



SÜSS MICROTEC HBD SYSTEM



STATUS UPDATE

SÜSS MICROTEC HBD SYSTEM

2020-01-23 +DECISIONS

SLIDING + DOCKING

CONTENT

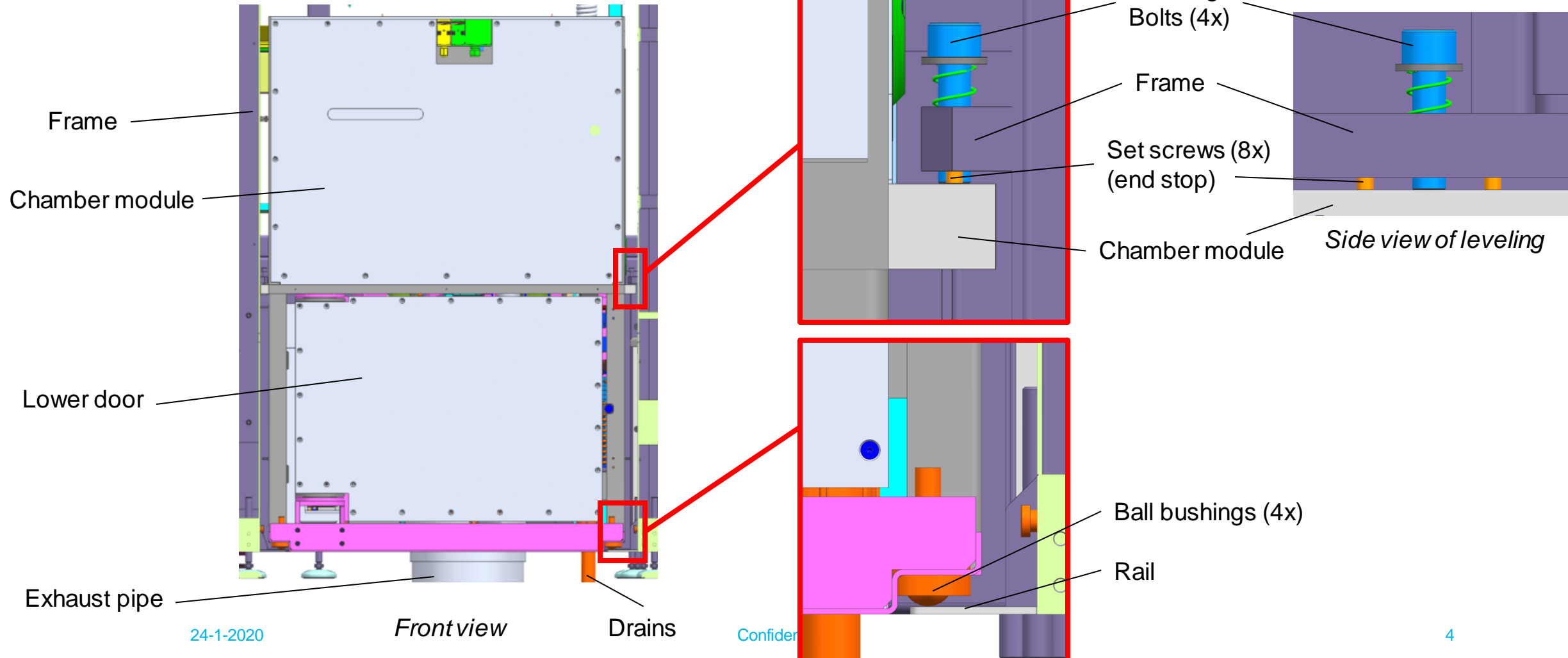
- Overview of current Sliding/Docking/Leveling
- Degrees of Freedom
- Way of working current Sliding/Docking/Leveling
 - Pulling out Chamber module
 - Pushing in Chamber module
- Concept 1
- Concept 2A
- Concept 2B

**DECISION P357-DM-31
FRONT LOADING IS OUT**

**DECISION P357-DM-32
EXHAUST COUPLING OF CHAMBER
MODULE IS RESPONSIBILITY OF
SÜSS**

OVERVIEW SLIDING/DOCKING/LEVELLING

CURRENT MAIN PROCESS TOOL

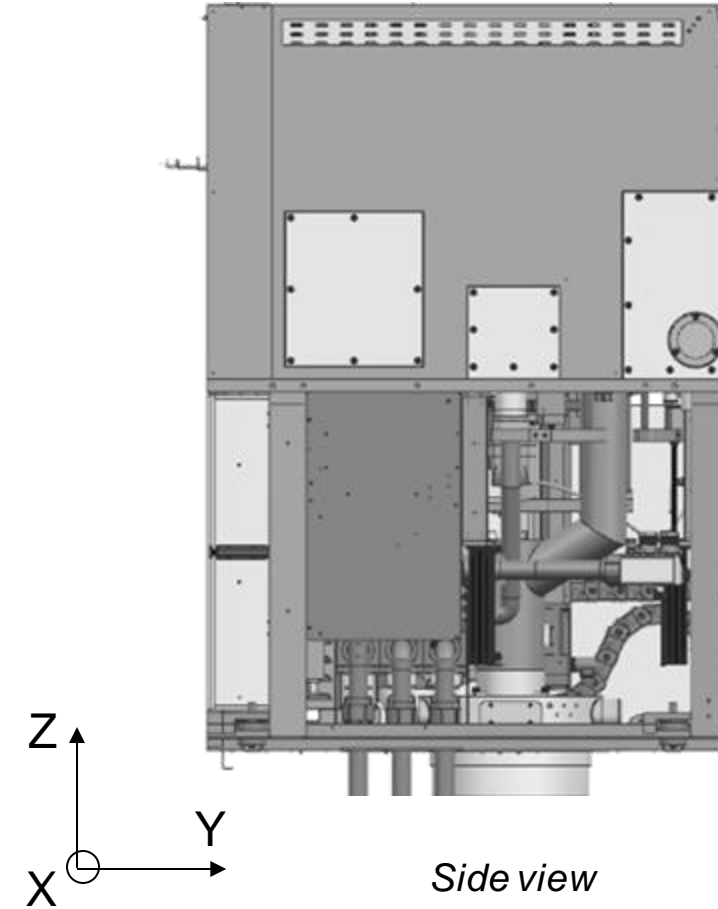
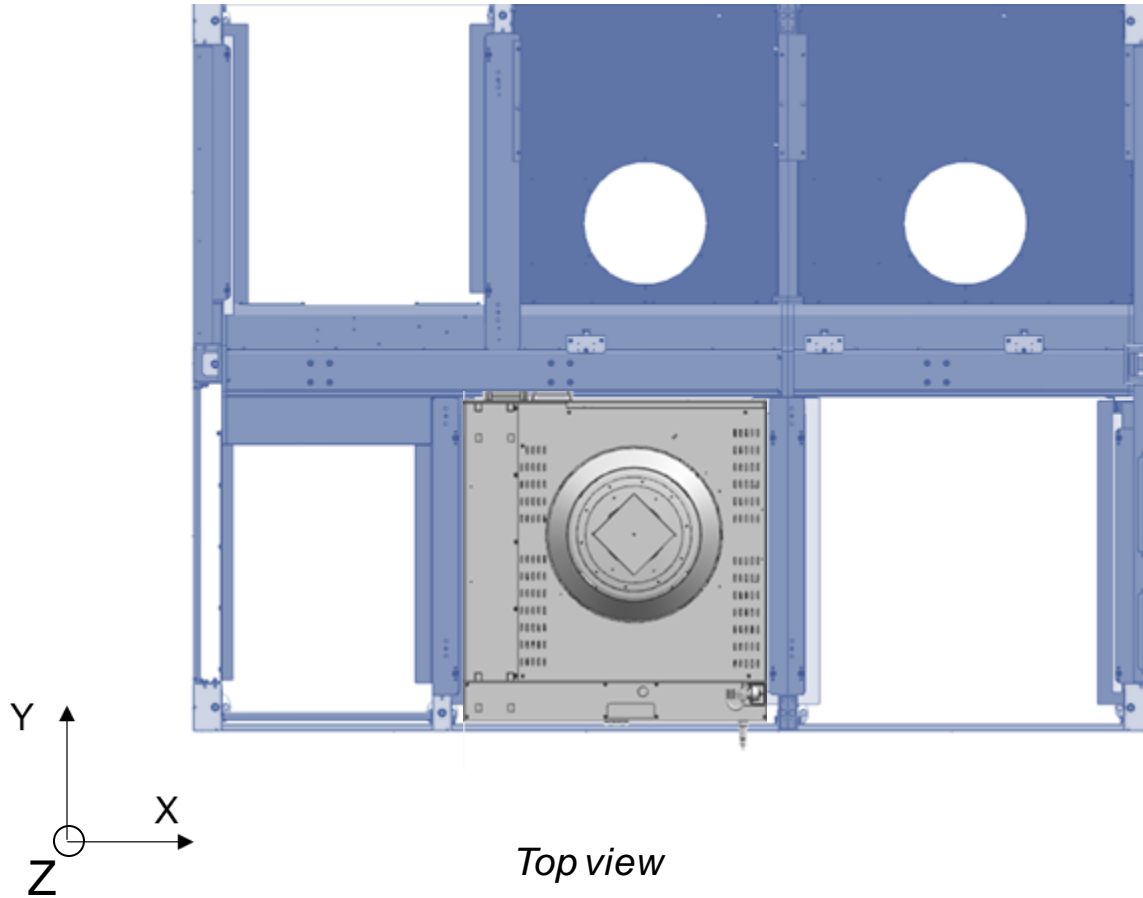


DEGREES OF FREEDOM

CURRENT MAIN PROCESS TOOL

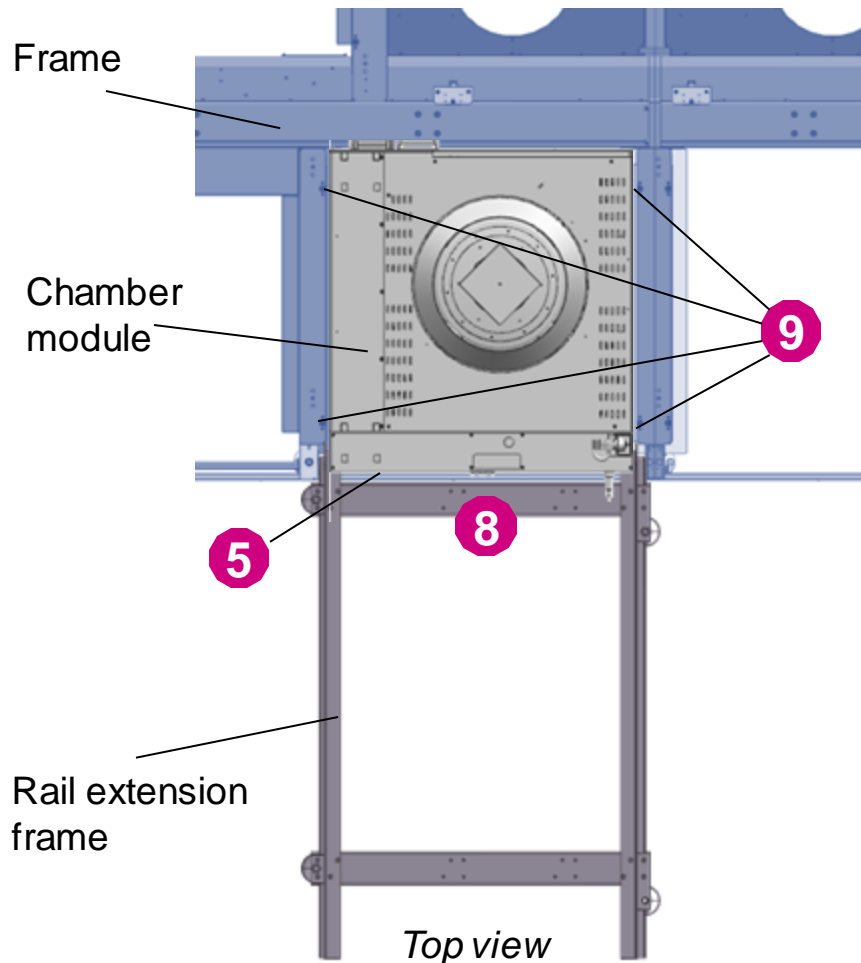
6 DOF to fixate Chamber module:

- X, Y, Z
- Rx, Ry, Rz

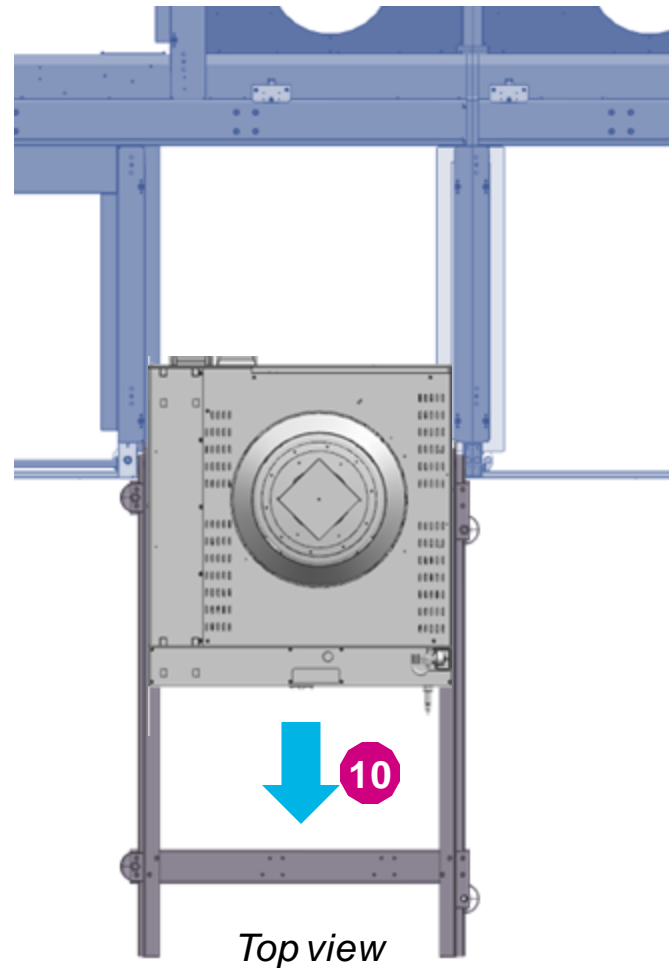


PULLING OUT CHAMBER MODULE

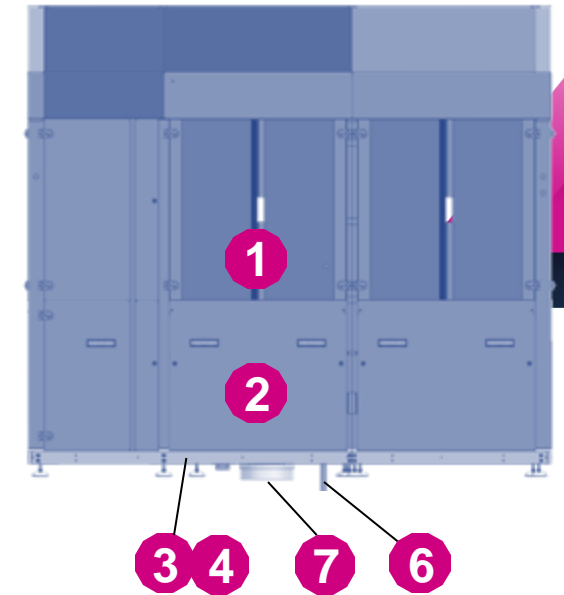
CURRENT WAY OF WORKING (TOP VIEW)



1/24/2020



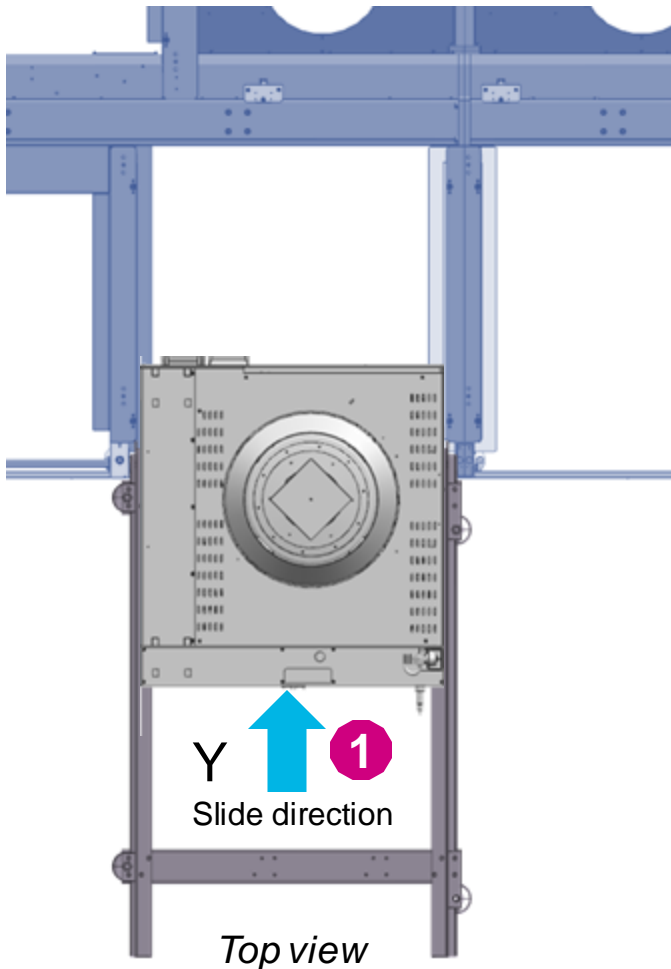
Confidential



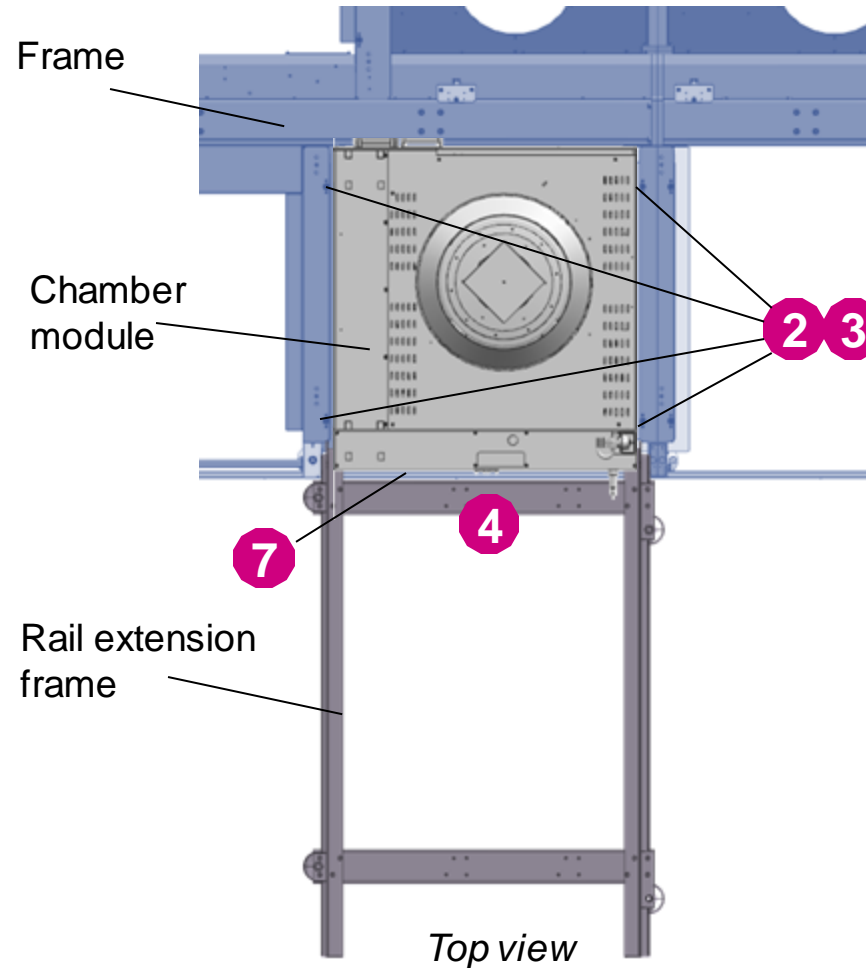
1. Unlock doors
2. Remove lower panel
3. Remove cosmetic strip
4. Remove Support strips (2x)
5. Open Chamber lower door and
6. Loosen drains
7. Loosen Exhaust pipe
8. Mount rail extension frame
9. Loosen 4 leveling bolt (alternately)
10. Pull out Chamber module on 4 ball bushings

PUSHING IN CHAMBER MODULE

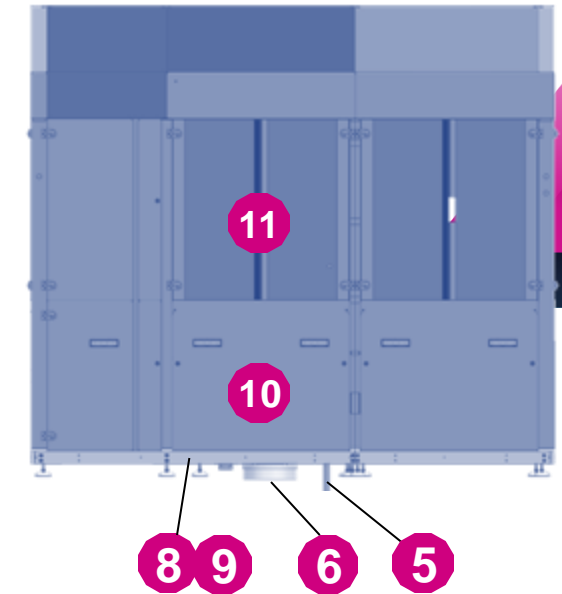
CURRENT WAY OF WORKING (TOP VIEW)



1/24/2020



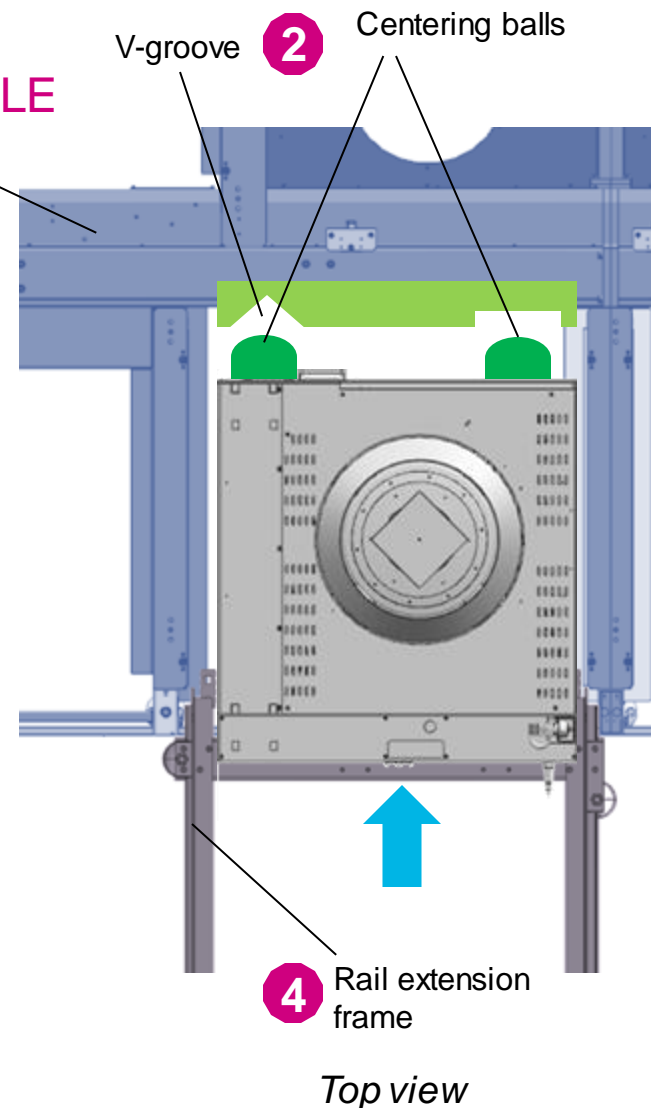
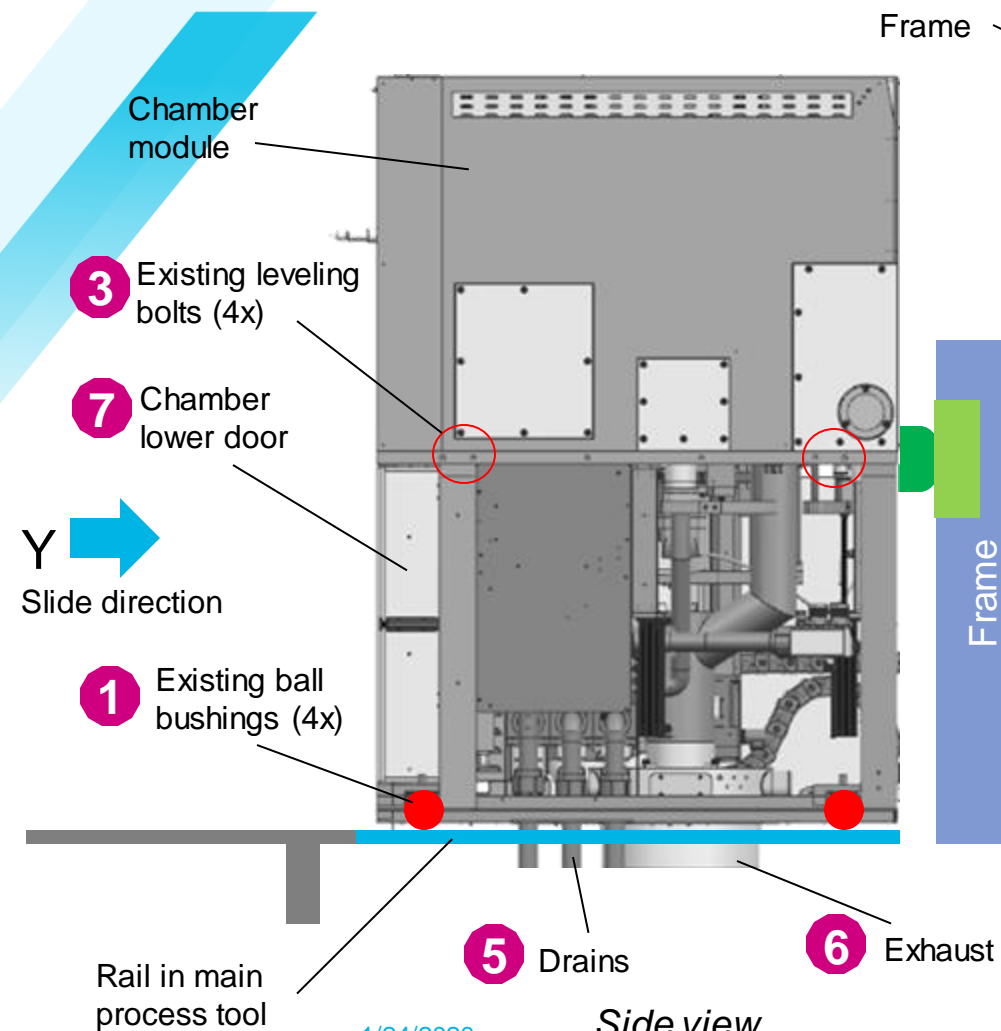
Confidential



1. Push in Chamber module on 4 ball bushings
2. Alignment search of 4 holes with the 4 leveling bolts
3. Pull up the Chamber module with the 4 leveling bolts to touch the 8 set screws as end stop (alternately)
4. Remove rail extension frame
5. Connect Drains
6. Connect Exhaust pipe
7. Close Chamber lower door
8. Mount support strips (2x)
9. Mount cosmetic strip
10. Mount lower panel
11. Lock doors

CONCEPT 1

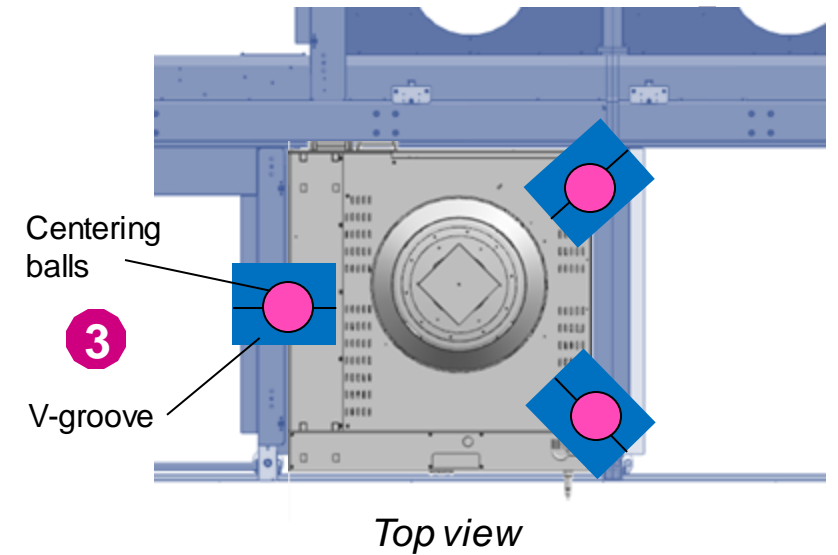
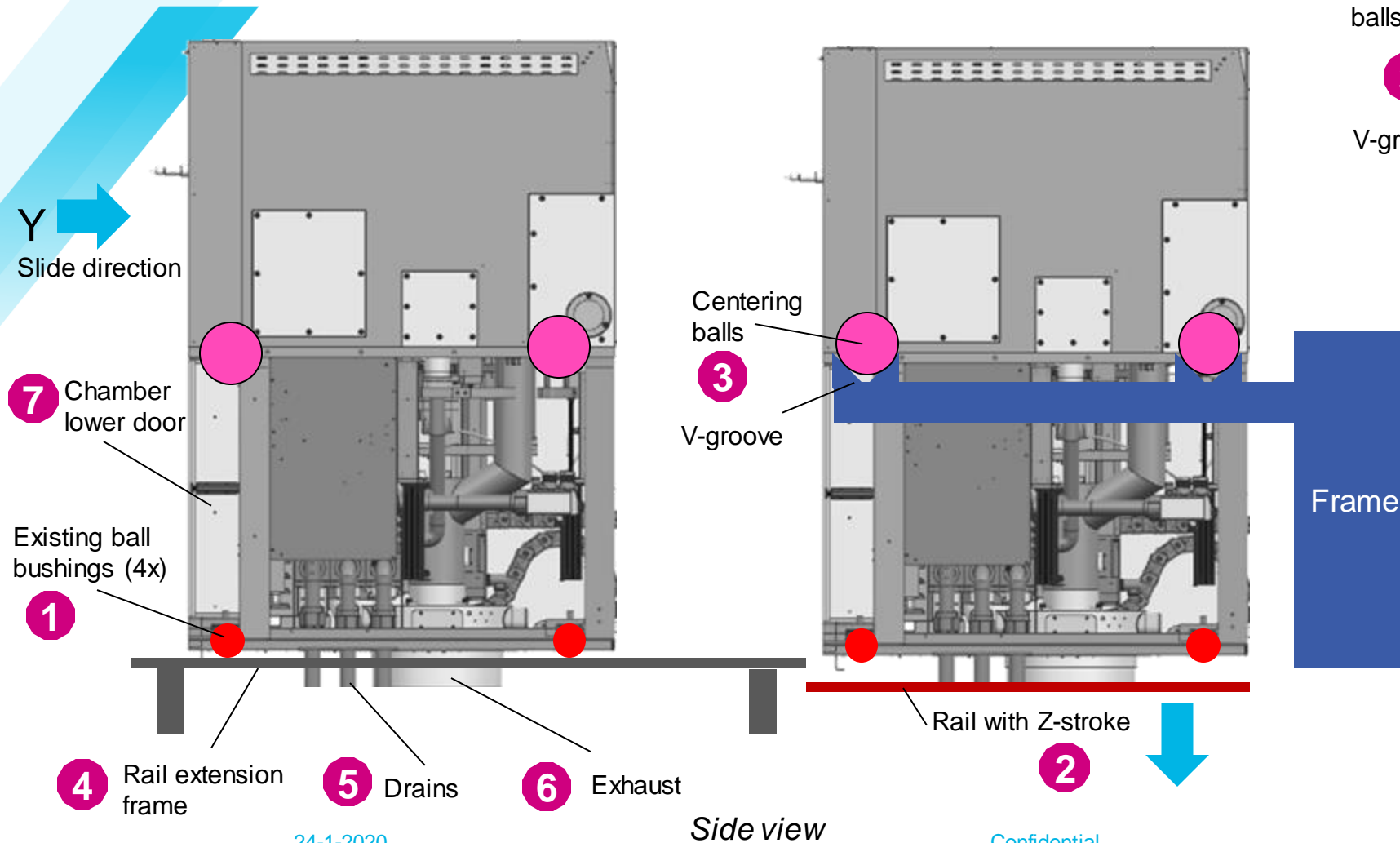
PUSHING IN CHAMBER MODULE



1. Push in Chamber module on 4 ball bushings
2. Push centering balls in V-groove
3. Pull up the Chamber module with the 4 leveling bolts to touch the 8 set screws as end stop (alternately)
4. Remove rail extension frame
5. Connect Drains
6. Connect Exhaust pipe
7. Close Chamber lower door
8. Mount support strips (see slide 6)
9. Mount cosmetic strip (see slide 6)
10. Mount lower panel (see slide 6)
11. Lock doors (see slide 6)

CONCEPT 2A

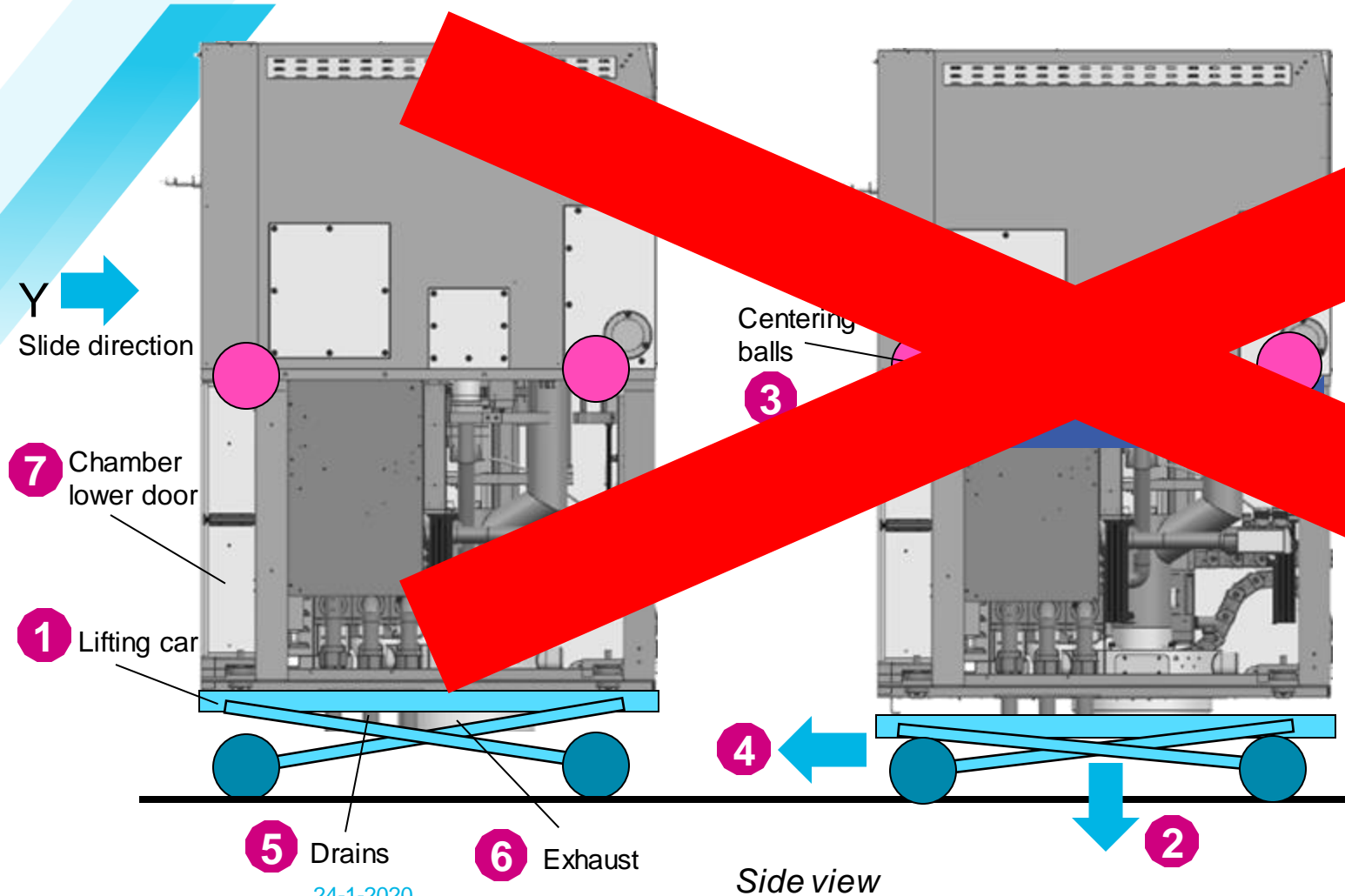
PUSHING IN CHAMBER MODULE



1. Push in Chamber module on 4 ball bushings
2. Lower rail with Z-stroke
3. Centering balls rest in V-groove
4. Remove rail extension frame
5. Connect Drains
6. Connect Exhaust pipe
7. Close Chamber lower door
8. Mount support strips (see slide 6)
9. Mount cosmetic strip (see slide 6)
10. Mount lower panel (see slide 6)
11. Lock doors (see slide 6)

CONCEPT 2B

PUSHING IN CHAMBER MODULE



Centering balls

3

Top view

1. Push in Chamber module on Lifting car
2. Lower Chamber module by lowering Lifting car
3. Centering balls rest in V-groove
4. Remove Lifting car
5. Mount Drains
6. Mount Exhaust pipe
7. Close Chamber lower door
8. Mount support strips (see slide 6)
9. Mount cosmetic strip (see slide 6)
10. Mount lower panel (see slide 6)
11. Lock doors (see slide 6)

DECISIONS

OVERVIEW NEW



			SüSS HBD system Decision tracker		
ID#	Made by	Agreed by	DECISION	Start	
P357-DM-31	Manfred	SÜSS team	Front loading is out	23-1-2020	
P357-DM-32	Manfred	SÜSS team	Coupling exhaust is responsibility of SÜSS	23-1-2020	

