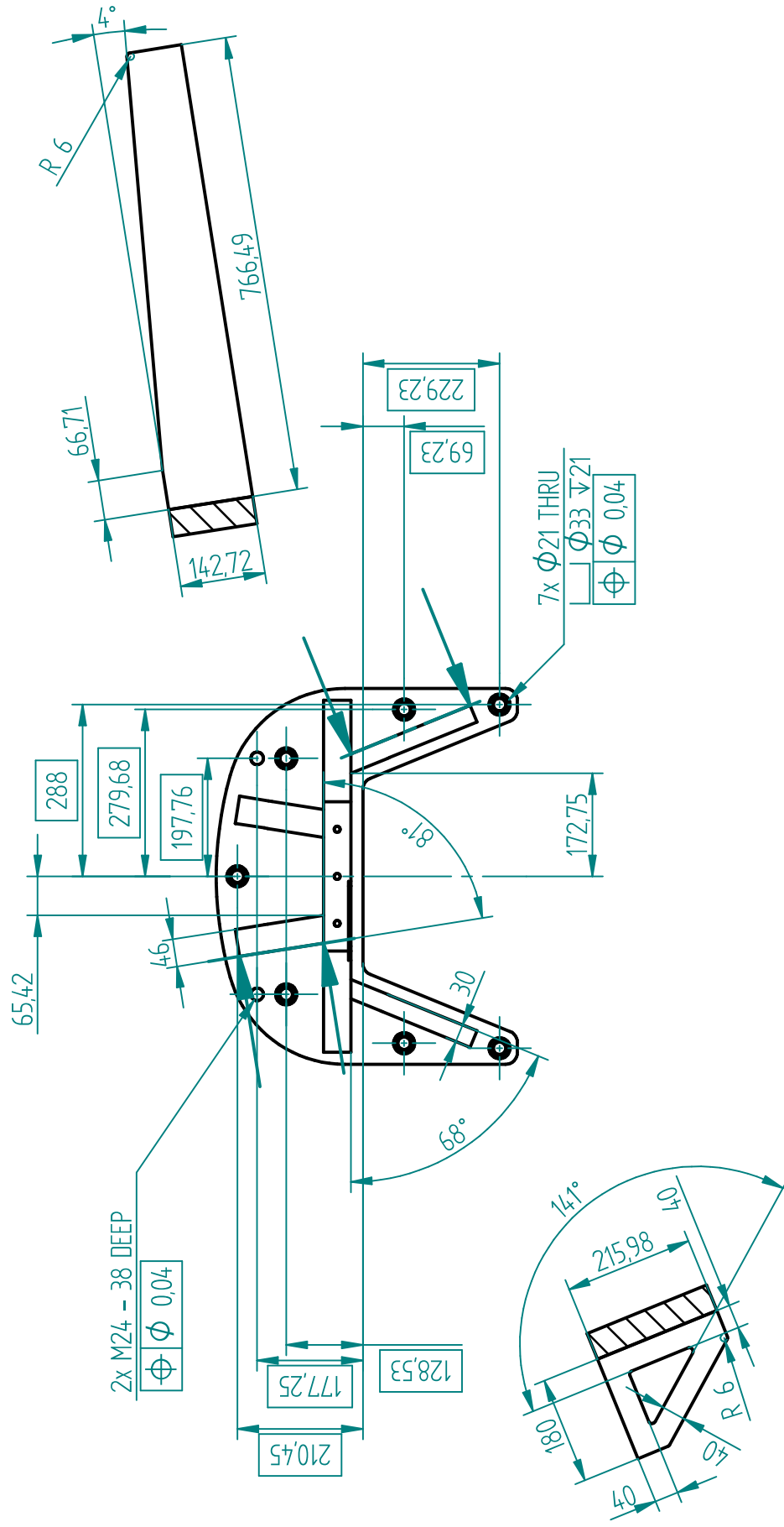
Default Surf. Roughness	Default Tolerance	Material	Drawing No.
3.2	+ 0.1 mm - 0.1 mm	S355J0	12
Scale	Projection	Treatment	File Name
1:10		Burs and sharp edges removed.	Z5/Z6 BH Fixture
Quantity			1
Base plate			
KATHOLIEKE UNIVERSITEIT LEUVEN			Date: 24/04/2021
MECHANICAL ENGINEERING			A4
Author: Thibault Mertens, Olivier Ndindayimbo, Elia Menten			







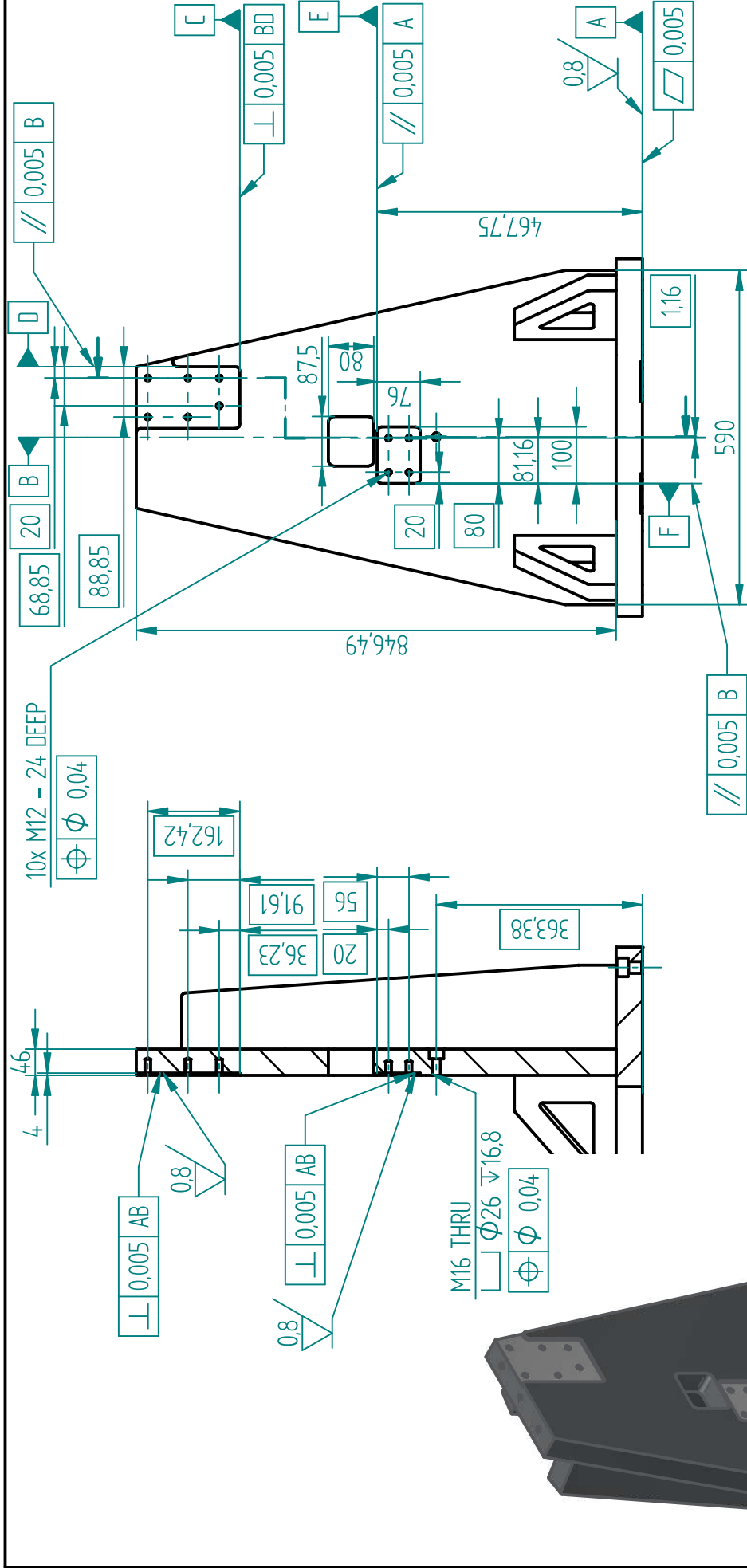
Default Surf. Roughness		Default Tolerance		Material		S355J0		Drawing No.	
32								13	
Scale		Projection		Treatment				File Name	
15				Burs and sharp edges removed.				Z5/Z6 BH Fixture	
								Quantity	
								1	
KATHOLIEKE UNIVERSITEIT						Bridge			
LEUVEN									
MECHANICAL ENGINEERING									
Author: Thibault Mertens, Olivier Ndayindayo						Date: 23/04/2021		A4	



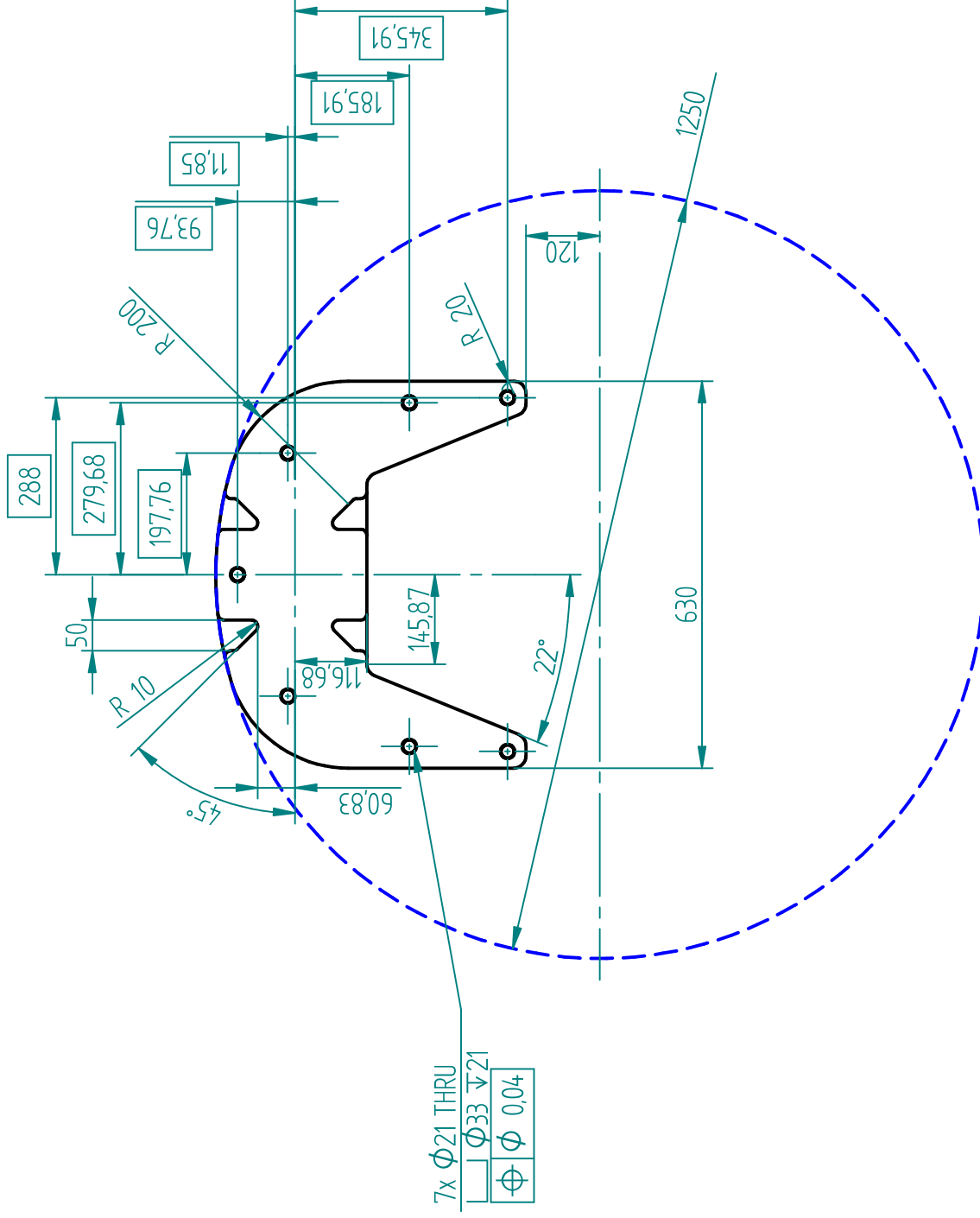


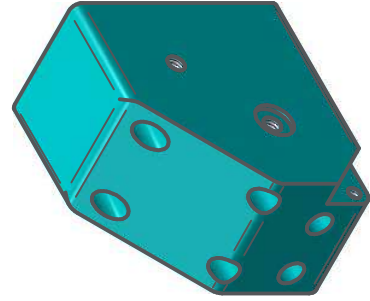
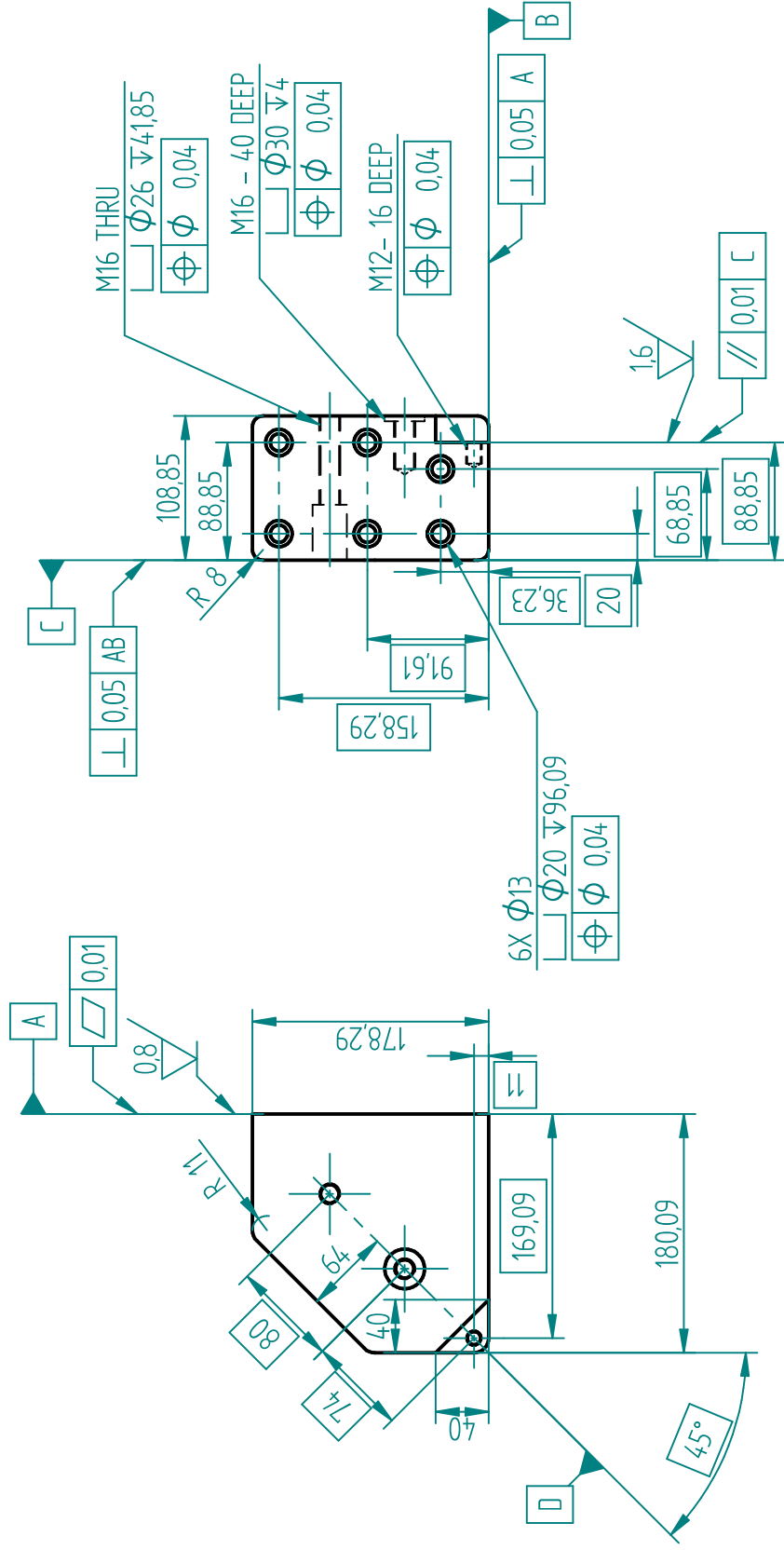
MECHANICAL ENGINEERING

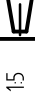
Date: 24/04/2021

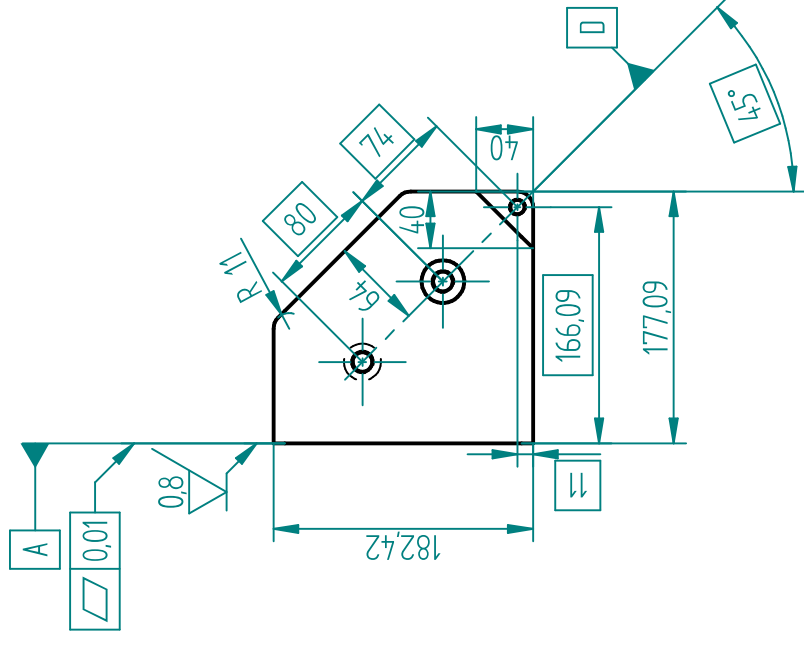
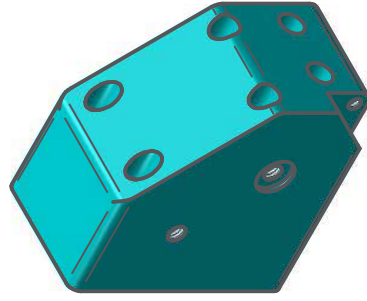
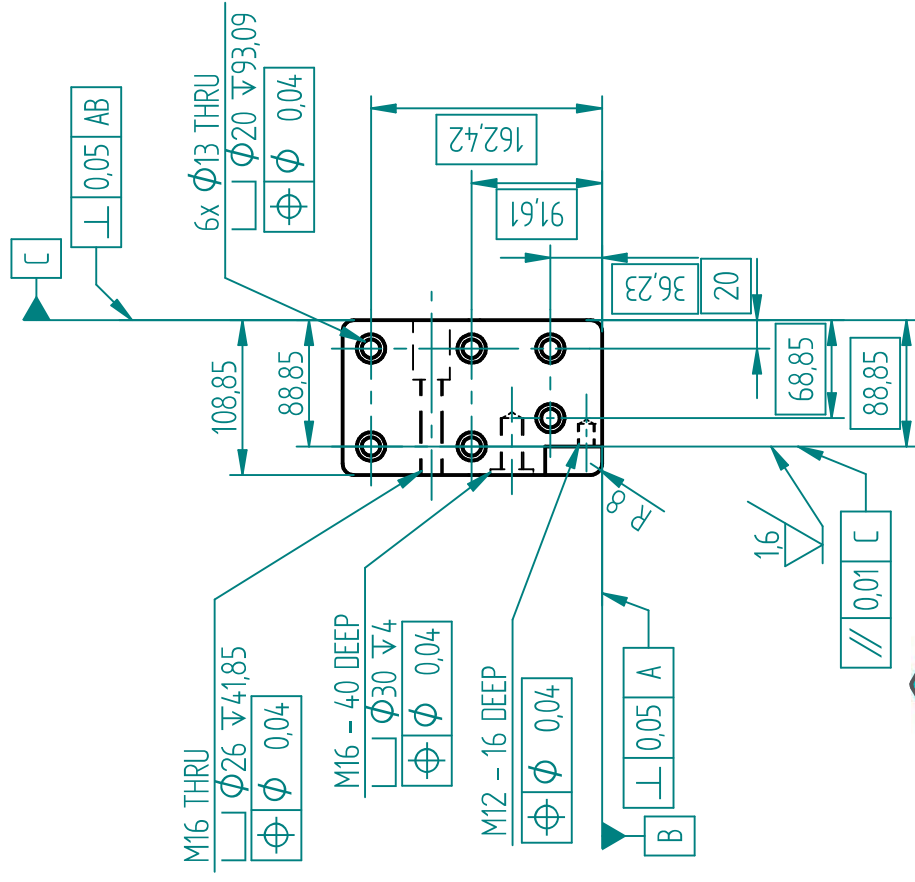




Default Surf. Roughness	Default Tolerance	Material	Drawing No.
32	+ 0.1 mm - 0.1 mm	S355J0	15
Scale	Projection	Treatment	File Name
1:10		Welded across all connections. 10 mm bead size. Machined surfaces to be machined when post is mounted to base plate.	Z5/Z6 BH Fixture
KATHOLIEKE UNIVERSITEIT LEUVEN MECHANICAL ENGINEERING			Quantity
Oil post weldment			1
Author: Olivier Ndayindayo, Thibault Mertens			Date: 24/04/2021
			A4






Default Surf. Roughness		Default Tolerance	Material	S355J0	Drawing No.	
32		+ 0,1 mm - 0,1 mm				
Scale		Projection	Treatment	Burs and sharp edges removed.	File Name	Quantity
15						
KATHOLIEKE UNIVERSITEIT			Block top left module			
LEUVEN						
MECHANICAL ENGINEERING						
Author: Elia Menten, Thibault Mertens				Date: 22/04/2021	A4	

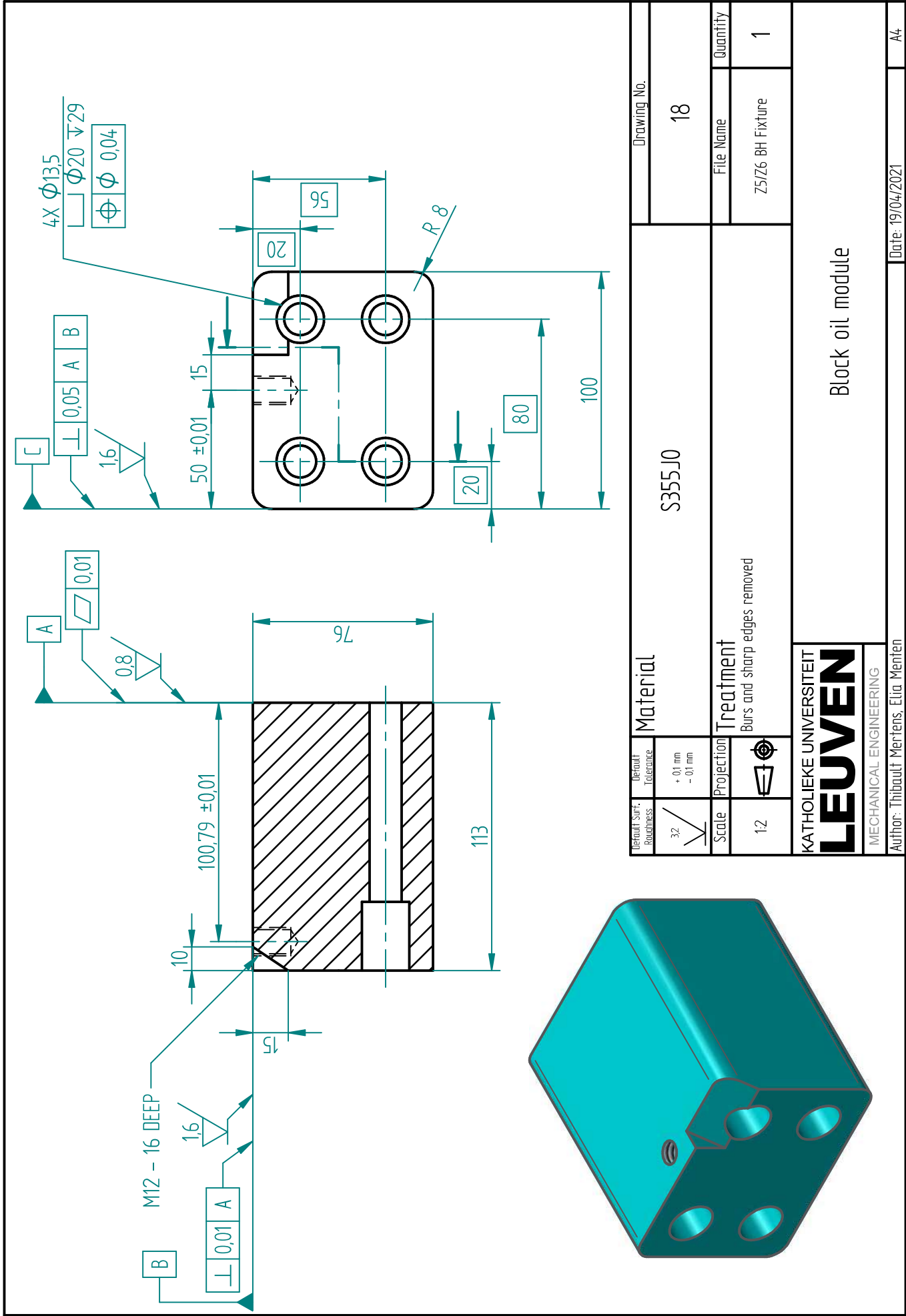


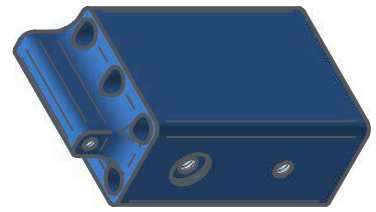
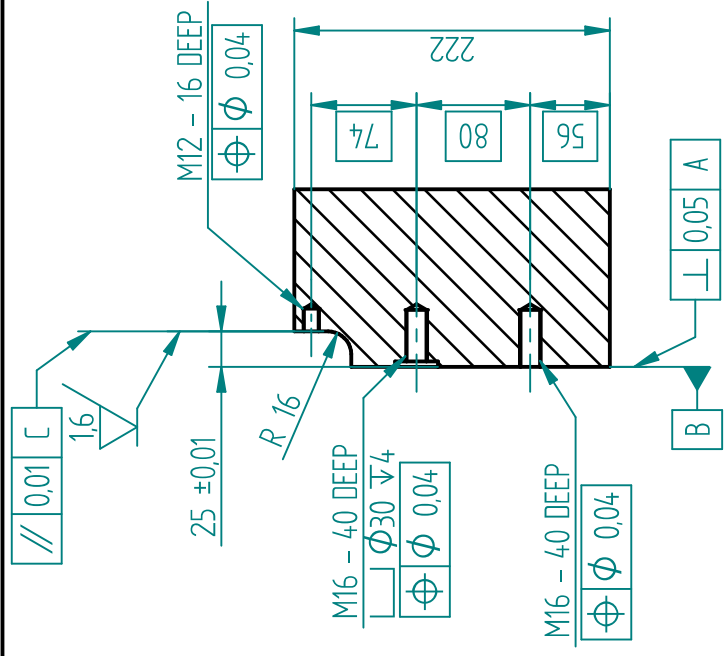
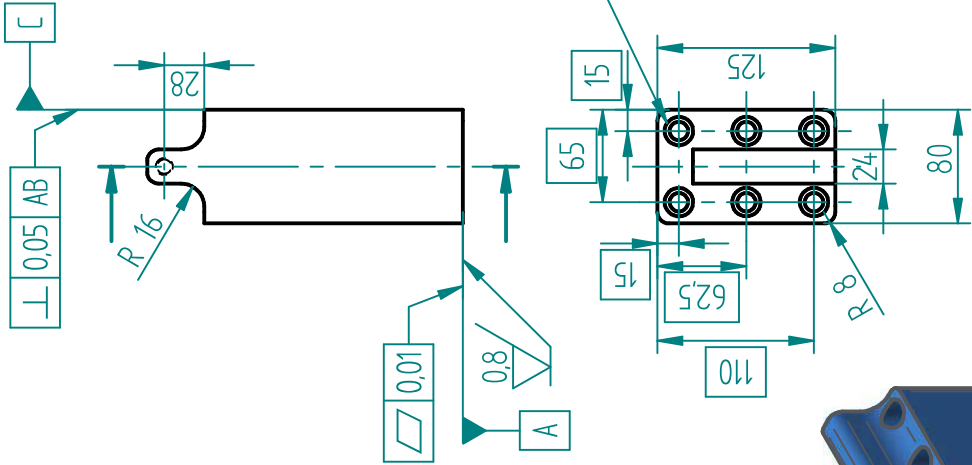
Material		S355J0	Drawing No.
Default Surface Roughness	3.2 /  + 0.1 mm - 0.1 mm	17	
Treatment		Burs and sharp edges removed.	
Scale	15		
Projection			
			Quantity
		Z5/Z6 BH Fixture	1

Block top right module

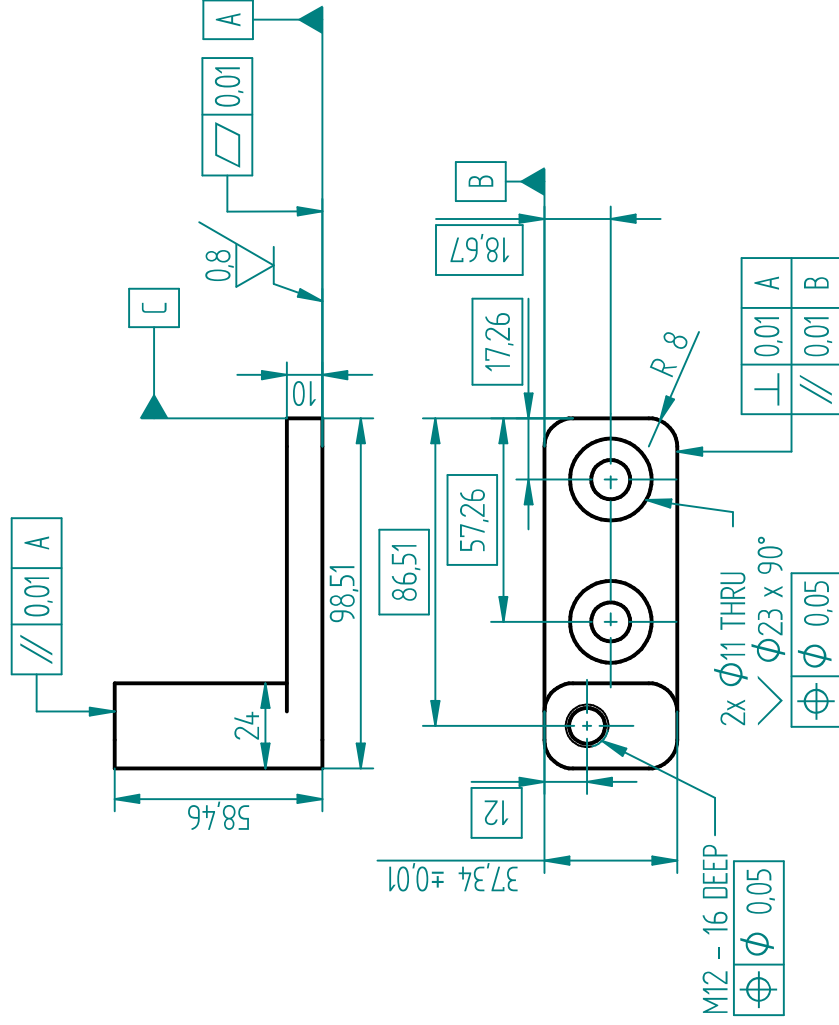
KATHOLIEKE UNIVERSITEIT


Author: Elia Menten, Thibault Mertens
 Date: 22/04/2021
 A4

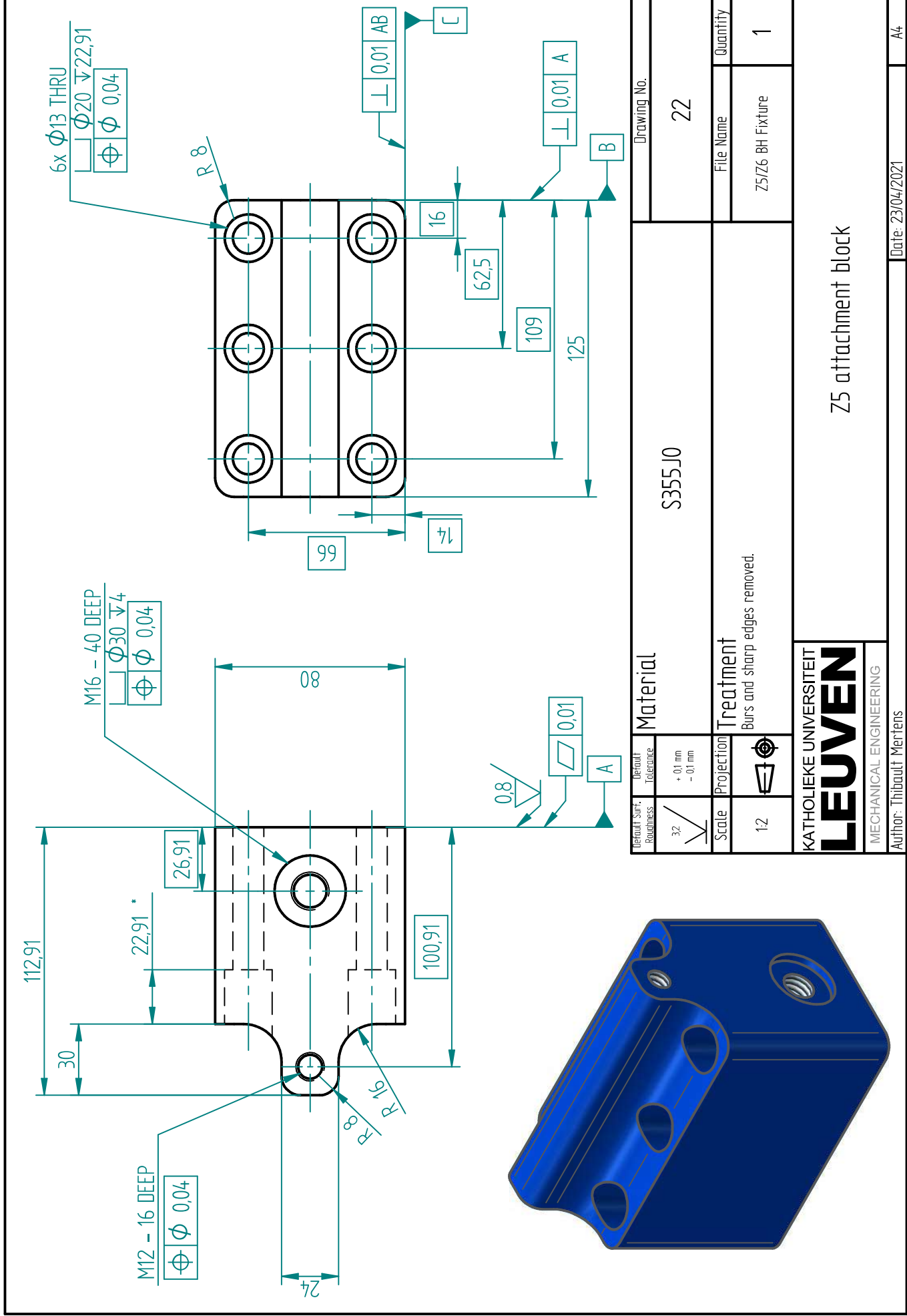




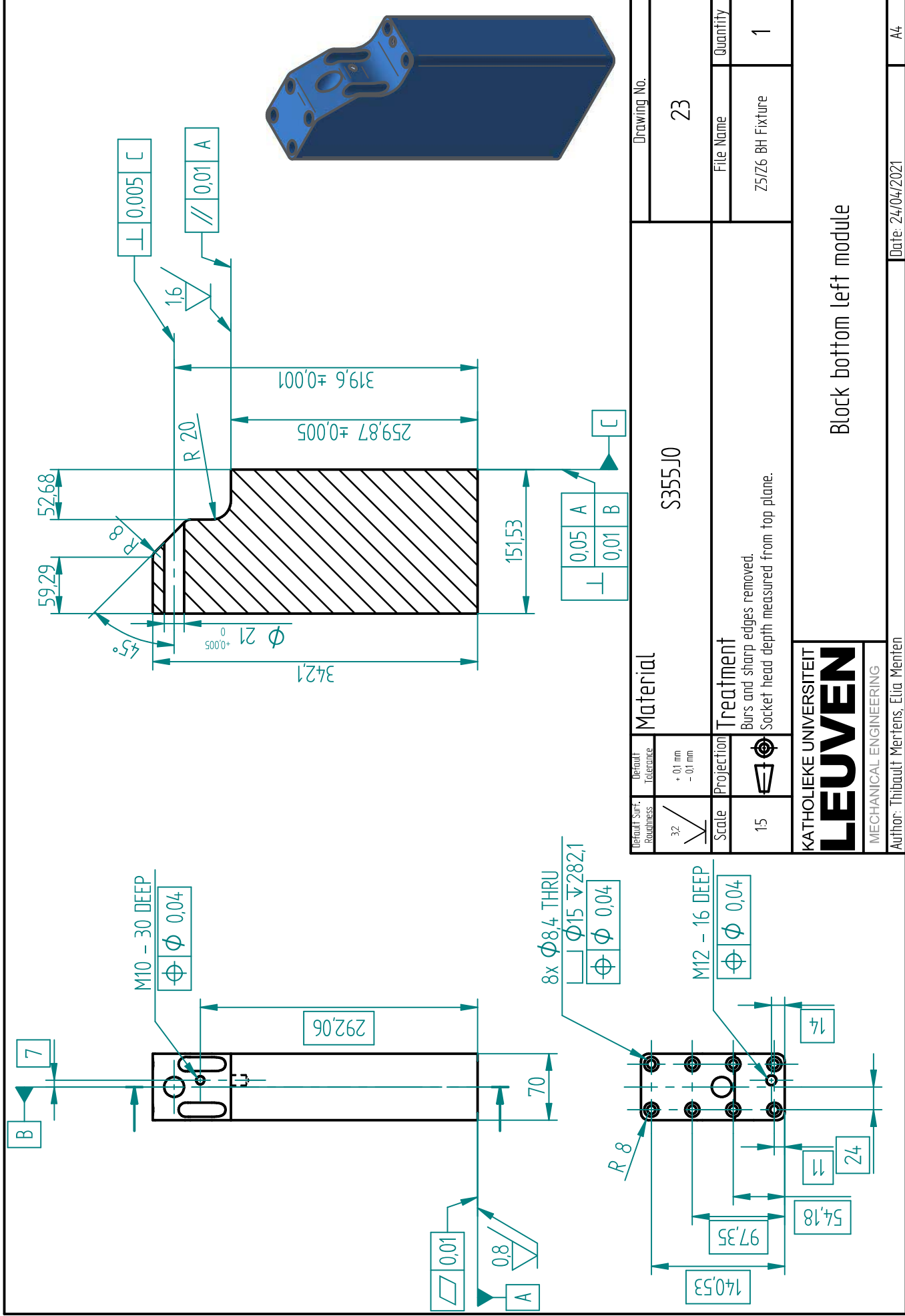
Default Surf. Roughness	Default Tolerance	Material	Drawing No.	
32	+ 01 mm - 01 mm	S355J0	19	
Scale	Projection	Treatment	File Name	Quantity
15		Burs and sharp edges removed. Top round rolled around corner.	Z5/Z6 BH Fixture	1
<div> <div>KATHOLIEKE UNIVERSITEIT</div> <div>LEUVEN</div> <div>MECHANICAL ENGINEERING</div> </div>				
Block bottom right module			Date: 23/04/2021	
Author: Thibault Mertens, Elia Menten			A4	

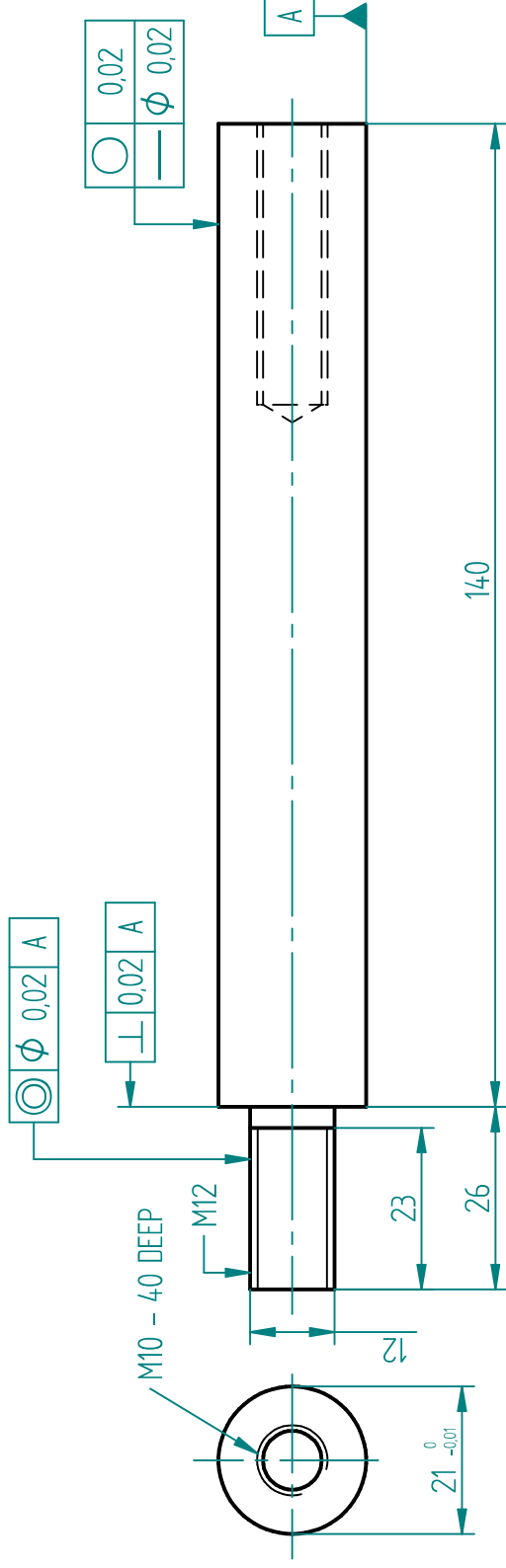


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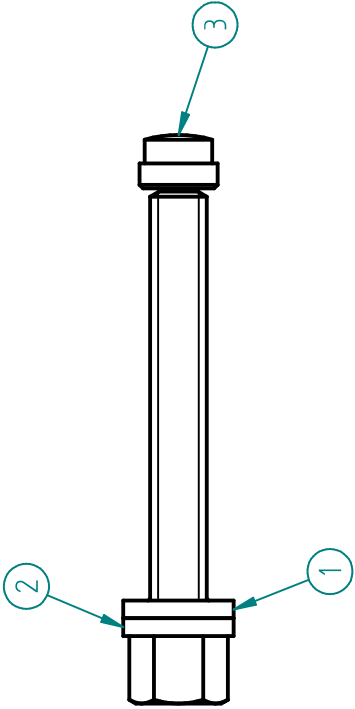


Z5 attachment block



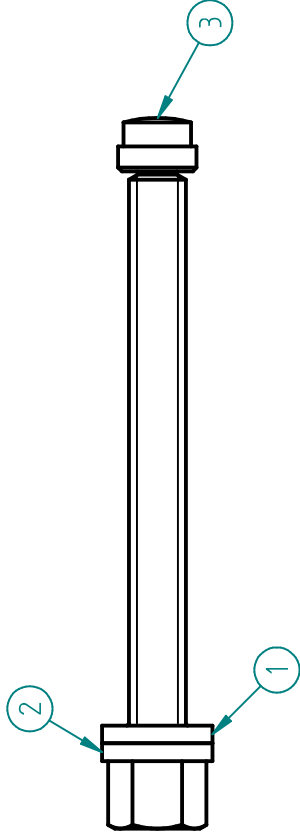


Default Surf. Roughness		Default Tolerance		Material		Drawing No.			
32 		+ 0.1 mm - 0.1 mm		S355J0		24			
Scale		Projection		Treatment		File Name		Quantity	
1:1						Z5/Z6 BH Fixture		1	
KATHOLIEKE UNIVERSITEIT LEUVEN MECHANICAL ENGINEERING				Pin					
Author: Thibault Mertens, Elia Menten						Date: 24/04/2021		A4	





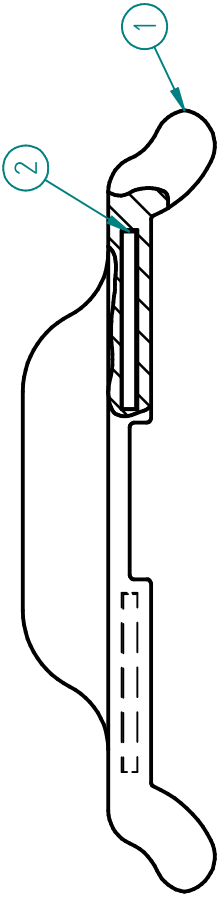
1	Claming screw	1
2	Screw cap	1
3	Pressing head	1
Item Number	Name	Quantity

Scale	Projection	Comments	
1:2			
DWG No.		File Name	25
		Z5/Z6 BH Fixture	
Top clamp Atlas Copco			
KATHOLIEKE UNIVERSITEIT LEUVEN			
MECHANICAL ENGINEERING			
Author: /		Date: 22/04/2021	A4




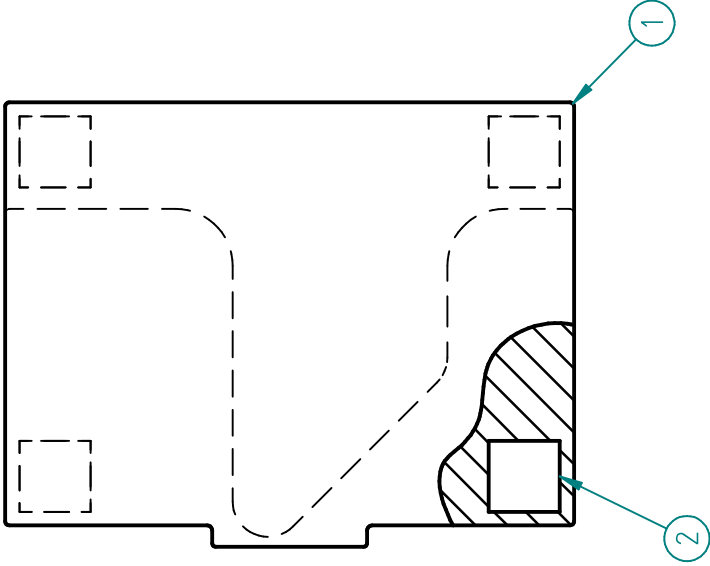
1	Clamping screw long	1
2	Screw cap	1
3	Pressing head	1
Item Number	Name	Quantity

Scale	Projection	Comments	
1:2			
KATHOLIEKE UNIVERSITEIT		DWG No.	
LEUVEN		Z5/Z6 BH Fixture	
MECHANICAL ENGINEERING		26	
Author: /		Date: 22/04/2021	
Side clamp		A4	



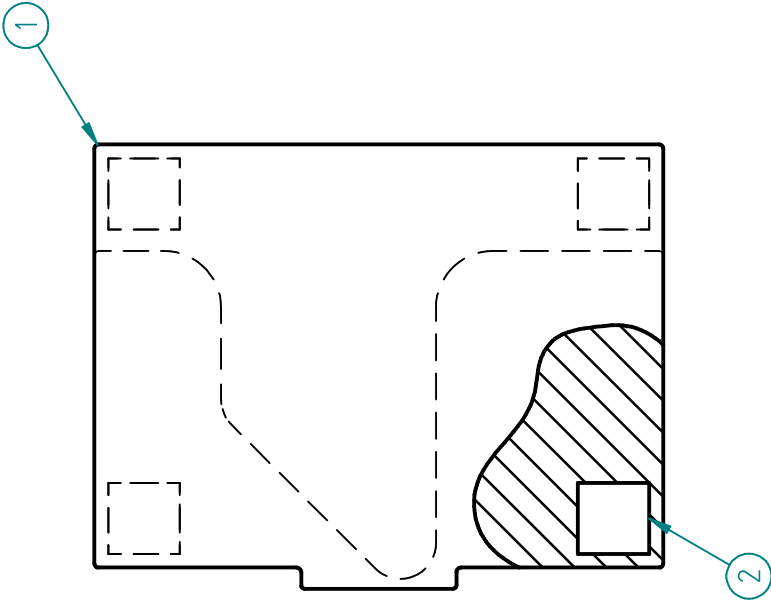
1	Cover	1
2	Magnet 25 x 2 x 6	4
Item Number	Name	Quantity

Scale	Projection	Comments Magnets are embedded in the 3D print.	File Name	DWG No.
1:1			Z5/Z6 BH Fixture	27
KATHOLIEKE UNIVERSITEIT LEUVEN MECHANICAL ENGINEERING		Cover post		
Author: Elia Menten, Thibault Mertens			Date: 22/04/2021	A4



1	Left cover	1
2	Magnet 10 x 10 x 10	4
Item Number	Name	Quantity

Scale	Projection	Comments	File Name	DWG No.
1:1		Magnets are embedded in the 3D print.	Z5/Z6 BH Fixture	28
KATHOLIEKE UNIVERSITEIT LEUVEN MECHANICAL ENGINEERING				
left base plate cover				
Author: Elia Menten, Thibault Mertens				Date: 22/04/2021
				A4



1	Right cover	1
2	Magnet 10 x 10 x 10	4
Item Number	Name	Quantity

Scale	Projection	Comments	File Name	DWG No.
1:1		Magnets are embedded in the 3D print.	Z5/Z6 BH Fixture	29
KATHOLIEKE UNIVERSITEIT LEUVEN MECHANICAL ENGINEERING				
Right base plate cover				
Author: Elia Menten, Thibault Mertens			Date: 22/04/2021	A4