



WELL INTERVENTION

Pumps & Panels

TIS Grease Injection Units



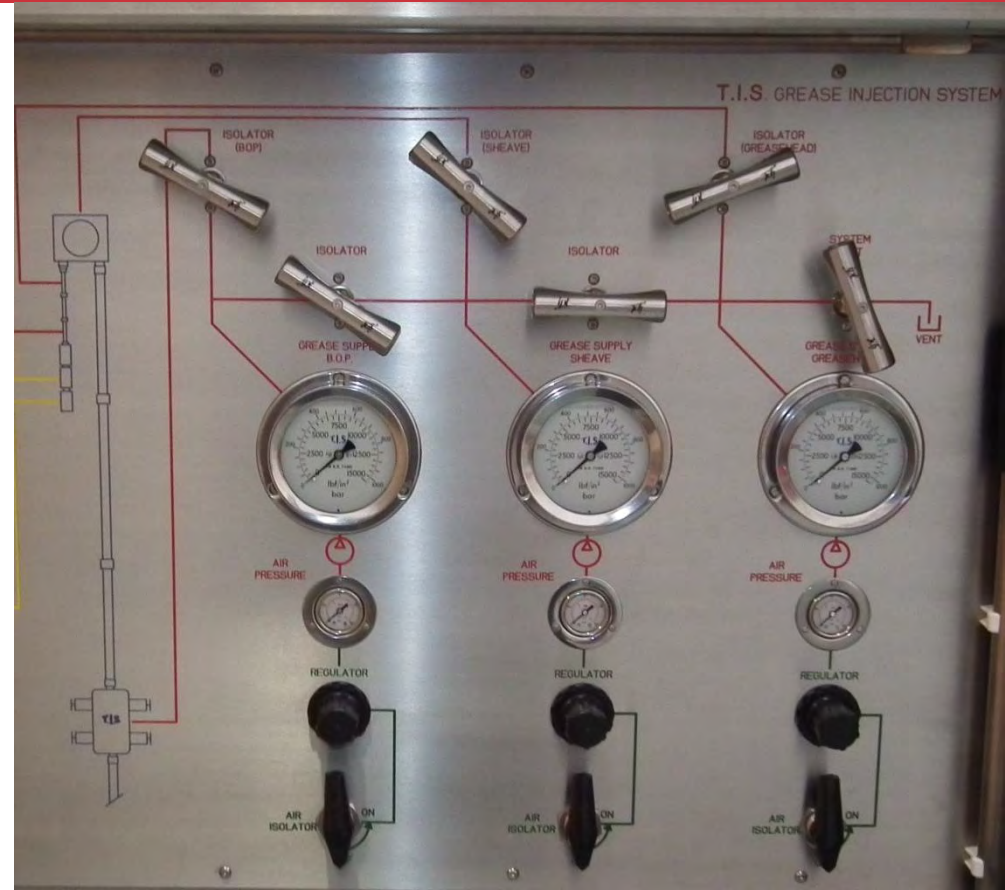
TIS Manufacturing | Well Intervention | Grease Injection Units

TIS Grease Injection Units are designed to introduce grease into a lubricator stack, typically for braided line applications, during well intervention operations.

Bespoke units can be engineered to meet specific operational requirements, accommodate multiple functions, and retain an operator friendly build that allows for easy maintenance in the field.

Features :

- ▶ ATEX Zone compliant design
- ▶ Wet Centre Hose Reel
- ▶ Pack-off & line wiper control functions
- ▶ Carbon or stainless steel construction
- ▶ Robust & compact design



Grease Injection Units | Wet Centre Hose Reels

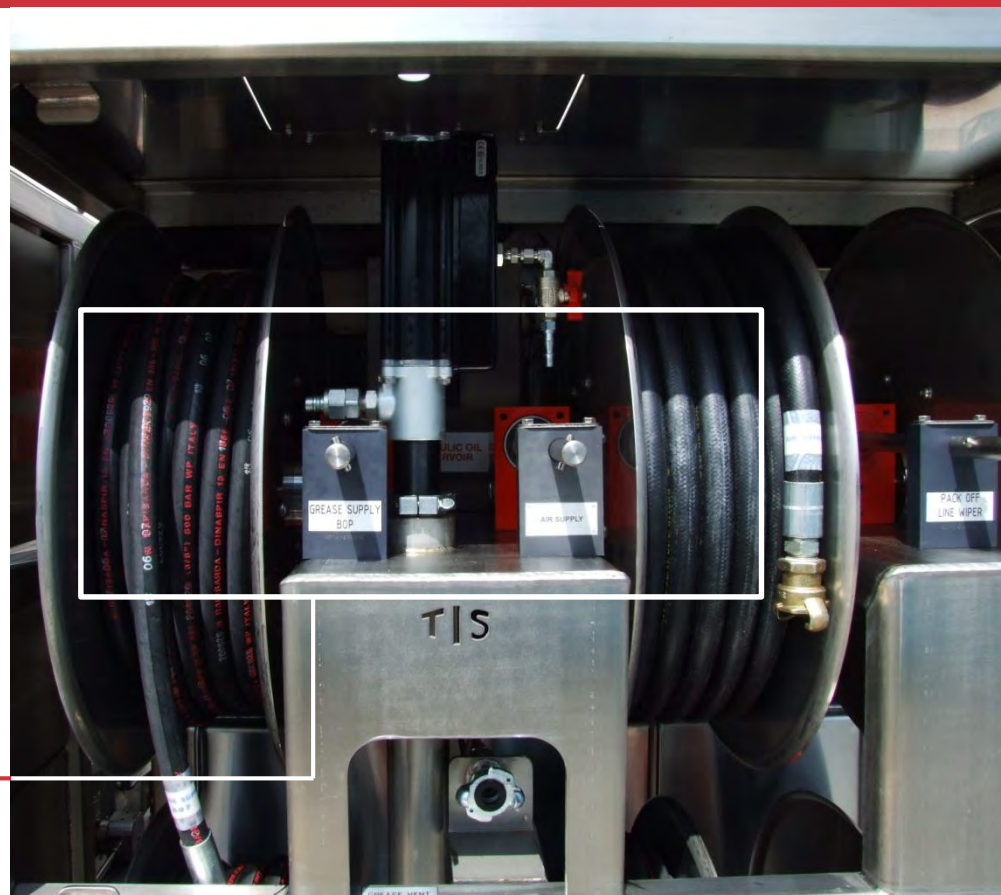
Wet Centre Hose Reels are fitted to the unit for all hydraulic functions including grease supply, air supply and pack off line wiper supply.

Manufactured entirely from stainless steel and bronze, the reels are provided with grease nipples for lubrication and are typically capable of storing 100 feet of hose.

Hose reels are fitted with a unique modular hand-wind recovery system that allows for effortless operation when rewinding the hoses.

Spare bulkhead mounted connectors are typically featured to allow additional hoses to be run from the unit.

WET CENTRE HOSE REELS

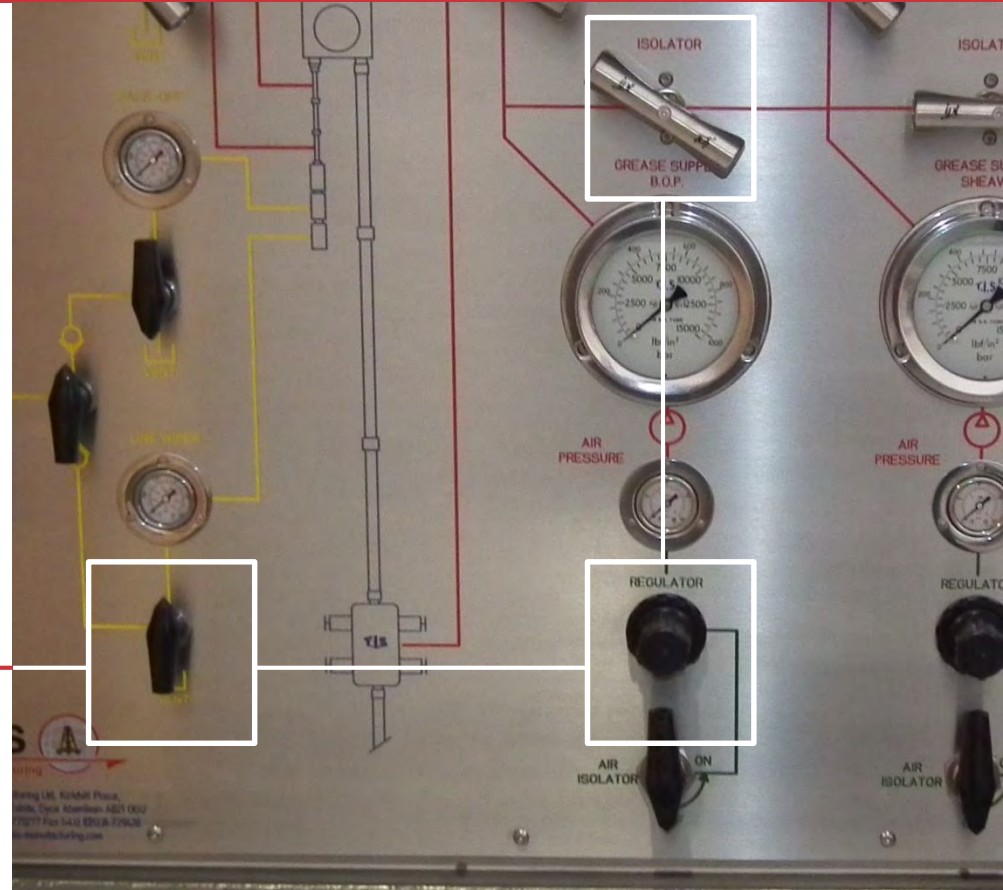


Grease Injection Units | Colour Filled Engraving

Colour Filled Engraving is used on all panels to ensure that individual controls and functions are clearly identified, eliminating the risk of operator error.

A selection of **Coloured Nylon Pipework** is used on the rear of the panel to identify individual systems.

COLOUR FILLED ENGRAVING



Grease Injection Units | Exterior Doors with Viewing Windows

Exterior Doors are hinge fitted to protect the control panel and feature **Viewing Windows** to monitor pressure indicators while closed.

EXTERIOR DOOR

VIEWING WINDOW



Grease Injection Units | Stainless Steel Framework

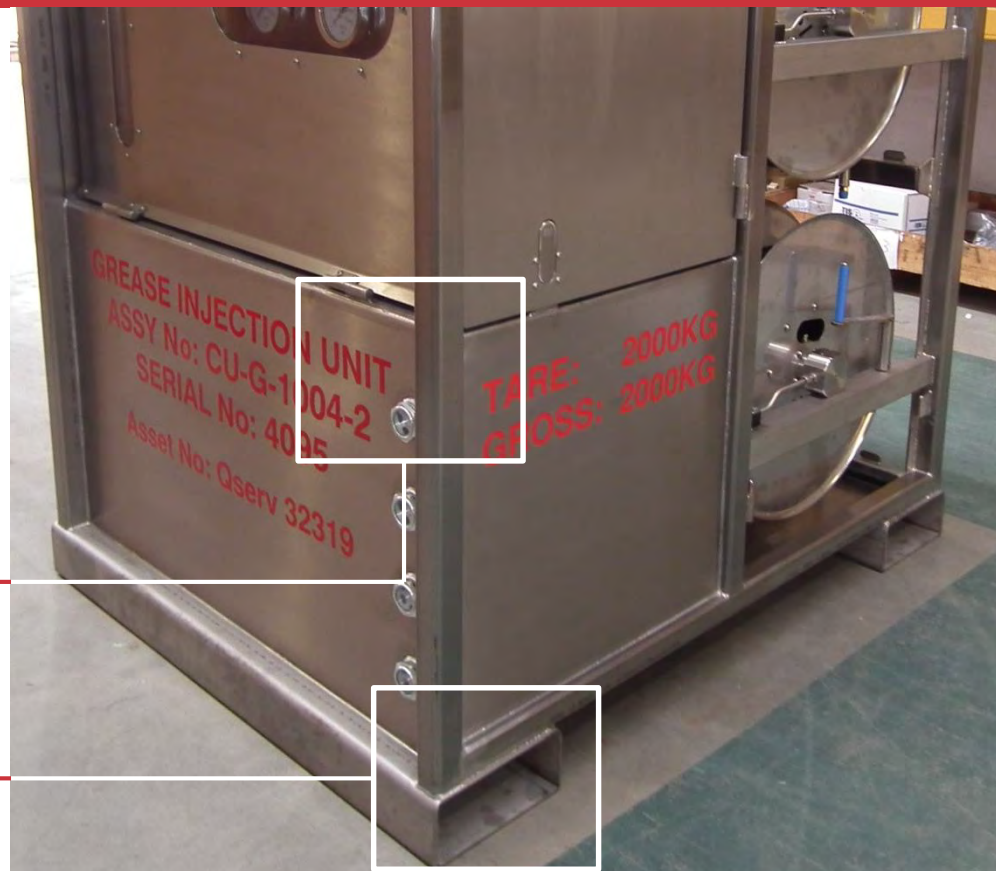
Wellhead Control Unit framework is constructed from **316 Stainless Steel** with both four-point lift capacity and forklift pockets.

The forklift pockets are provided 'end on' to the unit allowing it to be removed from shipping containers by forklift, as required for onshore handling.

Stainless steel hinged doors are fitted on all sides of the unit for easy maintenance access.

STAINLESS STEEL FRAMEWORK & DOORS

END ON FORKLIFT POCKETS



Grease Injection Units | Pump Systems

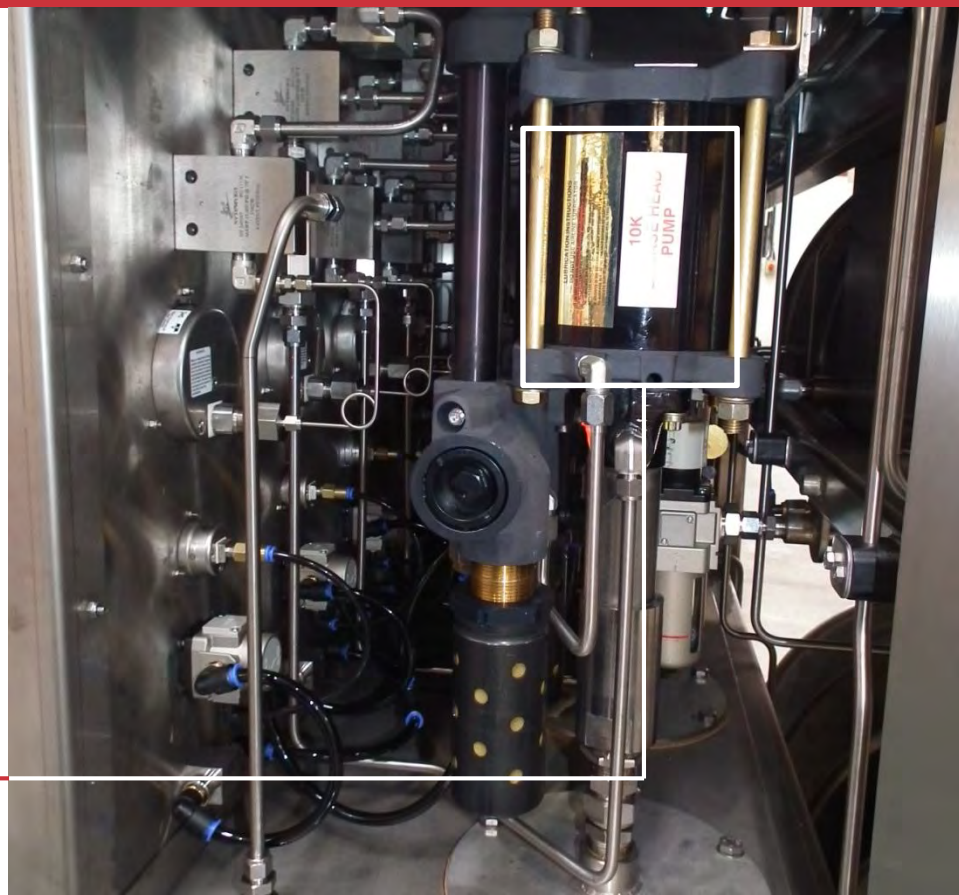
All **pump systems** have independent controls, air on-off, pressure control valve, pressure isolator and vent valve. Inter system isolator valves allow the operator to use all pumps to feed one line if required.

Grease supply is typically via three wet centre hoses, whilst a fourth reel is used for grease return.

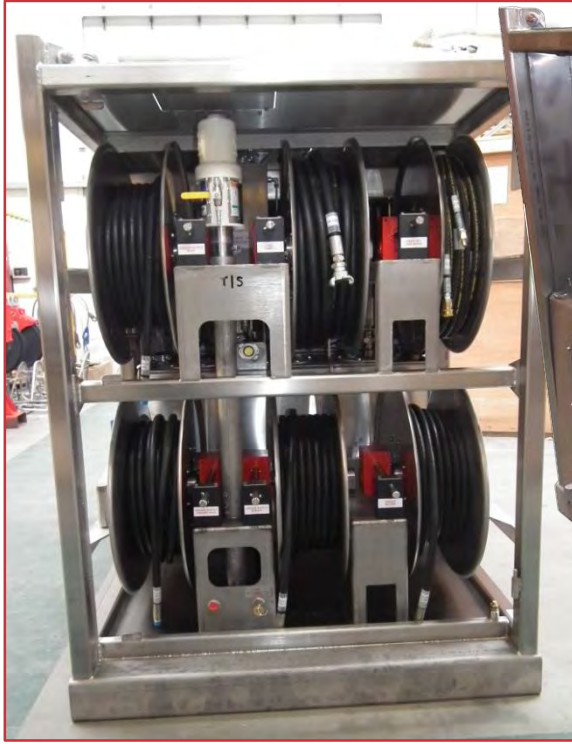
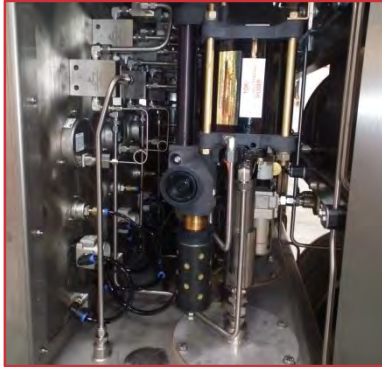
Standard models feature a 450 litre stainless steel **grease reservoir** with a drain plug fitted to the bottom to allow fluid to be drained when necessary.

A hand pump system is used for line wiper and pack-off functions, and is supplied with oil from a small stainless steel reservoir.

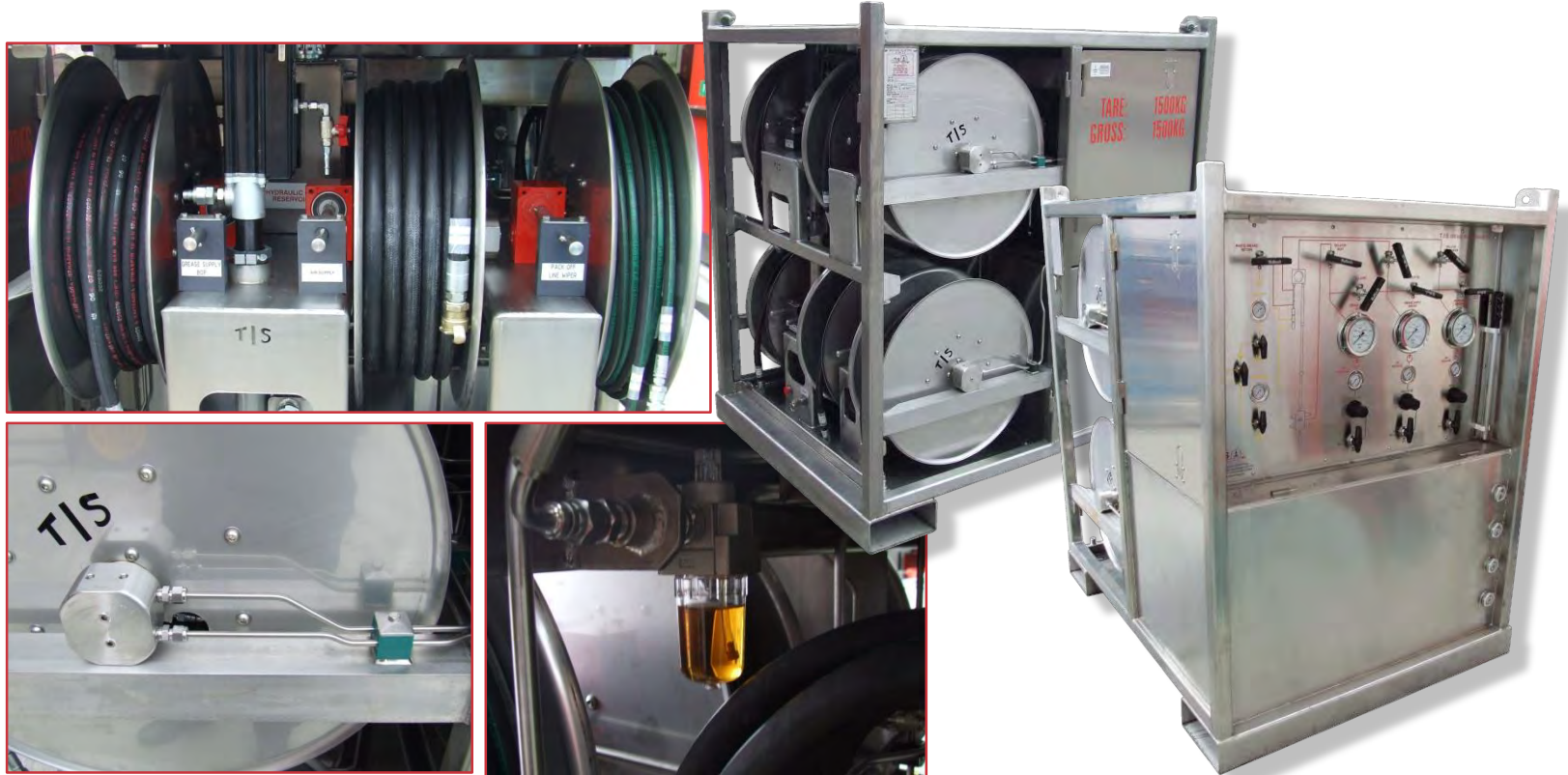
AIR HYDRO PUMP SYSTEM



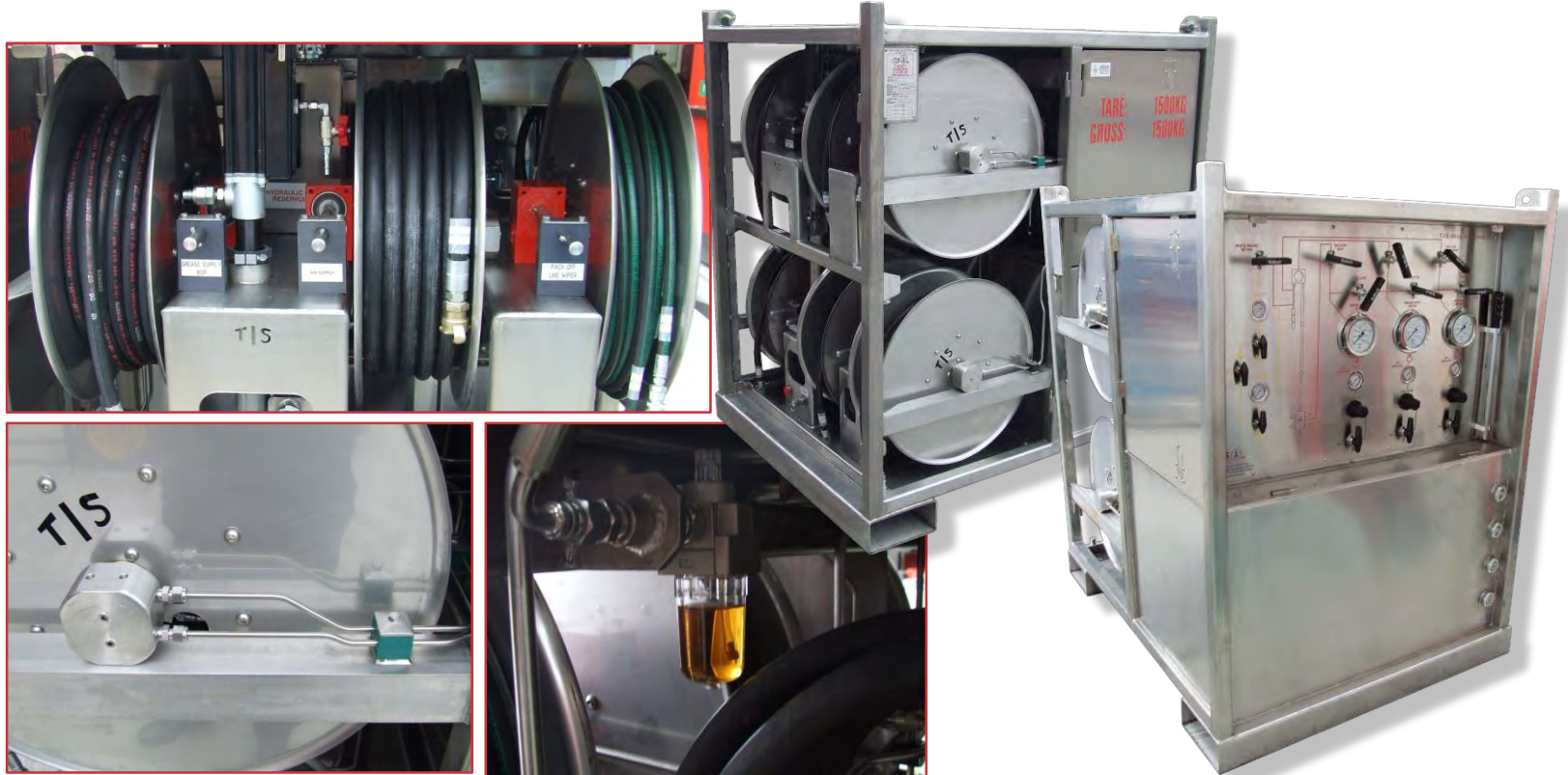
Grease Injection Units | Equipment Deliveries



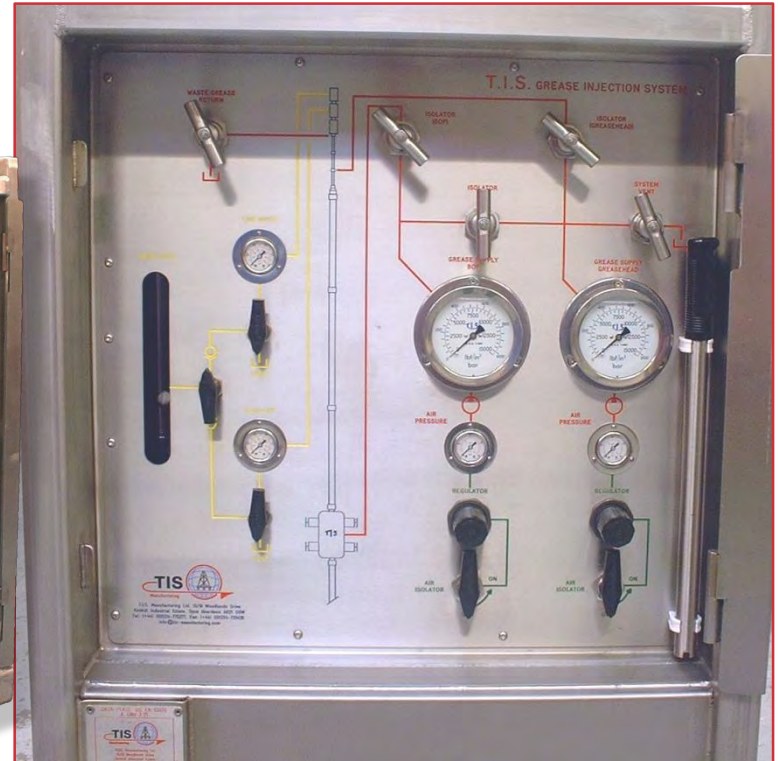
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