

### AN AUTOMATIC QUANTITY GREASE LUBRICATION SYSTEM FOR SPINDLES OF AN UNDERFLOOR LIFTING SYSTEM FOR TRAINS.

Underfloor lifting systems are used to lift railed vehicles for maintenance.

The hall floor must be freely passably during and after maintenance and when the inspection pits are not desired for safety issues. The train will be lifted to allow working on the underside.

#### Reference / Case Study

*Customer: Pfaff-Silberblau Verkehrstechnik GmbH & Co. KG Am Silberpark 2 - 8 86438 Kissing.*



#### The lubrication requirements resolved by Dropsa

The spindles have to be lubricated with grease during the lifting and lowering procedure.

#### *Underfloor lifting system Linz – Austria*



#### *Underfloor lifting system Guangzhou - China*

### Parts used in the Dropsa system

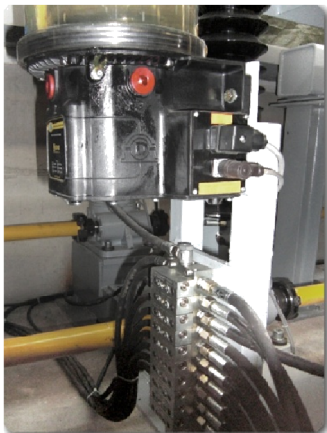
#### Bravo pump with SMX Dividers

Control of the system is done handled by the control panel of the lifting plant.

The example equipment lubricates every 20 minutes of the lifting/lowering procedure for 5 minutes. No soon than 20 minutes later, the next lubrication cycle will be started.

Future systems include on customer request, an automatic control and monitoring of the Bravo pump via an Ultrasensor on the SMX Dividers for immediate problem diagnosis.

Using a proximity the quantity of grease can be defined more accurately and the lubrication is guaranteed.



### Particular advantages of Dropsa lubrication

- Very exact lubrication is possible with the Ultrasensor
- IP65 in the temperature range from -25 – 80°C (-13 - 176°F)
- Changes to the quantity of lubrication are possible even after installation

### Feedback from customer

The centralized lubrication of our equipment with Dropsa technology offers the safety our customers need with their lubrication and leads to a considerable reduction in maintenance costs.