GEARBOX REVISION | FOOD INDUSTRY

Stepper gear from packaging machine

Task

The task was to repair a worn-out and externally heavily stressed step gearbox. The industrial gearbox, weighing around 700 kg, is installed in a large packaging plant and is responsible for positioning egg cartons. Due to its very poor condition on delivery, a complete restoration of the gearbox was necessary. Among other things, the customer complained about problems with the accuracy and tightness of the gearbox. Threaded inserts had to be inserted, housing parts sandblasted and, due to severe corrosion, the shafts also had to be polished.

Work steps

1. Customer-side expansion and delivery

Delivery of the defective gearbox and internal transport to the gearbox service department. Gearbox inspection and preparation of a damage analysis.

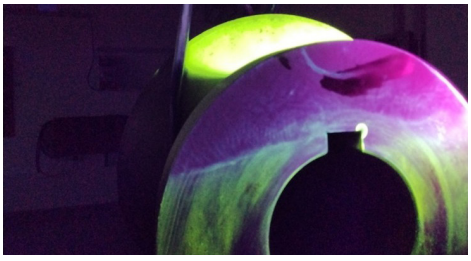
2. Disassembly

Disassembly of the gearbox into individual parts. List of spare parts required for repair.

3. Cleaning and priming

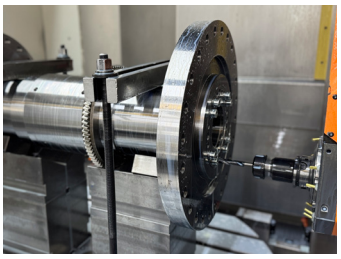
Clean the dismantled housing. Prepare for painting. Masking, blasting and priming the housing.

4. Damage analysis



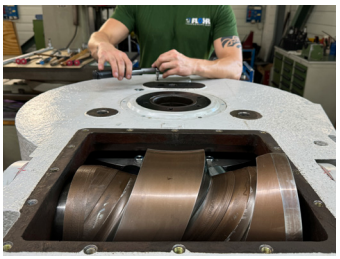
Dye penetration method for detecting cracks or damage in the curve track.

5. Spare parts production + installation



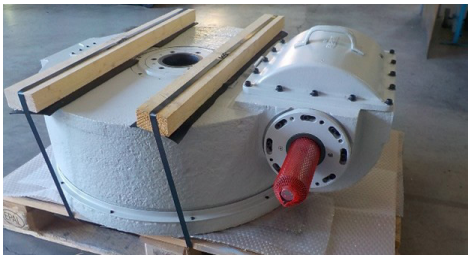
Insertion of helicoils to compensate for damaged or stripped threads on the housing.

6. Gearbox assembly



Gearbox assembly after replacement of roller star and wear parts. Leak test and test runs.

7. Housing painting and preparation for shipping



Painting of the repaired gearbox. Transport securing on wooden pallet.

8. Shipping

Handover to shipping company with high-quality packaging.

Our services

- Gearbox revision
- Gearbox repair
- Mechanical manufacturing
- Paintwork