

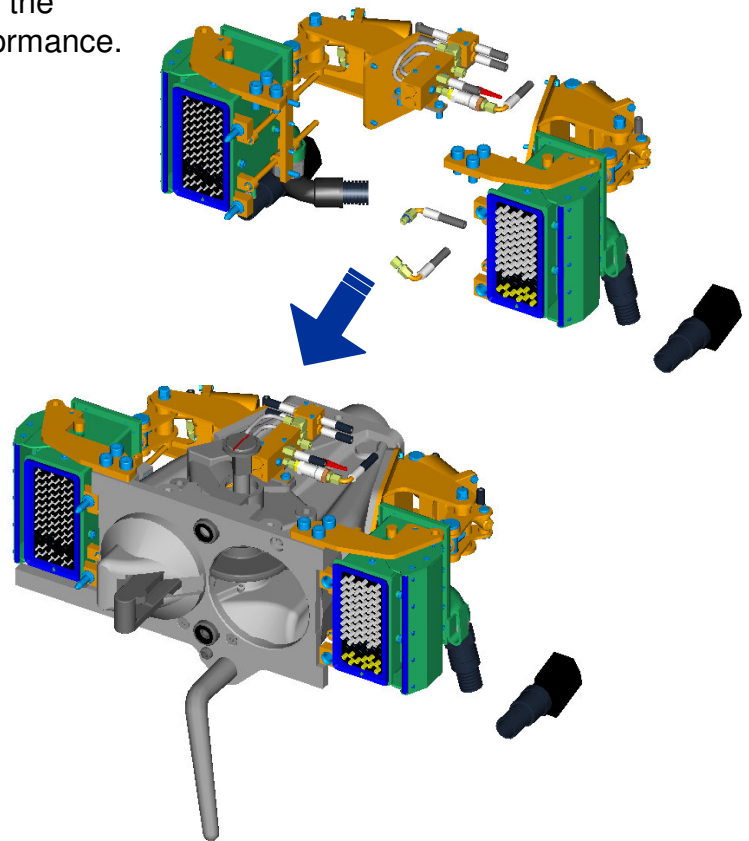
## Electrical Coupler upgrade

Dellner Couplers have developed a concept for upgrading of old Electrical Couplers to increase trainline availability, lower maintenance costs and create possibility to an electrical modernization of the train.

The design concept features pneumatical operation with linear movement including built-in sequence logic for the coupling/uncoupling procedure. The operating system is locked both mechanically and pneumatically in coupled position. The design also brings the possibility to use pin/sleeve contacts and thus transmit modern signals as Data, CCTV etc. Altogether this concept gives You a secure, slack-free connection with less wear on the contacts bringing also enhanced electrical performance.

This results in:

- + A secure connection, i.e. better safety and trainline availability
- + Less wear on contacts, i.e. lower maintenance costs
- + The couplers will be prepared for an electrical modernization of the train



### TECHNICAL DATA ELECTRICAL COUPLER UPGRADE

<b>Pneumatical system</b>	Two individual cylinders controlled by a shared pneumatic system, that has built-in sequence logic and pneumatical locking function
<b>Work pressure range</b>	Approx. 4-10 bar
<b>Mechanical system</b>	Separate linkage for each operating cylinder with linear movement, featuring an "over-knee" mechanical locking function