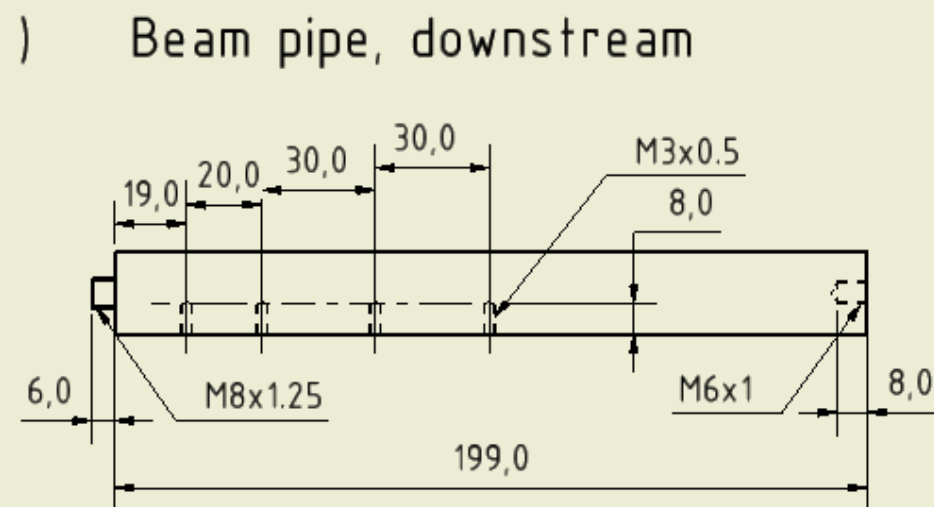
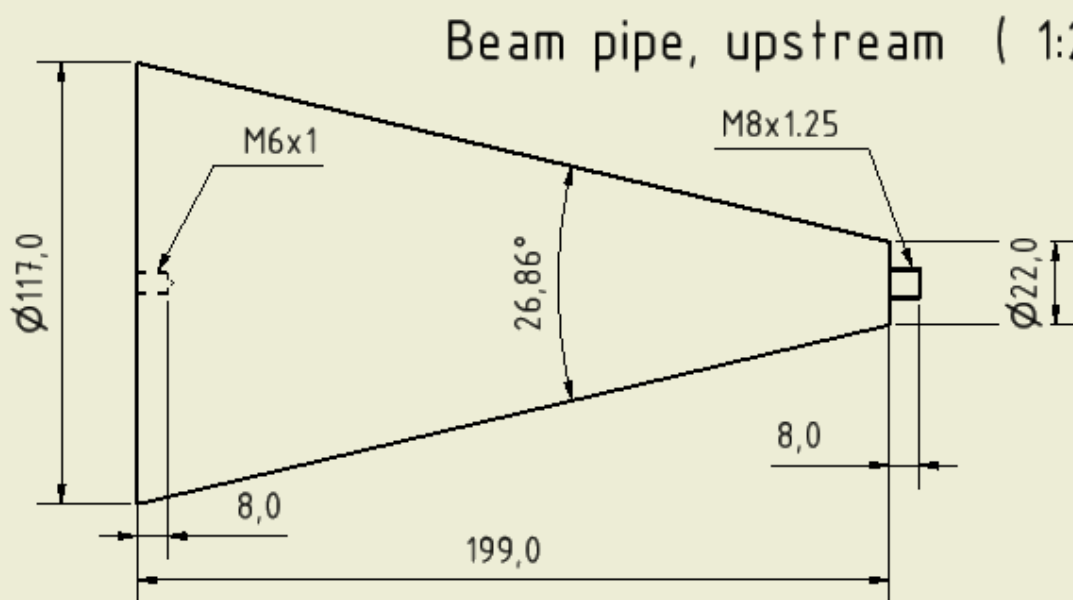


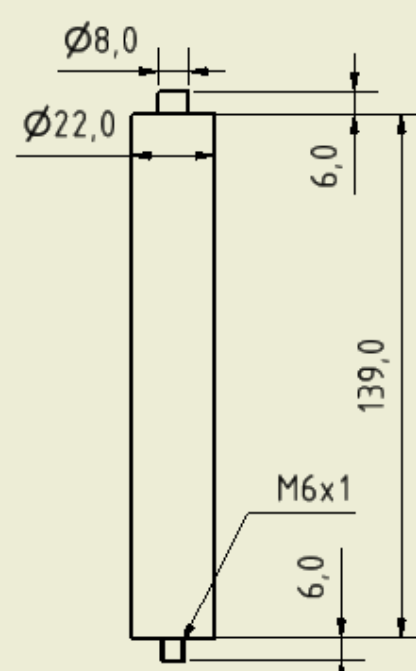
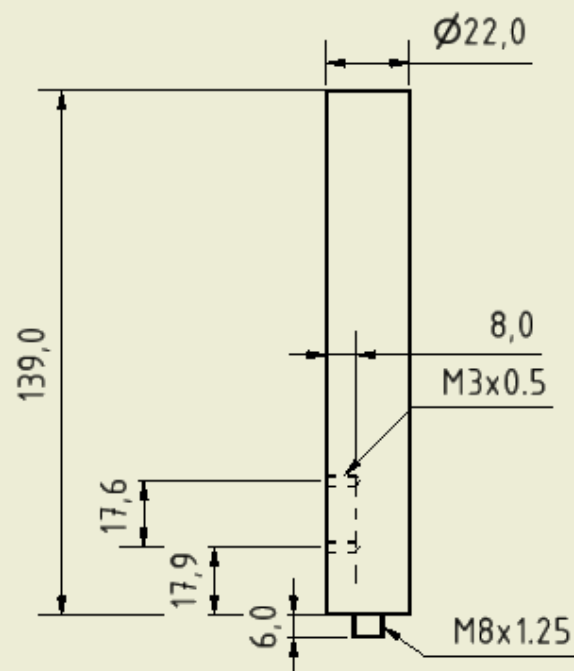
Thomas Würschig

DD-MVD model 1.3

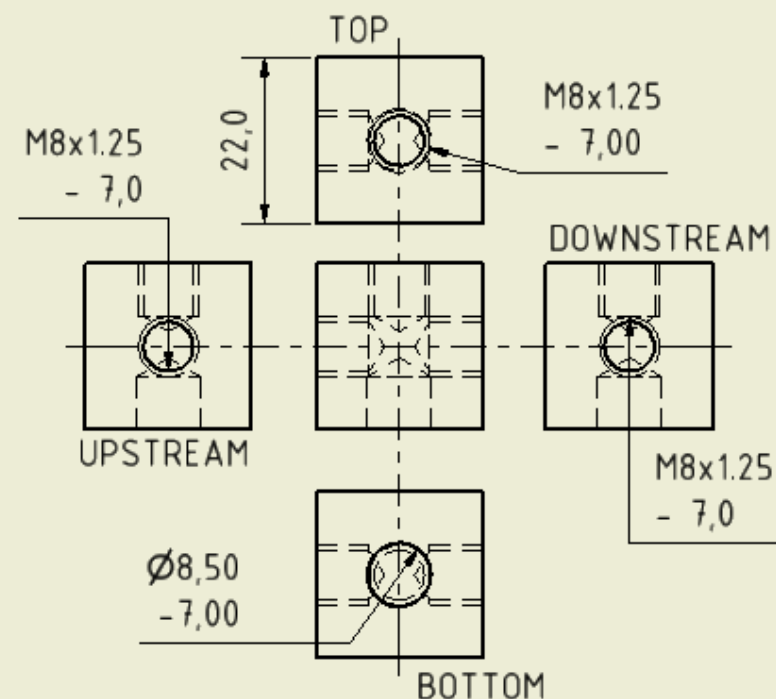
Documentation – Mechanical drawings



Target pipe, top (1:2) Target pipe, bottom

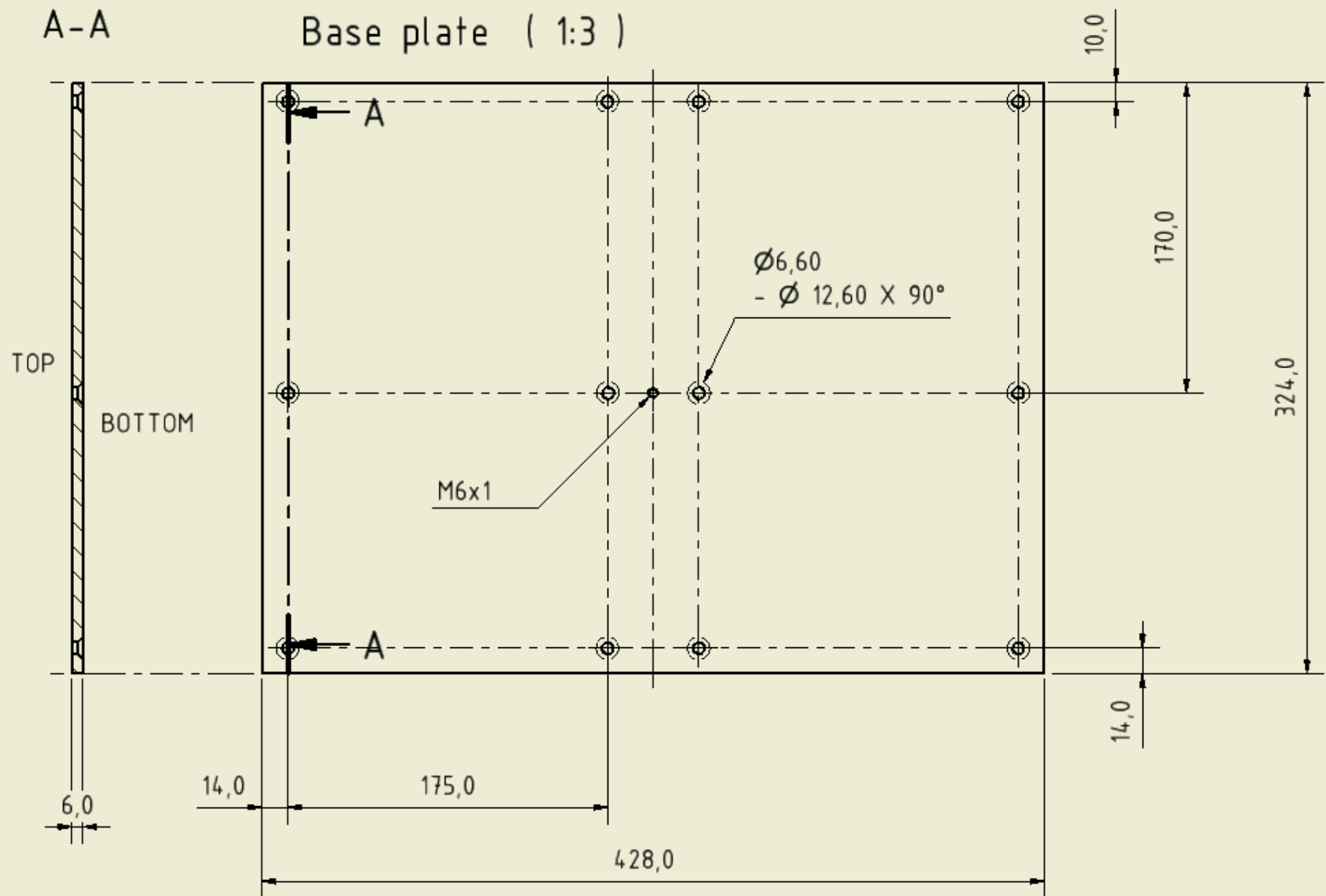


Vertex cube (1:1)

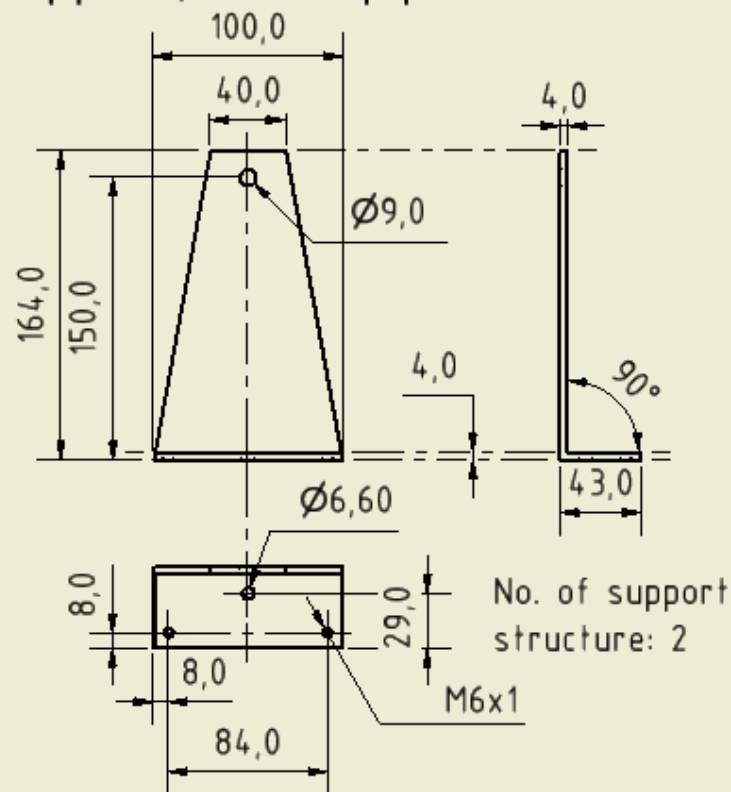


A-A

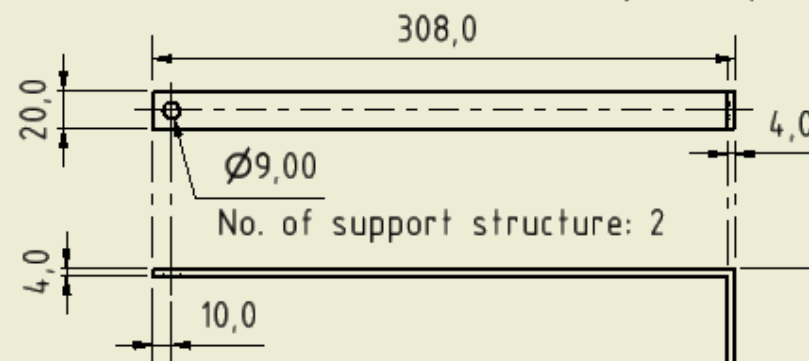
Base plate (1:3)



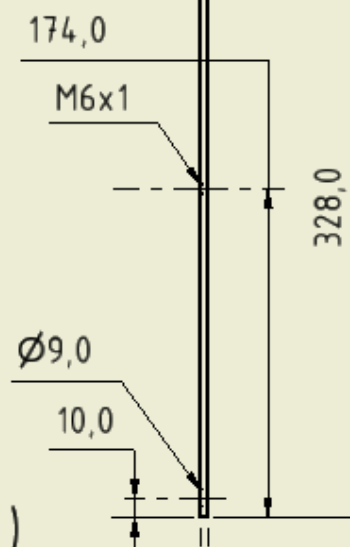
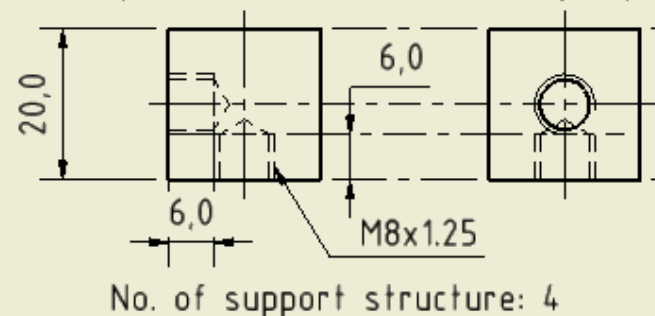
Support, Beam pipe (1:4)



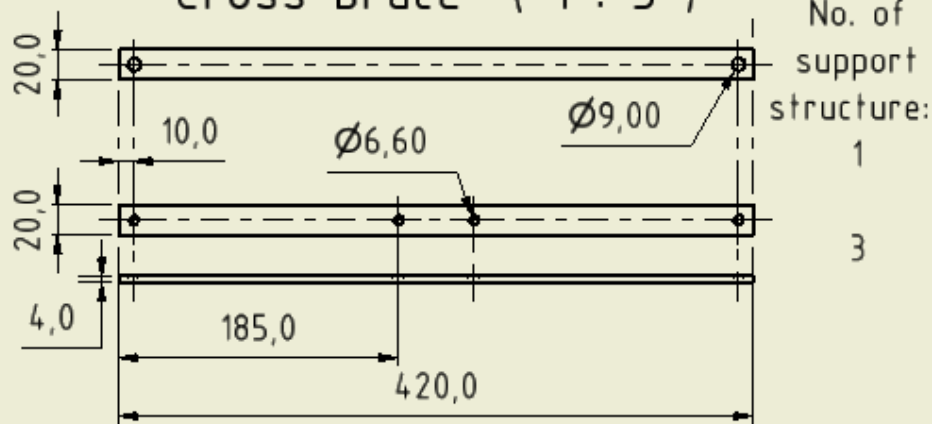
Flexible cross-tie (1:4)



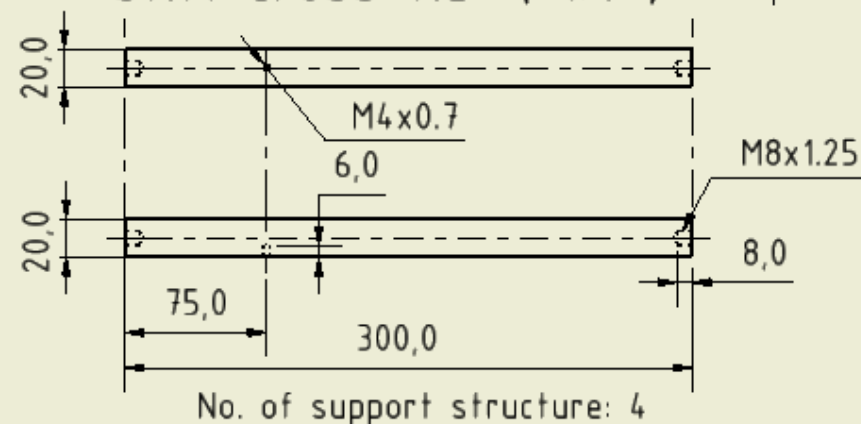
Cube (flexible cross-tie) (1:1)

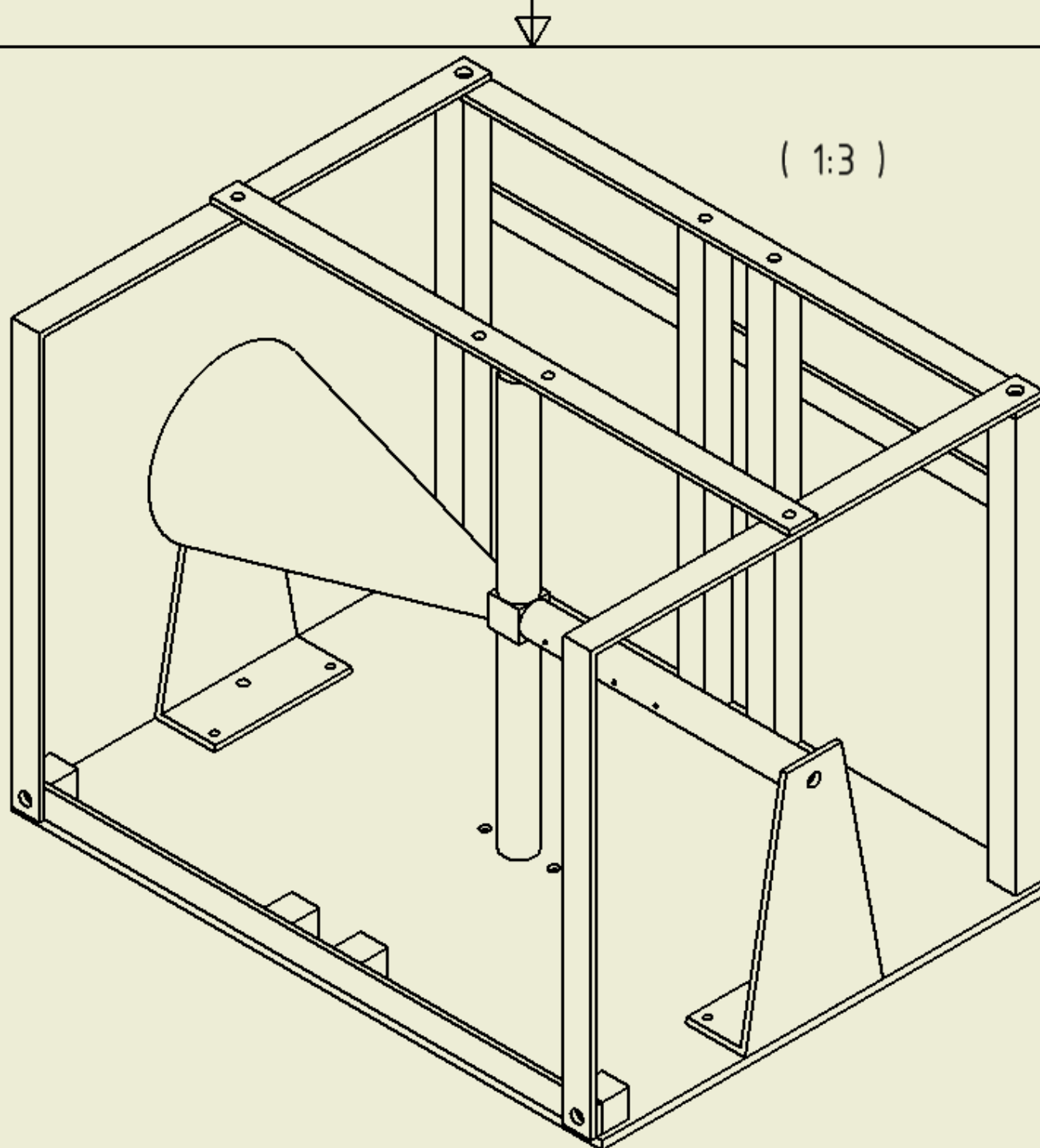


Cross brace (1 : 5)



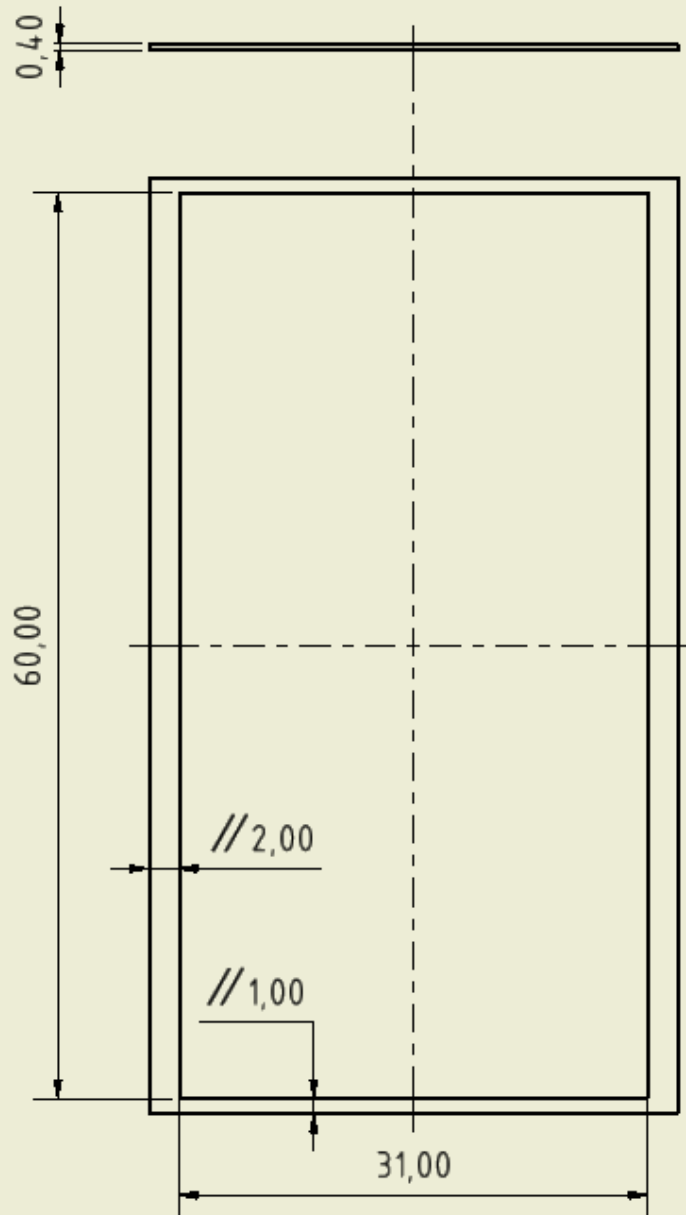
Stiff cross-tie (1:4)





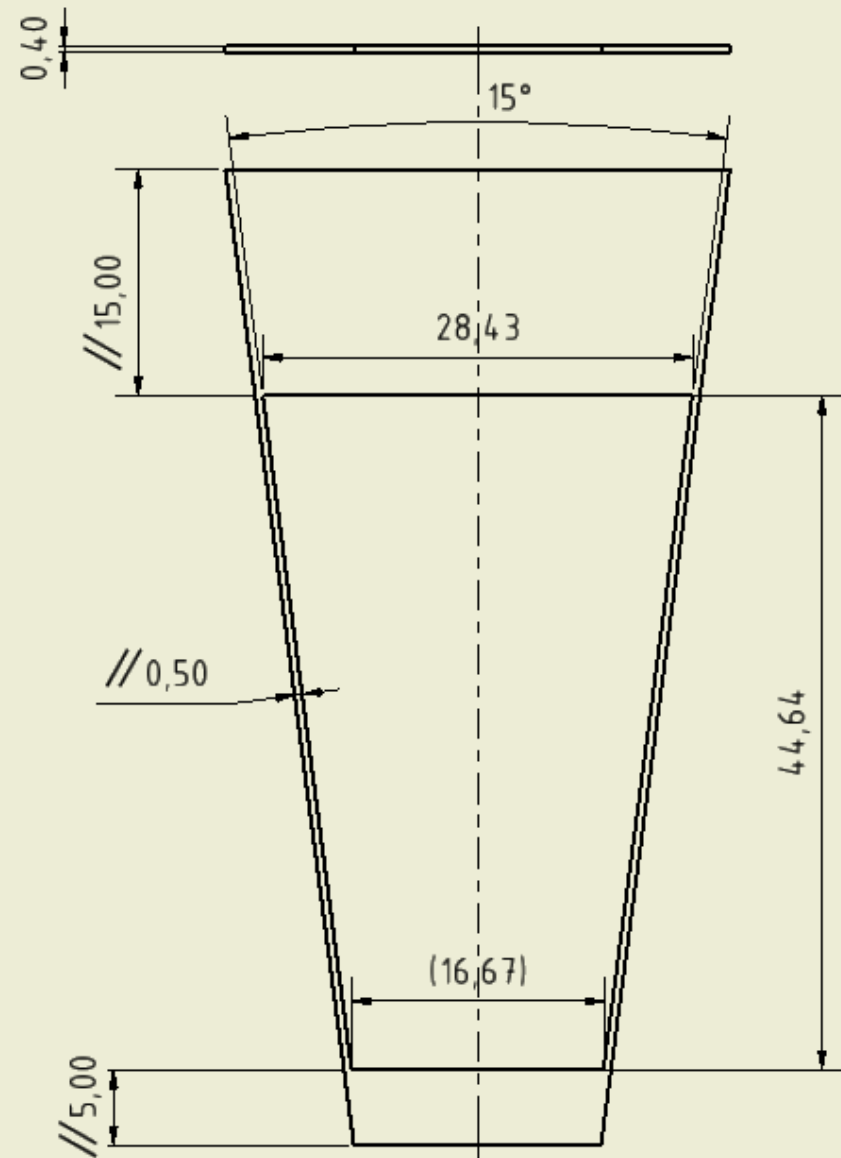
BL-SENS-STRIPRECT (2:1)

No. of used sensors: 224



DK-SENS (2:1)

No. of used sensors: 48



(1:2)

BL-3-UP-LSUP-ZL

No. of used stave type: 12

BL-3-UP-LSUP-TP

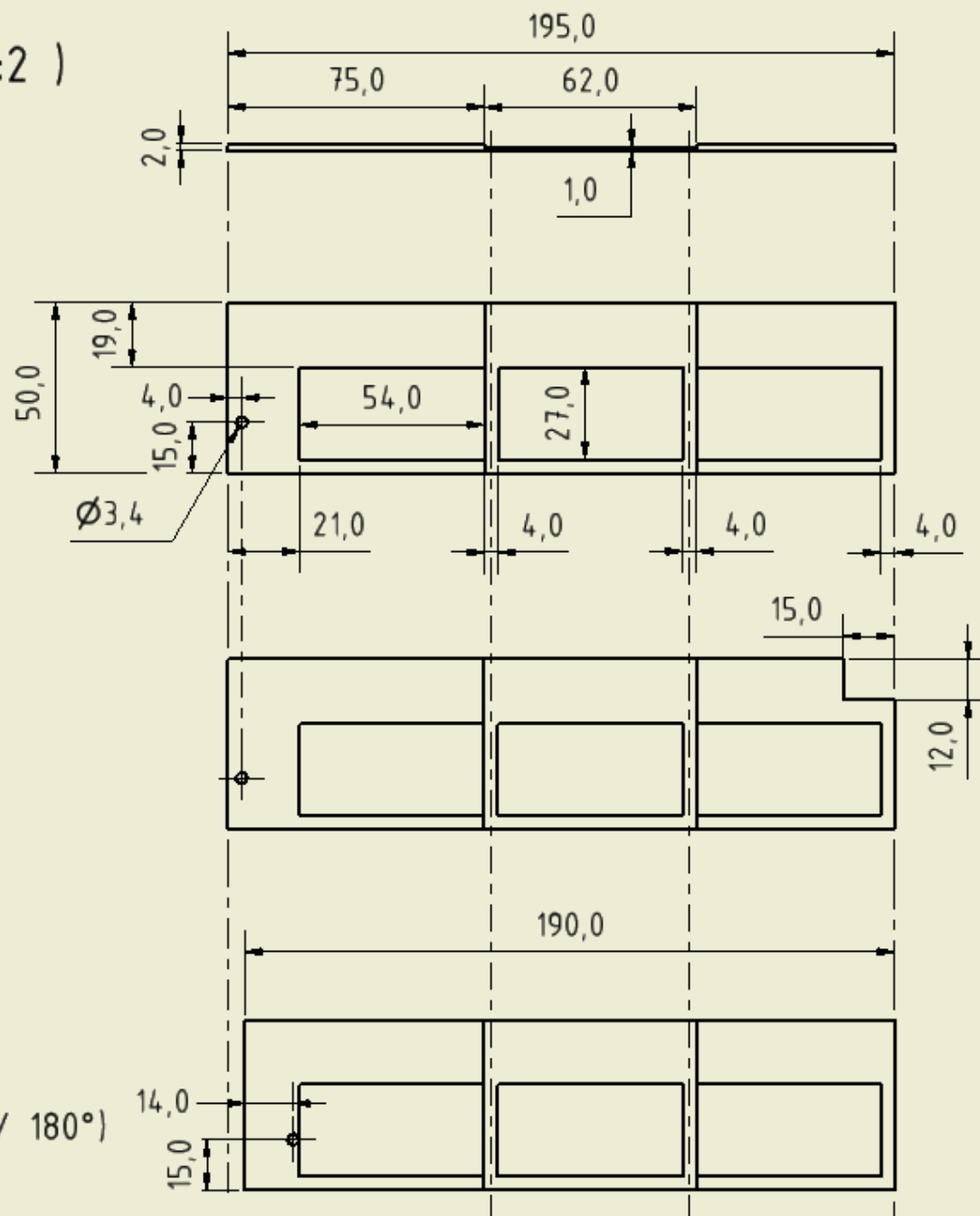
No. of used stave type: 2

Cut for cross through of target pipe

BL-3-UP-LSUP-ZS

No. of used stave type: 2

Shortening for shifted staves ($\varphi = 0^\circ / 180^\circ$)



BL-4-LSUP-ZL

No. of used stave type: 40

BL-4-LSUP-TP

No. of used stave type: 4

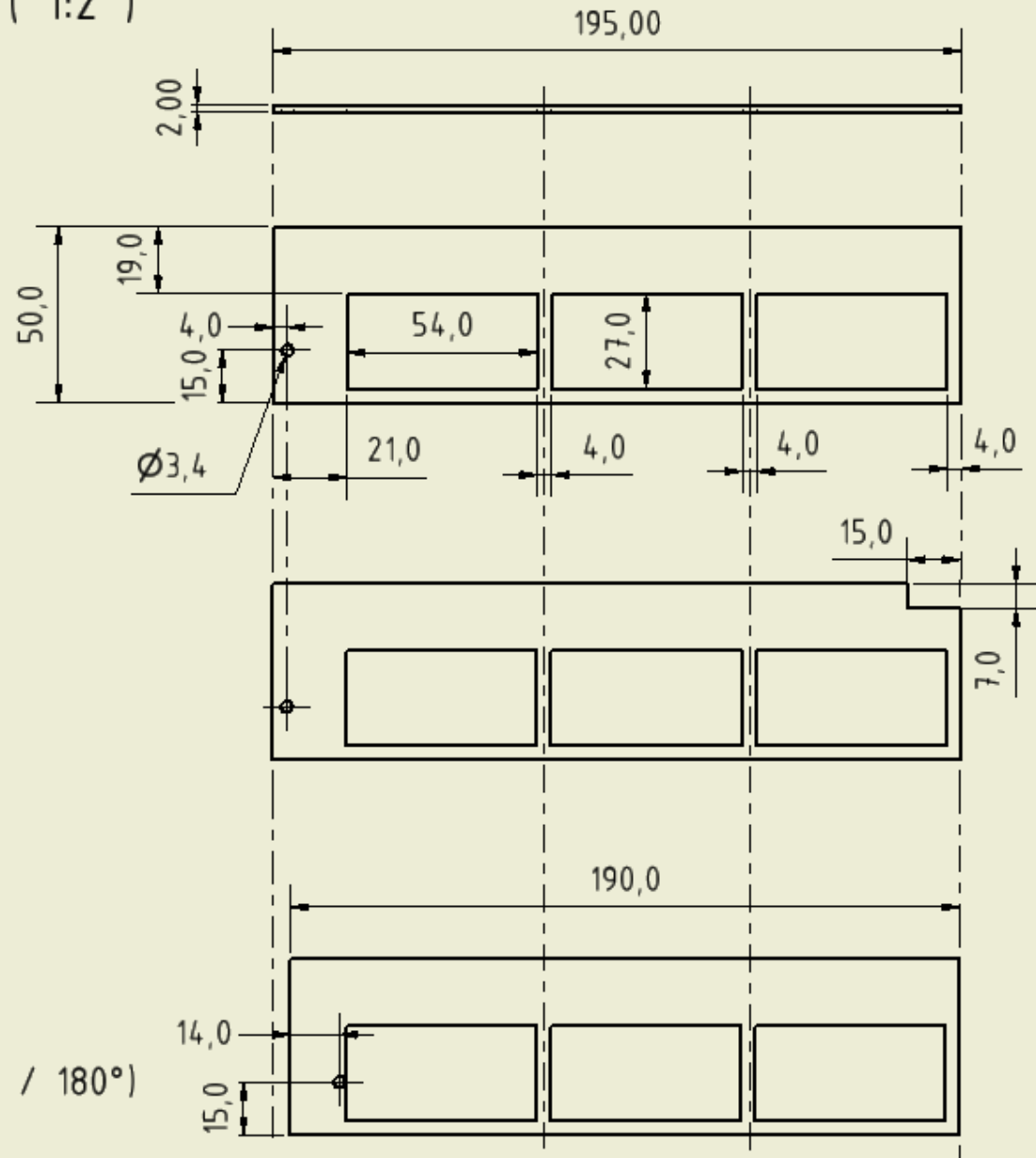
Cut for cross through of target
pipe

BL-4-LSUP-ZS

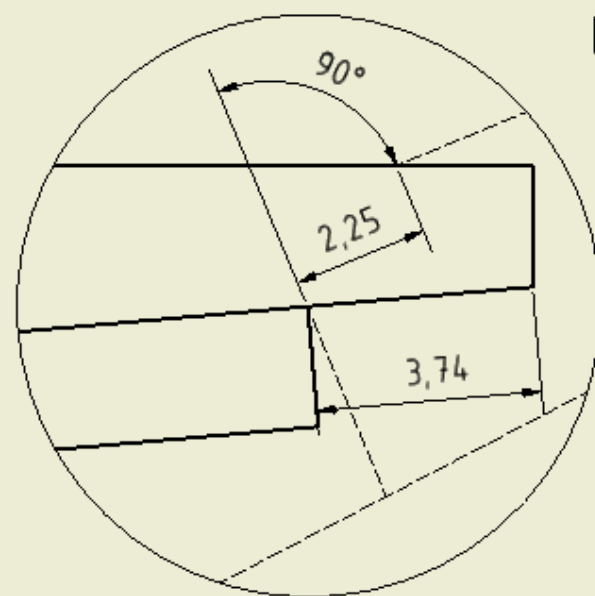
No. of used stave type: 4

Shortening for shifted staves ($\varphi = 0^\circ / 180^\circ$)

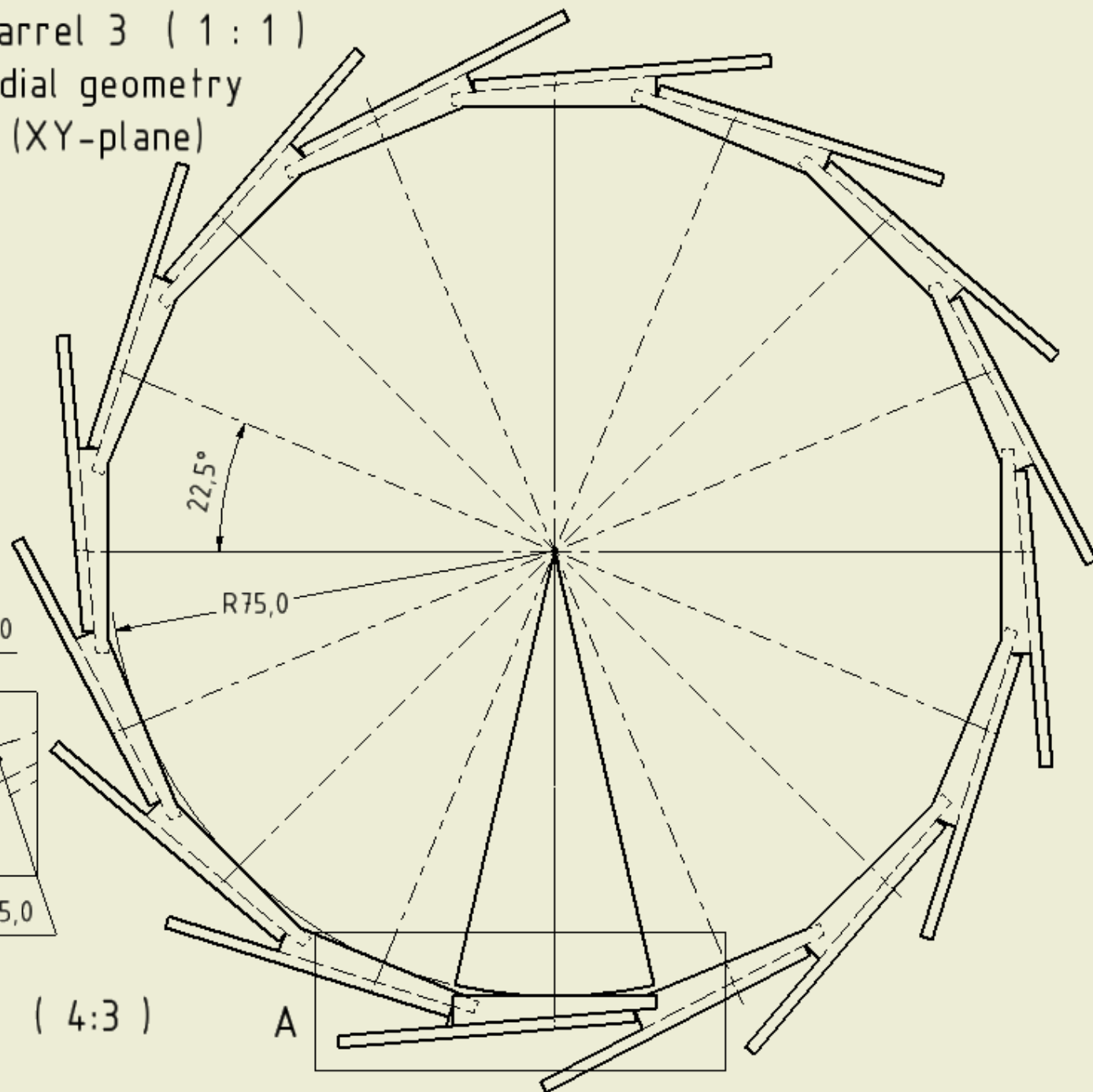
(1:2)



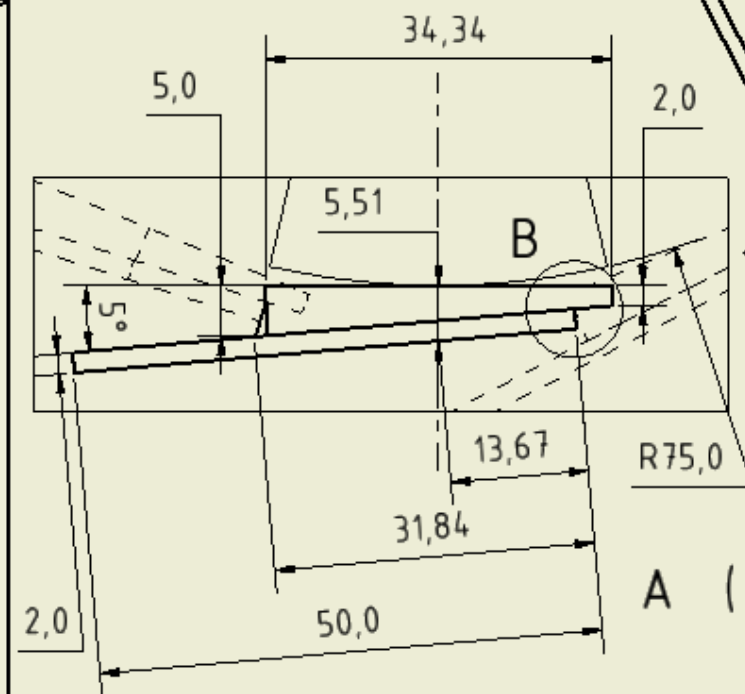
B (8:1)

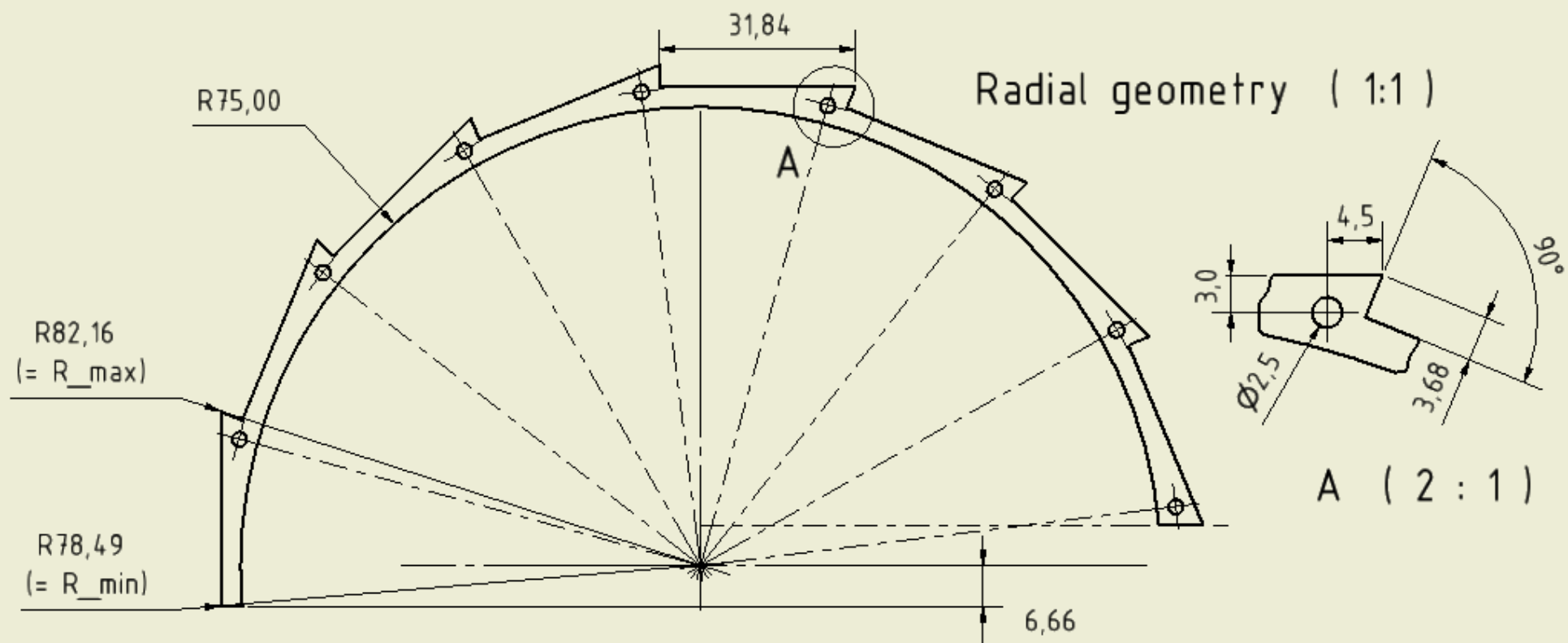


Barrel 3 (1 : 1)
Radial geometry
(XY-plane)



A (4:3)



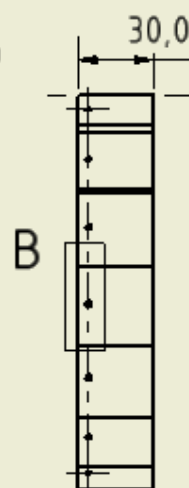
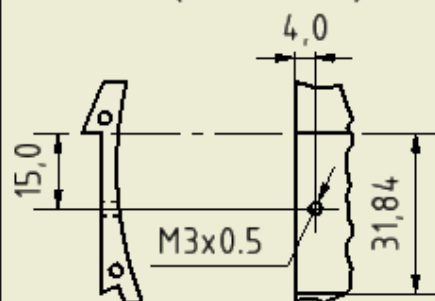


GSUP-BL-HR-3-CAP-UP

Position: upstream endcap

No. of support rings: 2

B (2 : 3)



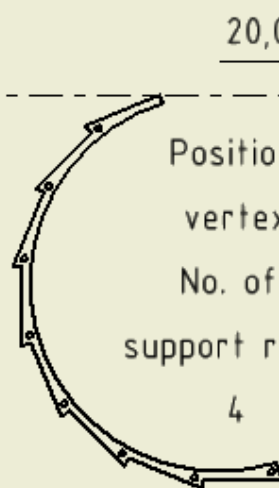
GSUP-BL-HR-3-VTX

Position:
vertex

No. of
support rings:

4

(1:3)

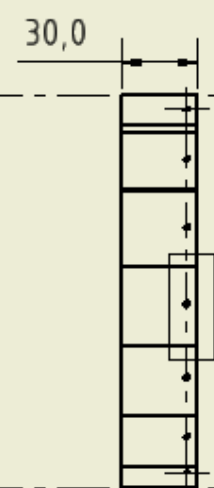
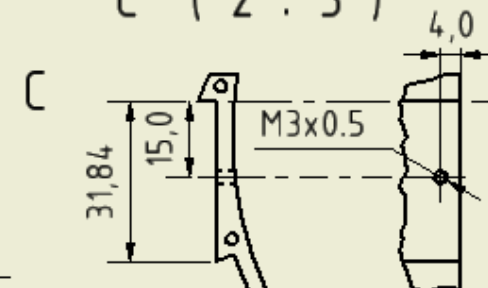


GSUP-BL-HR-3-CAP-DN

Position: downstream endcap

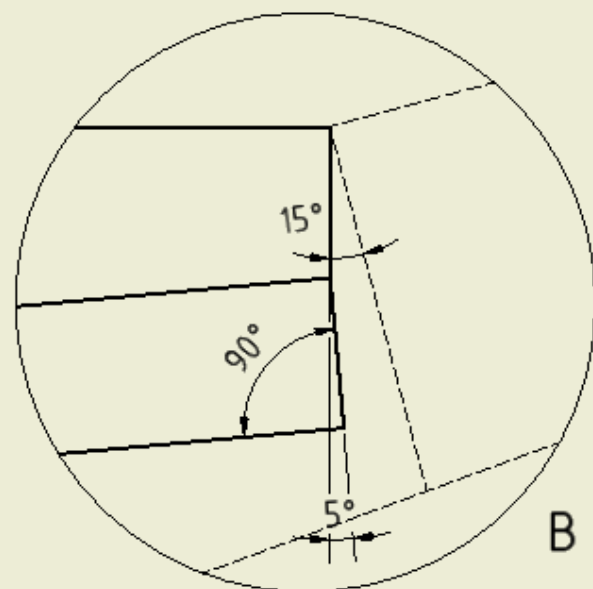
No. of support rings: 2

C (2 : 3)

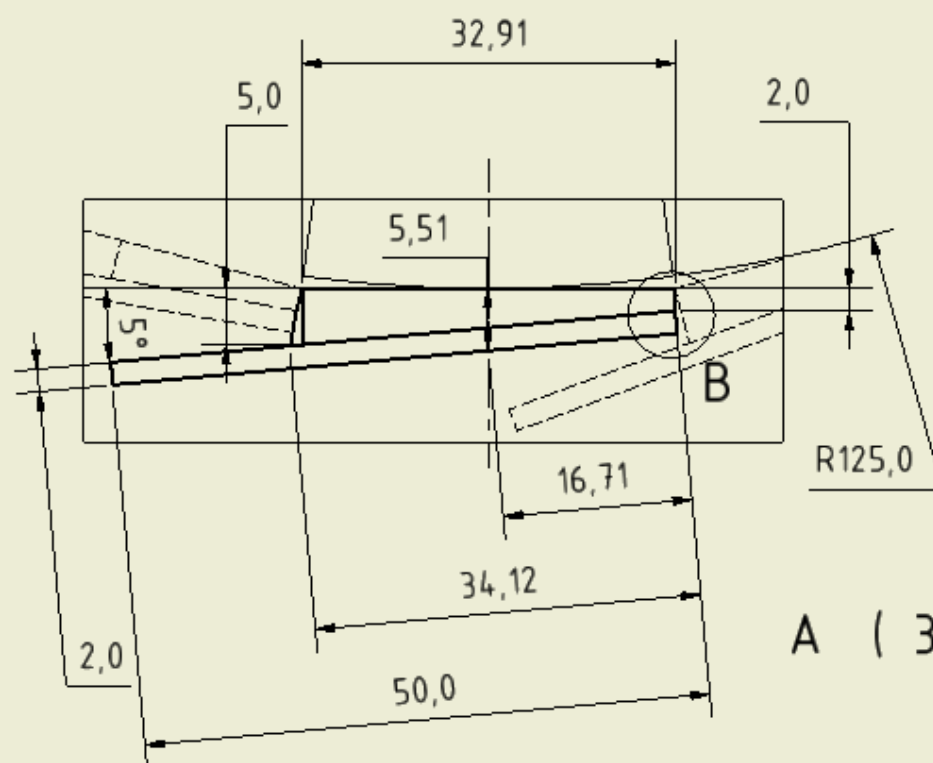


Barrel 4 (1:2)

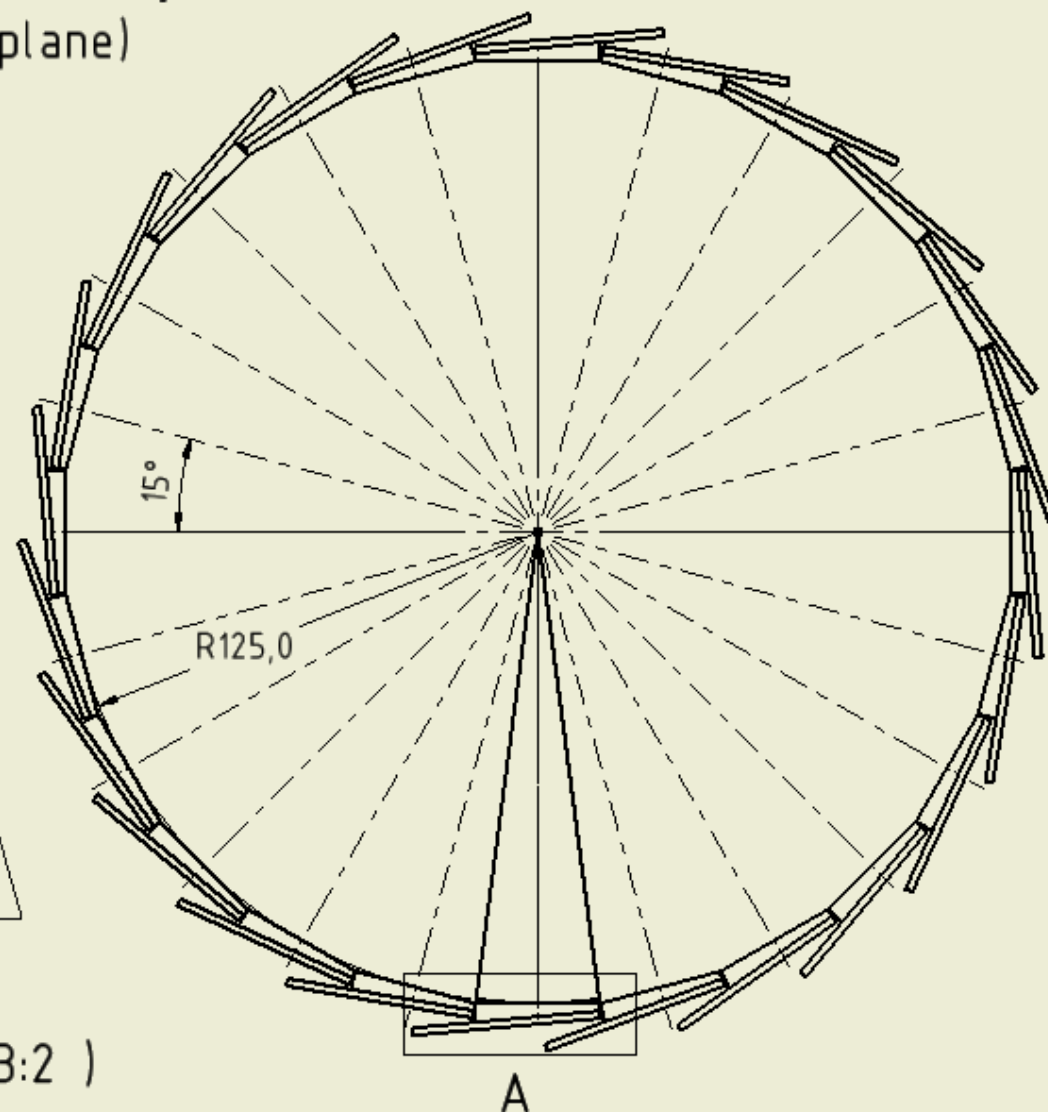
Radial geometry
(XY-plane)

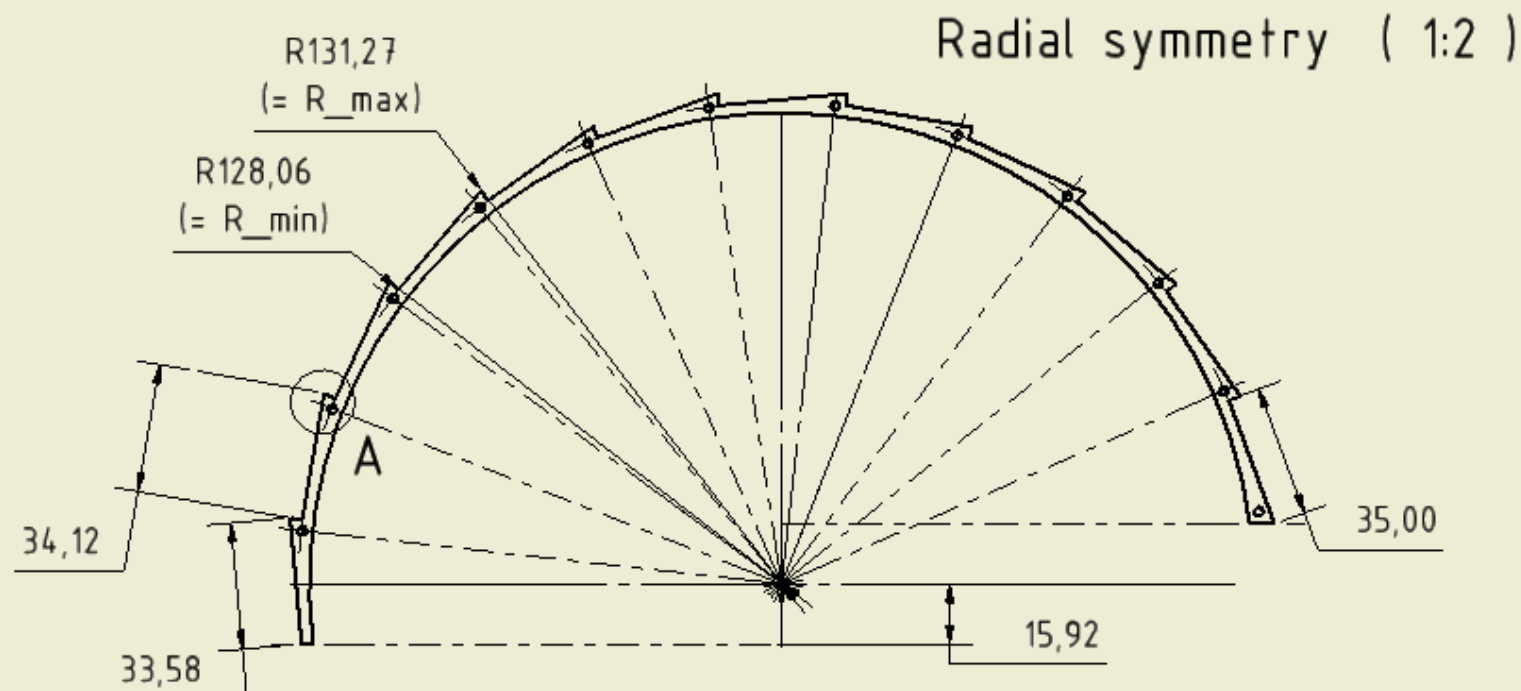
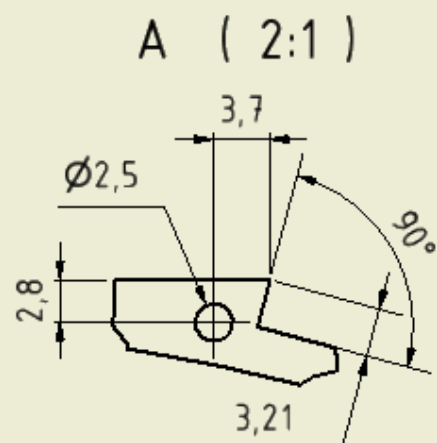


B (10:1)



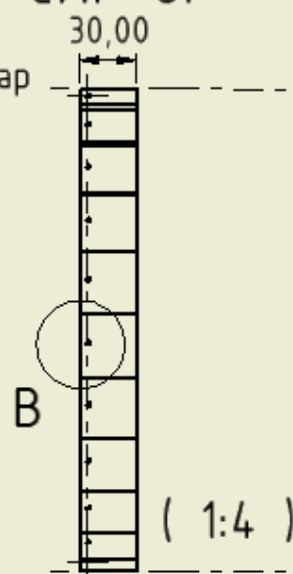
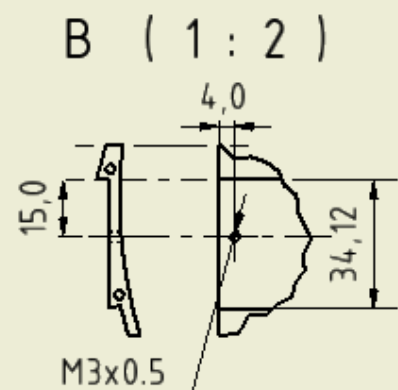
A (3:2)





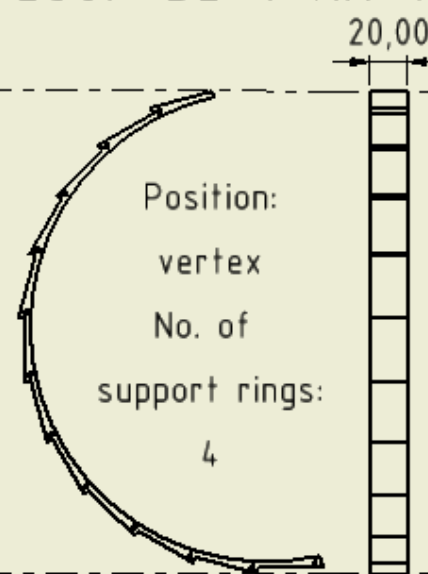
GSUP-BL-HR-3-CAP-UP

Position: upstream endcap
No. of support rings: 2



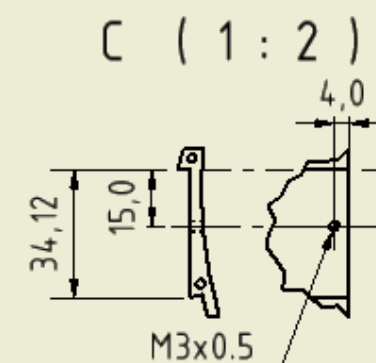
GSUP-BL-4-HR-VTX

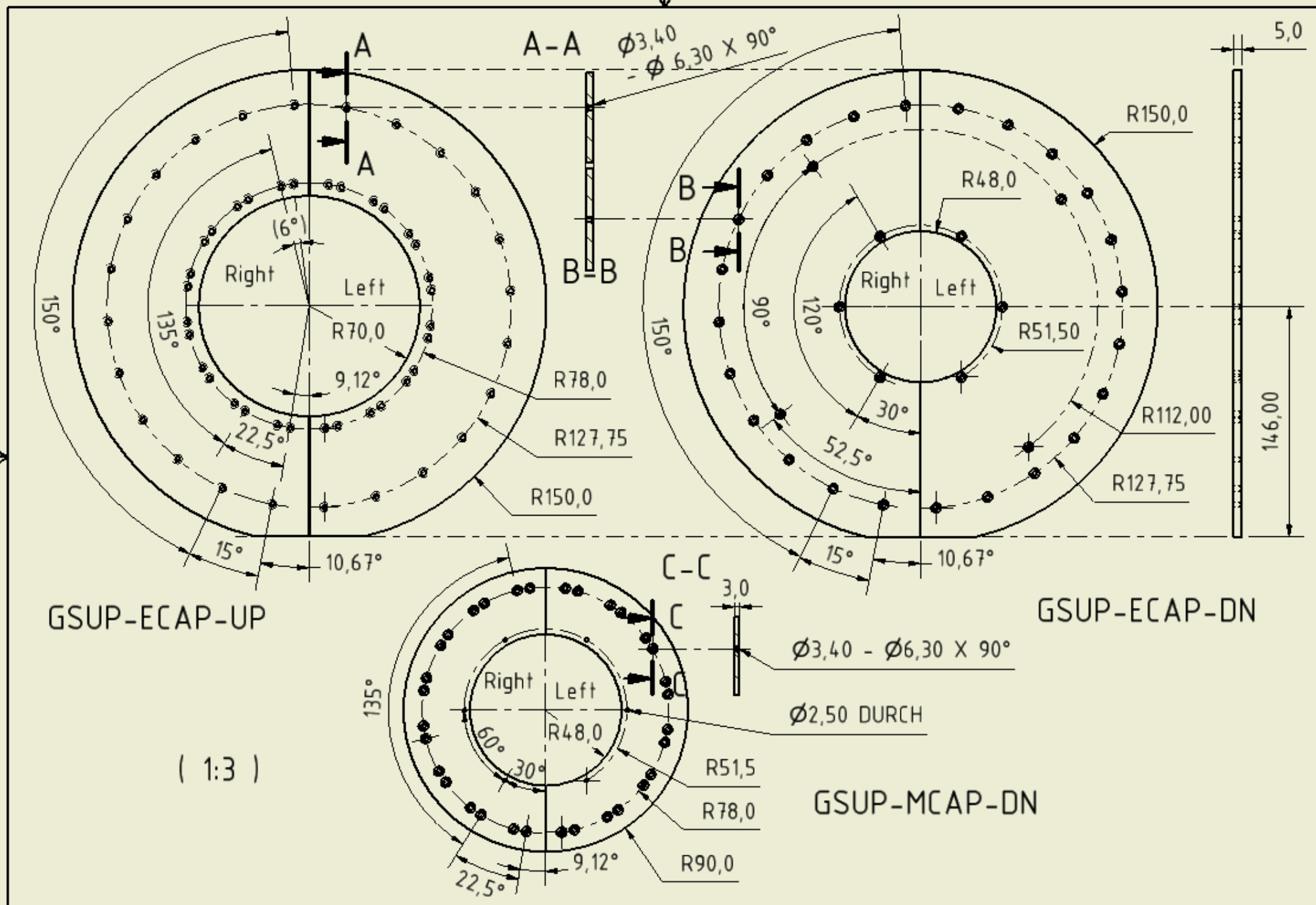
Position:
vertex
No. of
support rings:
4



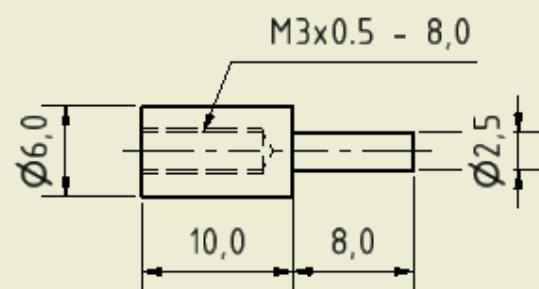
GSUP-BL-4-HR-CAP-DN

Position: downstream endcap
No. of support rings: 2



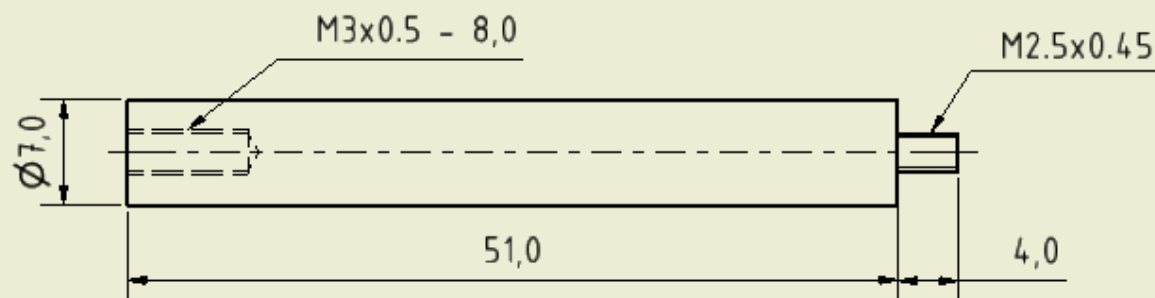


GSUP-BL-SPC-S (2:1)



Short distance piece, barrel
No. : 32

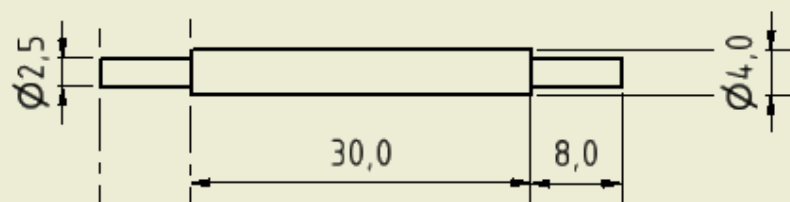
GSUP-BL-SPC-M



Long distance piece, barrel (Barrel 3 downstream: MCAP <-> ECAP)
No. : 6

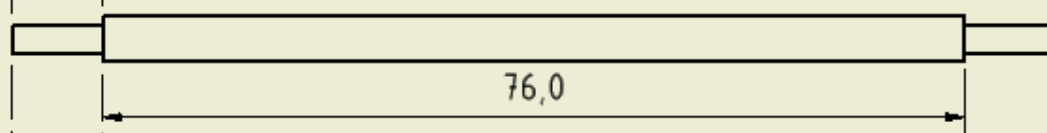
GSUP-BL-CBR-S (3:2)

Short cross-brace, barrel
No. : 36



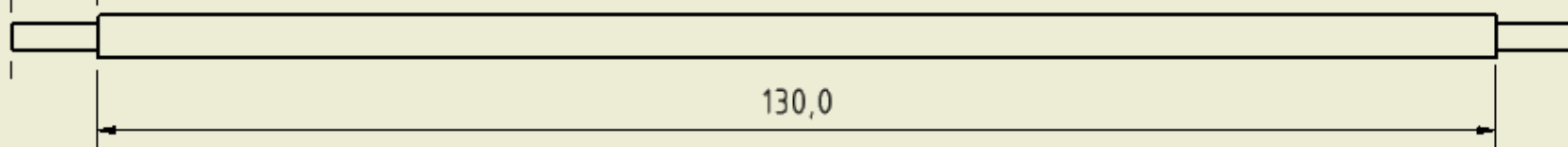
GSUP-BL-CBR-M

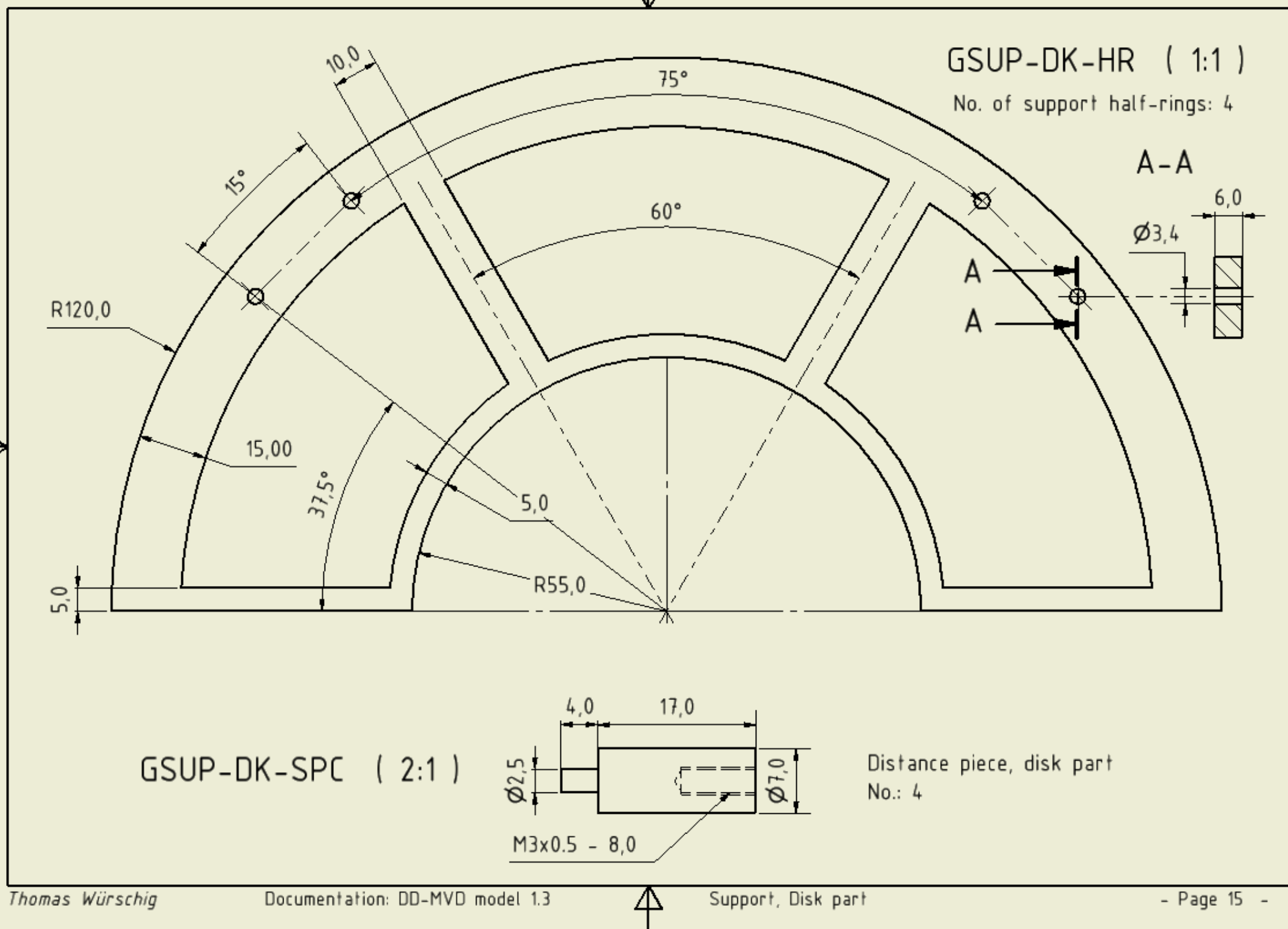
Middle cross-brace, barrel
No. : 16

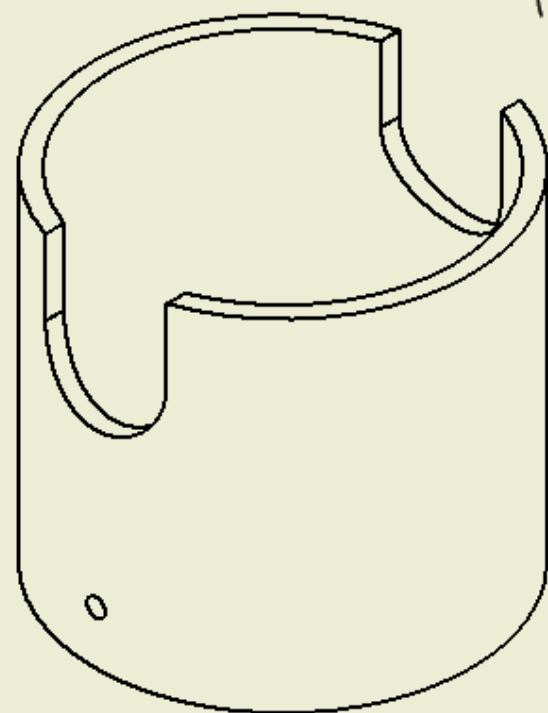


GSUP-BL-CBR-L

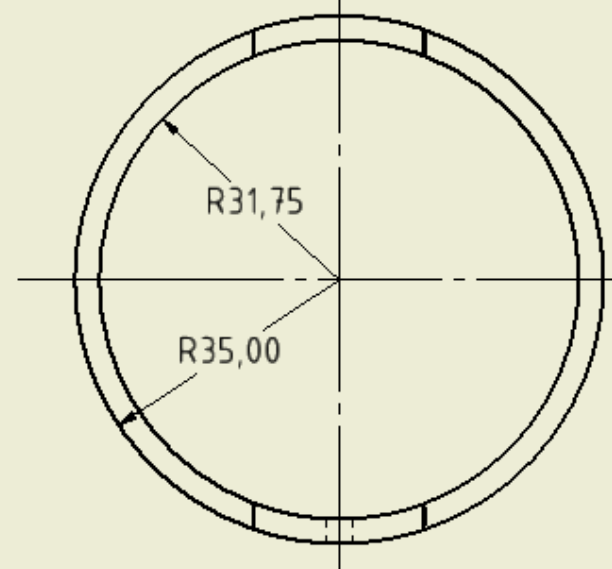
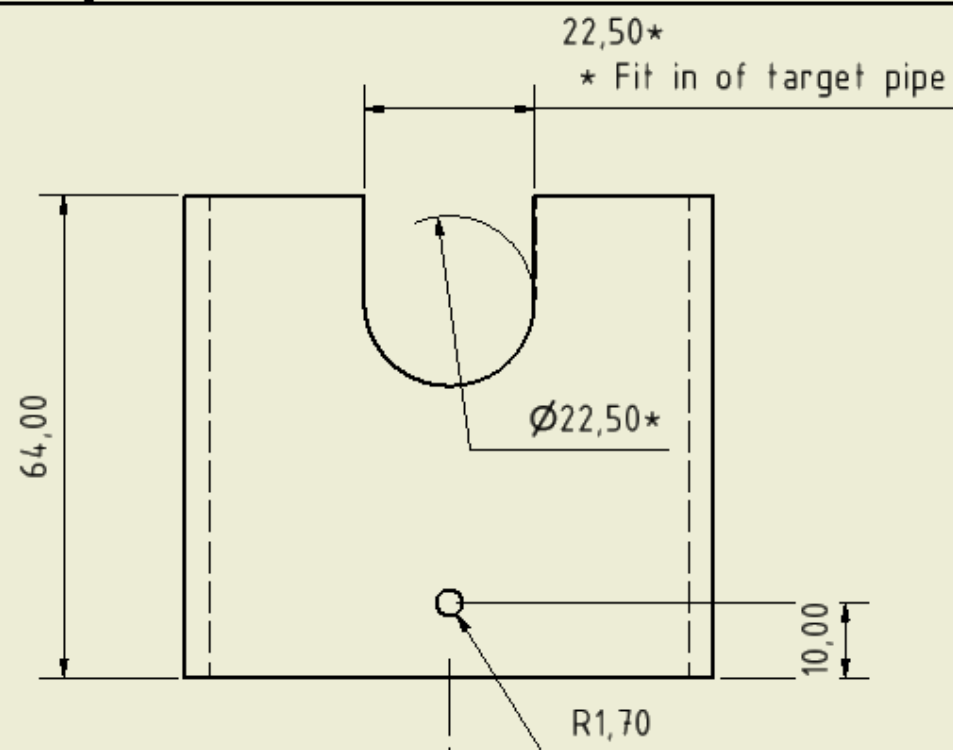
Long cross-brace, barrel
No. : 64



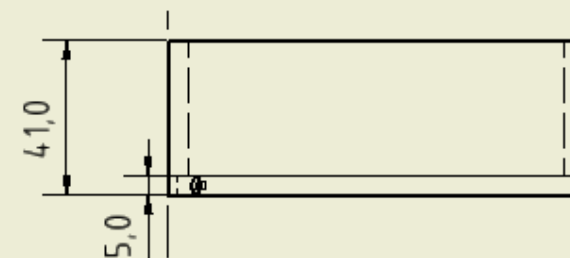
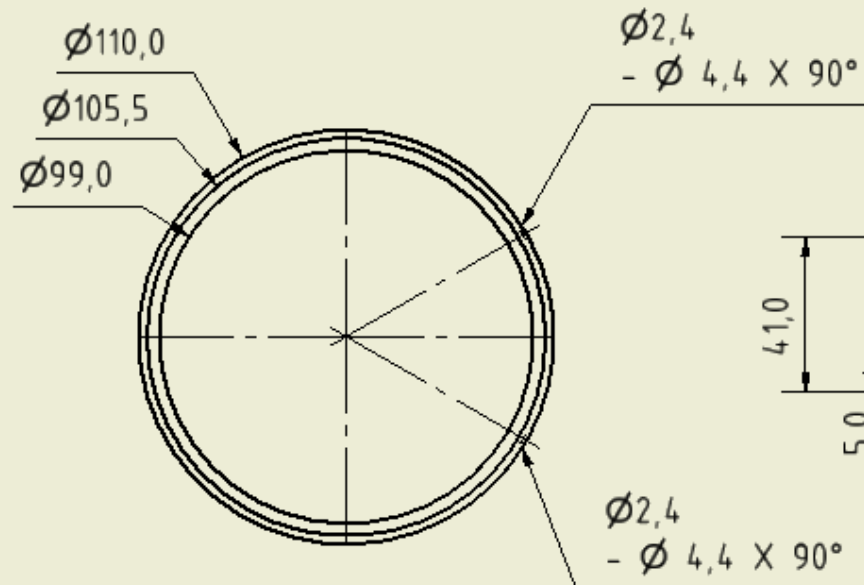
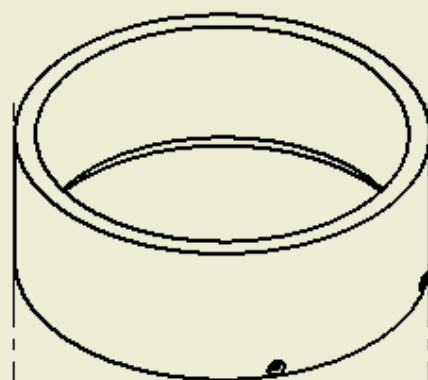




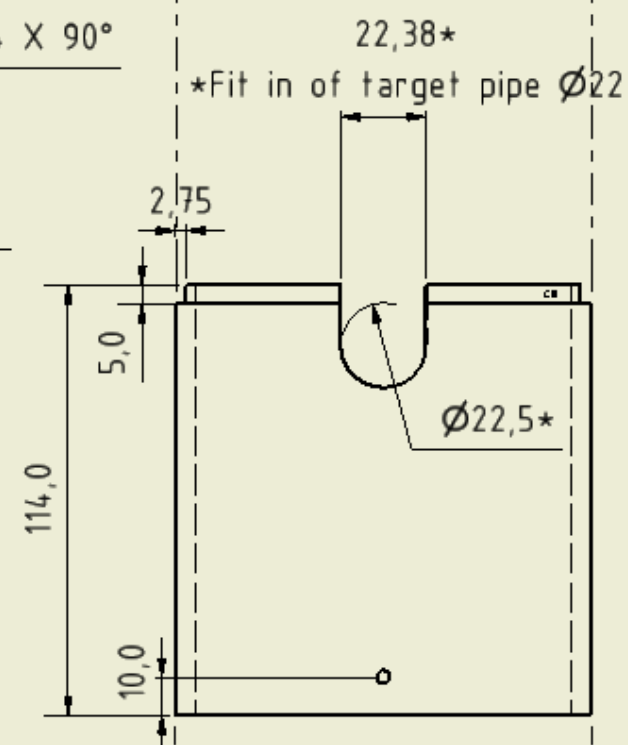
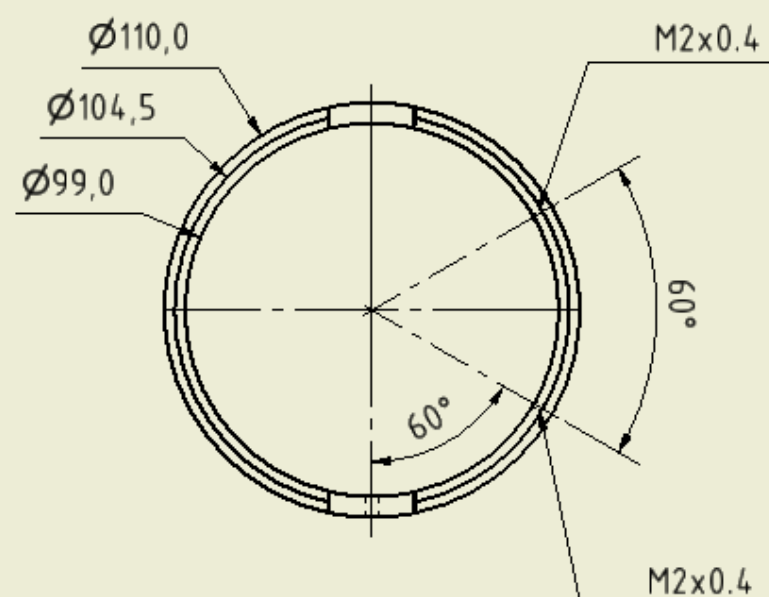
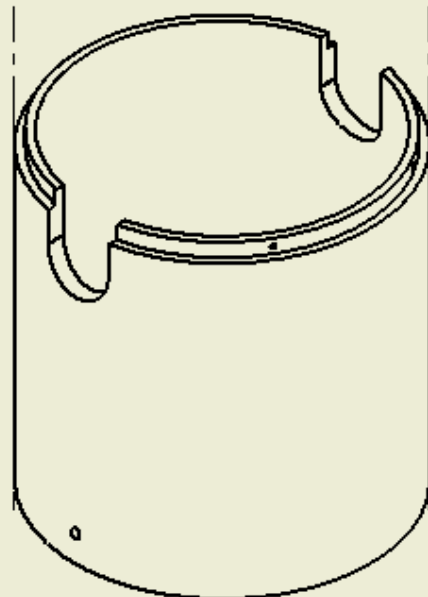
(1 : 1)



Downstream

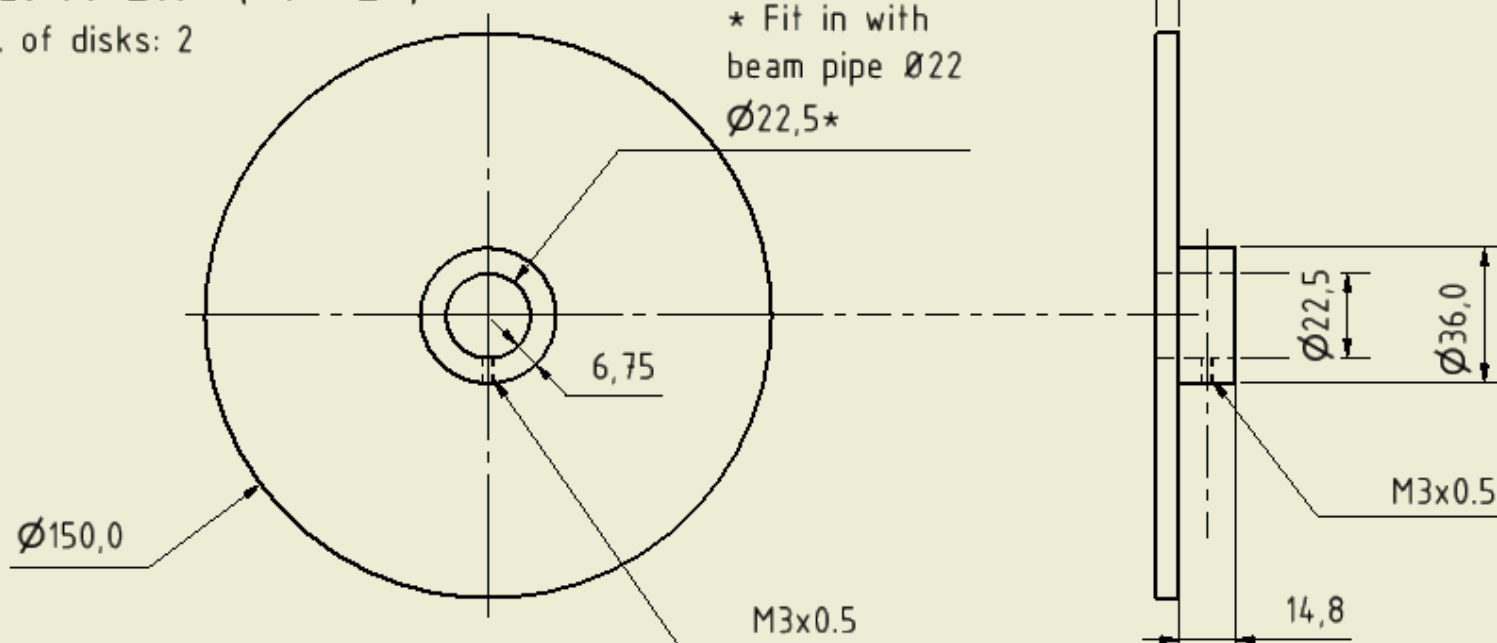


Upstream (1:2)



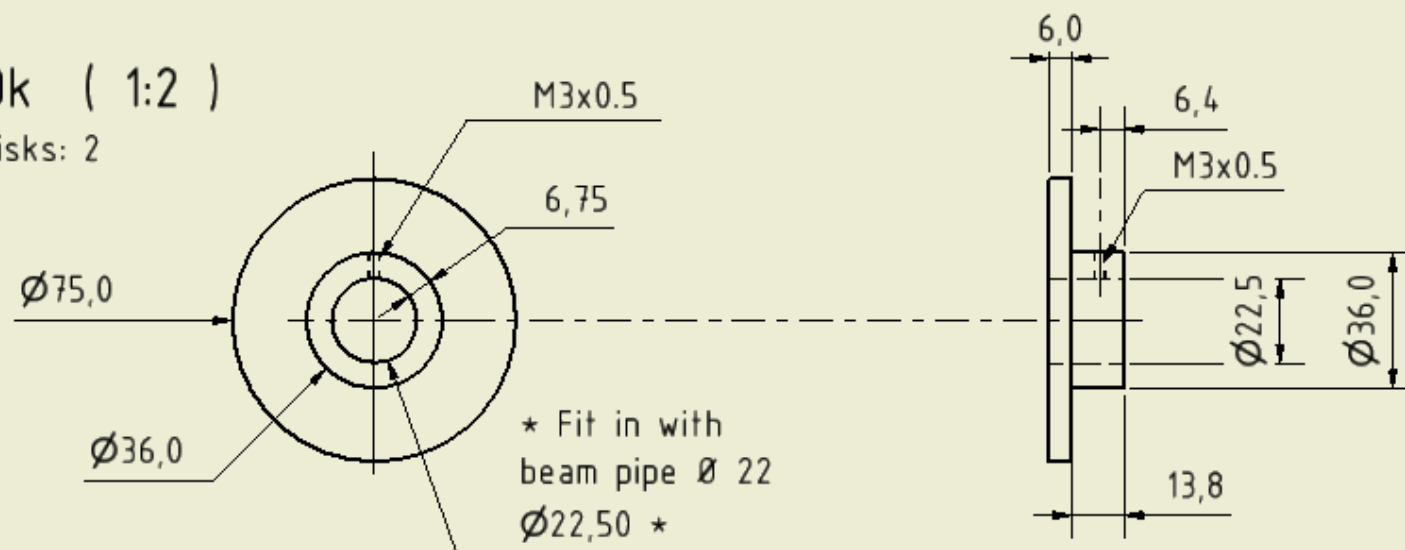
Pixel M-DK (1 : 2)

No. of disks: 2



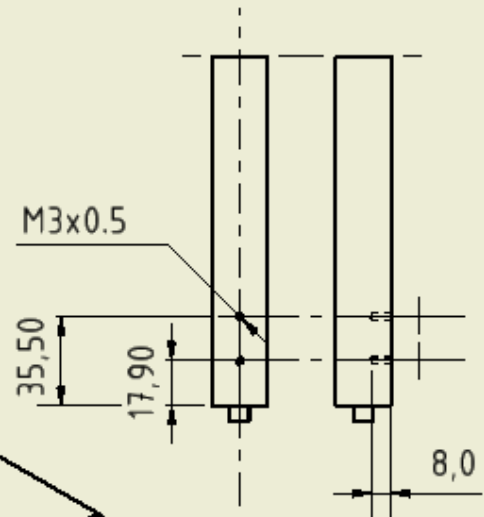
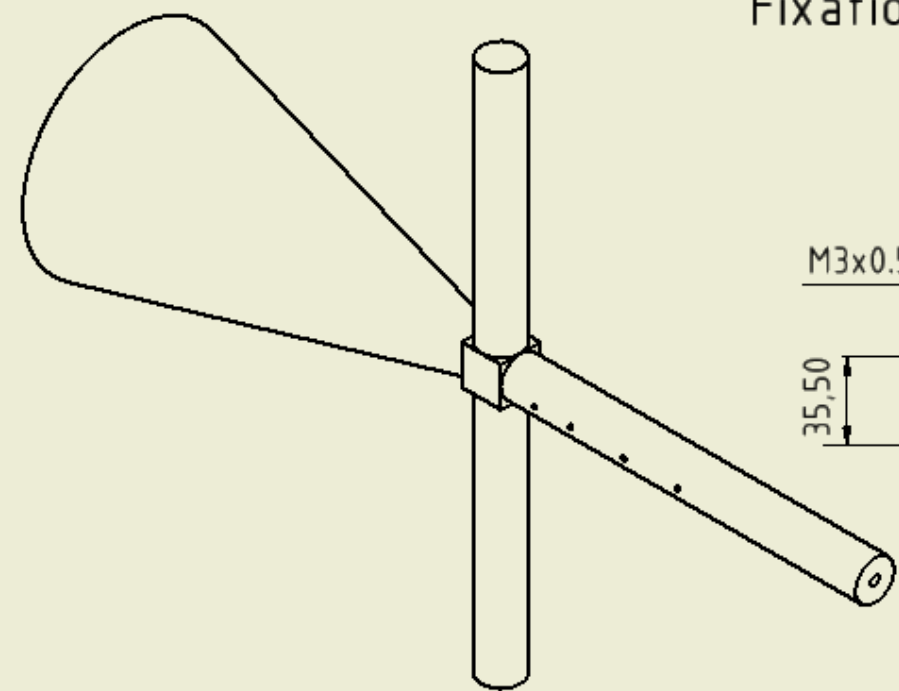
Pixel S-Dk (1:2)

No. of disks: 2

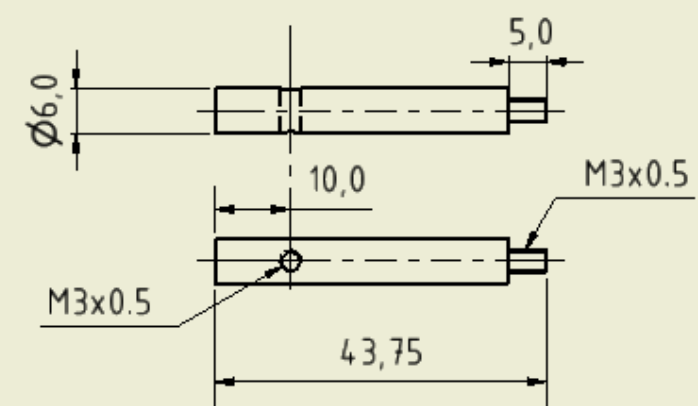




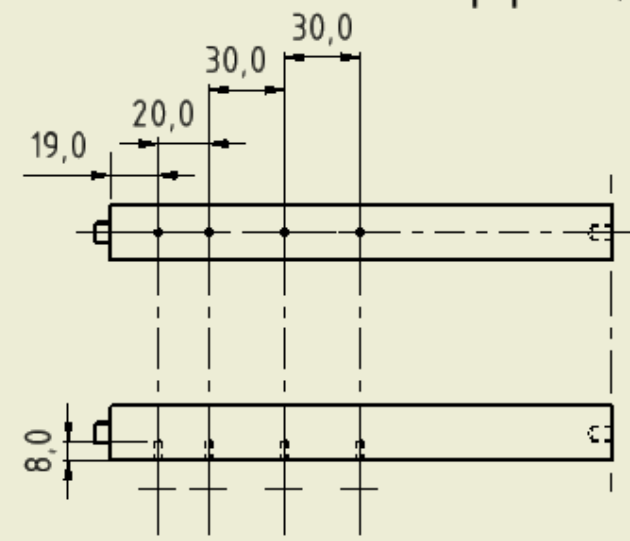
Fixation on target pipe



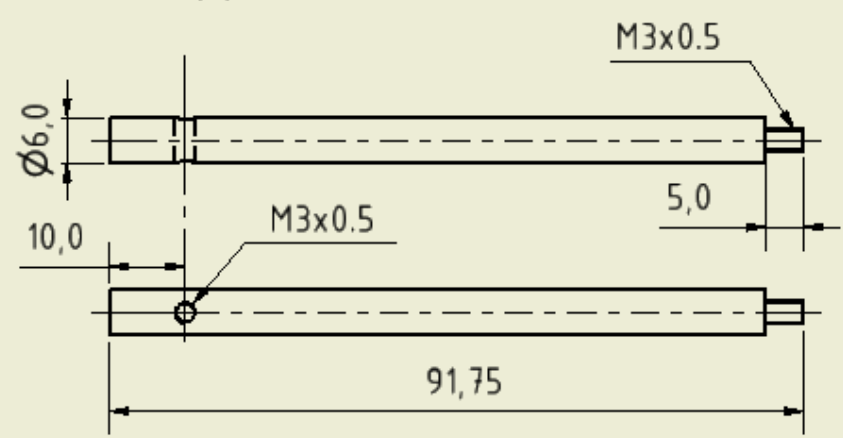
Support Barrel 1 (1:1)

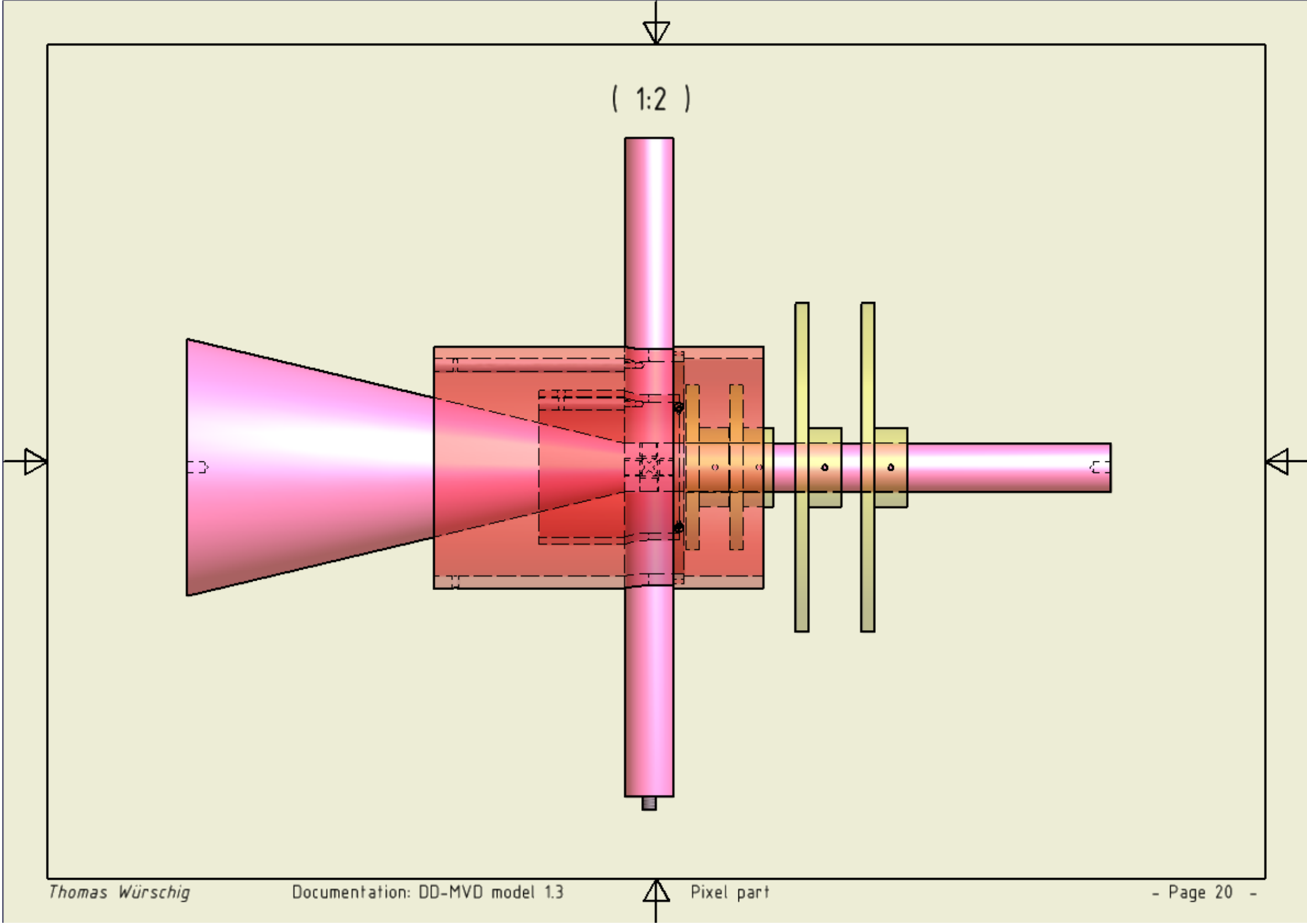


Fixation on beam pipe (1:3)



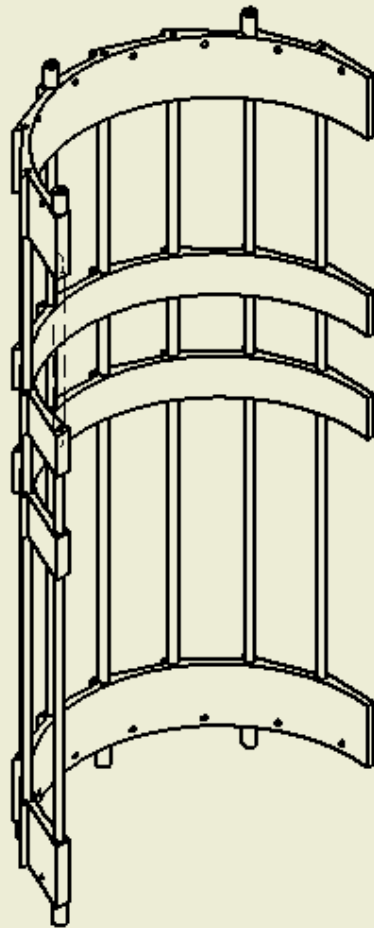
Support Barrel 2 (1 : 1)



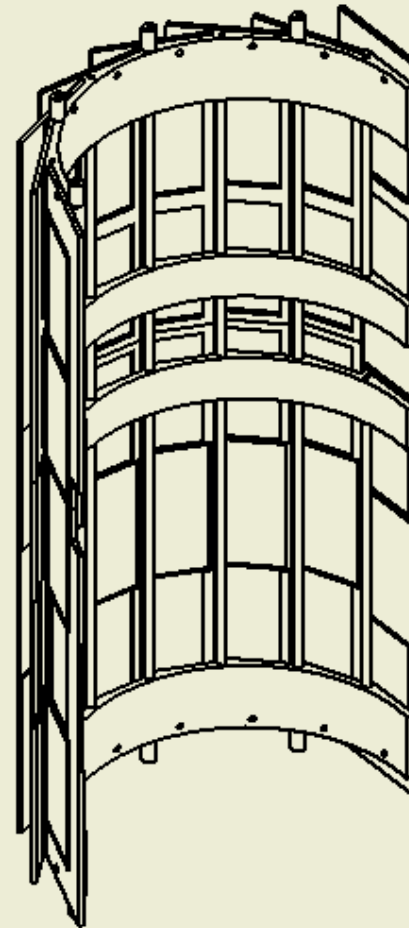


Barrel 3

Global support (1:3)

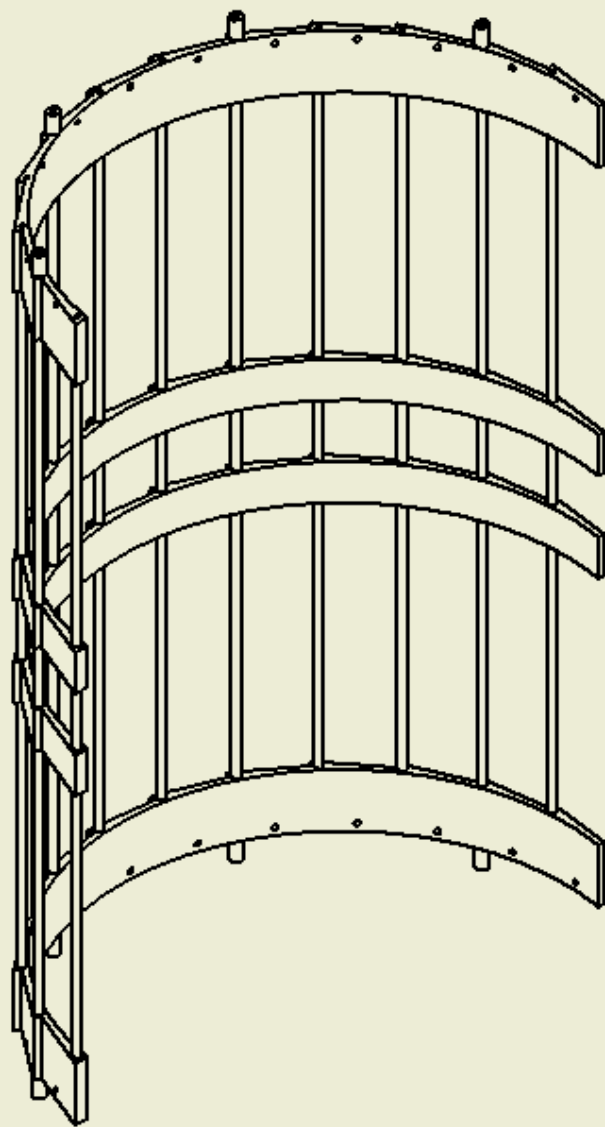


Stave with 2 sensors
Equipped: Top , top



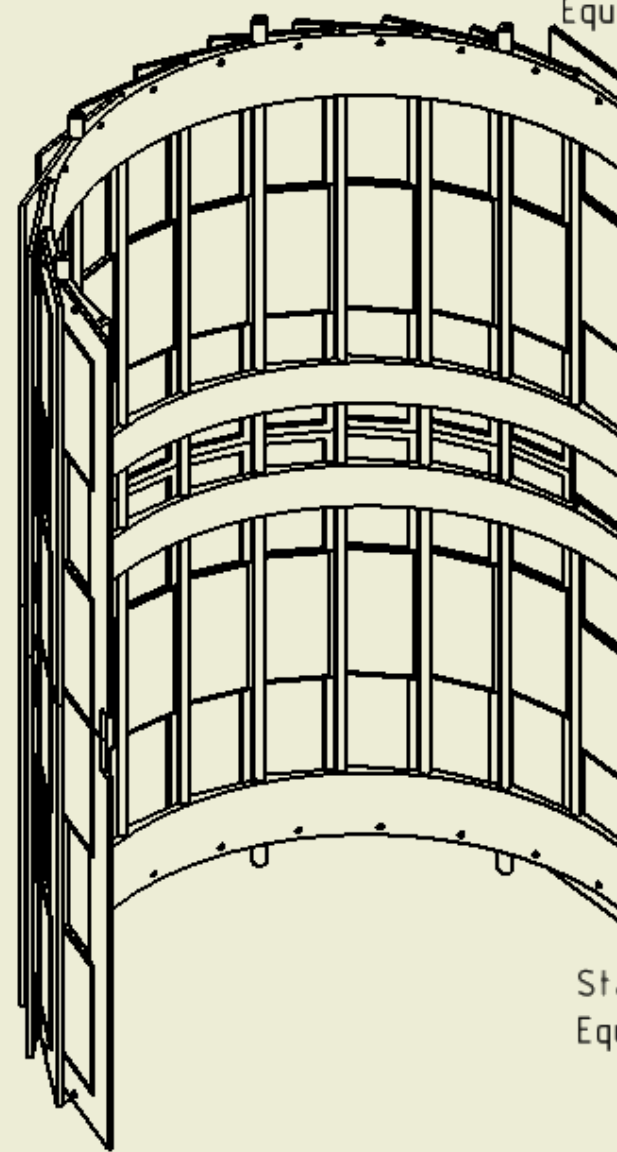
Stave with 3 sensors
Equipped: Top , bottom, top

Global support (1:3)

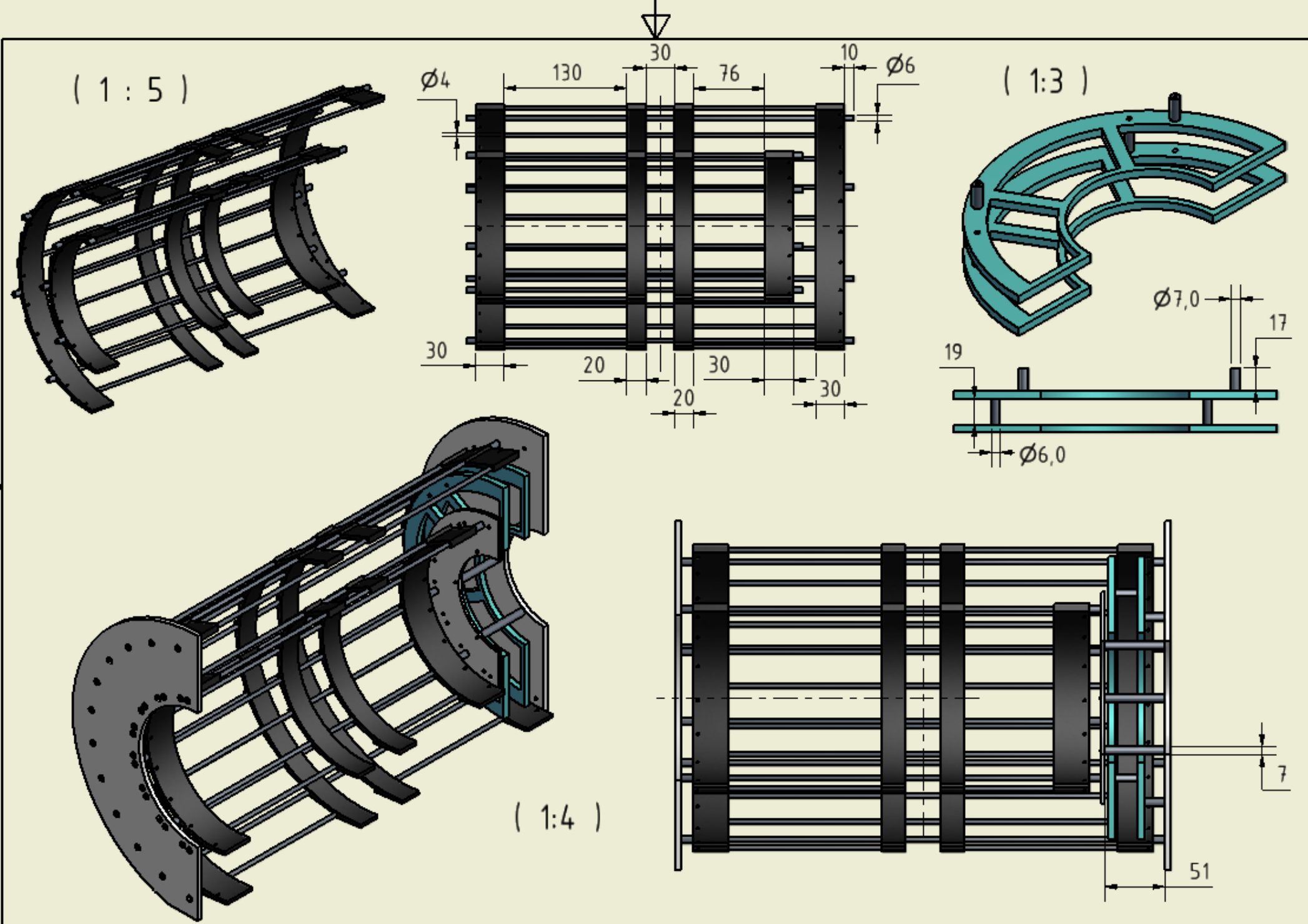


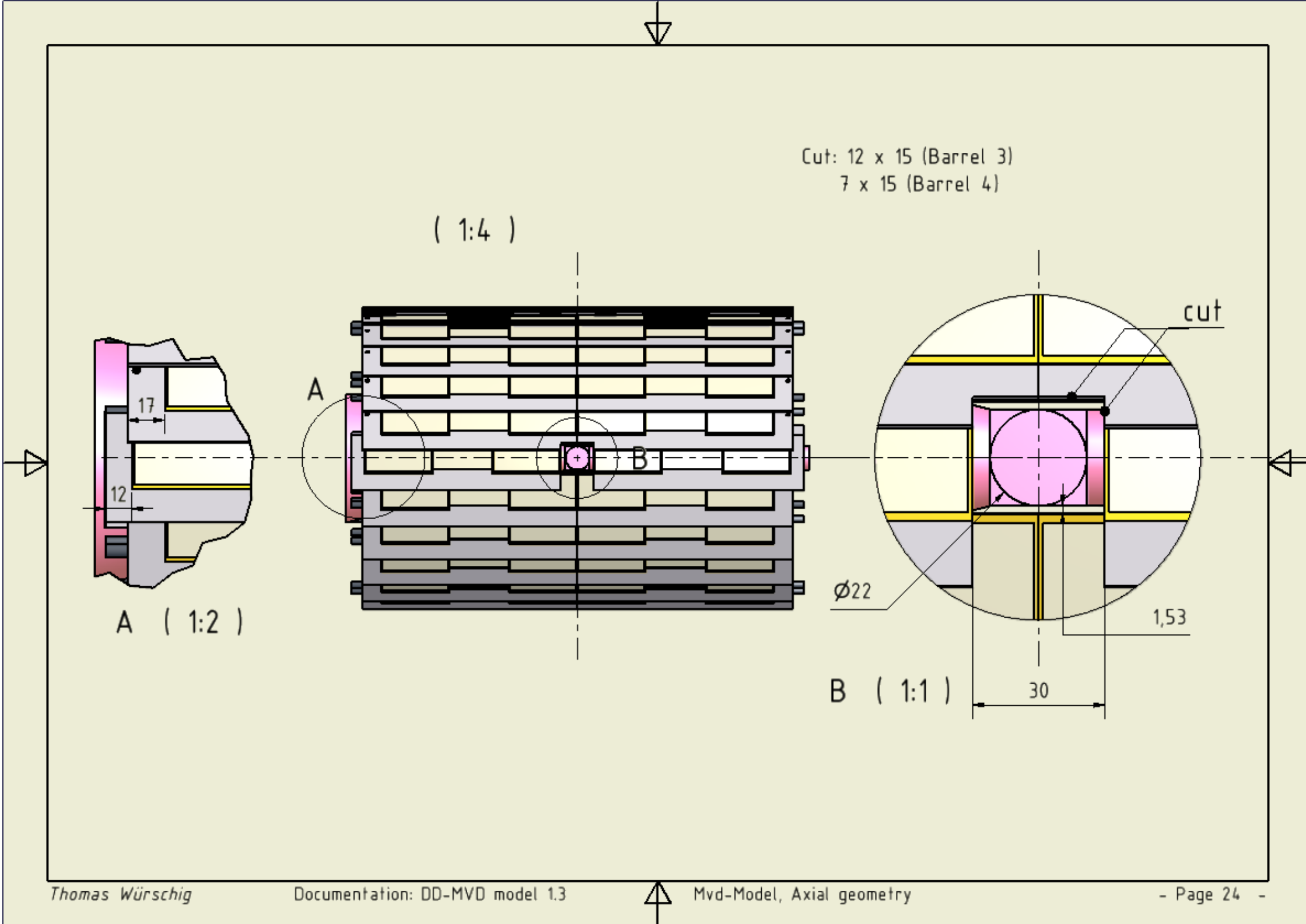
Barrel 4

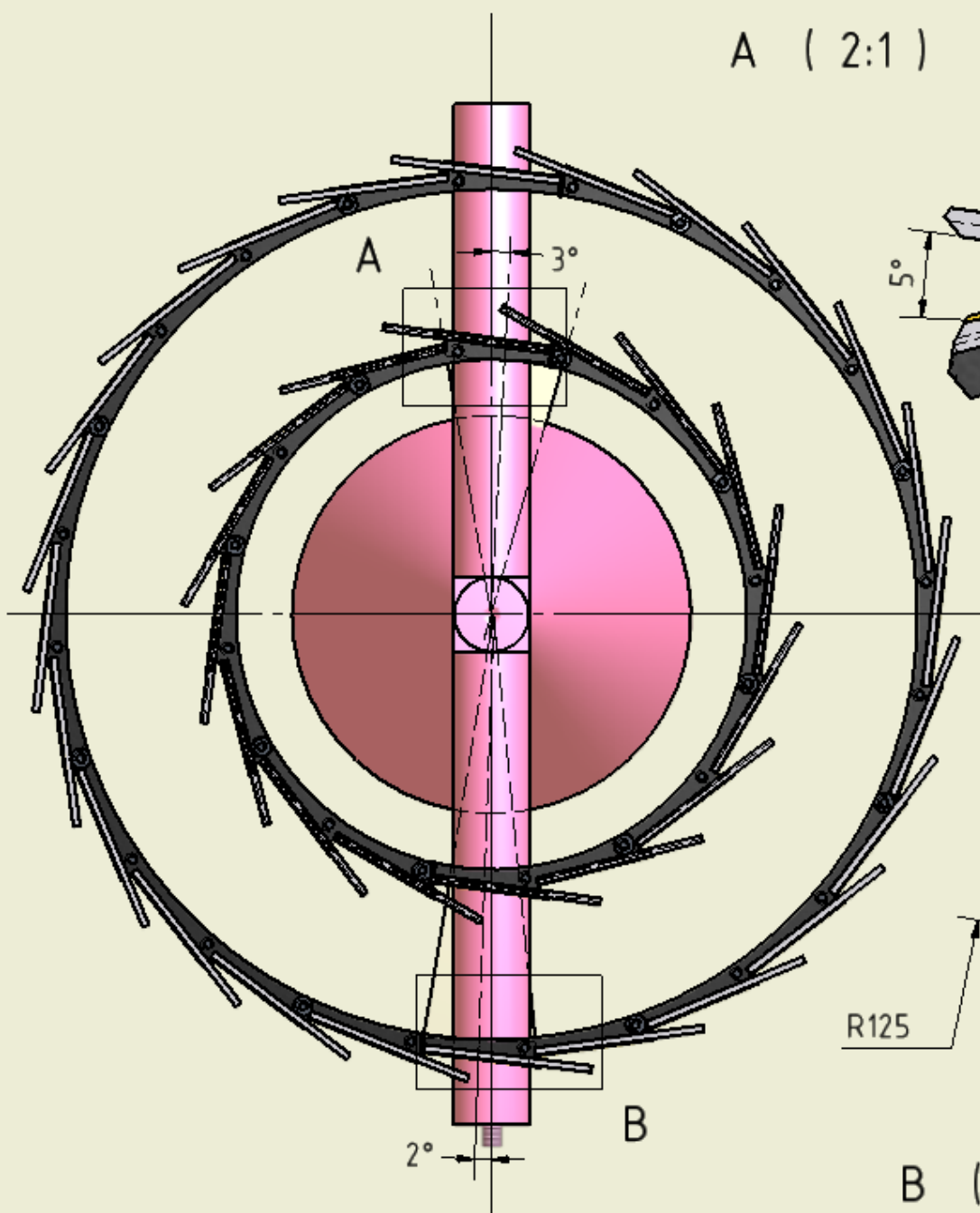
Stave with 3 sensors
Equipped: Top , bottom, top



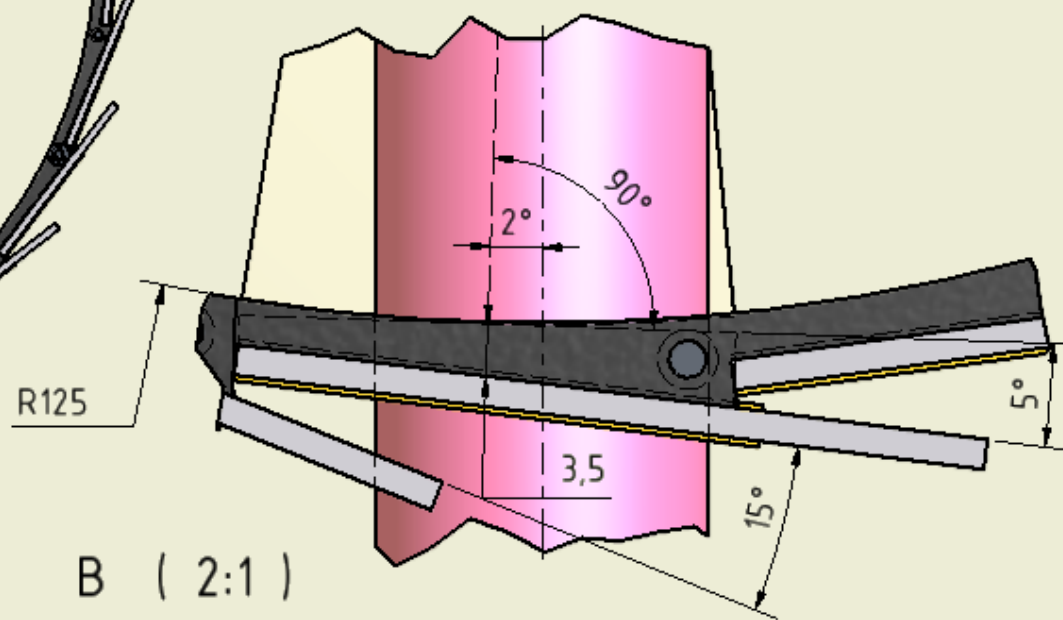
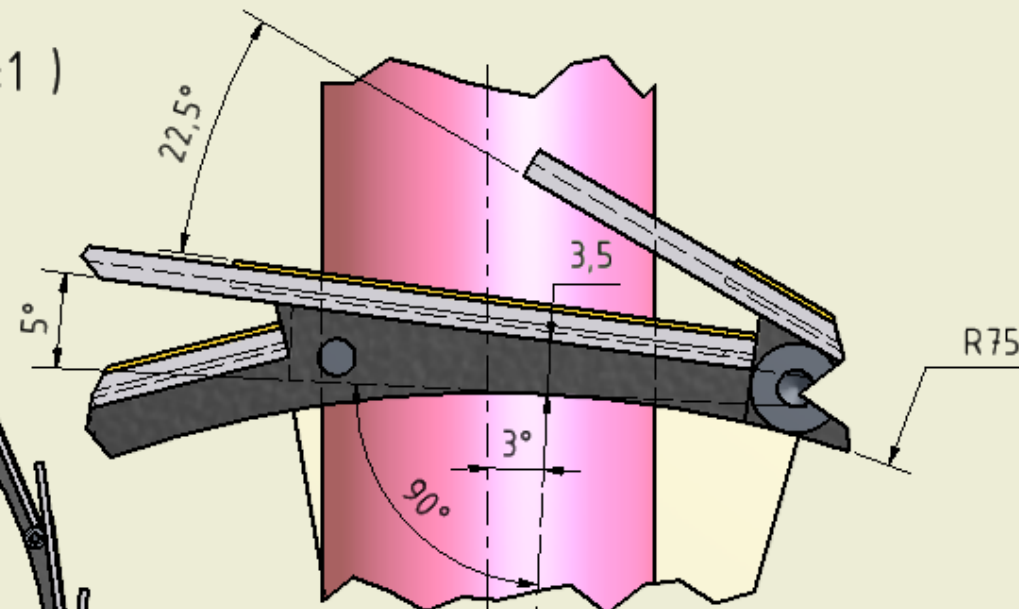
Stave with 3 sensors
Equipped: Top , bottom, top







A (2:1)



B (2:1)

Halfring with 12 sensors
Equipped: 6 at top , 6 at bottom

(1:1)

A (2 : 1)

Overlap
1,00

