#### Dismounting ECAL barrel modules: status report

# Summary

- Progress on restoring the dismantling tooling.
- Calorimeter support structure.
- Some verification on the extraction simulation.
- Conclusions.

### Progress on restoring the dismantling equipment.

• The company has received the order (17-10-2022) to proceed with recovery of insertion tooling last week (Invoice data of 30-09-2022).

 The equipment is completely disassembled. All components had been sandblasted and this week painted.

We have ordered all components to be replaced.



Wheels

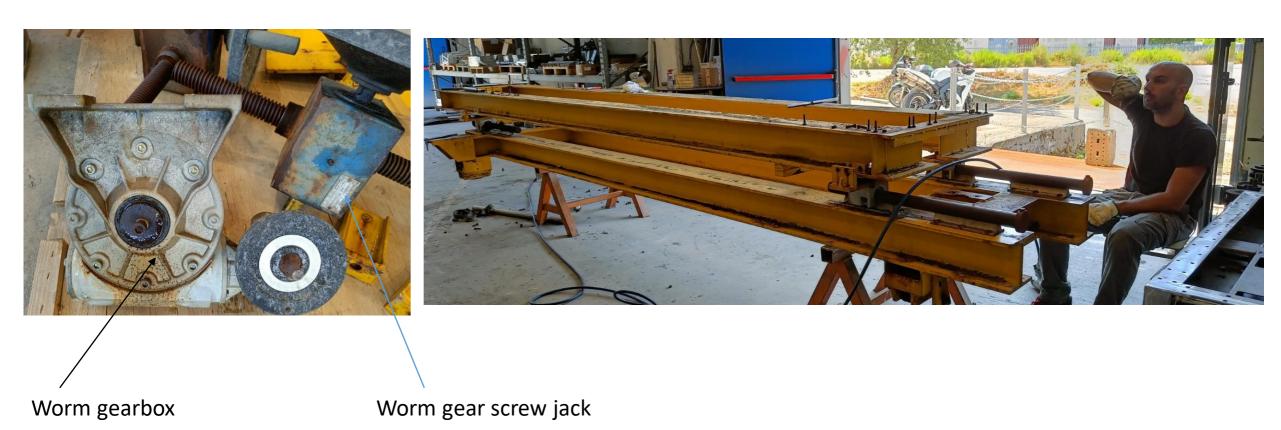






Collaboration meeting Frascati F. Raffaelli INFN Pisa

## Progress on restoring the dismantling equipment.



## Progress on restoring the dismantling equipment.



### Materials on order

Codice	Pos.	U.M.	Q.tà	Descrizione Articolo		Pre	ezzo		c.%	Importo	Data consegna
722 40 NR 1		1,00	RIDUTTORE VF/W 44/86 U 1050 HS B3 CCW3			326,41000		ETTO	326,41	10/10	
BO100480180	,	NR	1,00	alternativa:  VF 44 P1 35 HS B3 Versione pendolare  Albero lento cavo per linguetta.  Dim.albero lento (dxl) = 18x64 mm	78,0	00000	NETT	О	78,00	PRONTA S.	v.
Codice	Pos.	U.M.	Q.tà	Descrizione Articolo	Pre	ezzo	Sc.%	ó	Importo	Data consegna	
SK18644 SK18653	10	NR NR	12 14 1= V	SKF KR 35 PPA CUSC. A RULLINI nb con le protezioni SKF KR 62 PPA CUSC. A RULLINI con le protezioni		6380	NETT		140,82 280,66	2GG PRONTA S.V	v.

Totale Valore Offerta escluso IVA

EUR

421,48

#### Material on order

Codice	Pos.	U.M.	Q.tà	Descrizione Articolo	Prezzo	Sc.%	Importo	Data consegna
3101	10	NR	4,00	SUPPORTO PMN 50	546,00000	NETTO	2.184,00	7WEEK
3101	20	NR	4,00	SUPPORTO NIM50-1000-SL	281,45000	NETTO	1.125,80	7WEEK

Calorimeter linear bearing replacements 72 pieces 47 Keuro. May be we can save some money reused the Aluminum housing.

Totale Valore Offerta escluso IVA EUR 3.309,80

Codice	Pos.	U.M.	Q.tà	Descrizione Articolo	Prezzo	Sc.%	Importo	Data consegna
SK213	10	NR	6,00	SKF GX 30 F SNODI SFERICI	113,40560	NETTO	680,43	3GGL
SK213	20	NR	3,00	SKF GX 30 F SNODI SFERICI	222,76100	NETTO	668,28	10WEEK
				Disponibili in 10 setTimane D.R.O.				
SK19179	30	NR	5,00	SKF PWKRE 62.2RS CUSC. A RULLINI	149,00000	NETTO	745,00	15GG
RE16B1.00	40	МТ	5,00	CATENA REGINA 1" S. 147	34,68600	NETTO	173,43	3GG

Totale Valore Offerta escluso IVA

EUR

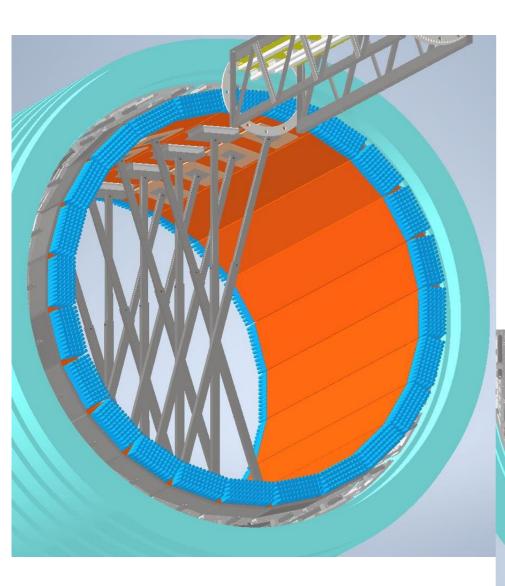
2.267,14

## Costs of components ordered.

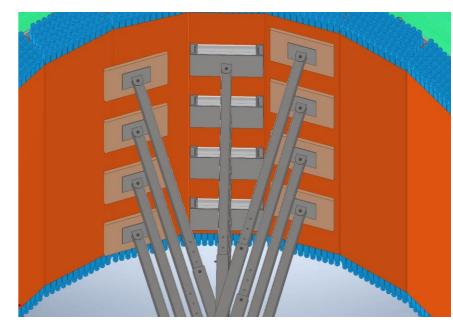
Components	Unit Cost	N. Comp	Total cost	Total+VAT
Catena passo 25 largh 30 4m	173.43	1	173.43	
Riduttore Bonfiglioli	326.41	1	326.41	
Martinetti meccanici	708	3	No	
Manicotti PMN 50	546	4	2184	
Albero Dia =50mm l= 900mm	281.45	4	1125.8	
Rotelle Dia 62 L30 M24 PWKRE 62.2RS SKF	149	5	745	
Snodi sferici assiali Di30 De76 Sp27 SKF Gx 30F	113.4	6	680.4	
Snodi sferici assiali Di30 De76 Sp27 SKF Gx 30F	222.76	3	668.28	
Rotelle Dia 35 cuscinetti a rullino SKF	35.2	4	140.8	
Rotelle KR62 con cuscinetti a rullini	70.16	4	280.64	
Copertura in PVC				
			6324.76	7716.2072

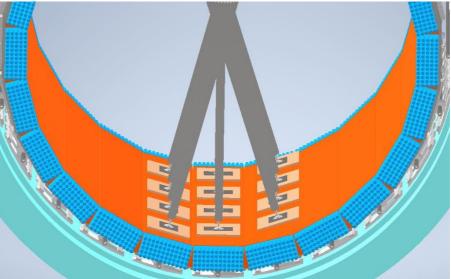
The longest delivery time is 10 weeks

## Calorimeter support structure.

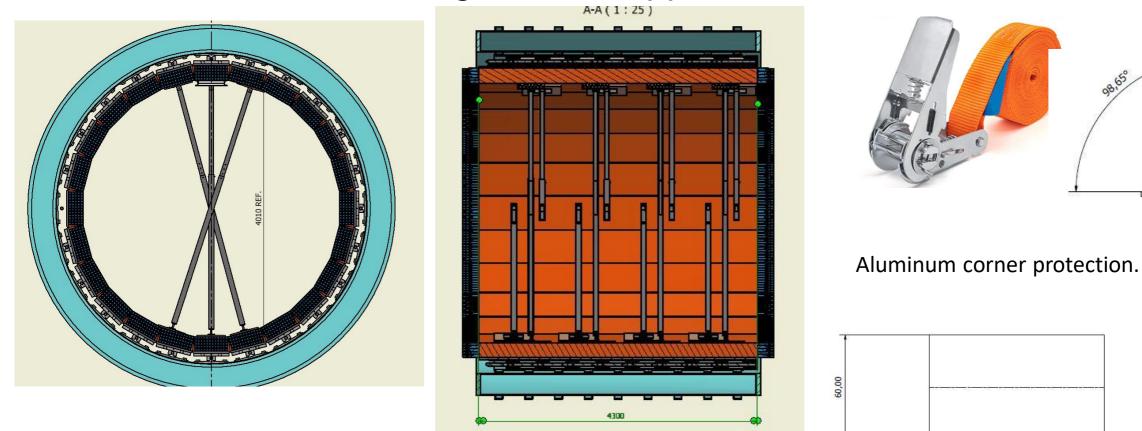


Supports are necessary before extracting modules.



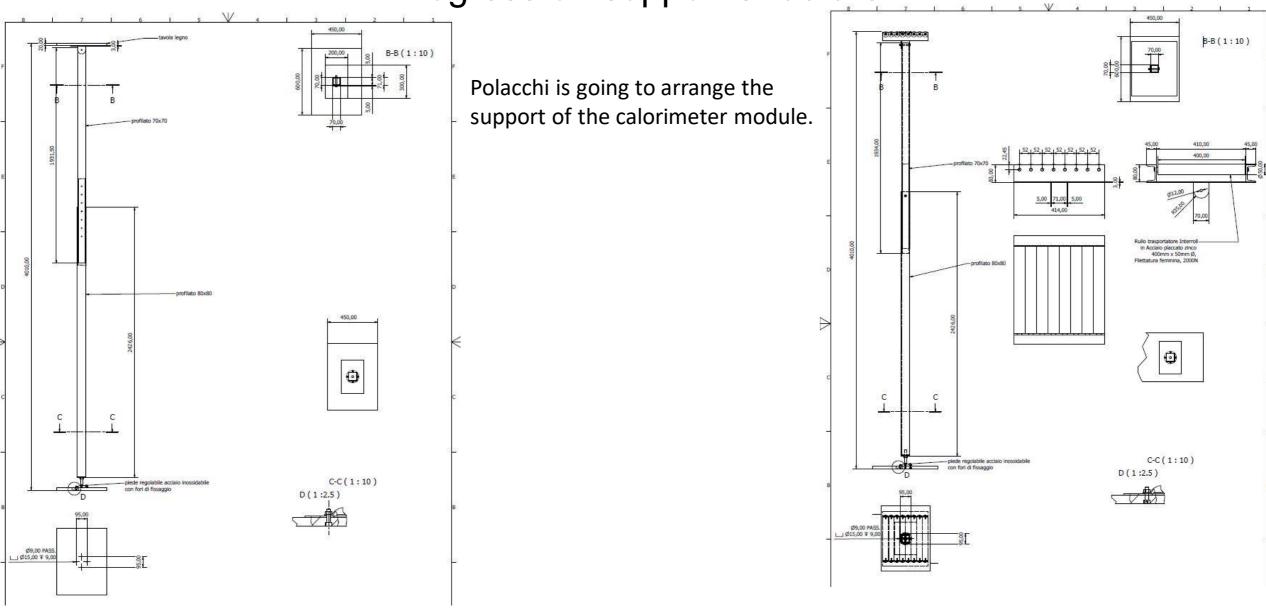


### Progress on support structure.



As soon the module is out of the kloe we are going to use a belts to keep the lead structure together using a corners protection.

Progress on support structure.



### Calorimeter pulling tooling.



Polacchi is also provide the pulling equipment.

## Conclusions.

- The equipment right now has been sand blasted and will be painted Yellow.
- It is necessary to discuss the disassembly procedure with Polacchi that is going to make the calorimeter temporary supports and provide the pulling tooling, and the scientific, technical, safety coordinator.
- Some additional simulation on the module extraction can be done considering the platform size on which the extraction tooling will be placed.
- We need to discuss the acceptance test at the factory and at LNF with the safety office of the extraction tooling.
- The delivery of the extraction tooling is scheduled January 2023 at LNF.