**Order description**

The subject of the procurement procedure is the supply of permanent magnets in the form of magnetic blocks with a shape consistent with the drawings provided by the Orderer:

* Type A: 42 pieces

according to the drawing *THz Magnet Type A.pdf*, direction of magnetization along the y axis (vertical), thickness in the direction of the z axis equal to 40 mm;

* Type B: 42 pieces

according to the drawing *THz Magnet Type B.pdf*, direction of magnetization along z-axis (horizontal), thickness in z-axis equal to 40 mm;

* Type C: 6 pieces

according to the drawing *THz Magnet Type C.pdf*, direction of magnetization along the y (vertical) axis, thickness in the z direction equal to 10 mm;

* Type D: 6 pieces

according to the drawing *THz Magnet Type D.pdf*, direction of magnetization along z-axis (horizontal), thickness in z-axis equal to 20 mm;

* Typ E: 6 pieces

according to the drawing *THz Magnet Type E.pdf*, direction of magnetization along the y (vertical) axis, thickness in the z direction equal to 30 mm.

The drawings specify the dimensions and the required tolerances of the mechanical manufacturing of the blocks.

1. All blocks must be made of one type of NdFeB magnetic material with nominal parameters not worse than
	1. Residual Induction: Br ≥ 1,35 T
	2. Intrinsic Coercivity: Hcj ≥ 1592 kA/m
2. The Orderer requires verification of the parameters of the magnetic material by measuring its sample using a hysteresisgraph or other equivalent method.
	1. The measured value of the residual induction of the sample must not deviate from the nominal value by more than 2%.
	2. The measured intrinsic coercivity of the sample must not be less than the nominal value.
3. The Orderer permits that the blocks magnetized along the direction of the dimension of 100 mm (i.e., those of Type A, Type C and Type E) are manufactured by gluing them from a maximum of two smaller elements.
4. The surface of all blocks must be passivated or phosphated.
5. The blocks must be delivered in a packaging protecting them against damage or destruction during transport.
6. The magnetic parameters of each block must be individually measured using a Helmholz coil system or other equivalent method. The measurement results must be provided with each block in the form of a block passport. The Orderer requires the measurement to include:
* geometric dimensions of the block
* magnetic operating point (polarization) of the block expressed in Tesla
* angles of deviation of the actual magnetization of the block with respect to the nominal direction of the magnetization
* temperature at which the measurements were taken.

All measurements should be made at room temperature (20 - 25 ⁰C), with the measurement temperature being the same for all measurements with an accuracy of ±1⁰C.

1. Together with the magnetic blocks, the Vendor shall provide a cumulative Data Sheet of measurements for the entire delivery that shall include a statistical analysis of the results (i.e., the calculation of the average and the standard deviation for each type of measurement within a given type of blocks).
	1. The Orderer requires that for a given type of blocks, the measured polarization values do not differ from the average value by more than ±2%.
	2. The Orderer requires that for each type of blocks, the measured values of the angles by which the actual direction of magnetization differ from the nominal one are not greater than 2⁰.