OIL FILLING
VACUUM DEGASSING SYSTEM

MECHATECH SYSTEMS
TECHNICAL VACUUM EXCELLENCE SINCE 2008

MOBILE, 30 LITRE CAPACITY, GLASS VACUUM CHAMBER, CENTRAL CONTROL PANEL

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The Oil Filling/Vacuum Degassing System consists of a mobile, trolley mounted, glass oil reservoir with aluminium base and top plates, fluid and vacuum pumps and a control panel with vacuum, fluid and temperature instrumentation.

PRINCIPLE OF OPERATION



During the degassing cycle, the fluid pump continually circulates oil through an in-line filter, heater block and spreader plate, back into the reservoir

Throughout this cycle the chamber is evacuated using the onboard vacuum pump

Pressure is monitored via gauges mounted on the control panel

During the tool fill cycle, the operator evacuates the tool, then diverts the flow of oil to fill the tool

An indicator on the control panel, when illuminated, warns the operator of the need to replace the filter

The system is bunded with a built in tray providing 110% oil capture capacity

The system is mounted on a 300 kg capacity trolley with tough, impact-resistant, 1-piece plastic shelves, polypropylene castor housing, cushion rubber wheels for smooth movement and a handle

TECHNICAL SPECIFICATION

Chamber	Borosilicate 3.3 glass
Fill capacity	30 litres
Ultimate vacuum	<1 x 10^{-1}mbar
Tool filling flow rate @50 psi, ambient, 5.3mm orifice	1 litre/min
Electrical	230V, 50Hz, 1 ph, 3 KW
* Overall dimensions (w x h x l)	600 x 1750 x 1020 mm
* Chamber (internal) Dimensions (h x dia)	706 x 300 mm
* Weight (Empty)	180 kg
Noise	< 80 dB
Filtration level	Down to 1 micron
Communications	Ethernet - Modbus TCP
Bunded	110% oil capture capability
Heating	Ambient to +60°C
Trolley	Impact resistant shelves, castors
Water content measurement	Yes
Data logging	Yes

* For guideline purposes only - subject to change

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