



Upcoming Tenders at CERN

7 Feb 2024

60-wire planetary cabling machine

Procurement Code: 02 25 05 03

Cost Range : 750 kCHF ↔ 5 MCHF

Planning: MS: sent (MS-4905)

IT: Q4 2023

Description & Specific Condition :

Planetary cabling machine for manufacture of cables of up to 60 superconducting or copper wires and round cables

Contact: Thierry.Boutboul@cern.ch



Metal precision cleaning machine for Ultra-High Vacuum (UHV) and particle physics applications

Procurement Code: 09 02 02 00

Cost Range : ≤ 750 k CHF

Planning: MS : Q4 2023

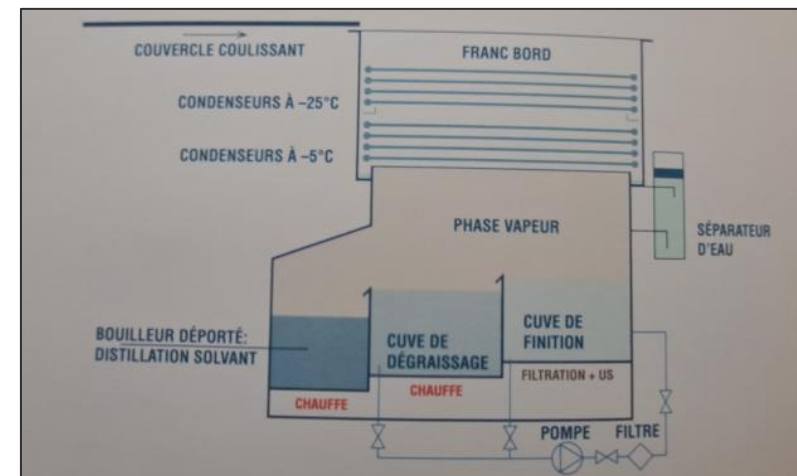
IT: Q1 2024

Description & Specific Condition :

Cleanliness level compatible with UHV both with hydrocarbon and silicon-based contaminants, useful cleaning capacity of 550 mm x 300 mm x 300 mm, used on a variety of metals.

Seeking firms with a similar machine pre-existing in its catalogue

Contact: Leonel.Ferreira@cern.ch



Assembly of DAQ (Data Acquisition System) Electronic Cards

Description & Specific Condition :

Assembly and testing of PCBs of three different types with a maximum size of 322.25 mm x 280 mm, double-sided with up to 22 layers.

The contractor shall assemble a wide mix of components onto the PCBs.

The quantity will be approximately 900 units and deliveries are expected over a duration of 12 months from the date of Contract notification.

Procurement code: 03 03 01 00

Cost Range : 750 k CHF ⇔ 5 M CHF

Planning: MS: Q4-2023 - IT: Q1-2024

Contact: Christoph.Schwick@cern.ch



Assembly of Hexaboards Electronic Cards

Description & Specific Condition :

Assembly and testing of around 22 000 rigid PCBs for the CMS High-Granularity Calorimeter.

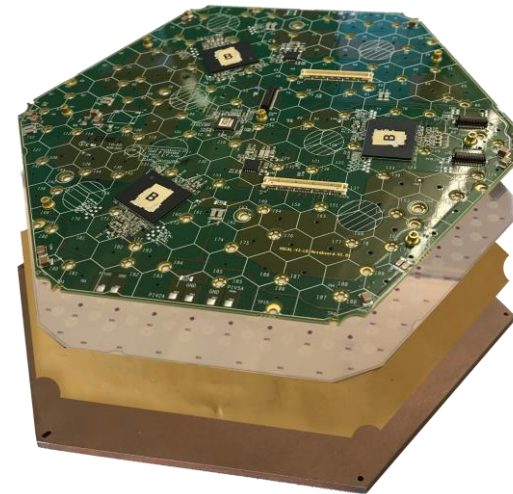
The PCBs have 8 layers, are mostly hexagonal with lateral dimensions of 20 cm x 20 cm and are approximately 1.3 mm thick.

Procurement code: 03 03 02 00

Cost Range : 750 k CHF ⇔ 5 M CHF

Planning: MS: Q4-2023 - IT: Q1-2024

Contact: David.Barney@cern.ch

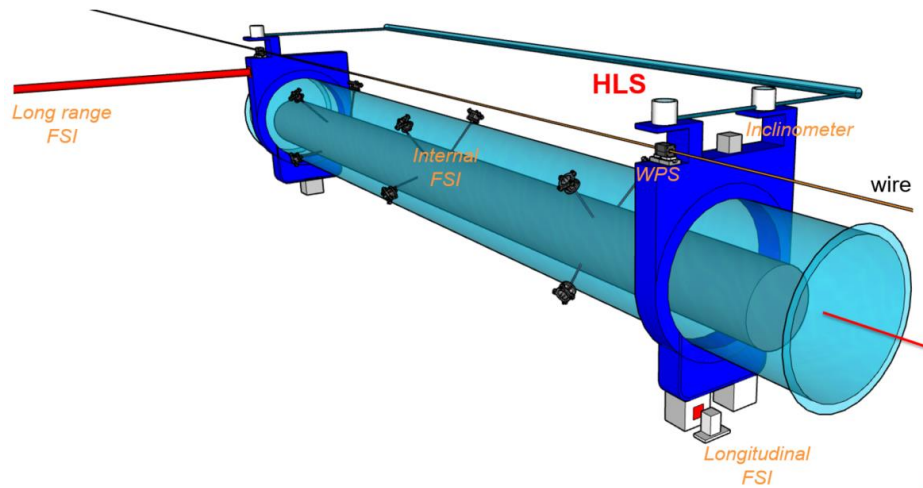


Sensors for alignment

Description & Specific Condition :

Alignment system includes the following sensors :

- Wire Positioning Sensors (WPS): MS Q1 2024, IT Q2 2024
- Hydrostatic Levelling Sensors (HLS): DO Q2 2024



Cost Range : ≤ 750 k CHF

Planning: see left

Contact: Helene.Mainaud.Durand@cern.ch

Capacitive WPS sensor

- X-Y measurement w.r.t. stretched conductive wire
- Accuracy $< 5\mu\text{m}$, Resolution $< 1\mu\text{m}$
- Limited cable length (max. 30 .. 50 m)
- Conditioning electronics need to be RAD-TOL



Screwed and welded aluminium support structures for ATLAS

Description & Specific Condition :

Supply of aluminium support structures to house different chambers.

- **Screwed structures (210):** made of aluminium frames, plates and covers. The general tolerances are 0,1 mm for parts and 1 mm for the assembly
- **Welded structures (110):** made of aluminium profiles, plates and covers. The general tolerances are 0,05 mm for parts and 0,5 mm for the assembly

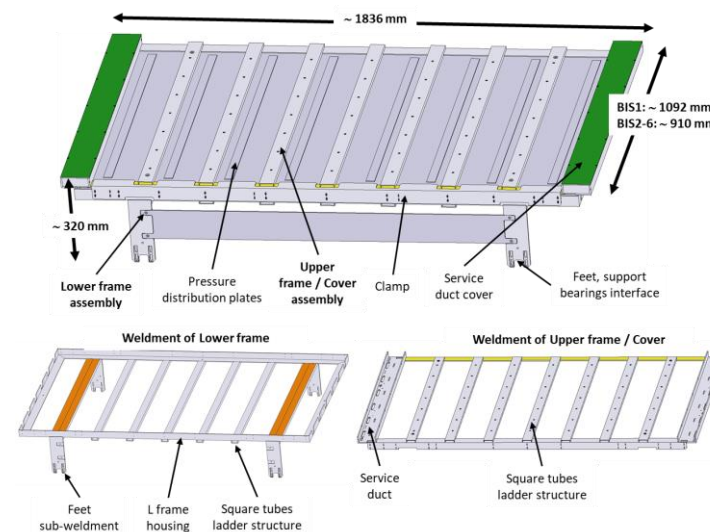
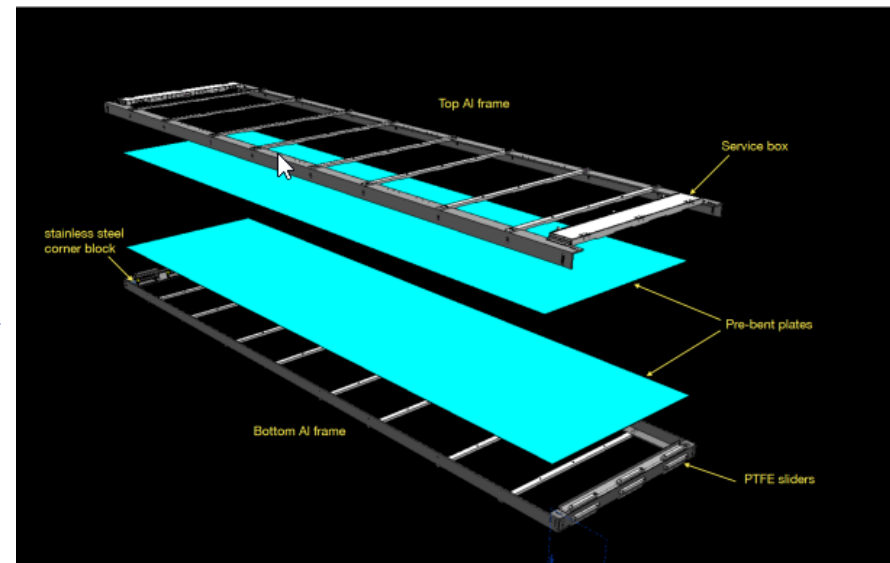
Procurement code:

- 05010104: Aluminium, aluminium alloys
- 05040100: Machining of steels, stainless steels, aluminium alloys

Cost Range : 750 k CHF ⇔ 5 M CHF (case B)

Planning: MS-4900 (sent) - IT: Q1-2024

Contact: toni.baroncelli@cern.ch



UPS 20-200 kVA

Description & Specific Condition :

Supply of modular UPS in the range of 20 - 200 kVA, incl. design and supply

5 years Blanket contract

- 25 Units in 2025
- 15 additional Units in the next years of the Contract

Procurement Code: 02 30 40 00

Cost Range : < 750 k CHF

Planning: MS: Q2 2024, IT: Q4 2024

Contact: Joel.Lahaye@cern.ch



Power converters of ± 600 A and ± 10 V

Description & Specific Condition :

Supply of power converters of ± 600 A and ± 10 V for HL-LHC project

Build-to-print

- 21 Units



Procurement Code: 02 10 05 00

Cost Range : <750 k CHF

Planning: MS: Q1 2024 - IT Q2 2024

Contact: Vicente.Herrero@cern.ch

66 kV substation extension and upgrade

Description & Specific Condition :

Extension and upgrade of Two existing 66/18 kV Air Insulated Electrical Substations:

- revision of CERN's preliminary design
- mechanical and electrical detailed design for execution, calculation and technical notes, and civil engineering functional design drawings
- procurement, manufacturing, installation and commissioning of all new equipment
- energization support and maintenance

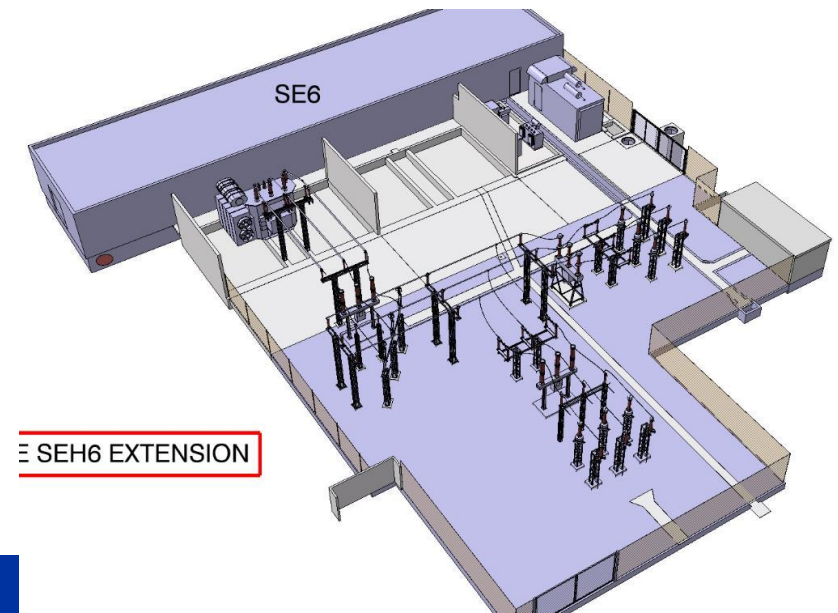
Design work during 2024-5, installation on-site during 2026.

Procurement Code: 02 02 01 00

Cost Range : 750 kCHF ↔ 5 MCHF

Planning: IT: Q2 2024

Contact: Dimitrios.Katsanikos@cern.ch



Major overhauling helium compressors at manufacturer's premises

Procurement Code: 06 02 04 00

Cost Range : 750 kCHF ↔ 5 MCHF

Planning: MS: 2025

IT: 2025

Description & Specific Condition :

Specific experience in the overhaul of He compressors



Contact: Steffen.juncker@cern.ch

Non-magnetic diffusion pumps for ATLAS

Description & Specific Condition :

Supply of 17 non-magnetic diffusion pumps.

Main characteristics:

- Operational in high-intensity magnetic fields
- Pumping speed of 1 500 l/s
- Pressure working range: 10^{-2} to 10^{-7} mbar
- Height: 950 mm (or less) x Width: 600 mm (or less) x Depth: 600 mm (or less)
- No soft-welding nor brazing is permitted

Procurement code: 06010804: Diffusion pumps

Cost Range : < 750 k CHF (case D)

Planning: MS: Q4-2023 - IT: Q1-2024

Contact: xavier.pons@cern.ch



Heavy lifting of CMS calorimeters

Description & Specific Condition :

Removal of 2 existing calorimeters and installation of a new one on the CMS site in Cessy, including:

- Design and supply of tooling for heavy lifting
- Heavy lifting and transportation on site in two phases during 2026/7

The new calorimeter will weight 230+ tons, with a value ~150 MCHF

Contract adjudicated on a BVFM basis.

Procurement code: 13 11 03 00

Cost Range : 750 kCHF ⇔ 5 MCHF (case D)

Planning: MS: Q4 2023, IT: Q2 2024

Contact: tristan.loiseau@cern.ch



Construction of new Building 777

Description & Specific Condition:

General contractor to construct new Building 777 on CERN's Prévessin site in France. Key characteristics include:

- Mass timber structural system
- Highly performing MEP and façade system to achieve recognised sustainability accreditation.



Procurement code: 01 02 01 00/ 01/ 02

Cost Range : > 10M CHF

Planning: MS Q1 2024 / IT Q3 2024

Contact: Pieter.mattelaer@cern.ch

Thank you



home.cern