



CERN update

Jan Visser 14-10-2024

Based on presentation of Joshua Davison

IPT-PI

UPS 20-200 kVA (MS-4959)

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 : 400k – 1.5MCHF

Planning: MS: Q2 2024, IT: Q4 2024

Contact: Joel.Lahaye@cern.ch



400 kV circuit breakers and 66 kV disconnecter switches (MS-5038/EN)

Description & Specific Condition :

Supply of 5 Circuit Breakers 400 kV and 18 disconnecter switches 66 kV.

One or two Supply Contracts.

Firms must have a proven experience and competence in the design and manufacturing of high voltage equipment for at least 10 years.

Procurement Code: 02 02 01 00

Cost Range : 400k - 1.5M CHF

Planning: MS: Q4 2024 IT: Q1 2025

Contact: George.Podoleanu@cern.ch



Fibre glass cable insulation (MS-4968/TE)

Description & Specific Condition :

3-year blanket purchase contract, estimated 57 km of cables to be insulated

Tailor-made insulation in fibre glass for magnet cables, for HFM programme

Production line must be in a separate, dedicated space to avoid contamination

Key conditions:

- Clean room (grey, ISO8)
- Proven experience with fibre (glass) braiding
- Proven experience with braiding around large rectangular cable
- Proven experience with horizontal braiding systems

Procurement code: 02 25 04 03

Cost Range : 400 k CHF ⇔ 1.5 M CHF

Planning: MS: published

IT: Q4-2024

Contact: Francois-Olivier.Pincot@cern.ch



Custom designed PCIe based fibre optics I/O cards

Procurement Code: 03 04 09 00 (PCI, PCIe modular electronic boards)

Cost Range : 400 K – 1.5 M CHF

Planning: MS : Q4 2024
IT: Q1 2025

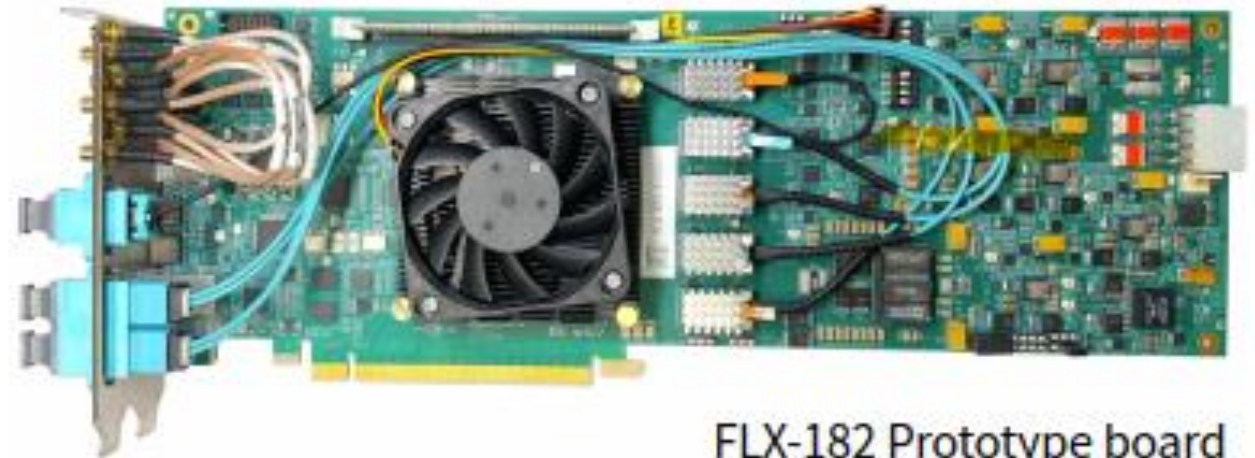
Scope:

Assembly and testing of approx. 800 PCBs

- Versal Prime VP1552 FPGA
- PCIe Gen5 x16
- Up to 52 optical links, link speed up to 25 Gb/s
- Overall PCB dimensions: 311.99 x 106.65 mm
- 24 layers and a thickness of (3.00 ± 0.28) mm
- PCB material is EM980K

Duration: Production over 12 months

Eligible Firm Profile: Interested firms shall have proven experience and competence in assembly and test of PCBs of the complexity required.



FLX-182 Prototype board

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Contact: Carlo.Alberto.Gottardo@cern.ch

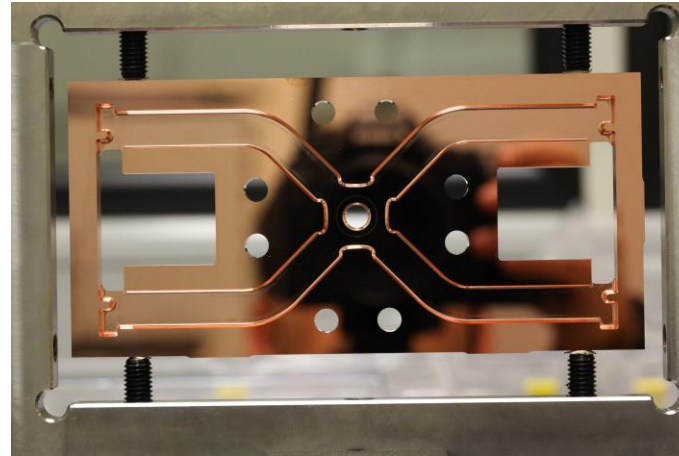
Ultra precision machining of copper disks (DO-34382/SY/CLIC)

Procurement Code:

05 04 02 00

Cost Range : 200-400 k CHF

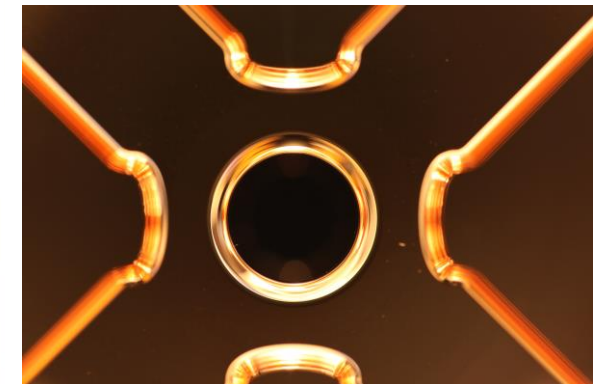
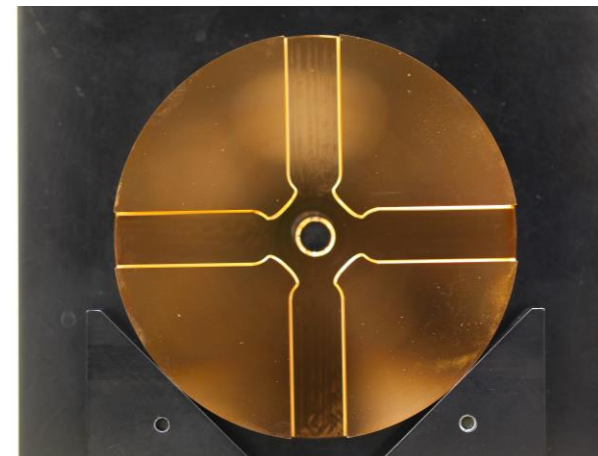
Planning: DO: Q4 2024



Description & Specific Condition :

Build-to-print specification: ultra precision machining of 58 copper disks

Firms shall have **CNC** and **CMM**, **experience** in machining similar tolerances and shall succeed in providing a prototype of the disc.



Contact: pedro.morales.sanchez@cern.ch

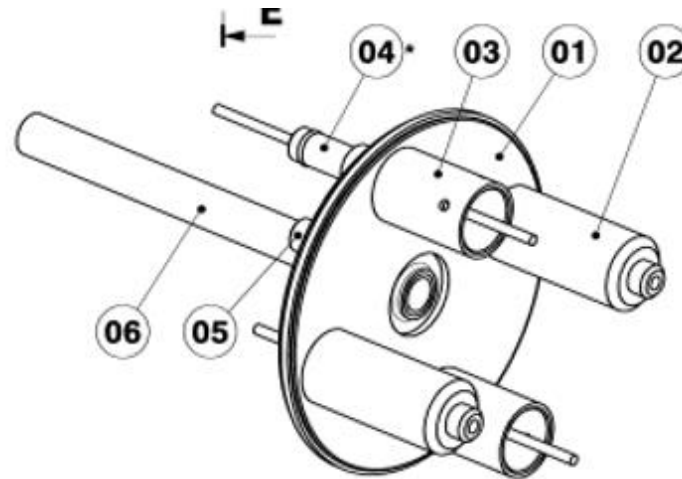
Precision end plates for UHV application (DO-34448/SY/HL-LHC)

Procurement Code:

06 01 06 06

Cost Range : 200-400 k CHF

Planning: DO: Q4 2024

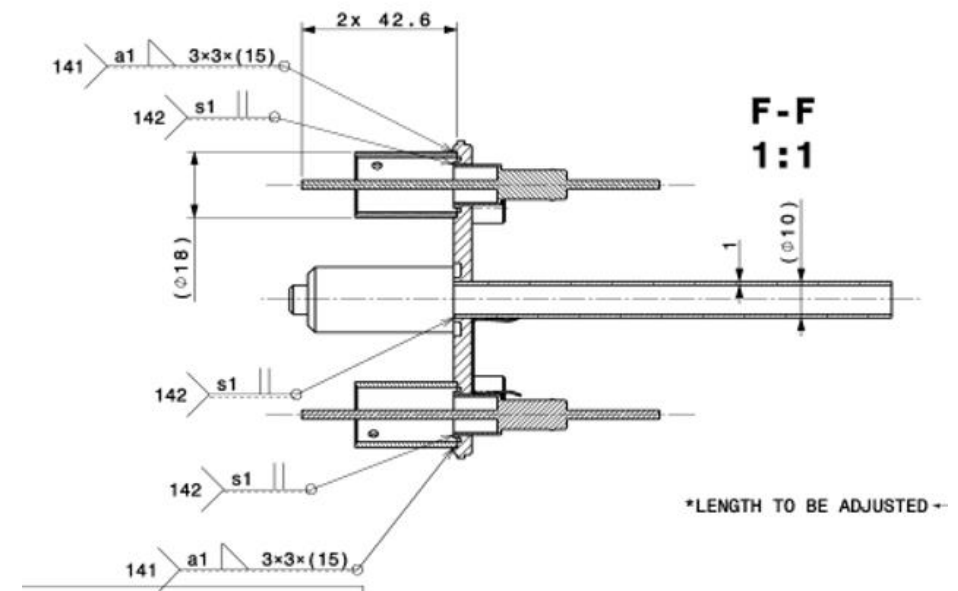
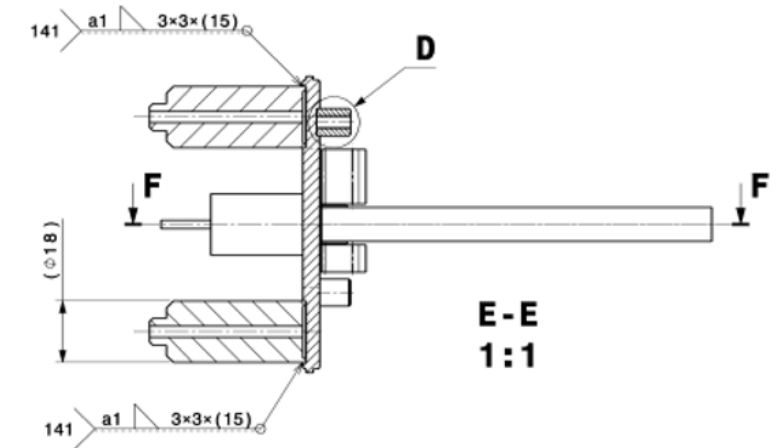


Description & Specific Condition :

Build-to-print specification: 1000 precision end plates for UHV application. Materials: stainless-steel, copper and ceramics. Activities involved: machining, cleaning, welding, metrology and leak testing.

Firms shall have **experience** in the activities mentioned above for UHV applications. Firms must provide references.

Contact: Gerhard.Schneider@cern.ch



Tungsten Half Shells of Tungsten alloy (DO-34467/SY/HL-LHC)

Procurement Code:

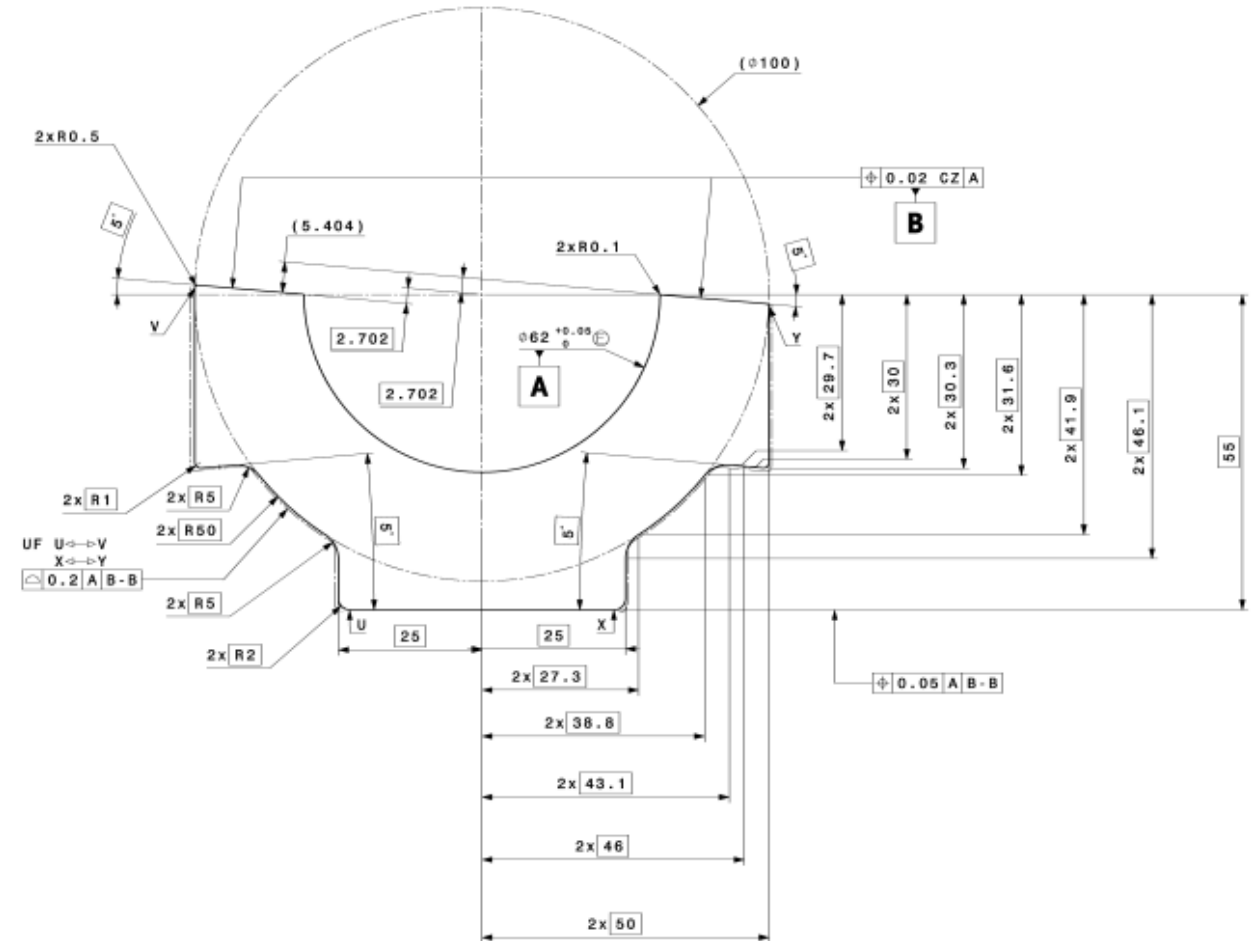
05 01 03 07 - Refractory metals (Nb, Mo, W, Ta...) and alloys

Cost Range : 200-400 k CHF

Planning: DO: Q4 2024

Description & Specific Condition :

250 Tungsten alloy (W95NiCu) Half Shells, according to the material, dimensions, tolerances, surface treatments and norms and standards defined in the Technical Specification.



Contact: edouard.grenier-boley@cern.ch

Stainless-steel forged blanks and rings EN 1.4429 AISI 316LN for Ultra-High Vacuum applications (MS-5016/SCE)

Procurement Code: 05 01 03 02 (Stainless Steel)

Cost Range : 5M – 10M CHF

Planning: MS : Q4 2024

IT: Q1 2025

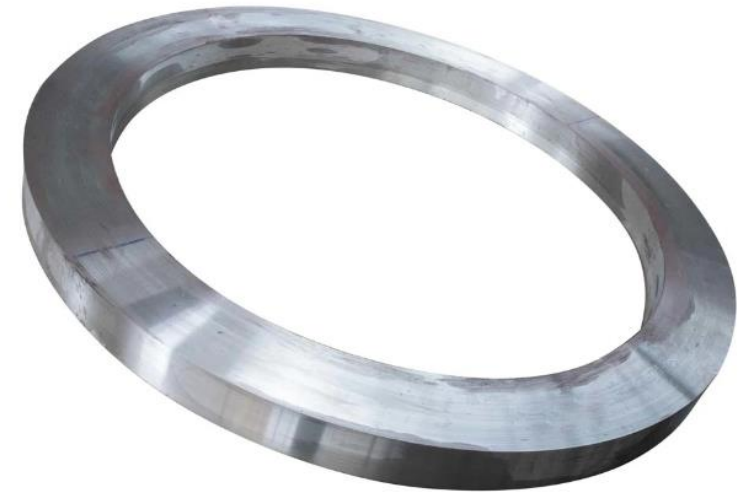
Contract start: 1 July 2025

Scope:

- Supply of 80T stainless steel forged blanks;
- EN 1.4429 AISI 316LN (Electroslag Remelting ESR)

Duration: 5 years

Eligible Firm Profile: Interested firms shall have proven experience and competence in metallurgy, manufacturing, forging and testing of the above-mentioned material.



Contact: Leila.akhouay@cern.ch

CERN Industry Webinar – 18 September 2024

Webinar agenda:

They presented an overview of how to do business with CERN and is in particular suited to firms with little or no experience in doing business with CERN touching on:

- General introduction to CERN
- Doing business with CERN
- Typical tender process
- Forthcoming procurement needs

Link to event page :

[CERN Indico page](#)

All presentations are available there

Thematic Event - Precision Machining - 22nd November 2024

Focus on those with the following capabilities:

- A variety of precision machining technologies in-house (reference values: precision above ± 0.02 mm for pieces smaller than 500 mm; and roughness smaller than Ra 0.8);
- Capacity to either source raw materials or manage receipt of free issue materials from CERN;
- Capability to manufacture one-off or small series productions of prototypes or assemblies;
- Precision metrology capabilities;
- Optionally, capability in advanced metal joining techniques, either in-house or subcontracted, such as vacuum brazing, electron beam welding, arc welding, etc. and sheet metal forming techniques.

Preliminary agenda:

10:00- 12:30 presentations

13:30 – 17:30 B2B meetings

Link to registration page :

[CERN Indico page](#)

Link to event page :

[Preliminary agenda.](#)

CERN supplier database

Register in the database!

- First port of call for procurement
- Anything under 50 kCH is only sourced from known suppliers
- Select the right procurement codes
- **Not too many and not too few**

Link to portal page :

[link to supplier-portal](#)

Procurement and
Industrial Services Group

Home / Supplier Portal

Supplier Portal

Welcome to CERN's eProcurement platform

<https://procurement.cern.ch/asp/Home>

Using this platform, you will be able to receive orders, manage the delivery of supplies and send invoices for processing.

If you are having trouble registering your firm, please consult this [video tutorial](#) or the French version under [tutoriel](#).

Once you have registered your firm, you will be able to log on to the platform to manage your firm's profile and contact details.

Registered suppliers at CERN

Using this link you are able to access and search the list of registered suppliers at CERN including their relevant areas of activity, whether they have already supplied to CERN and links to their websites.

[Supplier Database](#)

Thank you



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