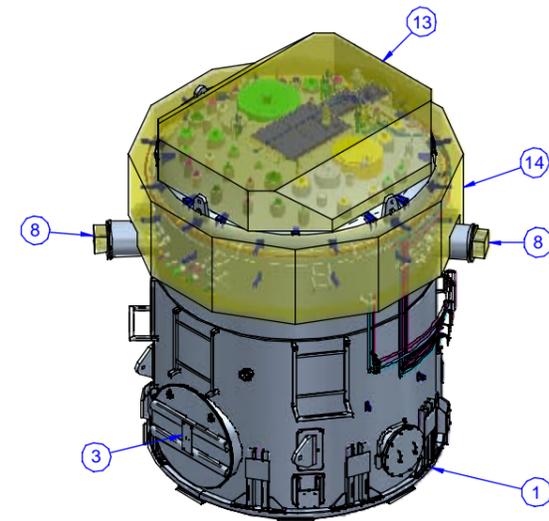
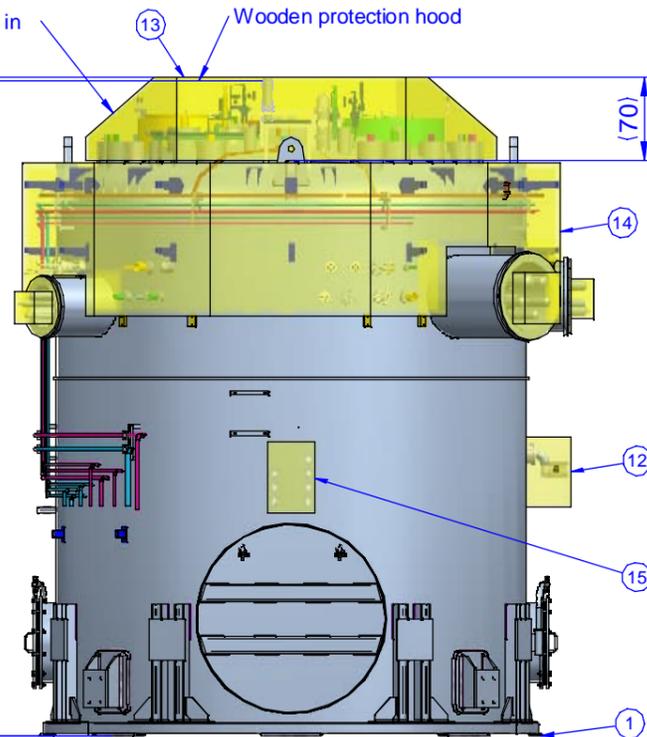


Overview (dimensions in cm)

Protection of top plate

Provide recesses for lashing in the wood protection hood



1:50

ATTENTION

NITROGEN FILLING
 Vacuum vessel: 0.1 bar.g
 Piping: 0.3 bar.g

TRANSPORT WEIGHT OF COLD BOX

without protection hood: 28'000 kg (+ 1000 kg /- 0 kg)
 with protection hood: 30'000 kg (+ 1000 kg /- 0 kg)

The truck shown is for illustration purposes only.
 Total transport height is depending of transport vehicle
 Transport details have to be aligned with transport company of client.

Lifting equipment must be provided by transport company.

Packaging details have to be finally defined by packaging company.
 Packaging company has to provide documentation of packaging.

Additional information: L-SD 1036 ACB 1-5 Transport procedure
 L-LX 1040 ACB-4-PF Packing List

Remarks to parts list:

The column "LB" shows the Linde supply:
 "Z" for drawings (i.e. separate details drawings available)

Pos	Drawing-No.	Title	Material	Qty.	Weight	LB
1	200103507	ACB-4-PF External piping		1	27603.3	Z
2	200103575	Cradle		4	95.1	Z
3	200104618	Datalogger assembly		1	0.0	Z
4	200104579	Pressure gauge asm for monitoring of N2 pressure		3	25.6	Z
5		Protection cap D=640	Wood, Packaging	1	8.3	
6		Protection cap D=740	Wood, Packaging	1	9.7	
7	200104588	Pump Nozzle for Transport		1	8.5	Z
8		Protection cap D=530	Wood, Packaging	2	11.8	
9	200104047	Transport lashing point	S355	2	107.0	Z
10	200104046	Transport lashing point with rip		2	126.5	Z
11	200104683	Transport saddle ACB-4		1	410.7	Z
12		Wooden protection hood for pump nozzle	Wood, Packaging	1	64.9	
13		Wooden protection hood for valve plate	Wood, Packaging	1	381.1	
14		Wooden protection hood for cable tray	Wood, Packaging	1	937.6	
15		Wooden protection hood for heaters connectors	Wood, Packaging	1	20.7	

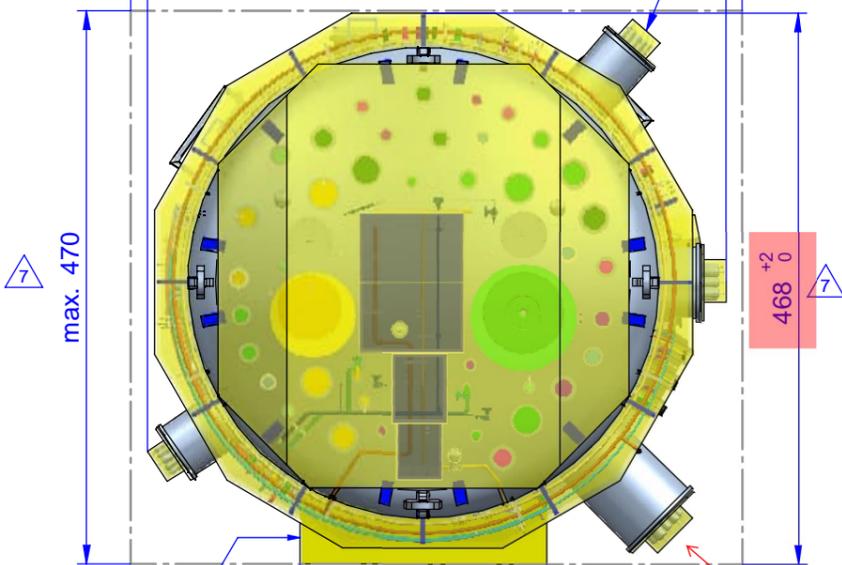
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Geändert / Modified	Datum / Date	Projekt / Project	Maßstab / Scale	Werkstoff / Material	Gewicht / Weight
Ronnie Baumann	17.04.2024	ITER-CD15	1:30		29507.9 kg
Freigegeben / Approved	Datum / Date	Teilsystem / Type	Bemerkungen / Remarks		
Albert Meier	19.04.2024	343P00	for-fabrication		
Gepflicht / Inspected	Datum / Date	Benennung / Title			
Jason Besmer	18.04.2024	ACB-4-PF Transport			
Erstellt / Created	Datum / Date	ACB-4-PF Transport			
Tim Benz	18.05.2020				

- Changed height of transport dimensions and implemented new saddle dimensions/drawing (Page 1)
- Added removable cabinet support info (Page 2)
- Added Trailer Beam Detail (Page 5)
- Adjusted position of crane for horizontal lifting (Page 6)

Zipper for sleeve must be included in shrinking foil

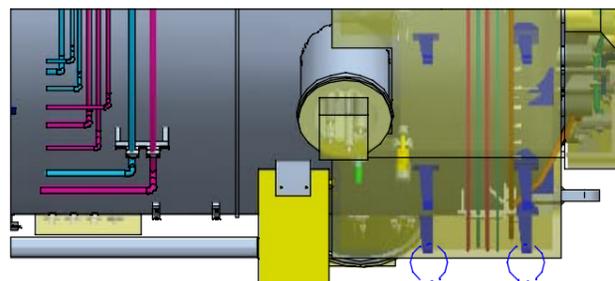
max. 520
 492
 width



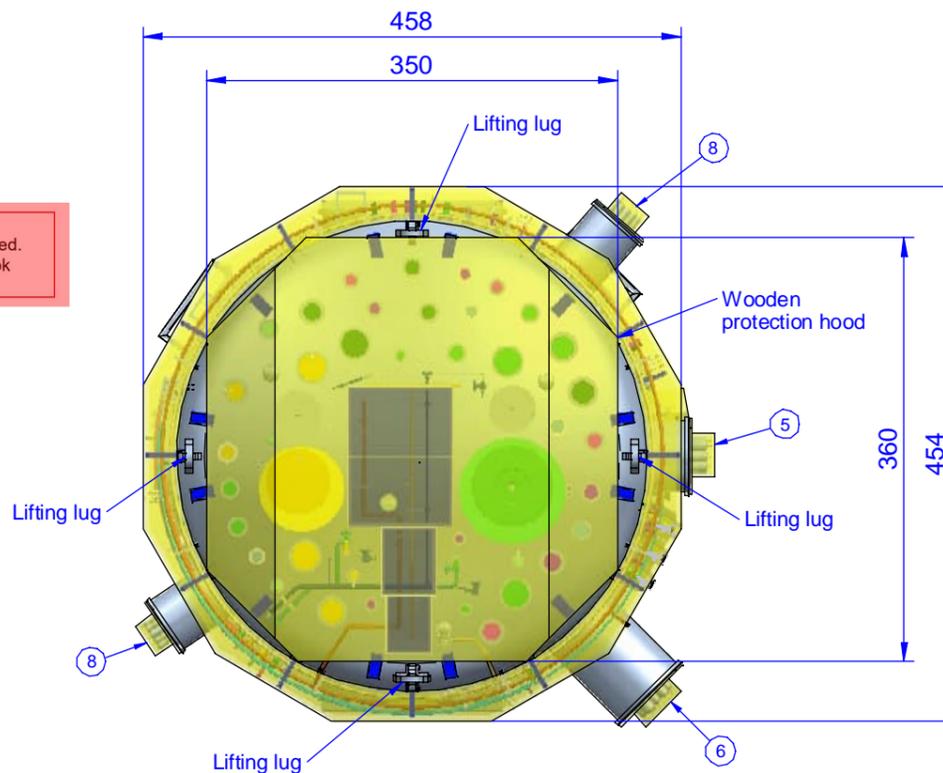
Sleeve 342CA0
 Pipe length reduced.
 Cap with Swagelok remain existing.

Saddle to be fabricated again due to new width

A
 1:20



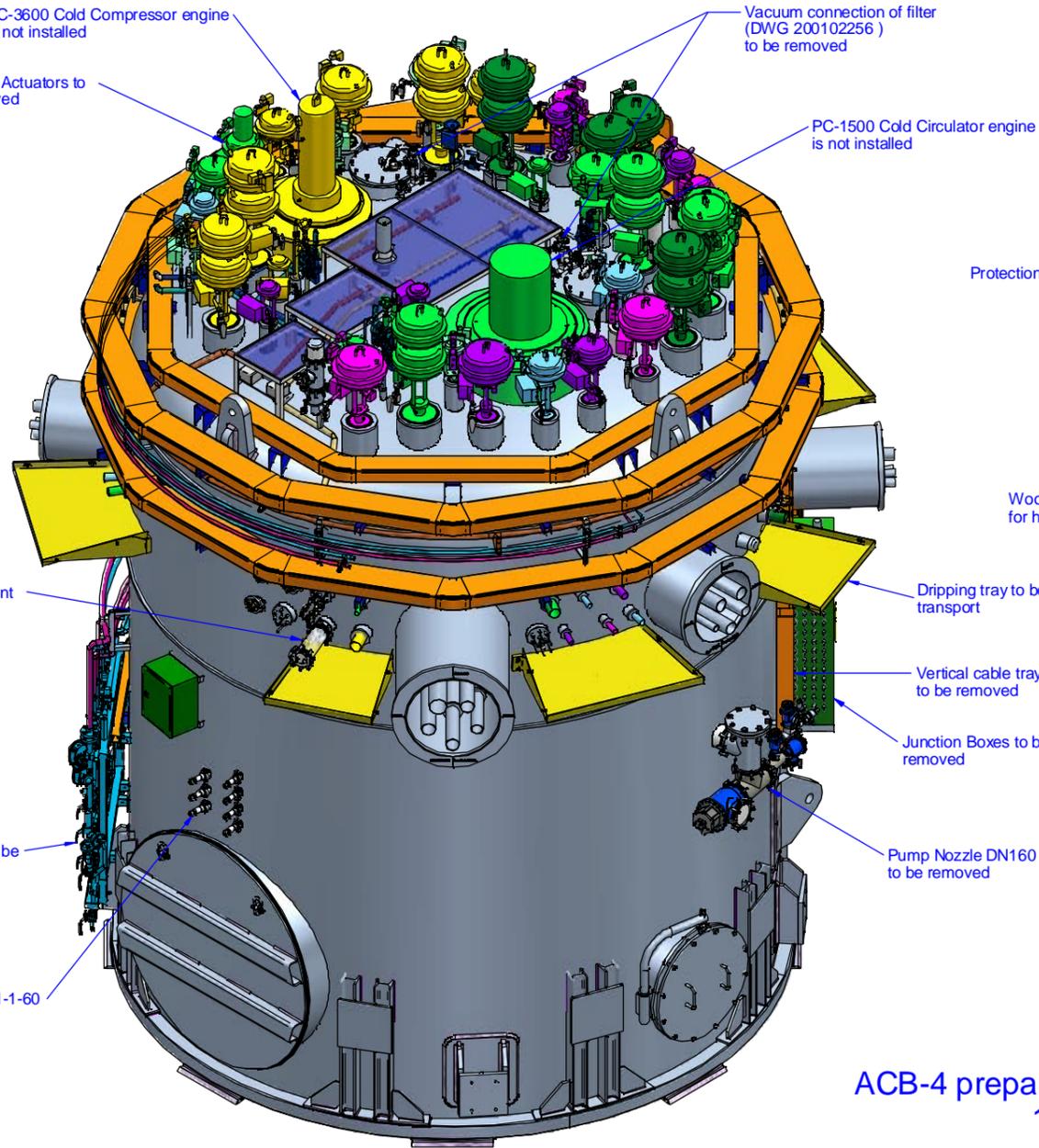
Shorten support for cable trays by 5cm, so that the wooden protection hood will not touch the floor



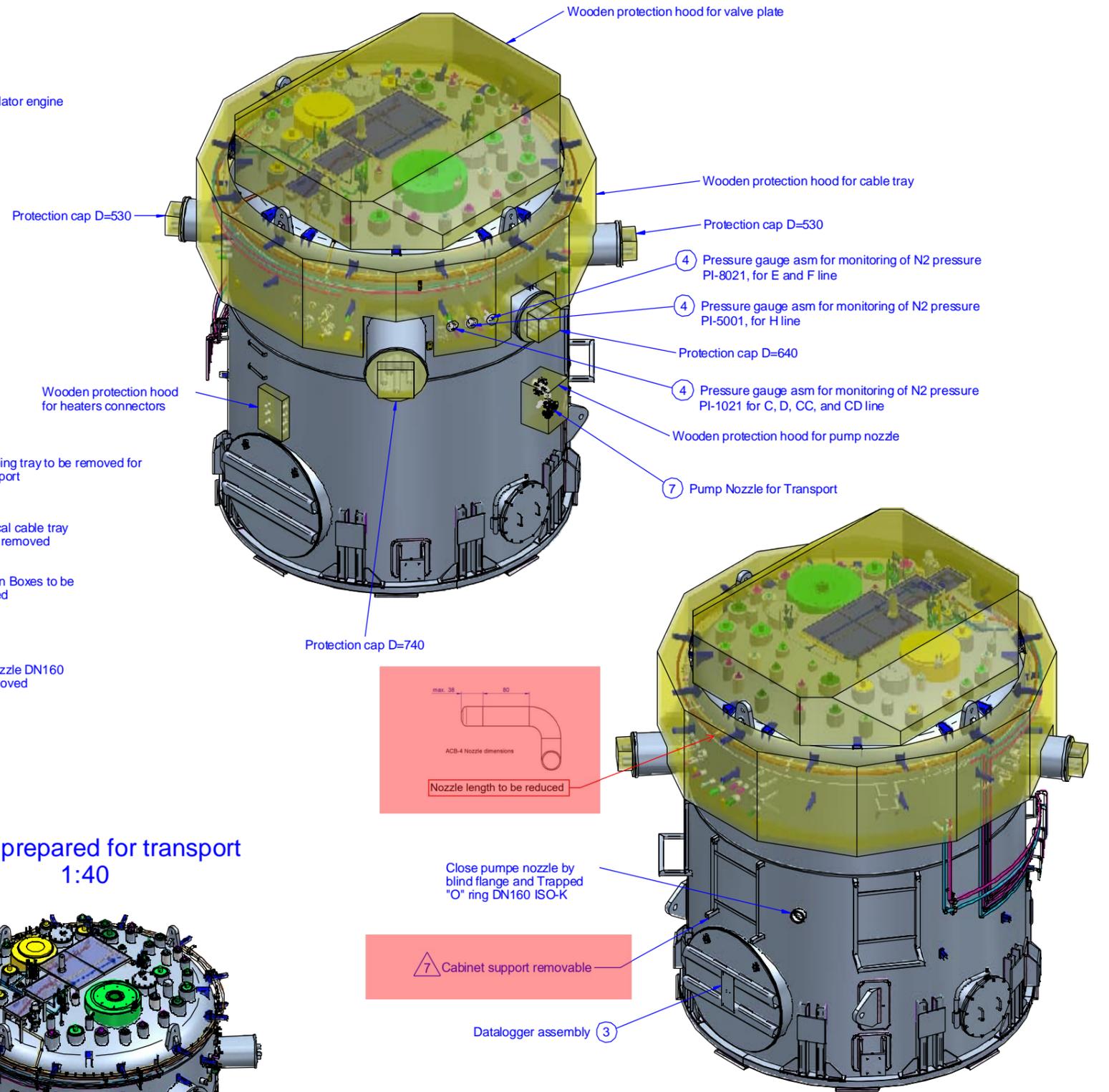
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7

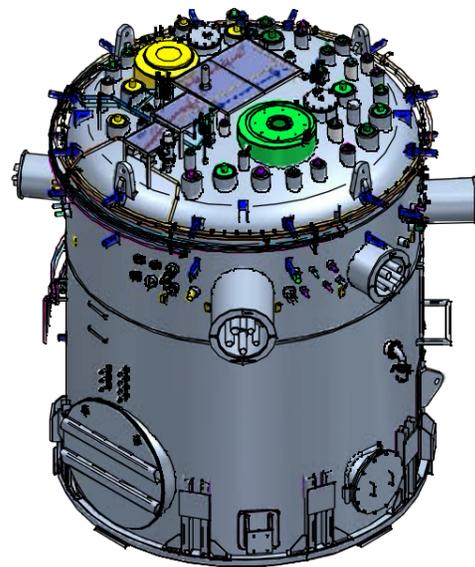
ACB-4 complete
1:20



ACB-4 prepared for transport
protection & N2-filling

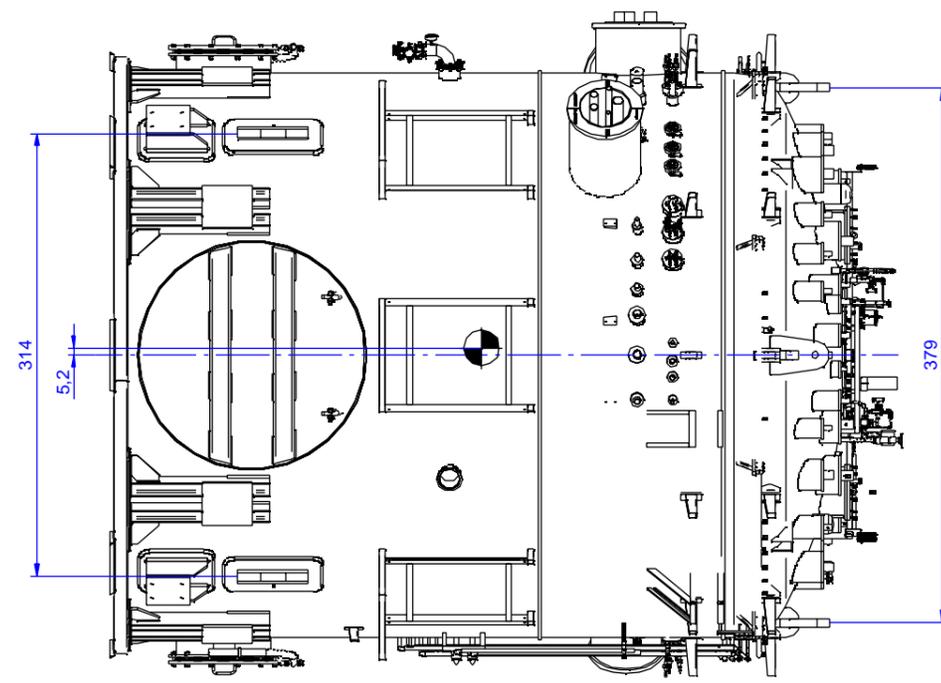
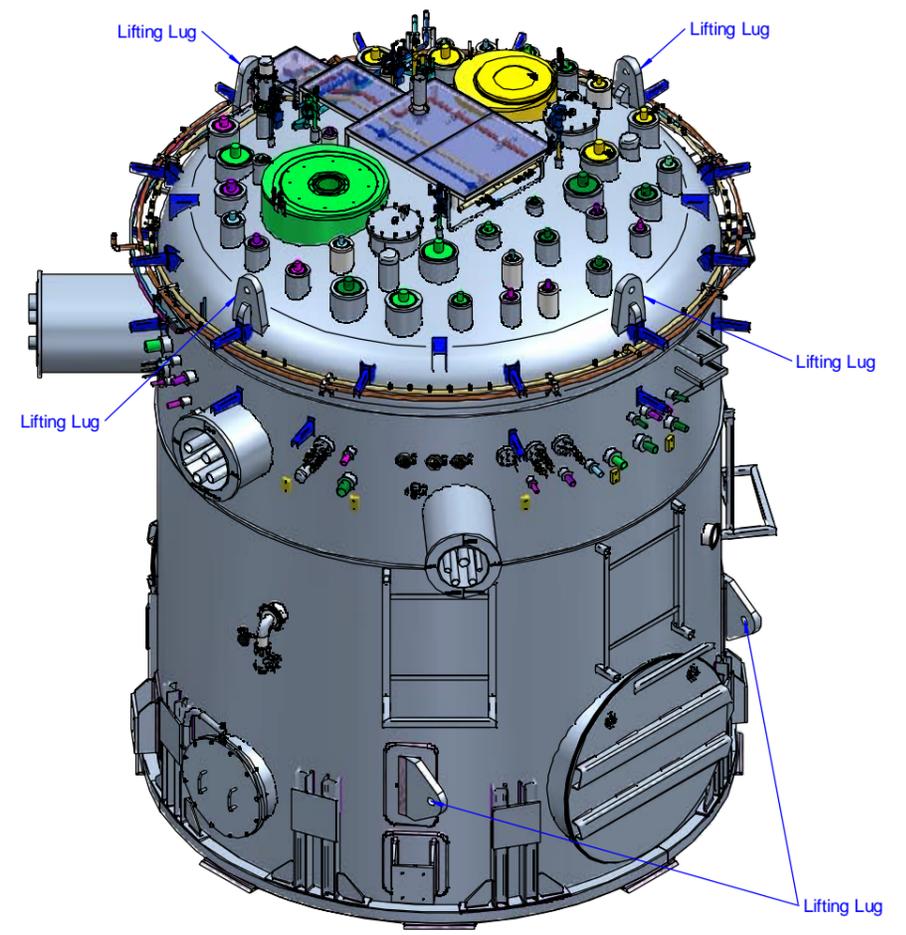
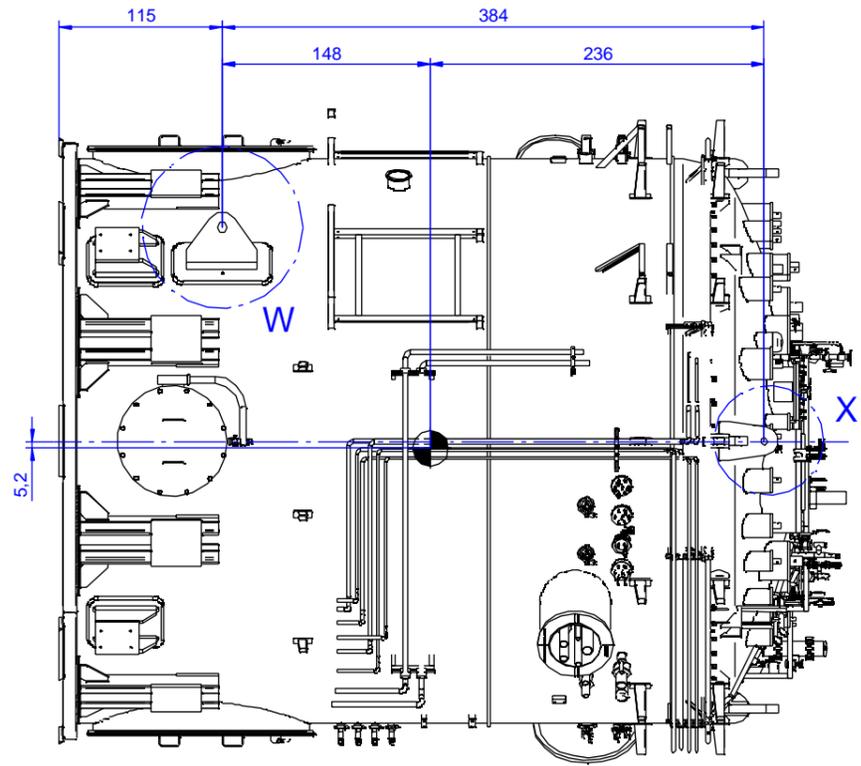
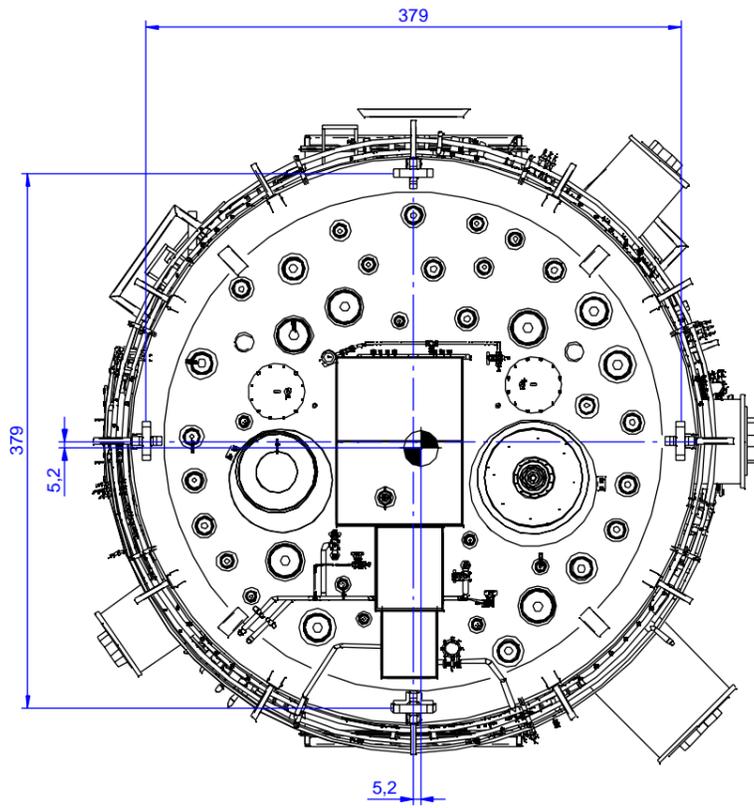


ACB-4 prepared for transport
1:40

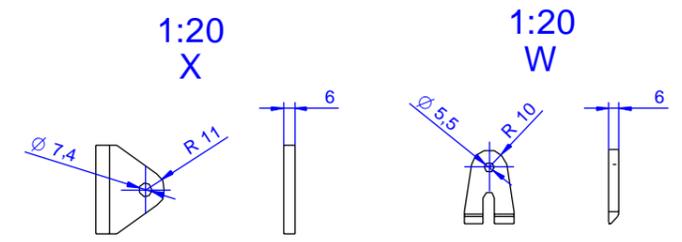


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Ronnie Baumann	17.04.2024	ITER-CD15	1:30
Freigegeben / Approved	Datum / Date	Teilsystem / Type	Bemerkungen / Remarks
Albert Meier	19.04.2024	343P00	for-fabrication
Gepflicht / Inspected	Datum / Date	Benennung / Title	
Jason Besmer	18.04.2024	ACB-4-PF Transport ACB-4-PF Transport	
Erstellt / Created	Datum / Date		
Tim Benz	18.05.2020		
Linde Linde Kyotechnik AG		Format / Size	Zeichnungsnummer / Drawing number
		A1	200104185
		Projection	Sheet / Revision
			2 7

Position of Lifting Lugs and Center of Gravity (CoG)



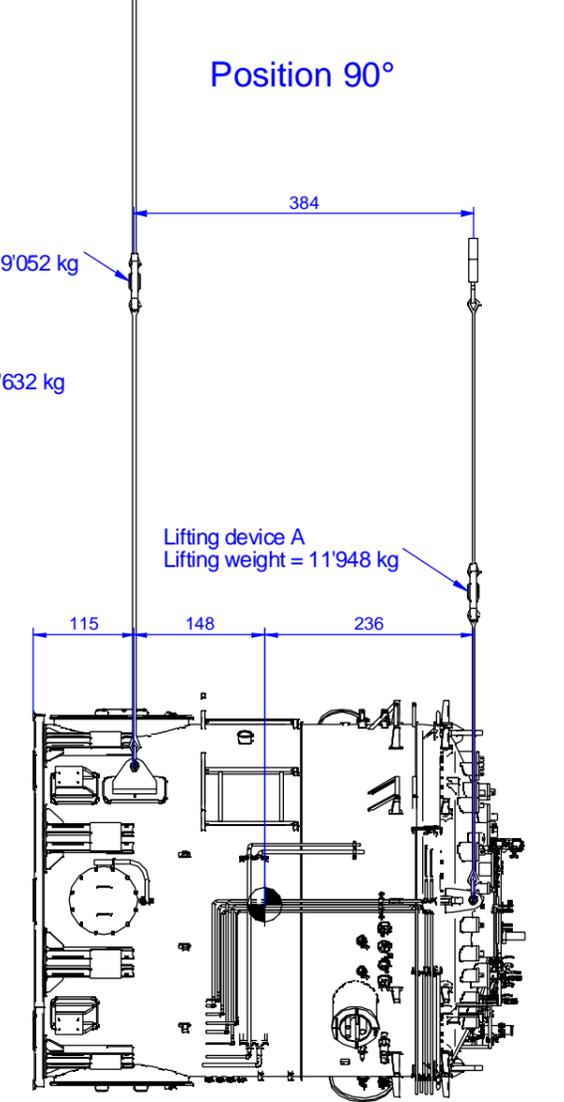
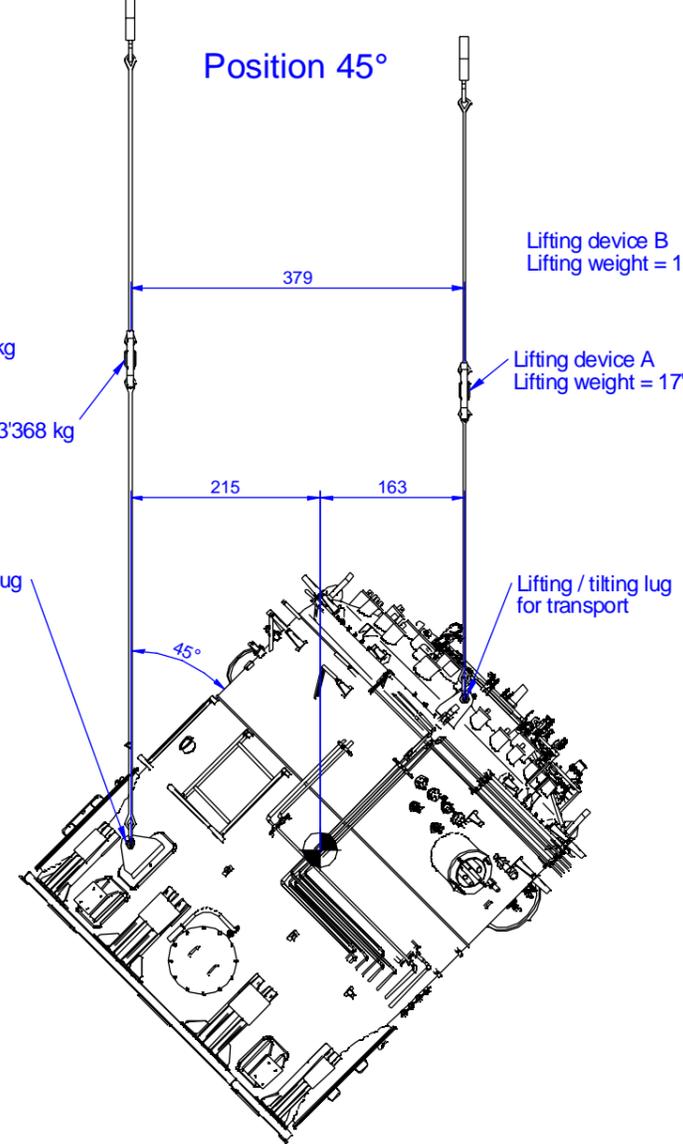
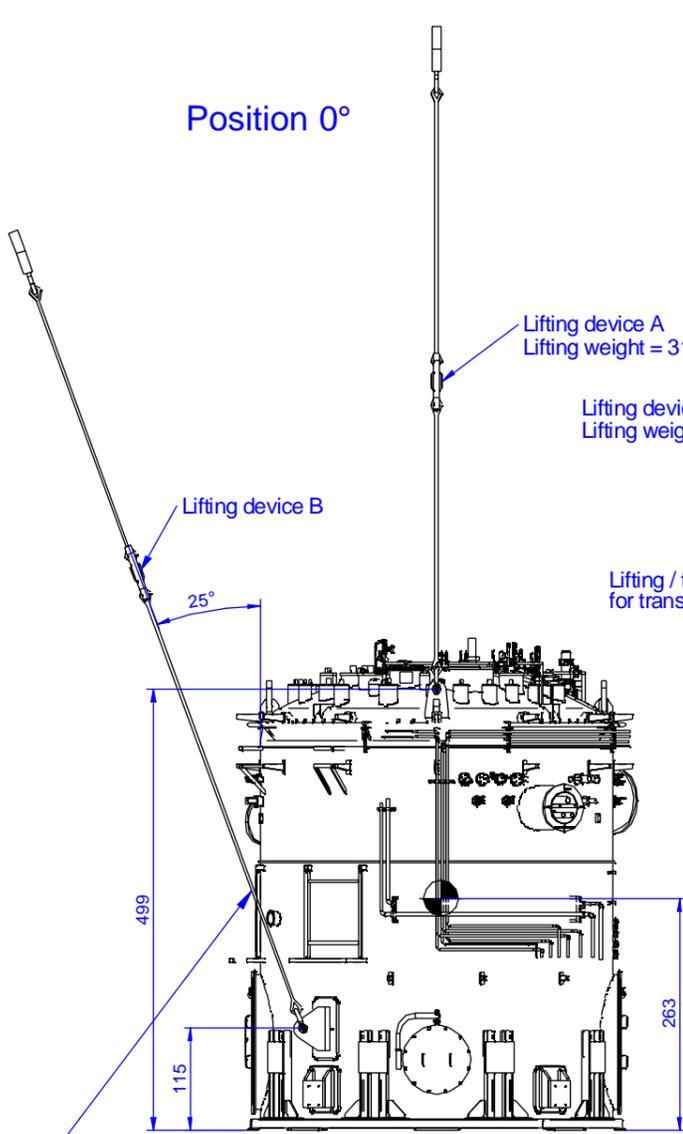
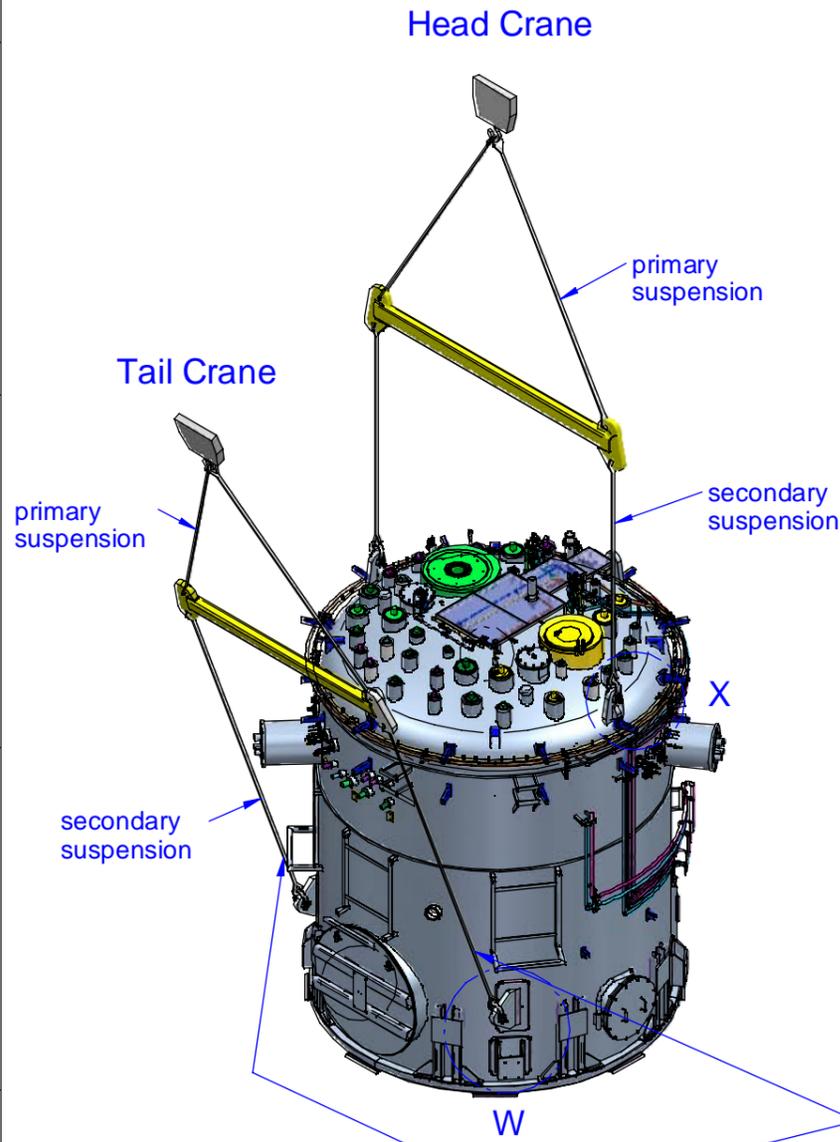
Lifting / tilting lug for transport



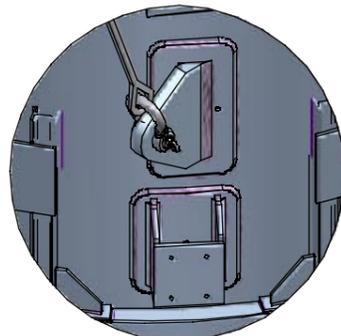
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Gepflicht / Inspected	Datum / Date	Benennung / Title	
Jason Besmer	18.04.2024	ACB-4-PF Transport	
Erstellt / Created	Datum / Date	ACB-4-PF Transport	
Tim Benz	18.05.2020		
 Linde Kyotechnik AG		Format / Size	Zeichnungsnummer / Drawing number
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		Projection	Sheet / Revision
			3 / 7

Tilting the Cold box: Suspension Arrangement and Lifting Points

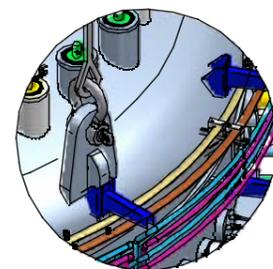
Transport company is responsible for the securing and stability of heavy goods during handling
 Transport company must ensure that the primary and secondary suspension is absolutely stable while tilting the cold box
 Transport company must use appropriate lifting equipment



Make sure that the slings between the spreader beams and the lifting lugs do not collide with parts of the cold box and cause damage.

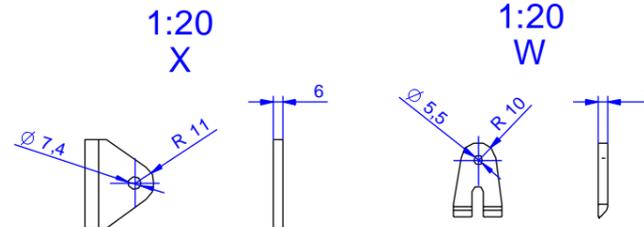


W
1:15

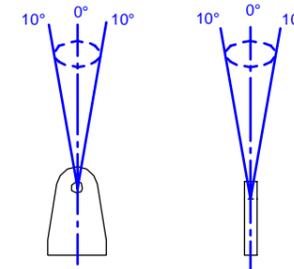


X
1:15

Lifting / tilting lug for transport

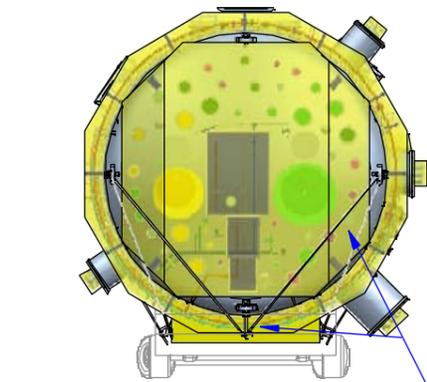


Lifting Lug max. diagonal pull 10° (spherical)

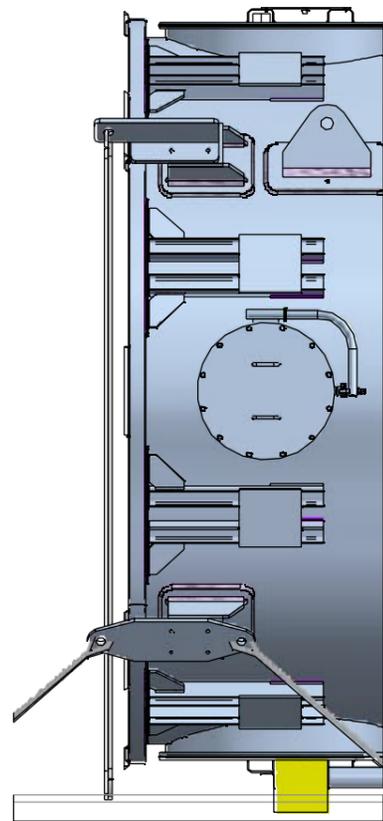
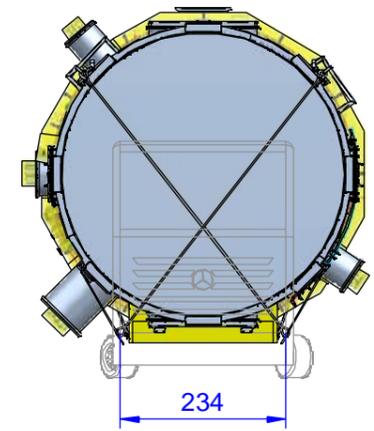
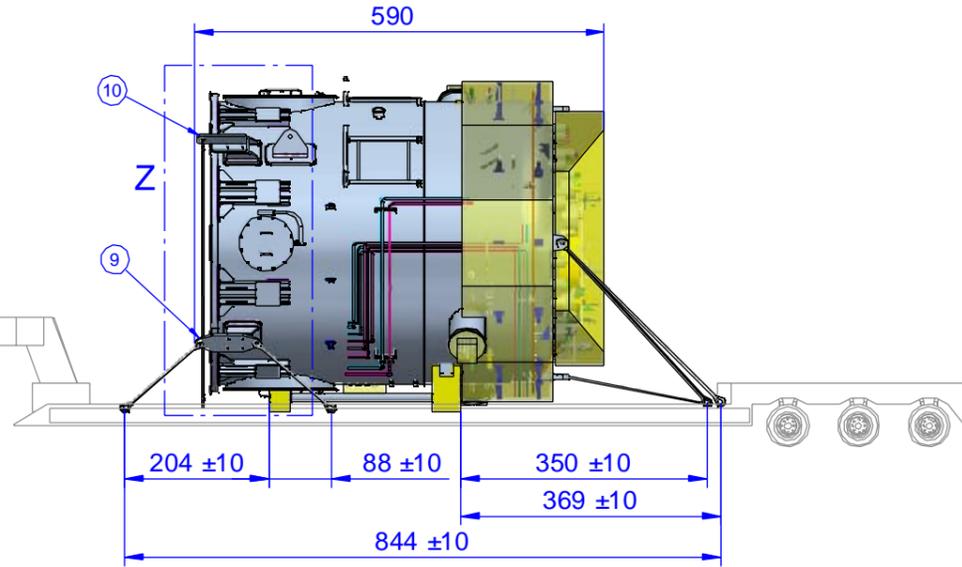
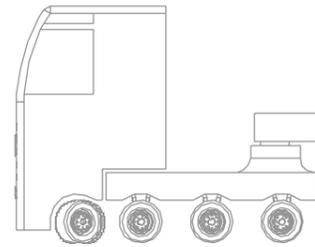


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Ronnie Baumann	17.04.2024	ITER-CD15	1:40
Freigegeben / Approved	Datum / Date	Teilsystem / T.Type	Bemerkungen / Remarks
Albert Meier	19.04.2024	343P00	for-fabrication
Gepflicht / Inspected	Datum / Date	Benennung / Title	
Jason Besmer	18.04.2024	ACB-4-PF Transport	
Erstellt / Created	Datum / Date	ACB-4-PF Transport	
Tim Benz	18.05.2020		
 Linde Kyotechnik AG		Format / Size	Zeichnungsnummer / Drawing number
		A1	200104185
		Sheet	Revision
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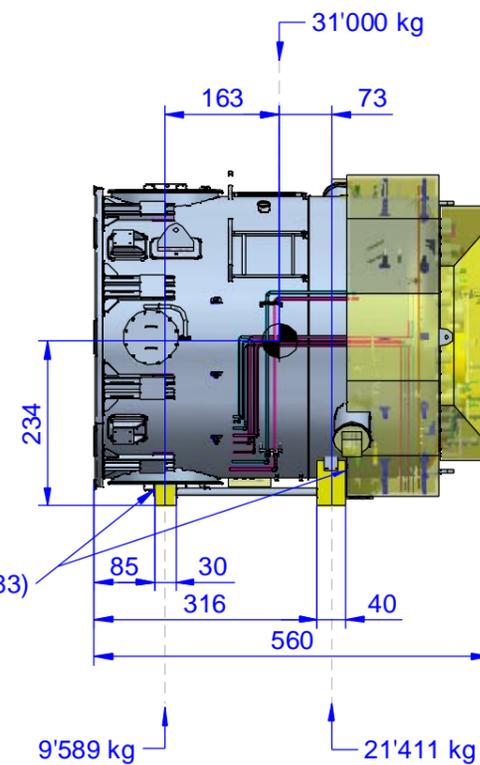
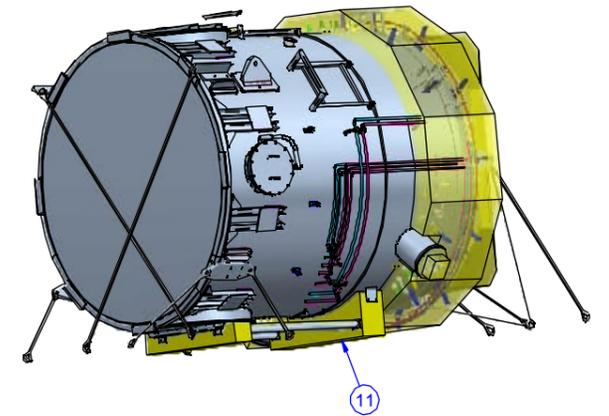
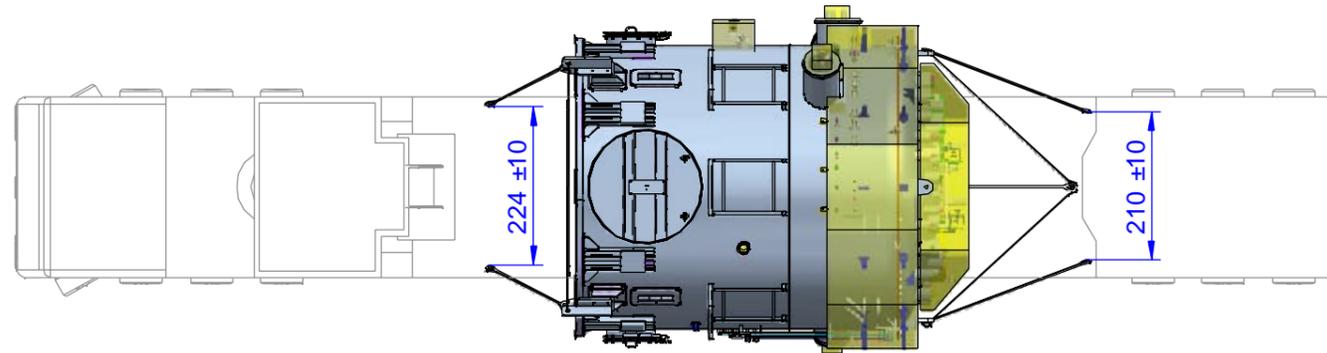
Orientation and lashing of Cold box on loading area of truck or Ship (dimension in cm)
 The truck shown is for illustration purposes only.



Provide recesses for lashing in the wood protection hood

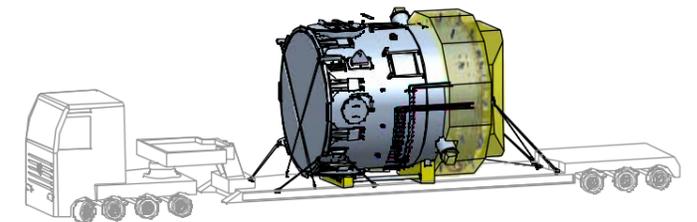


Z
1:20



Transport saddle (dwg 200104683) screwed to vacuum vessel (part of transport preparation)

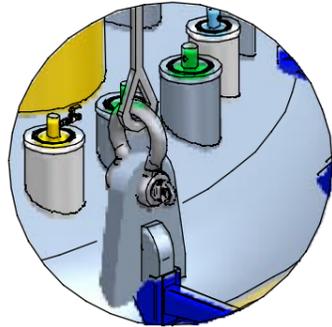
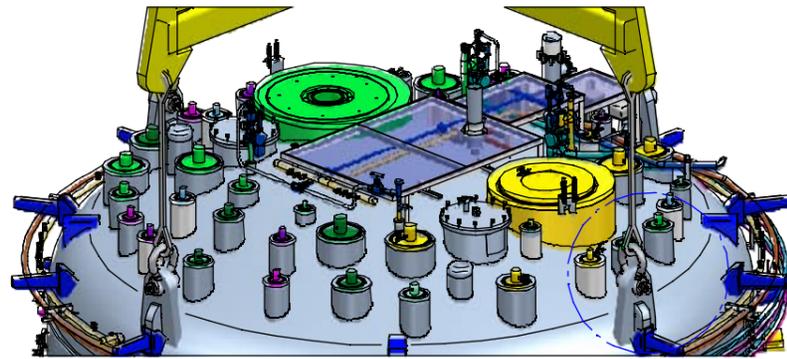
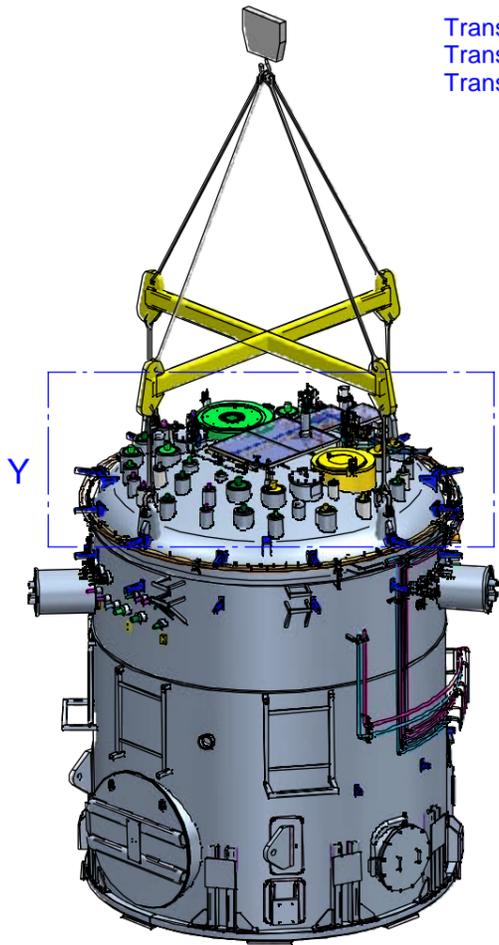
← Transport direction



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Ronnie Baumann	17.04.2024	ITER-CD15	1:50		29507.9 kg
Freigegeben / Approved	Datum / Date	Teilsystem / Type	Bemerkungen / Remarks		
Albert Meier	19.04.2024	343P00	for-fabrication		
Gepflicht / Inspected	Datum / Date	Benennung / Title			
Jason Besmer	18.04.2024	ACB-4-PF Transport			
Erstellt / Created	Datum / Date	ACB-4-PF Transport			
Tim Benz	18.05.2020				
Linde Linde Kyotech AG		Format / Size	Projection	Zeichnungsnummer / Drawing number	
		A1		200104185	
					Sheet / Revision
					5 / 7

Lifting of Cold box

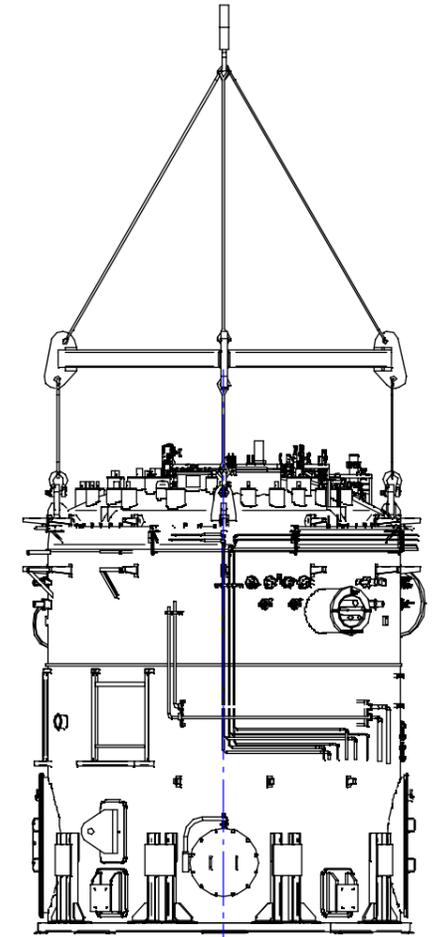
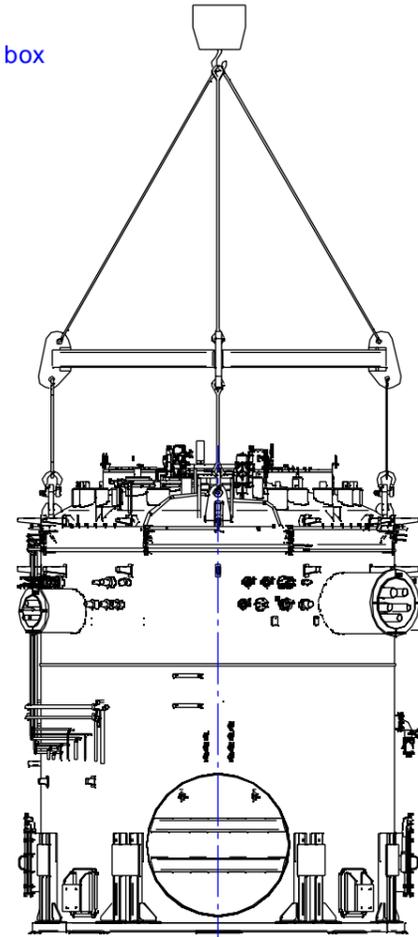
Transport company is responsible for the securing and stability of heavy goods during handling
 Transport company must ensure that the primary and secondary suspension is absolutely stable while tilting the cold box
 Transport company must use appropriate lifting equipment



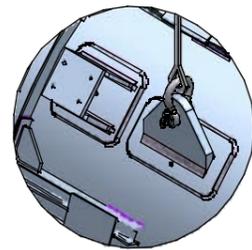
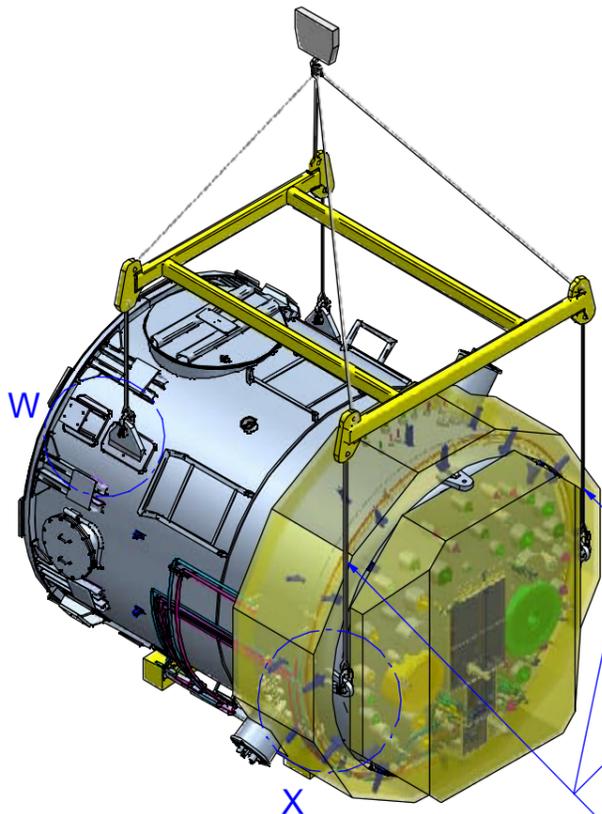
V
1:10

Y
1:20

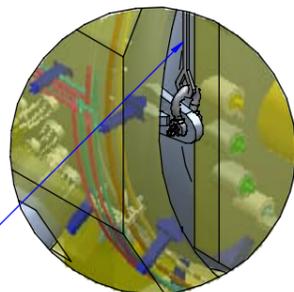
V



Lifting / tilting lug for transport

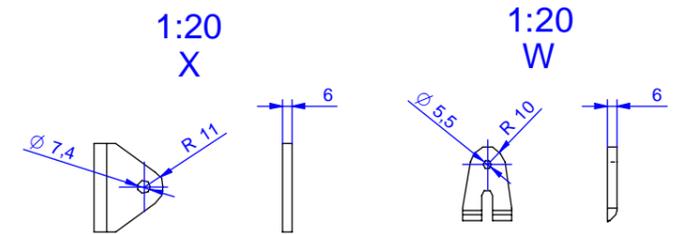
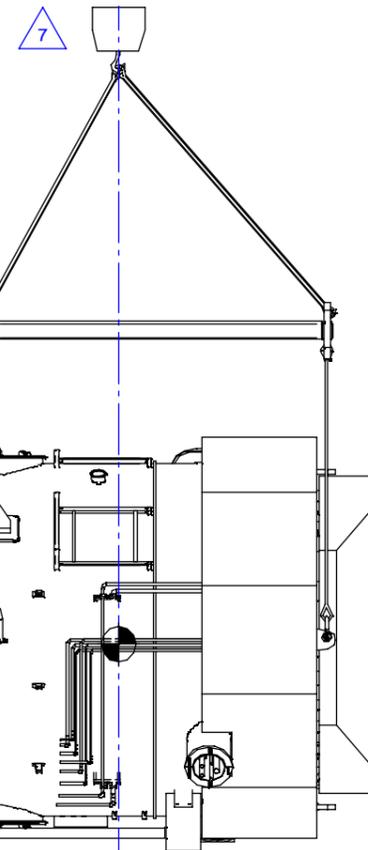
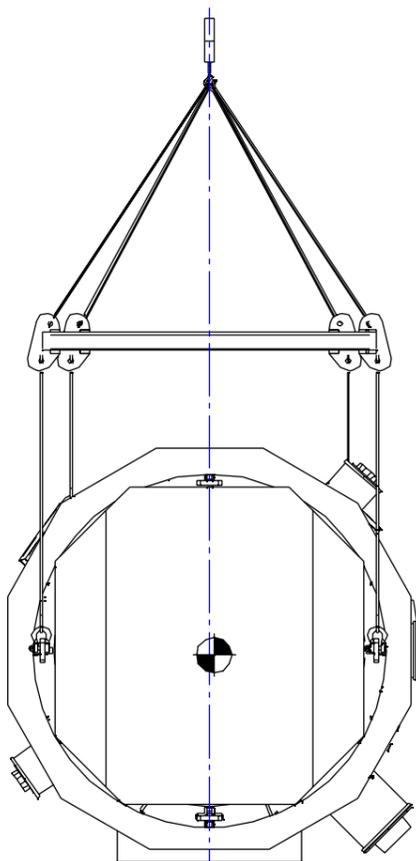


W
1:20

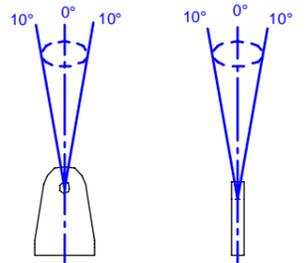


X
1:20

Ensure that the slings connecting the beam or spreader to the lifting lug do not collide with the cold box and cause damage

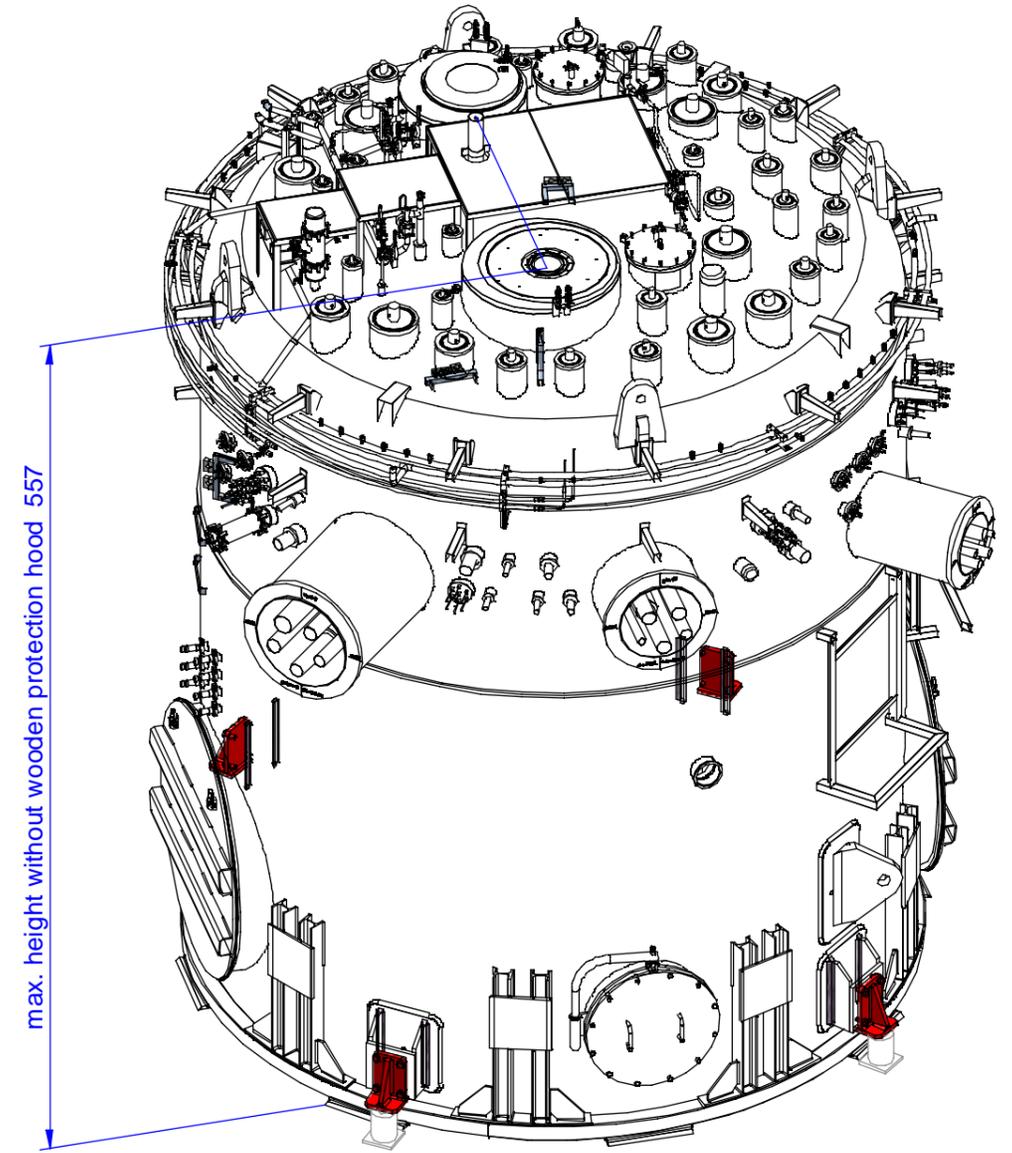
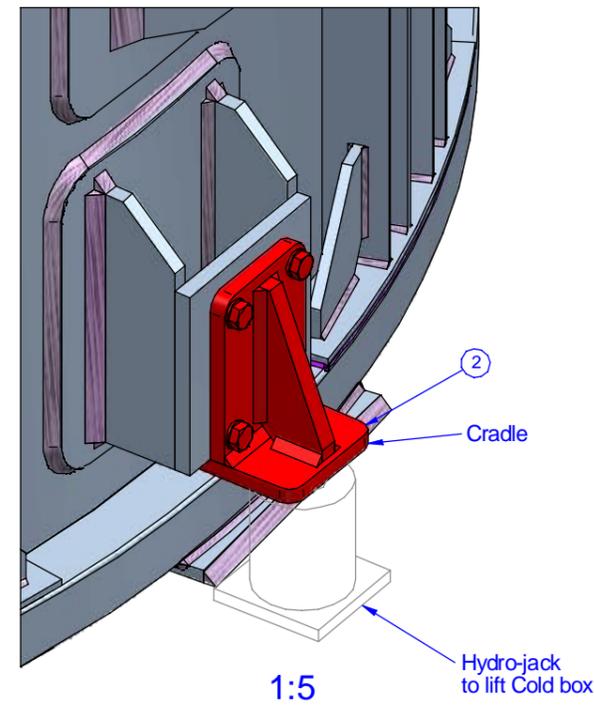
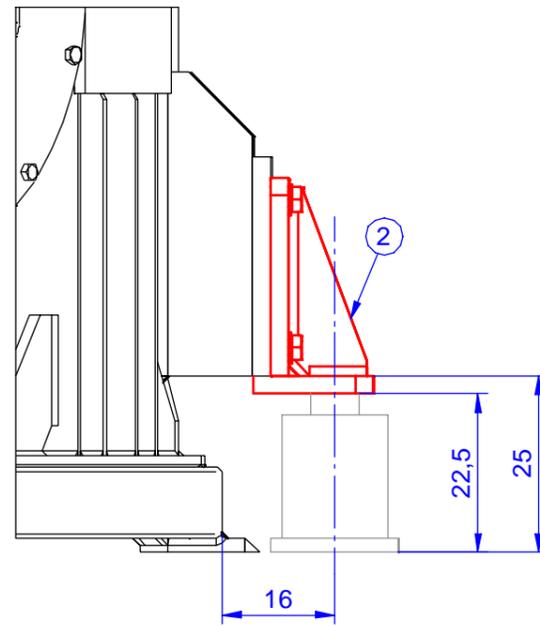
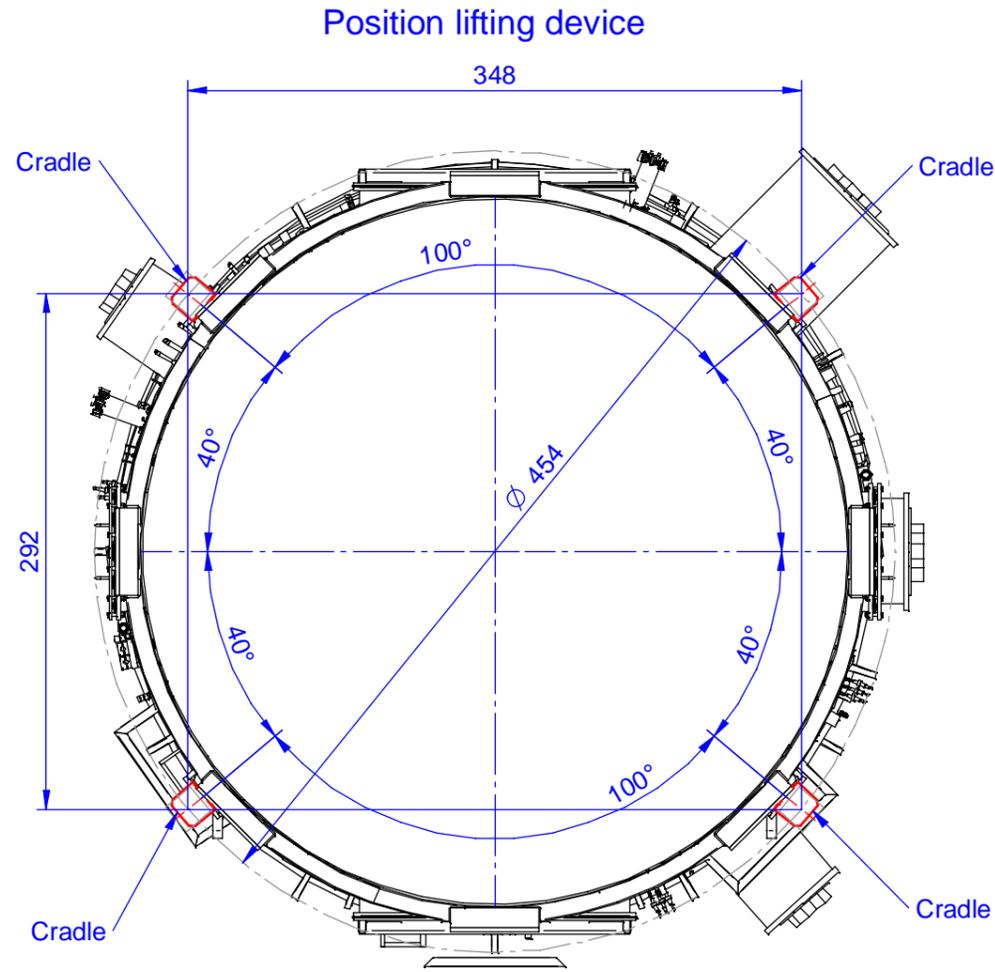


Lifting Lug max. diagonal pull 10° (spherical)



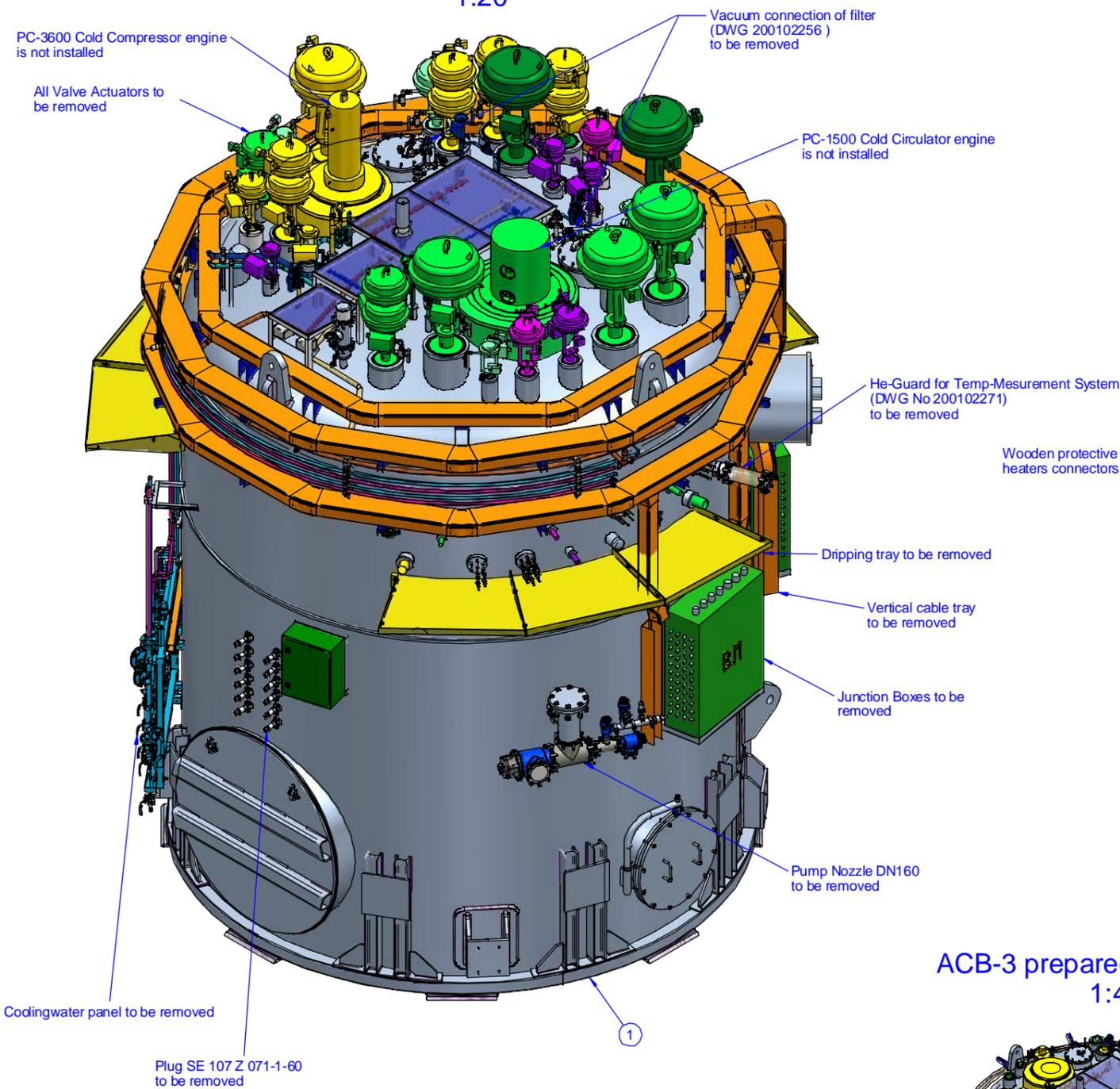
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Freigegeben / Approved	Datum / Date	Teilsystem / T.Type	Bemerkungen / Remarks
Albert Meier	19.04.2024	343P00	for-fabrication
Gepflicht / Inspected	Datum / Date	Benennung / Title	
Jason Besmer	18.04.2024	ACB-4-PF Transport	
Erstellt / Created	Datum / Date	ACB-4-PF Transport	
Tim Benz	18.05.2020		
Linde Linde Kyototechnik AG		Format / Size	Zeichnungsnummer / Drawing number
		A1	200104185
		Sheet	Revision
		6	7

Position of transport cradles (dimensions in cm)

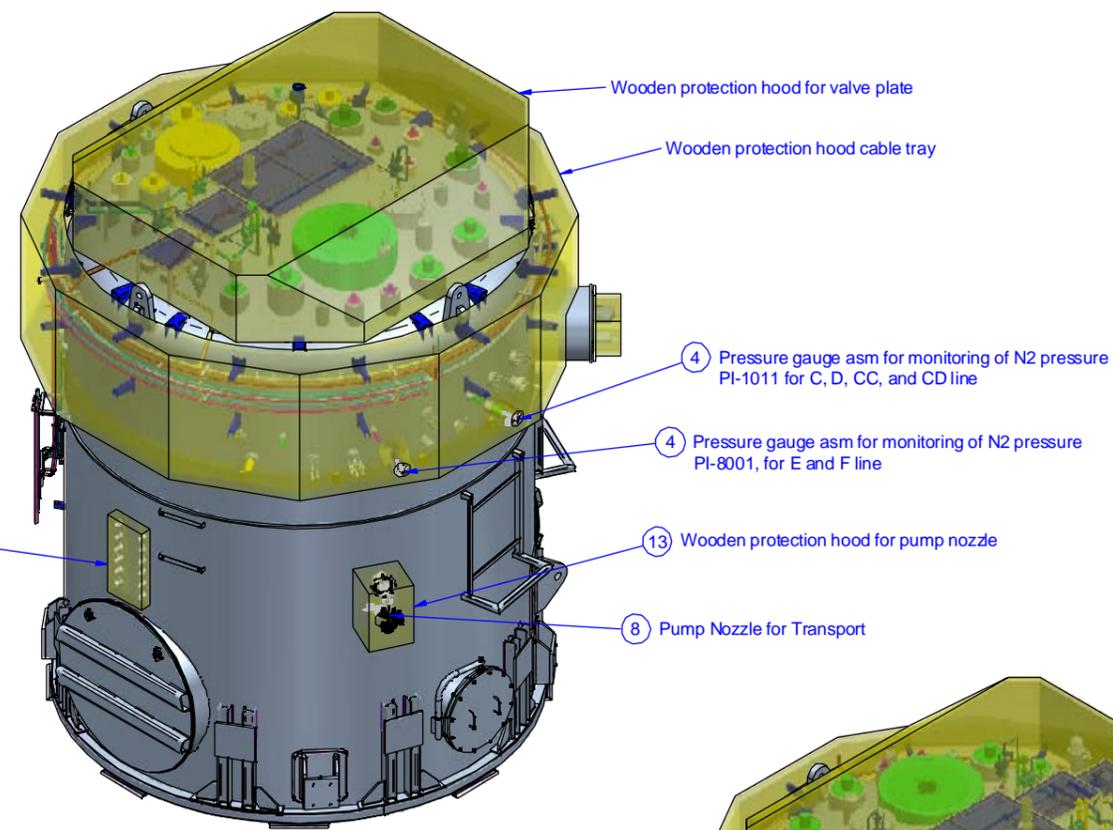


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Ronnie Baumann	17.04.2024	ITER-CD15	1:20
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Albert Meier	19.04.2024	343P00	for-fabrication
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Jason Besmer	18.04.2024	ACB-4-PF Transport	
Erstellt / Created	Datum / Date	ACB-4-PF Transport	
Tim Benz	18.05.2020		
 Linde Kyotech AG		Format / Size	Zeichnungsnummer / Drawing number
		A1	200104185
			Sheet / Revision
			7 / 7

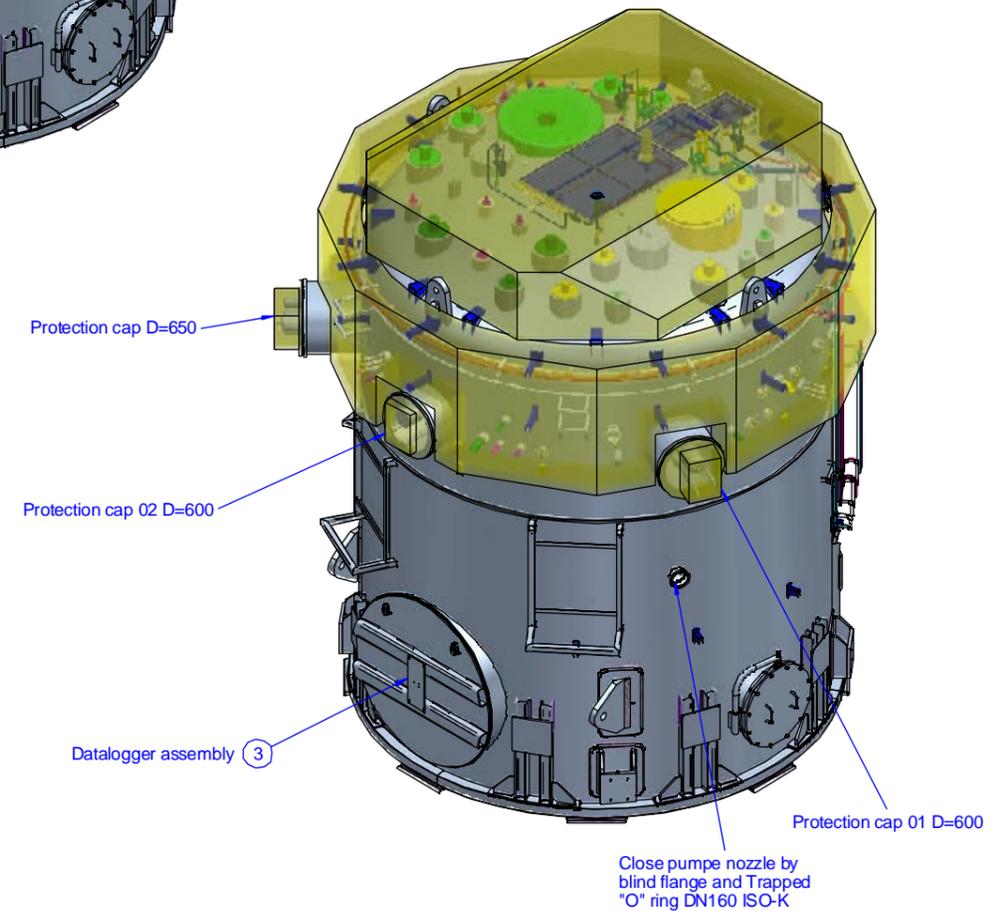
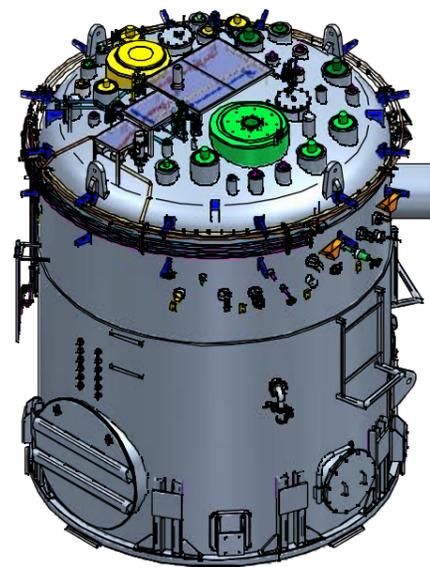
ACB-3 complete
1:20



ACB-3 prepared for transport
protection & N2-filling

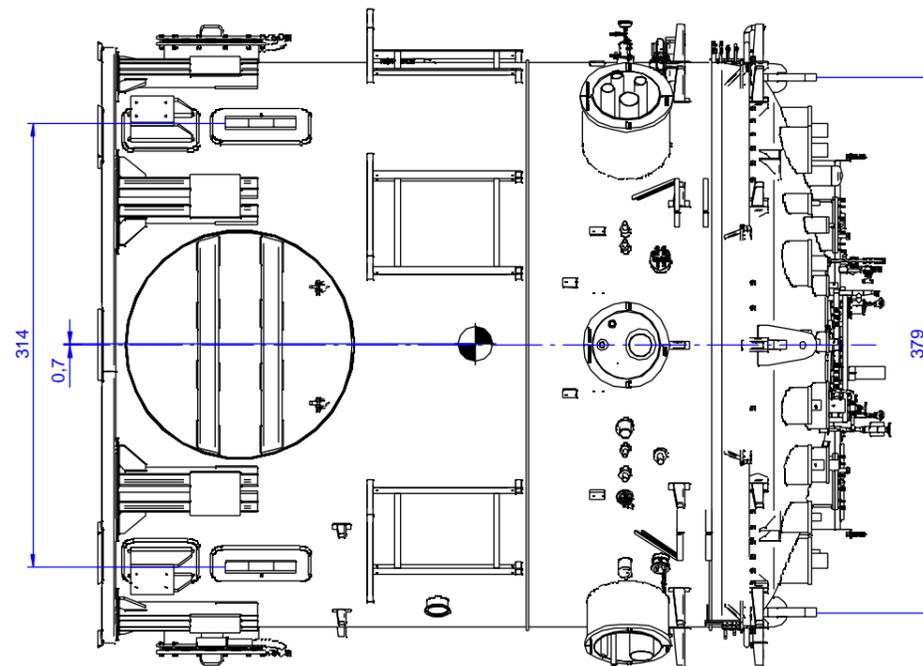
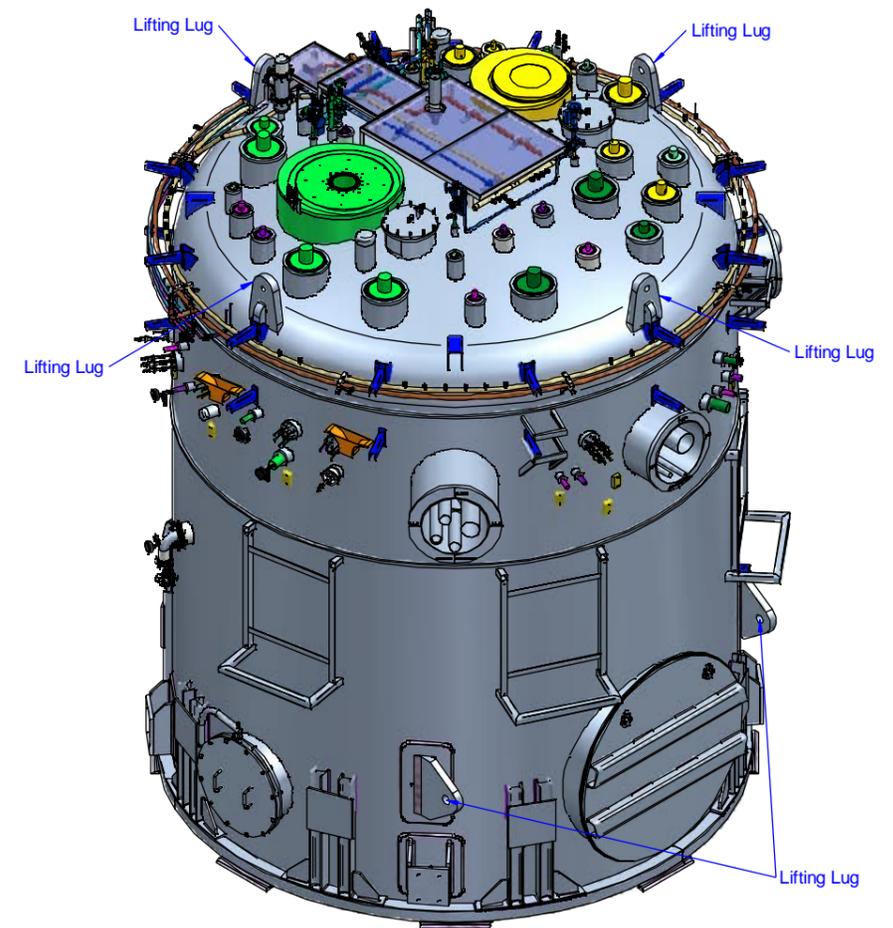
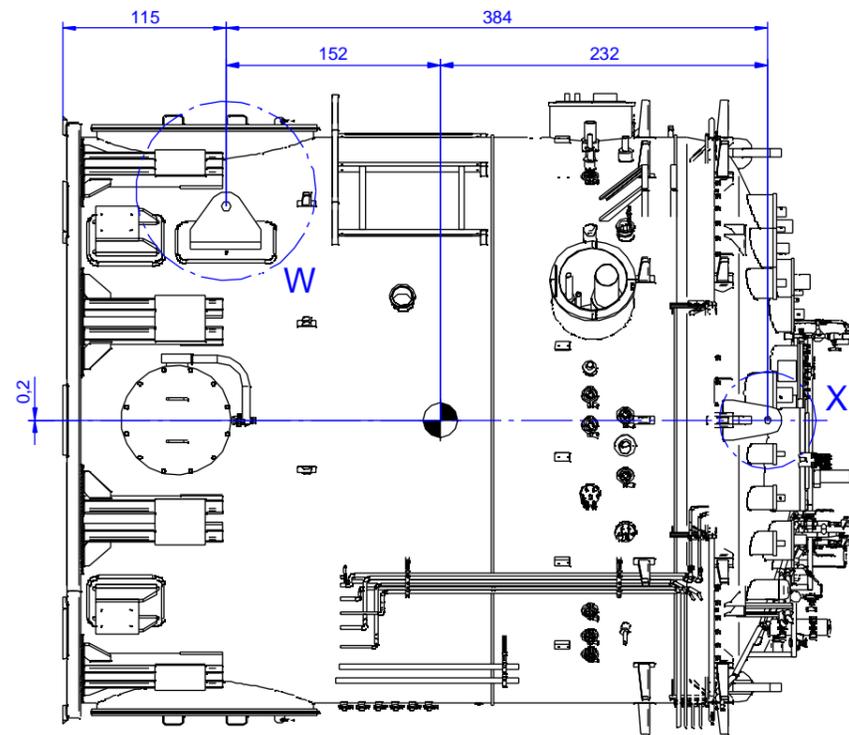
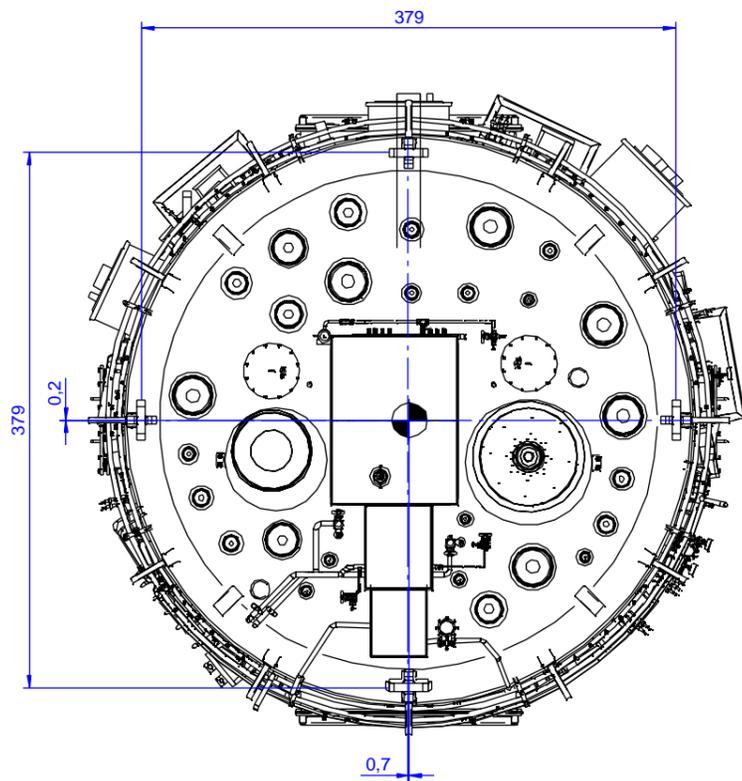


ACB-3 prepared for transport
1:40

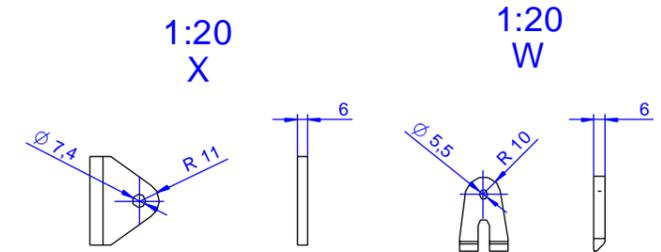


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Ronnie Baumann	17.04.2024	ITER-CD15	1:30
Freigegeben / Approved	Datum / Date	Teilsystem / Type	Bemerkungen / Remarks
Albert Meier	19.04.2024	343S00	for-fabrication
Gepflicht / Inspected	Datum / Date	Benennung / Title	
Jason Besmer	18.04.2024	ACB-3-ST Transport	
Erstellt / Created	Datum / Date	ACB-3-ST Transport	
Tim Benz	18.05.2020		
Linde Linde Kyotechnik AG		Format / Size	Zeichnungsnummer / Drawing number
		A1	200104186
		Projection	Sheet / Revision
		1st Angle	2 / 6

Position of Lifting Lugs and Center of Gravity (CoG)



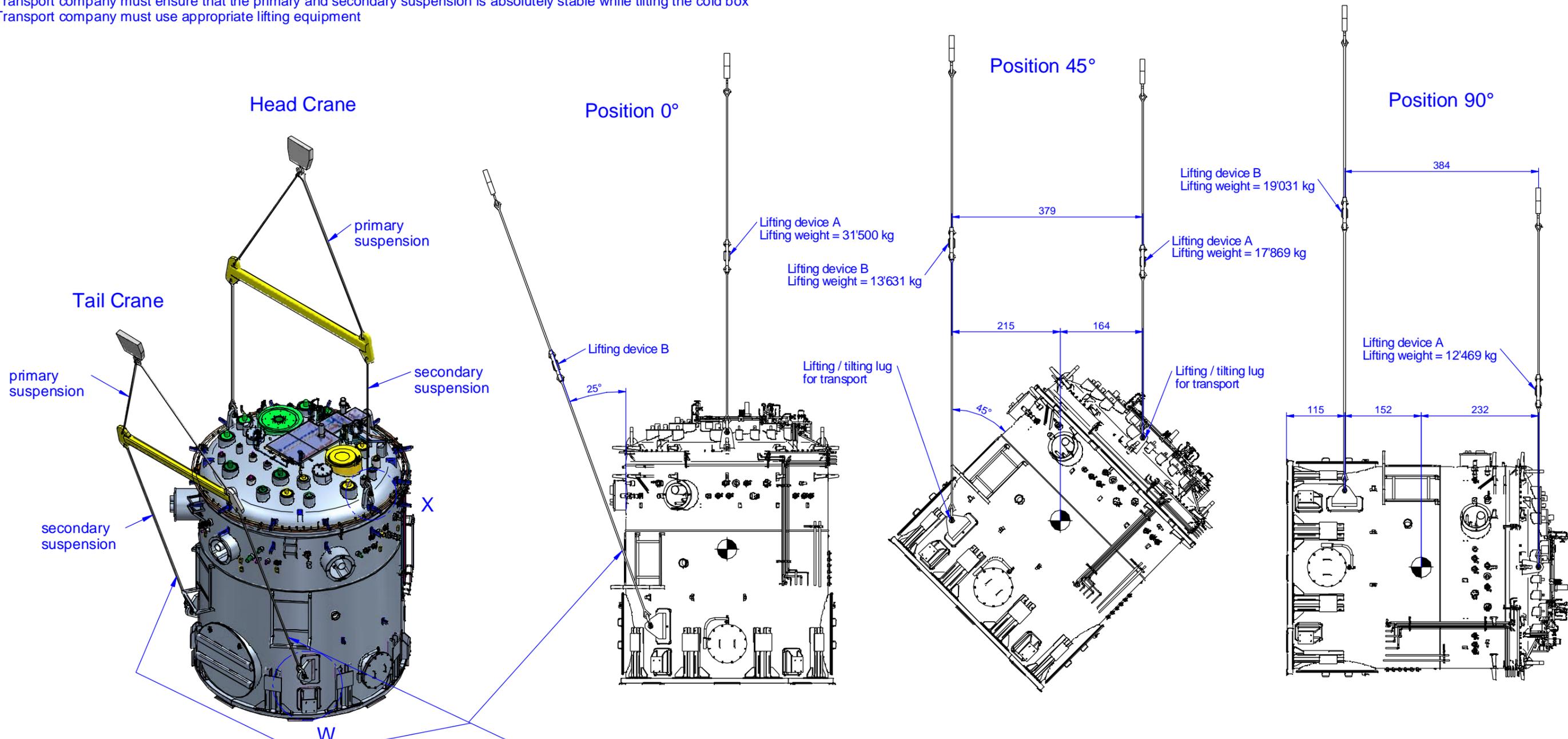
Lifting / tilting lug for transport



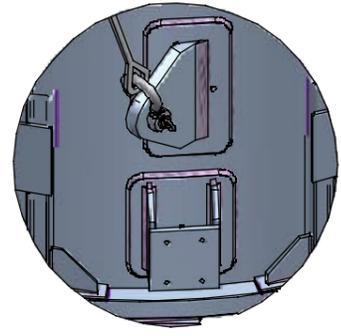
Das Urheberrecht an dieser Zeichnung, die dem Empfänger persönlich anvertraut wird, verbleibt unserer Firma. Ohne unsere schriftliche Genehmigung darf die Zeichnung weder kopiert noch vervielfältigt, noch Dritten ohne unsere schriftliche Genehmigung zugänglich gemacht werden.		This drawing is entrusted to the recipient personally, but the copyright remains with us. It must not be copied, reproduced or in any way communicated or made accessible to third parties without our written consent.	
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Ronnie Baumann	17.04.2024	ITER-CD15	1:25
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Gepflicht / Inspected	Datum / Date	Benennung / Title	
Jason Besmer	18.04.2024	ACB-3-ST Transport	
Erstellt / Created	Datum / Date	ACB-3-ST Transport	
Tim Benz	18.05.2020		
 Linde Kyototechnik AG		Format / Size	Zeichnungsnummer / Drawing number
		A1	200104186
		Blatt / Sheet	Revision
		3	6

Tilting the Cold box: Suspension Arrangement and Lifting Points

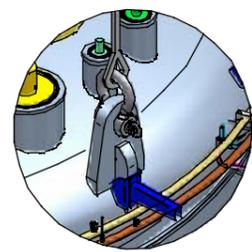
Transport company is responsible for the securing and stability of heavy goods during handling
 Transport company must ensure that the primary and secondary suspension is absolutely stable while tilting the cold box
 Transport company must use appropriate lifting equipment



Make sure that the slings between the spreader beams and the lifting lugs do not collide with parts of the cold box and cause damage.

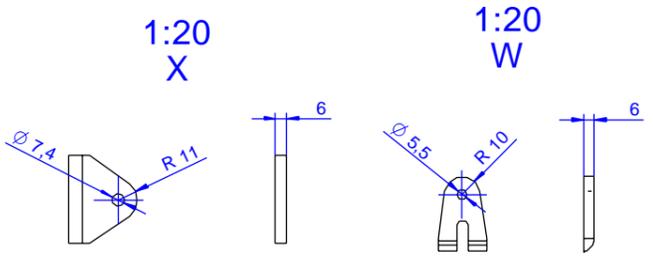


W
1:15

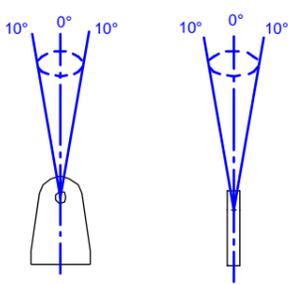


X
1:15

Lifting / tilting lug for transport

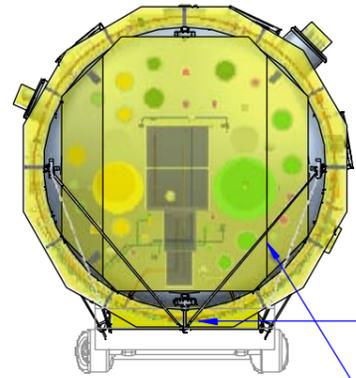


Lifting Lug max. diagonal pull 10° (spherical)

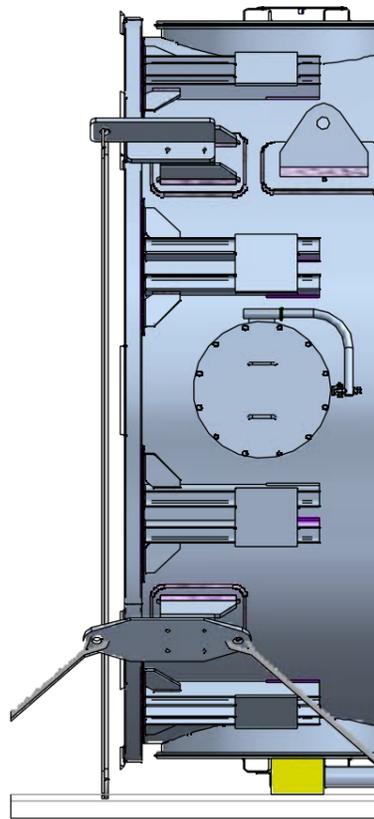
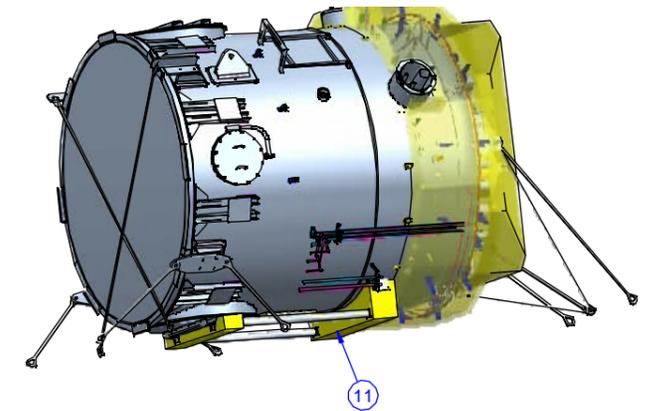
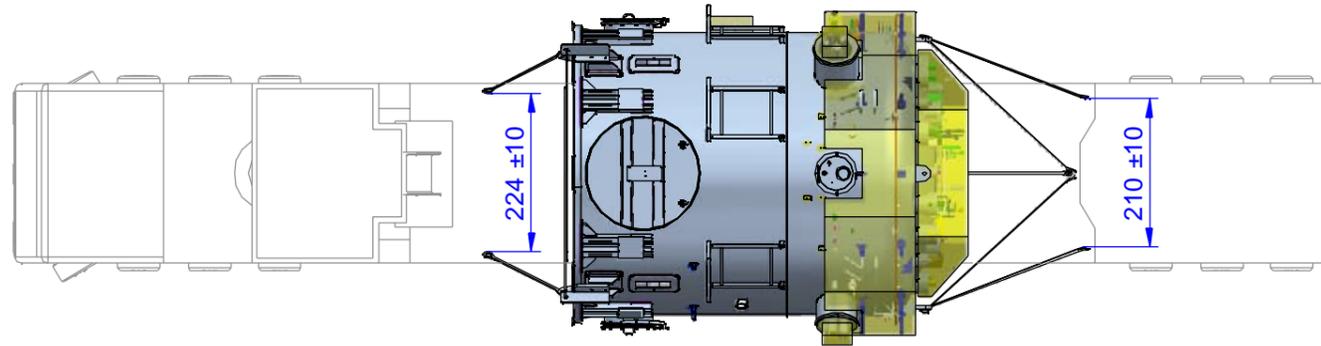
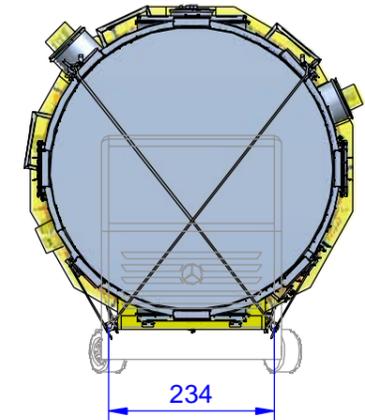
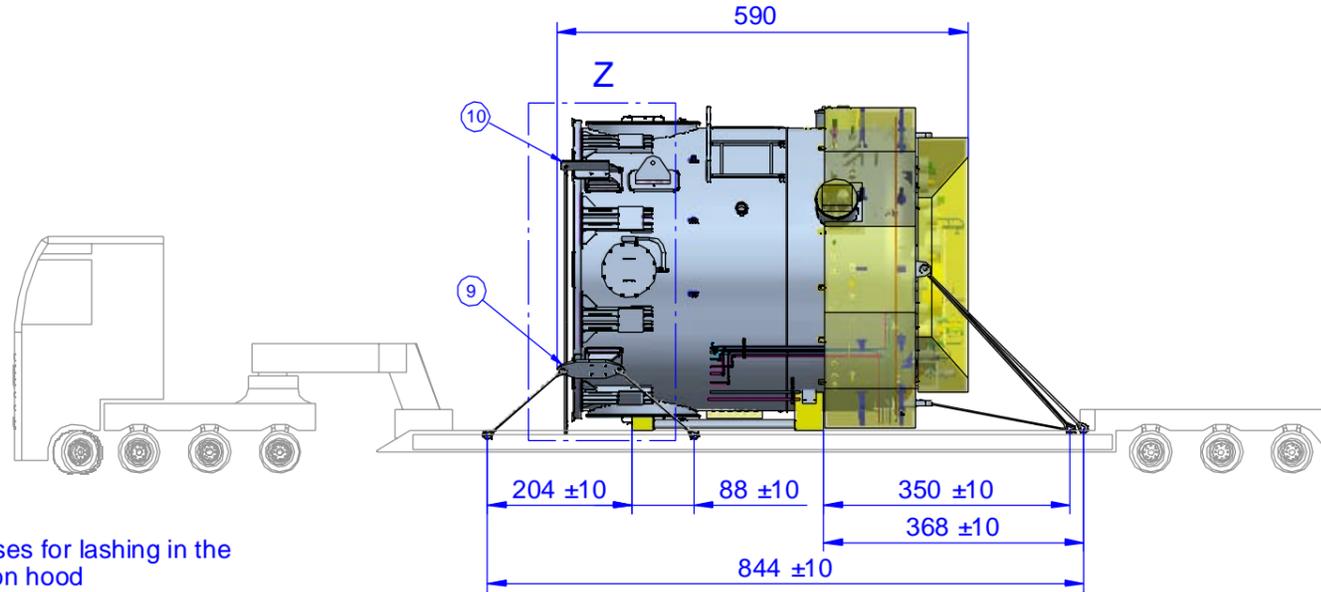


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Freigegeben / Approved	Datum / Date	Teilsystem / T type	Bemerkungen / Remarks
Albert Meier	19.04.2024	343S00	for-fabrication
Gepflicht / Inspected	Datum / Date	Benennung / Title	
Jason Besmer	18.04.2024	ACB-3-ST Transport	
Erstellt / Created	Datum / Date	ACB-3-ST Transport	
Tim Benz	18.05.2020		
Linde Kyotech AG		Format / Size	Zeichnungsnummer / Drawing number
		A1	200104186
			Sheet / Revision
			4 / 6

Orientation and lashing of Cold box on loading area of truck or Ship (dimension in cm)
 The truck shown is for illustration purposes only.

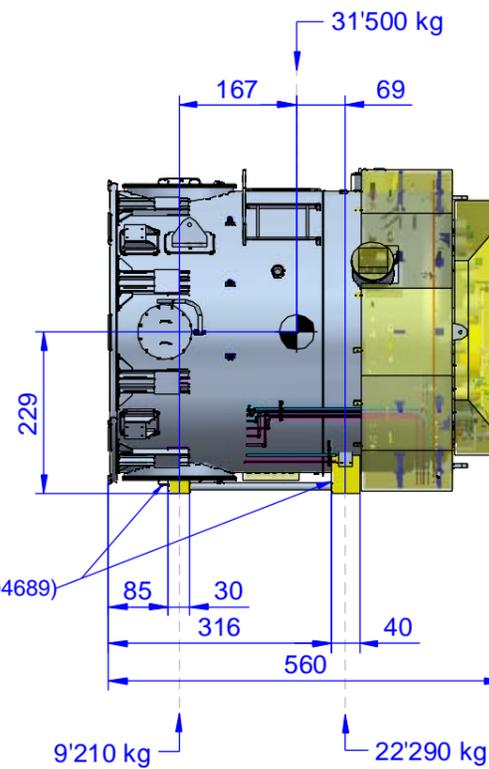


Provide recesses for lashing in the wood protection hood

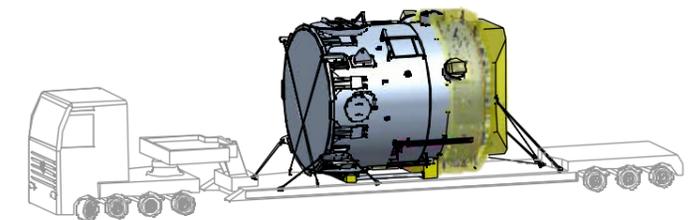


Z
1:20

Transport saddle (dwg 200104689) screwed to vacuum vessel (part of transport preparation)



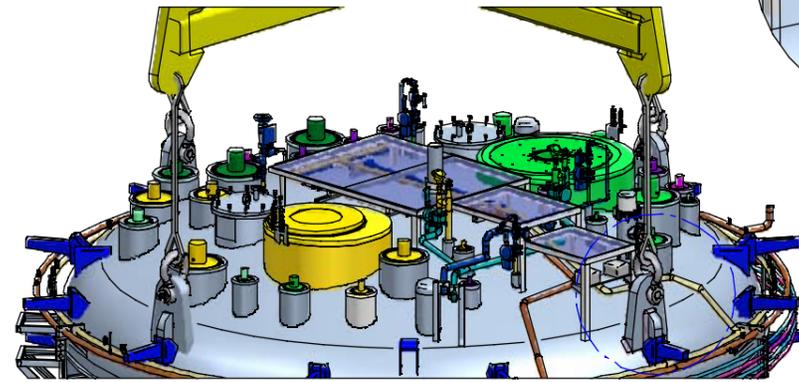
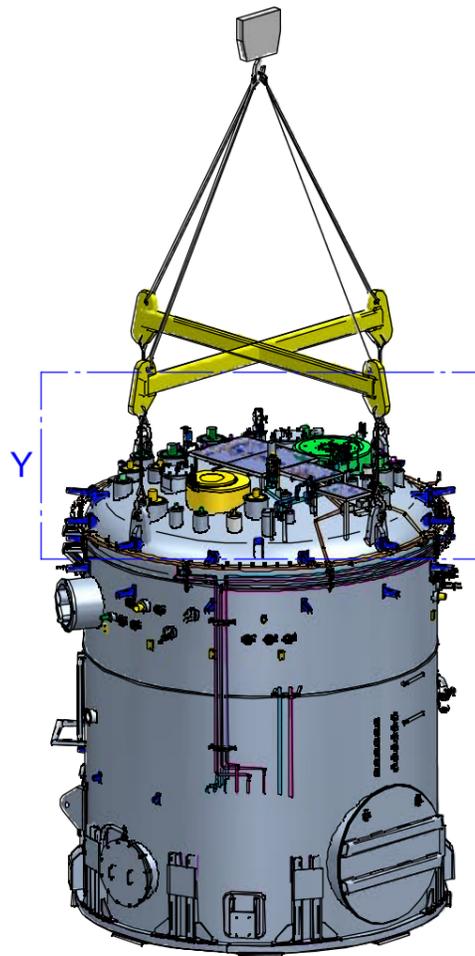
← Transport direction



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Gepflicht / Inspected	Datum / Date	Bemerkungen / Remarks	
Jason Besmer	18.04.2024	for-fabrication	
Erstellt / Created	Datum / Date	Benennung / Title	
Tim Benz	18.05.2020	ACB-3-ST Transport ACB-3-ST Transport	
Linde Linde Kyototechnik AG		Format / Size	Zeichnungsnummer / Drawing number
		A1	200104186
			Sheet / Revision
			5 / 6

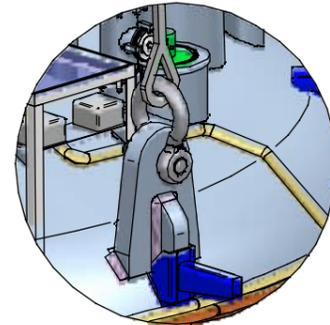
Lifting of Cold box

Transport company is responsible for the securing and stability of heavy goods during handling
 Transport company must ensure that the primary and secondary suspension is absolutely stable while tilting the cold box
 Transport company must use appropriate lifting equipment

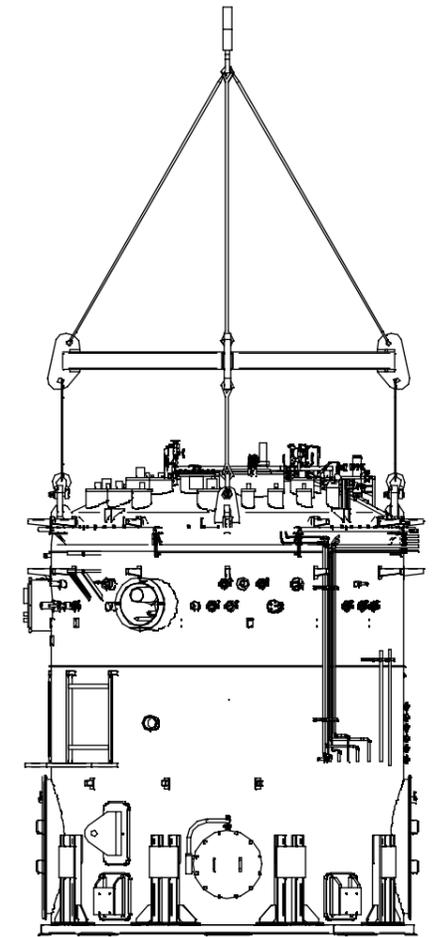
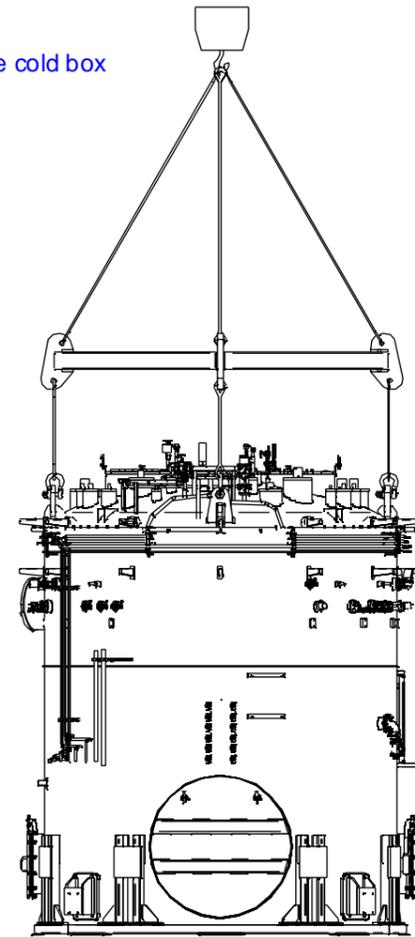


Y
1:20

V



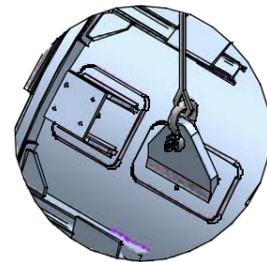
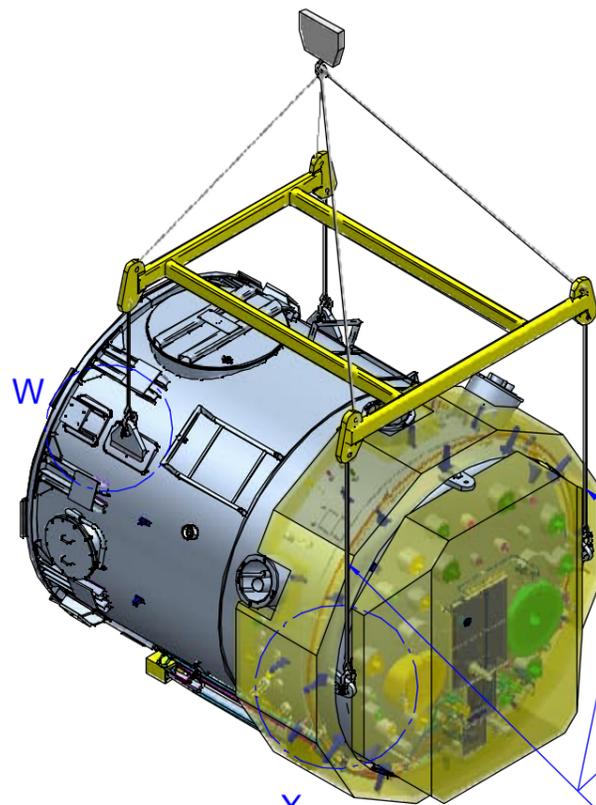
V
1:10



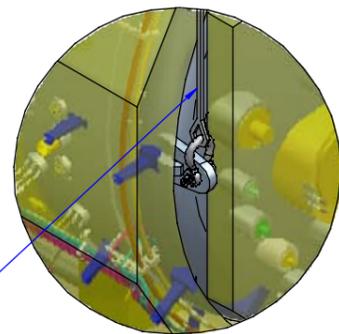
Lifting / tilting lug for transport

1:20
X

1:20
W

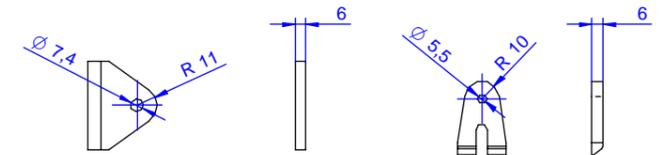
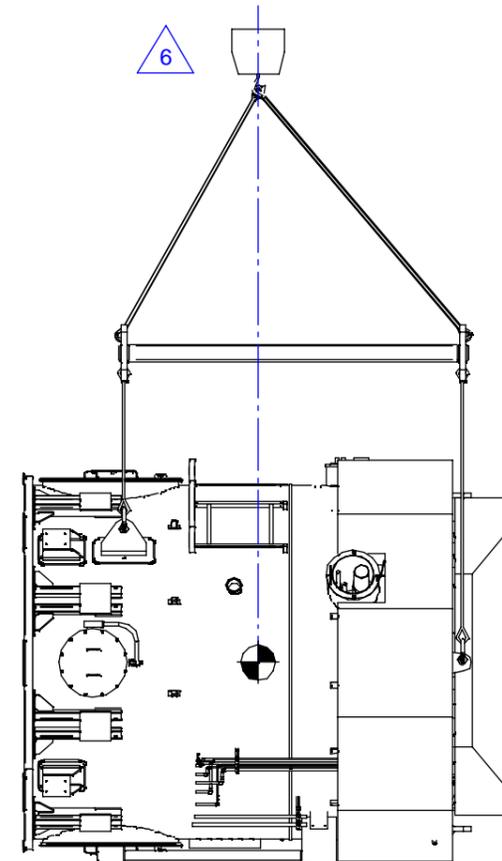
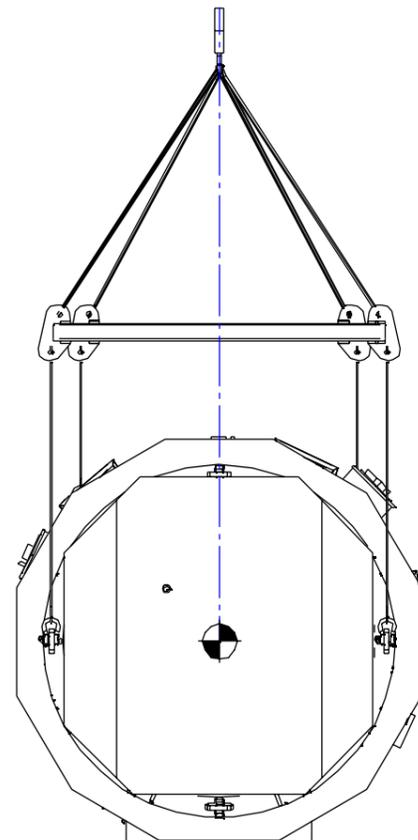


W
1:20

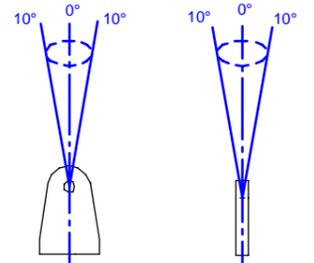


X
1:20

Ensure that the slings connecting the beam or spreader to the lifting lug do not collide with the cold box and cause damage

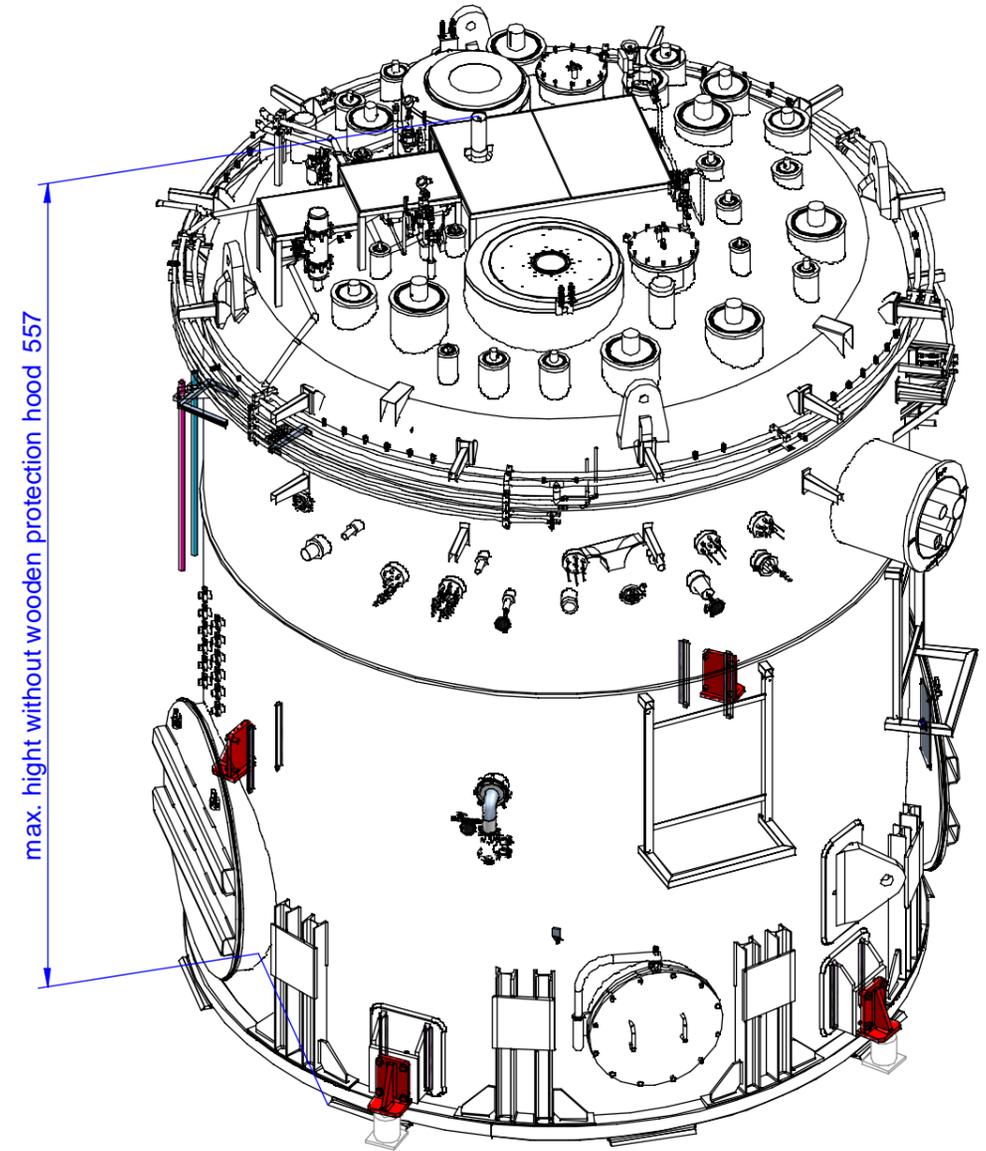
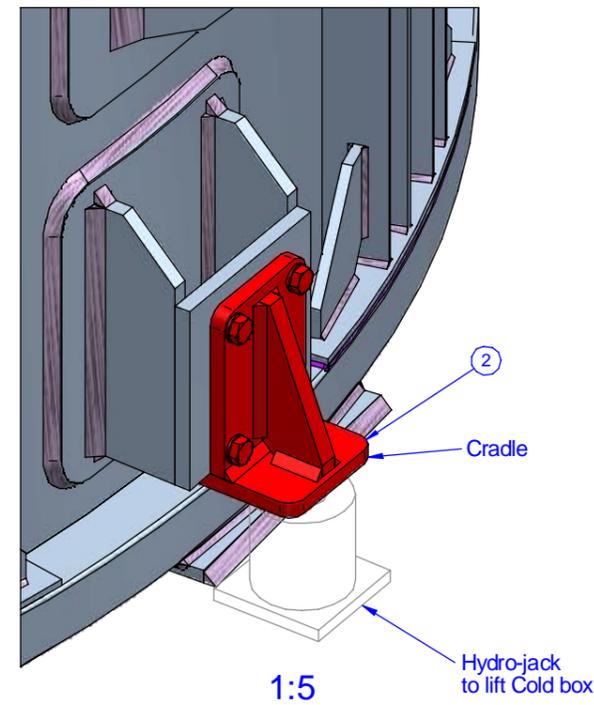
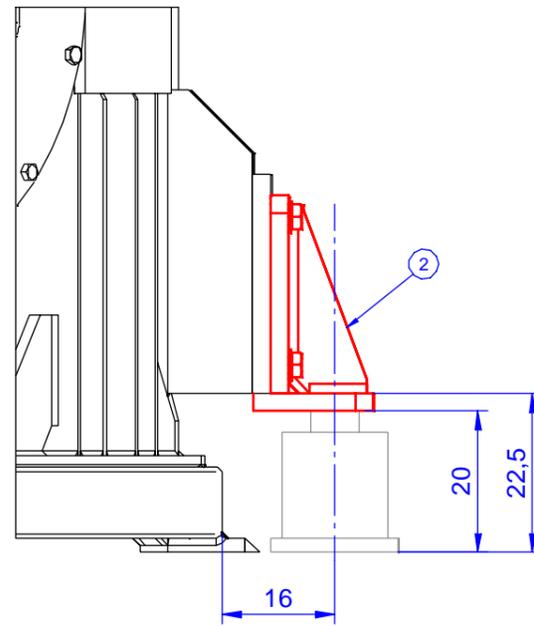
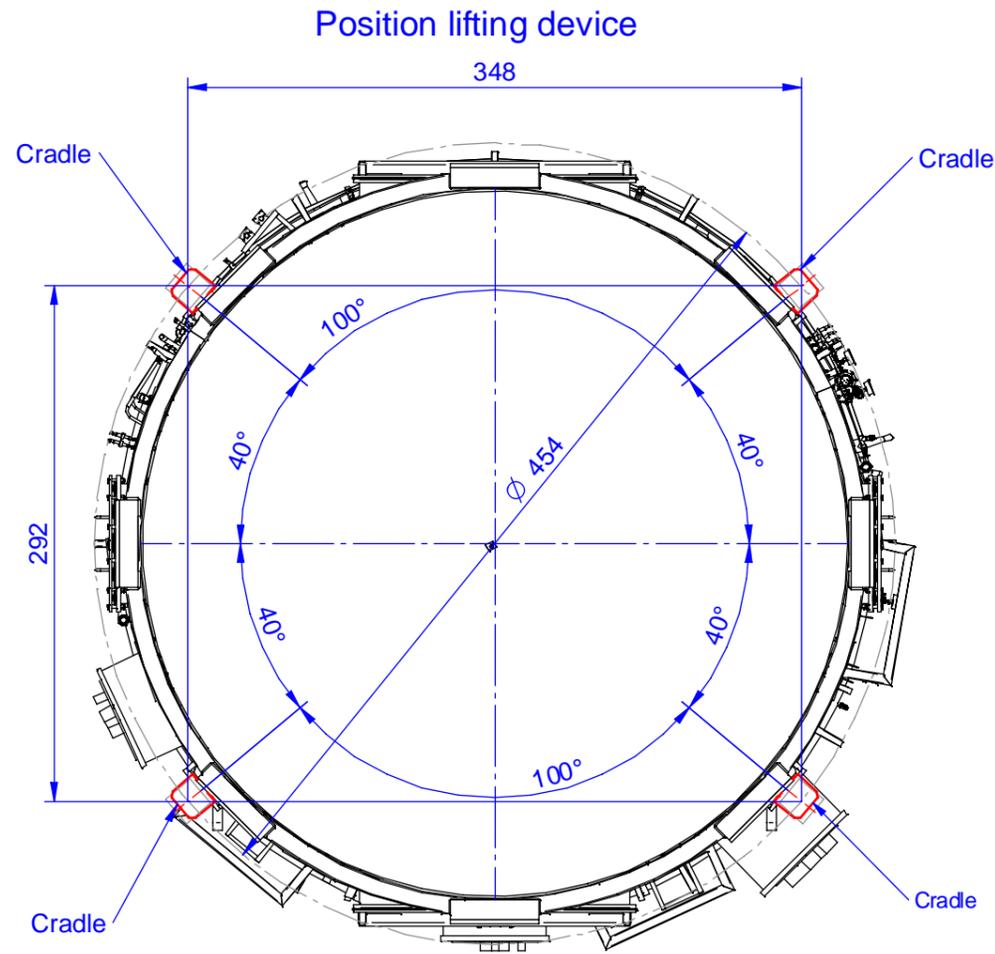


Lifting Lug max. diagonal pull 10° (spherical)



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Ronnie Baumann	17.04.2024	ITER-CD15	1:40
Freigegeben / Approved	Datum / Date	Teilsystem / Type	Bemerkungen / Remarks
Albert Meier	19.04.2024	343S00	for-fabrication
Gepflicht / Inspected	Datum / Date	Benennung / Title	
Jason Besmer	18.04.2024	ACB-3-ST Transport	
Erstellt / Created	Datum / Date	ACB-3-ST Transport	
Tim Benz	18.05.2020		
Linde Linde Kyototechnik AG		Format / Size A1	Zeichnungsnummer / Drawing number 200104186
		Sheet 6	Revision 6

Position of transport cradles (dimensions in cm)



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Freigegeben / Approved	Datum / Date	Teilsystem / T type	Bemerkungen / Remarks
Albert Meier	19.04.2024	343S00	for-fabrication
Gepflicht / Inspected	Datum / Date	Benennung / Title	
Jason Besmer	18.04.2024	ACB-3-ST Transport	
Erstellt / Created	Datum / Date	ACB-3-ST Transport	
Tim Benz	18.05.2020		
 Linde Kyotechnik AG		Format / Size	Zeichnungsnummer / Drawing number
		A1	200104186
			Sheet / Revision
			7 / 6