

TERMS OF REFERENCE FOR THE DRIVE (REDUCER) DEVELOPMENT

1. Drive application:

Purpose and application. Requirements for the overall and mounting dimensions.

2. Purpose of the development of a new drive:

What are the goals when developing a new drive and what does not suit used at the moment. Available analogues, with all available technical data.

Interchangeable involute gear wheel on the EC wheel in an old building.

3. Specifications:

3.1. Nominal drive power, kW

3.2. The frequency of rotation of the input drive shaft, min⁻¹

3.3. Maximum torque on the output shaft, Nm

3.4. The gearbox ratio, or range

3.5. Operation of the drive:

3.5.1. The rotation of the working bodies: the irreversible, reversible

3.5.2. Schedule and modes of loading drive

3.5.3. The perceived effort on the console input and output shafts of the gearbox

3.5.4. Continuous operating time per shift

3.6. Estimated life of the gearbox, an hour

3.7. Physical and climatic conditions: the work in the heated rooms, work outdoors, work outdoors, under a canopy, work in hot shops, etc.

3.8. Special design requirements

3.9. Requirements for the mass of the drive

4. Drive system as a whole

The gearbox design, the possibility of modifying it. Kinematic scheme of the drive a whole. Dimensional drawing of the drive.

5. Manufacturing technology

Where you want to manufacture gearbox if it necessary. Plans for the mass production drives development.