



## RELIABILITY SOLUTIONS

### QDS SERVICE PODS

*The increasing demand from Underground Mining for fluid cleanliness, filtering, storage and dispensing has lead Integrated Reliability Solutions to design a range of QDS Pods which are aimed at addressing this growing demand.*

Our solutions have been developed as a result of observing some of the following existing issues with the current Underground Service System:

1. Non Compliance with Australian Standards
2. Difficulty of operation and maintenance
3. Inadequate Fluid Cleanliness and Filtration
4. Inadequate Tanks size & Overfill protection.
5. Use of cheaper unreliable equipment
6. Not designed of Underground Climatic / Environmental Conditions
7. Lack of Work Space
8. Slow service times

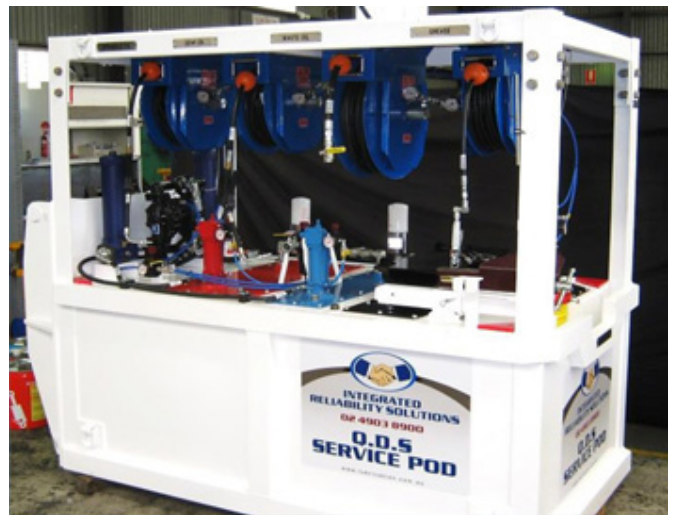


Figure 1 – IRS QDS SERVICE POD



Figure 2 – IRS QDS SERVICE POD

IRS Designed and Manufactured Q.D.S Service Pod has addressed the follow issues:

1. Complies with Australian Standard AS 1940
2. Increased Fluid Cleanliness levels
3. Appropriate Tank size and overfill protection
4. Prevents Water/Moisture Ingression to storage systems
5. Reduced service times
6. Reduce operation and maintenance time
7. Uses high quality well tested products
8. Suitable for Underground conditions
9. Increased work space and include work vice

# QDS SERVICE PODS

## Specifications

- 1700L spill retention bund
- Storage and dispensing - to AS1940
- Fluid filterability - to ISO 68, 220 @ 5 degrees Celsius
- Fluid Cleanliness Codes - ISO 4406 - ISO220 @ 16/13
- Max pump oil flow - 30 L/min (varies on viscosity at ambient temperature)
- Max fluid pressure - 500 psi
- Max Grease Pressure – 5000 psi
- Max incoming air pressure - 100 psi (0.7Mpa)
- Max air consumption - 40 CFM
- Noise level - maximum 79.5 dB(A) @ 30 cycles/min @ 100 psi air pressure
- Lincoln 5:1 air operated piston oil pumps
- Lincoln 50:1 air operated piston grease pump
- Graco 1:1, 1" diaphragm Coolant Pump
- Delivery hose reach – 15m
- Tare weight (empty) 4.3 tonnes

## Features

- Non-Metallic air service unit – filter, regulator & lubricator.
- Pall inline filter housing with absolute rated media 2,5,10 & 20 micron available.
- Pressure bleed down valve, & filter clogging indicators.
- Pall filter housings are fitted with bypass
- Storage for 2 grades of oil, totalling 1200 litres, and 900 litres of waste oil.
- Lockable Air isolation valve
- Fluid sampling point - downstream of filter
- Hose assemblies – crimped hydraulic assemblies
- Delivery hose fitted with  $\frac{3}{4}$ " BSP nipple
- Fluid Level dip sticks fitted to storage tanks
- Over-fill shut-off valves on tank fill lines
- Waste Oil drain sump
- Work Vice

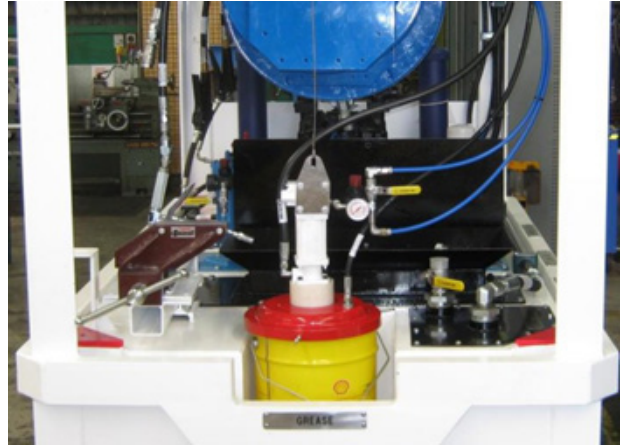


Figure 3 – Grease System & Work Vice

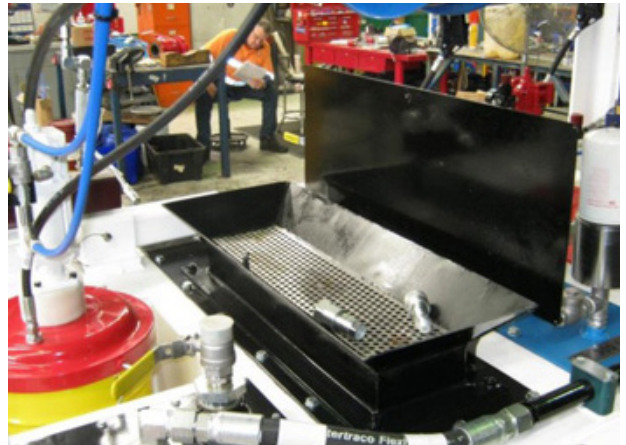


Figure 4 – Waste Oil Strainer and Tanks System

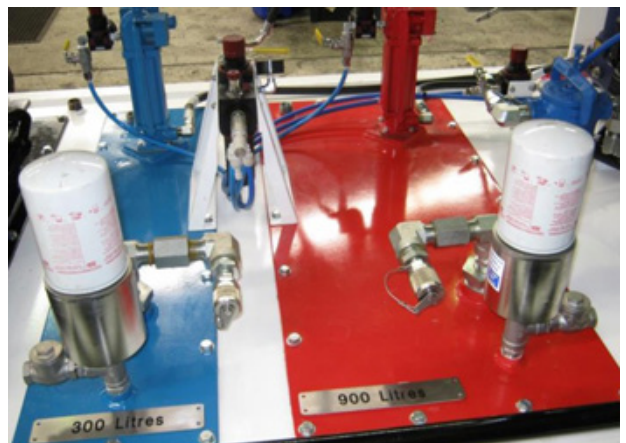


Figure 5 – 300L Gear oil & 900L Hydraulic Tank System