







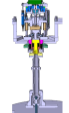

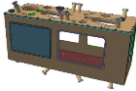
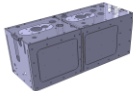
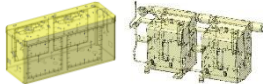

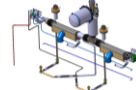
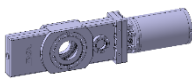



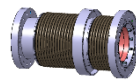
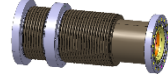
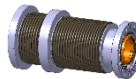
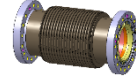
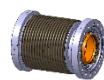

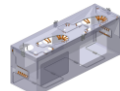




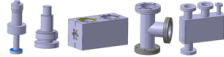




Split of deliverables responsibilities

- UK2:

Tentative detailed table for UK2 to be confirmed with UK colleagues:

Component	Image	Procurement Organisation
DQW Bare Cavity		CERN
Cold Magnetic Shield		UK
DQW Helium Vessel (assembly of the Bare Cavity, Cold Magnetic Shield and welding of the He tank)		CERN
Beam Screen		CERN
DQW Full set of HOMs (High Order Modes Suppressors)		CERN
DQW Feedthroughs for HOMs		CERN
DQW Pick-up (Probe)		CERN
DQWFPC (Fundamental Power Coupler)		CERN
DQW Tuner Actuator		CERN
DQW Tuner Frame		CERN
DQW Vacuum Vessel		UK
Warm Magnetic Shield		UK

MLI Blankets Multi-Layer Insulation		UK
Cavity Support System		UK
Cryogenic Internal Lines including welding during assembly		UK
Cryogenic safety protection equipment		CERN
Sector valve DN100 (aperture \varnothing 80mm)		UK
Extremity chamber type 1 with Rf insert		CERN
Extremity chamber type 2 with Rf insert		CERN
Cavity cold warm transition long with RF insert		CERN
Cavity cold warm transition short with RF insert		CERN
Beam screen cold warm transition long with RF insert		CERN
Beam screen cold warm transition short with RF insert		CERN
Inter cavities chamber with RF insert		CERN
Inter beam screen chamber with RF insert		CERN
RF Internal Lines (HOM, pick-up, FPC outer tube)		CERN
Thermal Shield		UK
FSI Cavity Alignment System		UK & CERN
Cryogenic Instrumentation Level Transducers		UK

Cryogenic Instrumentation CERNOX		CERN
PT100		UK
Penning DN40		UK
Pirani DN40		UK
Multiport bloc 3xDN40 for gauges & rupture disk		UK
Roughing Angle valve DN63 for beam vacuum		UK
Roughing Angle valve DN63 for insulation vacuum		UK
Rupture disk + valve		UK
Ion pump		UK
Flap valve DN160		UK
Instrumentation Feedthroughs		CERN
Flux gate magnet probe	Optional (maybe only on CM1)	CERN
Mechanical Instrumentation		CERN strain gauges, optical fibres UK for transport shocklogs
Fasteners and ancillaries		UK
String assembly trolley		UK
Set of string assembly tooling		UK
Cavity/FPC automated lifter		UK
Cavity handling frame		UK

FPC Insertion tooling		CERN
FPC Temporary supports		CERN
HOM Assembly tooling		CERN
Alignment fixtures		UK
Cleanroom clothing		UK
Cavity String Lifting Frame		UK
Top Plate Assembly Frame		UK
Additional tooling		UK
Fasteners and ancillaries		UK
HOM Test Box		TBD
Safety Accessories		UK
Cryogenic Testing Equipment		UK
Cryogens for Testing		UK
CATIA License		UK
CATIA Maintenance		UK
CATIA Sheet Metal		UK
CATIA Sheet Metal Maintenance		UK

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Internal reinforcements for transport		UK
Anti-shock Frame for DQW Cryomodule Transport		UK
Cryomodule Handling and transport Tooling		UK
Transport packing and crate		UK
Fasteners and ancillaries		UK
Transport UK – CERN		UK