

Motor spindle test stand

>PMS2<



Developed for the testing of components, installed on different aircraft systems, for their identification data, such as force, stroke - end play, current, voltage, time, speed, etc.

> Testing of the following components can be carried out:

- 41-2-1100, Actuator-ERA and version thereof
- 94-1-1100, Actuator-ERA and version thereof
- 43-1-1100, Actuator-APU and version thereof
- 106-1-1100, Actuator-APU and version thereof
- 129-1-1100, Pitch Trim Actuator and version thereof
- 55-1-1100, Flap Actuator and version thereof
- 265-1-1100, Actuator and version thereof

GENERAL INFORMATION

- > The test stand is equipped with measuring and regulation racks, a bridge serving as interface between UUT triggering and UUT, a variable DC supply unit, and a laser printer.
- > UUT loading is effected by means of a hydraulically controlled load cylinder.
- > Using various mechanical adapters and test cables, different UUTs can be mounted and tested. The test installation is prepared on a thrust bridge. The UUT is mounted between the middle plate clamping fixture and the load cylinder. The middle plate clamping fixture can be fixed in any desired position along the thrust bridge to adjust it to the different types of actuators. The stroke measuring device is mounted on the rear of the thrust bridge.
- > The test run can be effected either by execution of an automatic program or by execution of a special test program. The automatic program carries out the test i.a.w. the respective test specification; it records the required measurement values, enters them in a test report and prints the protocol. The measurement values that are out of tolerance are identified (bargraph). On selection of the special test program, the operator can carry out adjustments (depending on the test requirements) on the UUT and repeat a test, as necessary.
- > To protect the operating personnel, the test stand is equipped with a protective cover with door contact switch.

TECHNICAL DATA

<p>> Computer system:</p> <p>INTEL Pentium, Industrial standard (frequency 200MHz)</p> <p>Graphics, 1280 x 1024 pixels, 256 colors</p> <p>32MB RAM, 1.5GB harddisk, tape (3.2GB)</p> <p>Modular, intelligent measuring and control modules</p> <p>Regulator adjustment: mouse, keyboard or potentiometer</p> <p>YT, XY-diagram according to the user's layout</p> <p>Standard graphic user environment</p> <p>"What you see is what you get" protocol layout</p> <p>Laser printer for test report sheet printing</p> <p>Calibration program with error correction</p> <p>Postprocessing and meas. data export</p>	<p>> Measurement range:</p> <p>DC voltage Motor 1: 0-40VDC cl. 0.1</p> <p>DC voltage Motor 2: 0-40VDC cl. 0.1</p> <p>DC current Motor 1: 0-80A cl. 0.25</p> <p>DC current Motor 2: 0-80A cl. 0.25</p> <p>Force: 0-5kN cl. 0.1</p> <p>Force: 0-20kN cl. 0.1</p> <p>Stroke: 0-1000mm ±0.05mm</p> <p>Stroke (end play): 0-30mm ±0.01mm</p> <p>Resistance: 3-25000hm cl. 0.2</p> <p>Voltage Pot.: 0-10VDC cl. 0.2</p> <p>Temperature test chamber: 0-100°C ± 0.5% +sensor i.a.w. DIN43760</p>
<p>> Supplies:</p> <p>Hydraulic supply: 250bar</p> <p>Mains supply: 3/N/PE AC 50Hz 400V max. 25A</p>	
<p>> Dimensions test stand:</p> <p>LxWxH: 2860 x 1300 x 1980mm</p>	

Technical data are subject to change!