

# Cabin Pressure Test Trolley

## >KDP20NG<



Developed for pneumatic pressure tests on aircraft types according to ATA Chapter 36.

Three tests can be carried out:

- > Preliminary Seal Leak Check
- > Cabin Proof Pressure Test
- > Cabin Air Leakage Test

It is possible to adapt this trolley for pressure tests with other parameters.

- > Menu-driven operation and indication on a Touch-Screen-Panel
- > Independent operation by integr. Roots blower
- > Connection of ACT-sensors is possible
- > Max. current consumption limitable via Software
- > Emergency power supply for ensuring uninterruptible and constant voltage supply
- > Additional power supply (230V) for computer operation without connection of main supply line
- > Integrated air cooler

## MISCELLANEOUS

- > Required pressure and climb / descent rate can be set by the operator via the Control-Panel
- > The main frame consists of a steel profile frame with covers which can be easily opened for maintenance tasks
- > Easy maneuverability by chassis with turntable steering, solid tyres and integrated, automatic fixing brake
- > Multi-colored signal lamp for optical indication of the respective operational state
- > High control accuracy by means of electrically operated valves with high precision positioning

## TECHNICAL DATA

<p>&gt; <b>Pneumatic parameters:</b></p> <p>Pressure: 810mbar (11.75psig),                  Flow: 1 kg/s = 50m<sup>3</sup>/h = 1760 SCFM                  (at 20 °C and 101.325 kPa) for UUT</p>	<p>&gt; <b>Operating conditions:</b></p> <p>Operating temperature: -15 to +35°C (5 to 95°F)                  Storage temperature: -20 to +60°C (-4 to 140°F)                  Altitude: up to 1,000m (3,300ft)                  above MSL                  Rel. air humidity: 5 to 95%                  (non condensing)</p>
<p>&gt; <b>Electrical supply (requirements):</b></p> <p>Mains connection: 3/PE AC 50Hz 380V                  Nominal current: 160A                  Performance: 105kVA                  Prefuse: 160A                  Short circuit current: max. 55kA</p>	<p>&gt; <b>Measurements:</b></p> <p>Pressure: 0 to 1.0bar (0 to 14.5psig)                  (2 off) ±0,25% of full scale</p> <p>Flow: 0 bis 1kg/s                  (1 off) ±3% of full scale</p> <p>Humidity: 0 to 100%                  (1 off) ±5% of absolute value</p> <p>Temperature: 0°C to 100°C (32°F to 176°F)                  (1 off) ±1°C (1.8°F) of absolute value</p> <p><u>ACT-Sensors:</u>                  Pressure: 0 to 1,000mbar (0 to 14.5psig)                  (3 off) ±0.2% of full scale</p>
<p>&gt; <b>Dimensions and weight:</b></p> <p>Length (vertical tow bar): 6,500mm (255.9in)                  Length (horizontal tow bar): 7,500mm (295.3in)                  Width: 2,100mm (82.7in)                  Height: 2,850mm (112.2in)</p> <p>Weight: approx. 6,000kg                  (13,230lb)</p>	

## OPTIONS

Various options are available to meet our customers' requirements, for example: adaption to numerous UUTs, test program requirement, dimensioning,...