

## Mobile Nitrogen Test Set

### >MSTS1<



The nitrogen filling equipment has been developed for the combat aircraft EUROIGHTER.

For the combat aircraft EF2000, the equipment is used for nitrogen filling and testing of the pressure vessel in the fuselage center part and of other components.

The nitrogen filling equipment can be adapted for all other application areas requiring a nitrogen supply.

Only the adaptations have to be modified to the respective purpose of use.

- > The inlet pressure is charged via an external pressure supply.
- > For pressure indication, an intelligent 12"-control panel is implemented.
- > The indication of the outlet pressure is readable up to a distance of 7m, also in case of solar radiation.
- > The reference pressure values can be entered via the control panel. The >MSTS1< regulates the required pressure automatically.
- > The nitrogen filling device features one low pressure circuit and one high pressure circuit.

## GENERAL INFORMATION

- > The equipment can be parametered and calibrated for long-term guarantee of high measuring accuracy.
- > The nitrogen filling equipment is fitted in a stable hard-top case with fixed castors and a telescopic grip.
- > There is an additional storage case for adaptations and hoses.

## TECHNICAL DATA

<p>&gt; <b>Electric supply (requirements):</b></p> <p>Mains supply: 1/N/PE AC 50Hz 230V            Nominal current: 1A            Power: 230VA            Short-circuit current: max. 6kA</p>	<p>&gt; <b>Measuring accuracy:</b></p> <p>Measuring accuracy in total area: ± 0.1bar            (± 1.45psi)</p>
<p>&gt; <b>Pneumatic supply (requirements):</b></p> <p>Medium: cleaned nitrogen            Inlet pressure: min. 160bar / max. 280bar            (min 2,320psi / max. 4,060psi)</p>	<p>&gt; <b>Operating conditions:</b></p> <p>Altitude: 0 to 1,000m            (0 to 3,280.8ft)            Operating temperature: 10 to 35°C            (50 to 95°F)            Storage temperature: 0 to 60°C            (32 to 140°F)            Air humidity: 5 to 95%</p>
<p>&gt; <b>Pneumatic parameters:</b></p> <p>Outlet pressure: 0 to 140bar            (0 to 2,030.5psi)</p>	<p>&gt; <b>Dimensions and weight:</b></p> <p><b>&gt;MSTS1&lt;:</b></p> <p>Length: approx. 830mm (32.7in)            Width: approx. 520mm (20.5in)            Height: approx. 400mm (15.7in)            Weight: approx. 52kg (114.6lb)</p> <p><b>Accessory case:</b></p> <p>Length: approx. 540mm (21.2in)            Width: approx. 430mm (16.9in)            Height: approx. 300mm (11.8in)            Weight: approx. 16kg (35.2lb)</p>
<p>&gt; <b>Pressure ranges:</b></p> <p>Low pressure circuit:            - Pressure range: 0 to 16bar (0 to 232.0psi)            ± 0.3bar (± 4.3psi)</p> <p>High pressure circuit:            - Pressure range: 1 to 140bar (14.5 to 2,030.5psi)            (± 1bar) (± 14.5psi)</p>	

## OPTIONS

A wide range of options is available to fulfil our customers' requirements.