

# CLIC Handling Engineering Update

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# Outline

- Inventory input data tables
- ► CDR Tunnel cross-section
- Remaining issues



# Inventory input data tables

- List of the equipment for the CDR tunnel was done in the past but IT HAS TO BE UPDATED
   WITH NEW DATA (change values or add new items);
- Excel tables for the TBM (circular cross section tunnel) need to be done from the scratch
   no list of the equipment done in the past

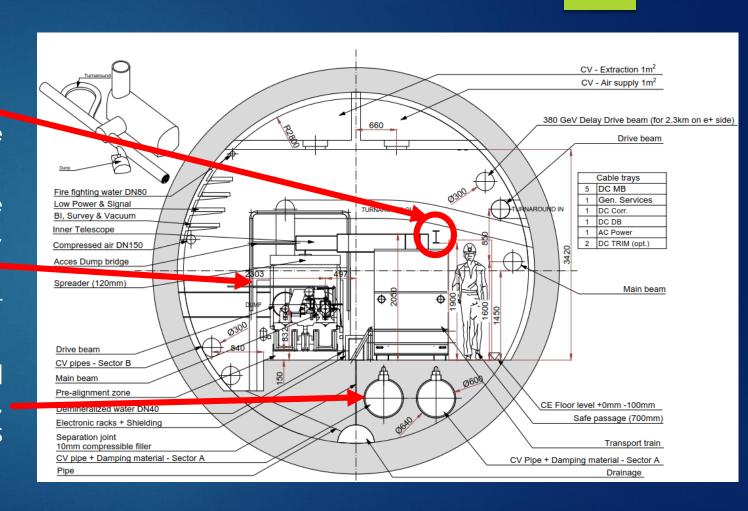
Input for Transportation Study of CLIC : Big Loops																				
2010								2017 UPDATE 2017 UPDATE												
		total	Weight /unit (kg)	Weight /total (kg)	Overall dimension (mm)	u ft	M Ti A m X e	t	total Weig	kg) /total (kg)	Overall eig	yht Weig ka) /total	ght C (ka) dimen							
										Input for Transportation Study of CLIC : Drive Beam Linac										
Daire Desc	ive Ream								2017											
Drive Bear	n Quadrupoles	217	920	199640	600x600x500							Weight	Weight	Overall	Support	l .	MAX	Time		
	Dipoles	124	870	107880	950x350x500					total		/unit (kg)	/total (kg)	dimension (mm)	points	points	acceler.	available		
	Sextupoles	124	450	55800	460x460x460									·						
Main Bean	n																			
	Quadrupoles	223	300	66900	300x360x360															
	Dipoles	180	900	162000	2000x300x250															
	Sextupoles	120	100	12000	200x230x230															
TURN-AROUNDs																				
Main Bean	n								-											
	Quadrupoles	300	300	90000	300x360x360															
	Dipoles	500	900	450000	2000x300x250															
	Sextupoles	400	100	40000	200x230x230															

# clic

### CLIC CDR TUNNEL CROSS-SECTION

### Information to be updated:

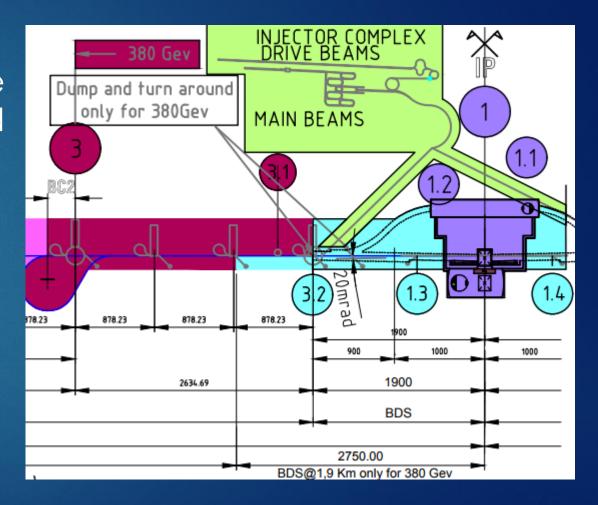
- ▶ HEB rail in the transport zone;
- All the equipment that needs to be installed to be listed (excel);
- Access from the other side of the machine (maintenance, installation, transport)?
- Top view needed (vehicle support system integration).
- Powering of the vehicle tbd (guiding, rails, batteries placement, etc.) status of the CV pipes (position, access, etc.)



## CLIC CDR TUNNEL CROSS-SECTION

Information needed in order to provide transport means to the drive beam and turnaround out tunnel:

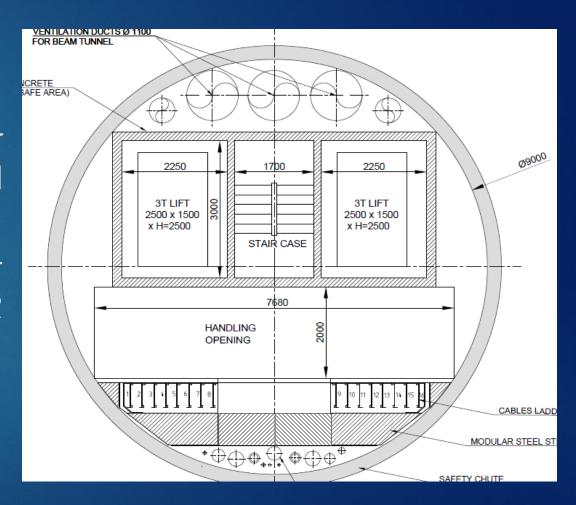
- Equipment table;
- Cross section.



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# What is next?/ Remaining questions

- List of the equipment needed in order to proceed with the shaft (tremie and lifts) design;
- Should we consider two types of shaft for different tunnel cross-section (CDR and TBM)?



# What is next?/ Remaining questions



IN ORDER TO MOVE FORWARD THE TABLE OF THE EQUIPMENT NEEDS TO BE FILLED