

DESCRIPTION OF THE SUBJECT OF THE AGREEMENT
measuring current transformers
for a linear accelerator
in the PolFEL Free Electron Laser system
(Part 2)

The subject of the order is the delivery of five current transformers for measuring the average electron beam current. The transformers are intended to be mounted on the beamline of the linear electron accelerator.

1. General requirements

- 1.1 All of the offered devices should be under 24-months manufacturer warranty.
- 1.2 All offered devices should be delivered to the recipient within 12 months from the date of the contract.

2. Technical specifications

- 2.1 Clamp-on type construction.
- 2.2 Inner diameter not lesser than 40 mm and not greater than 80 mm.
- 2.3 Thickness equal to or less than 80 mm.
- 2.4 Outer diameter equal to or less than 300 mm.
- 2.5 Bandwidth lower bound equal to 1 MHz or less.
- 2.6 Bandwidth upper bound equal to 500 MHz or greater.
- 2.7 Sensitivity equal to 1 V/A or better.
- 2.8 Coaxial signal output with 50 Ω impedance.
- 2.9 Maximum pulsed current 100 A or greater.
- 2.10 Maximum continuous current 100 μ A or greater.
- 2.11 I·t product equal to 1 μ A·s or greater.
- 2.12 Measurement accuracy 5% or better.