

OIL FILLING VACUUM DEGASSING SYSTEM

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



The MechaTech Systems 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.



STANDARD 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 300kg 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:	$< 1 \times 10^{-4}$ 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 and subject to change

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