

Overhaul of Gas-hydraulic damper

Dellner Couplers can offer a concept for overhaul of Gas-hydraulic dampers, which will increase safety, trainline availability and passenger comfort. Furthermore this brings a possibility to better control and plan for the maintenance costs.

The overhaul includes first a full disassembly and examination of the damper, that should be representative for the dampers in service, to find out the condition of the parts that are critical to its over-all function. After that Dellner recommends to which extent the overhaul should be performed. This way the cost and timeschedule for the overhaul, can be more precisely assessed.

The concept basically features two different levels, one basic version (step 1) and one more extensive (step 2). The step 1 version includes the parts that are most exposed to wear and relatively often must be replaced, such as seals and bearings. The step 2 version includes both the parts in stage 1 but comprises also other parts with a longer overhaul cycle, such as worn metallic parts. The work acc. to step 1 can mostly be performed at a local workshop, while the work acc. to step 2 most likely should be performed by the original supplier. Since the wear of the damper is due to vary with design- and service conditions it is difficult to tell with which frequency the step 1 and step 2 overhaul should be performed. This must be determined from case to case.

This results in:

- + A secure and functioning damper, i.e. better safety and passenger comfort
- + Preventive maintenance, i.e. better trainline availability
- + Possibility to take control over and thus plan for maintenance costs, with scheduled overhaul and a pre-defined scope of this

SCOPE FOR GAS-HYDRAULIC DAMPER OVERHAUL

Step 1	Sparepart kit comprising parts with shorter overhaul cycle, such as seals and bearings
Step 2	Sparepart kit comprising all parts included in step 1 and other parts with longer overhaul cycle, such as metallic parts exposed to wear

