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1. general advice

This instructional manual serves a failure free using of our gear boxes under the attention of applicable regulations and safety instructions.

The CE – identification as well as the EC – declaration of conformity are not necessary, because gear boxes are not machines for the purpose of the EC machine directive.

2. delivery condition

The gear boxes are filled with lubrication and can be put on stream directly after the motor mounting.

Input and Output are treated with a corrosion protection. The corrosion protection has to be removed completely before mounting.

3. stocking

The gear boxes can be stocked dry and in original packaging appr. 2 years between 0°C up to +30°C. Please notice that our 24 months warranty starts with the delivery date. Due to that we recommend to restrict the storage time to a minimum.

4. important gear box datas – type shield

The type shield is the identification of the gear box. The corresponding F.No. of the gear box on the type shield is necessary for the identification of the gear box in our enterprise.

5. motor mounting

The motor mounting manual is attached on every gear box delivery.
See also www.neugart.de for download the motor mounting manual.

6. gear box mounting

The gear boxes can be put in in any position. The spigot and the locating faces have to be clean and undamaged and have to stand in exact position accuracy to the connected shafts, to prevent dangerous forces through mismatch for the bearings, shafts and housing in between the complete system.



Couplings, washers, toothings, chain wheel, etc. have to be fixed on the gear box output shaft with the help of proper clamping set. Tight fit or pitching can cause bearing damages and is to refrain categorically.

7. way of protection

The way of protection is IP 54 for the PLE/WPLE gear boxes and IP 65 for the gear boxes PLS/WPLS, PLF and PLS-HP.

8. lubrication

The gear boxes are lubricated. This lubrication is used under normal conditions as a permanent lubrication. A changing of the lubrication is not necessary.

9. sealing

To seal our gear boxes we use only high class shaft sealing rings. For the PLE/WPLE gear boxes we use sealed bearings. Through naturally wastage we recommend, at normal operating conditions, to check the impermeability of the shaft sealing rings not later than 20.000 operating hours. Please change if necessary.

10. continuous duty (S1)

The continuous duty or S1 duty is defined as the starting delay of the gear box without a break of min.15 min. or the power on time is higher than 60%. The temperature of the PLE/WPLE planetary gear boxes must not exceed 90°C surface temperature. The temperature of the PLS/WPLS, PLF planetary gear boxes must not exceed 100°C surface temperature. The temperature of the PLS HP planetary gear boxes must not exceed 120°C surface temperature.

Please notice that in all cases the motor itself can heat the gear box. In this case, please consultate the corresponding motor manufacturer.

11. contact

For further questions please contact:

Neugart GmbH
Keltenstr. 16

D - 77971 Kippenheim
Tel. +49 (0)7825-847-0
Fax +49 (0)7825-847-102
vertrieb@neugart.de

Please visit our Homepage www.neugart.de to download all technical datas.