The description of the subject

The subject is the delivery of the standard model for pressure tests in T-1 and T-3 aerodynamic wind tunnels along with end plates, strength calculations, the technical documentation, the inspection measurement after the manufacturing, checking templates, and a transport container.

The standard model for pressure tests:

1. The model: standard, for pressure wind tunnel tests

2. The material: stainless steel (1.4301/1.4571) or Ramax HH

3. The airfoil: NACA0012

4. The chord of the model: 0.5m

5. The span of the model: 1m

6. The surface roughness of the airfoil surface: Ra ≤ 0.2μm

7. The finishing: the chemical blackening for PIV

8. The number of pressure measurement points: 140

9. The diameter of pressure measurement points: 0.2/0.3mm

10. The factor of safety: k =2

11. Dynamic pressure acting on the model: q = 625 kg/m2 (for air speed V = 100m/s)

12. The thickness of the trailing edge of the model: 0.3mm

An additional equipment:

1. 2 sets of end plates (transparent and opaque) for the mounting in T-1 and T-3 wind tunnels (Polycarbonate/Duralumin) of the diameter equals three-times of the chord of the model

2. A transport container for a safe transport and the model storage model,

3. Checking templates of the airfoil of the model,

4. Spare parts,

5. Mounting hardware,

6. An additional pressure rake for drag designation with the length equal three-times of the chord of the model,

Documents:

1. Operating manual,

2. The 3D inspection measurement after the manufacturing,

3. The technical documentation.

Lead time: 3 months from the date of the order.