

FHS – Grease Handling System

Supplying dosing systems with industrial greases:
reliable, clean, economical



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So-called drum or barrel pumps are usually used to supply dosing systems with industrial greases at semi- or fully-automatic production facilities. They pump the industrial greases from the original drums into the dosing systems, either directly or via intermediate degassing units and pressurisation systems. When the same type of grease is used in several production facilities, it is often supplied via very complex piping systems, whereby the central grease supply components are located near to or centrally in the production. A number of logistical and technical disadvantages are the result:

- ❖ Long supply lines which require a great deal of maintenance
- ❖ Valuable production space is taken up
- ❖ Long interruptions to production when grease drum is changed
- ❖ Risk of grease carryover and contamination
- ❖ Lubricant may separate due to high medium primary pressures
- ❖ Specialist personnel needed to change drums



FHS – fill centrally, extract decentrally

The patented Grease Handling System FHS consists of changeable grease storage containers, one central filling station and as many decentralised extracting stations as required. As an economical alternative to the usual methods of grease supply to dosing systems, it offers a novel supply concept with numerous logistical and technical advantages:

- ❖ Closed system reduces grease contamination and carryover in comparison to open drums of grease
- ❖ Compact extraction stations replace barrel pumps and drums of grease in the workplace
- ❖ Constant material pressure before the dosing valves guarantees precisely reproducible dosing amounts
- ❖ Reduction in amount left to be disposed of and number of grease drums
- ❖ Possible to change grease storage containers without stopping production

Central filling station

The central FHS filling station, connected to a barrel or drum pump, fills the handy, exchangeable grease storage containers automatically. Mechanical coding on the storage containers and the filling station ensures that no containers can be used which have already been used for other types of grease and coded appropriately. Integrated controls monitor the automatic filling process with filling level sensors and form an interface to the overall control systems.

Grease storage containers

The grease storage containers, which are made of aluminium, are easy to transport and adapted for compressed air and grease supply in the filling and extraction stations with automatic couplings. A magnetic ring fitted in the piston permits the filling level to be checked at any time, enabling changeover intervals to be planned in advance.

Decentralised extraction station in the workplace

The extraction stations, which are constructed almost identically to the filling stations, are installed in the immediate vicinity of the dosing systems and permit the coded grease storage containers to be changed quickly and reliably.

Technical data

Net volume per container :	3.0 l
Net weight :	7.5 kg
Compressed air max. :	8.0 bar
Grease pressure max. :	10.0 bar
Power supply :	230 V