



TESTING SOLUTIONS

GEARBOXES TEST STAND / B_22384



B_22384 is designed to test aeronautical gearboxes with different dimensions and power; from accessory gbx to power gbx.

- End assembly test: right assembly test, shaft seal proof test and bearings lubrication flow values.
- Gbx proof: proof of conduits and casing
- Flushing: internal conduit cleaning and bearings lubrication flow values

The gearboxes under test, installed in special trolleys, are putted into a soundproof cabinet that contains the test bench and all the equipment. A power hydraulic module allows to drive the gearboxes at different speed; the lubricating unit allows to thermoregulate and filtrate the oil and defines flow test condition: pressure, temperature and flow inlet.

The entire test bench include:

- DAS (Data Acquisition system)
- Thermochiller
- Air filtration system
- Soundproof cabinet
- Service bridge crane

TECHNICAL DATA:

- OIL: MIL L 23699F
- VOLUME: 300 lt
- TEMPERATURE: $20 \div 120^{\circ}\text{C}$ [$\pm 0,5^{\circ}\text{C}$]
- FLOW: $0 \div 30$ lpm
- OIL SUPPLY LINE: 3
- PRESSURE: 1500kPa
- SPEED: $0 \div 4000$ rpm [± 1]
- POWER: 8 kW

INSTRUMENTATION:

- FLOW METERS
 $0,60 \div 30$ lpm
 $0,45 \div 19$ lpm
 $0,38 \div 11$ lpm
- TEMPERATURE PROBES: thermocouples TcK (11)
- PRESSURE SENSORS: $-100 / 500\text{kPa}$ [$\pm 0,04\%$]
 $0-2000\text{kPa}$ [$\pm 0,04\%$]
- PICK UP

SAFETY DEVICES:

- Interlock doors
- Emergency pushbutton
- Safety pressure switch
- Safety thermal switch

POWER SUPPLY:

- Electric: 25 kW 400V 3F+N+PE
- Air: 6 bar / $\frac{1}{2}$ "
- Water: 3,5 bar / $1''-1/2$

DIMENSIONS and WEIGHT:

- L, p, h: 3000 x 3000 x 2850 mm;
- Raw load: ~ 4000 kg

COLOUR:

- Standard: Gray RAL 7035.

NOTE:

- As costumer request

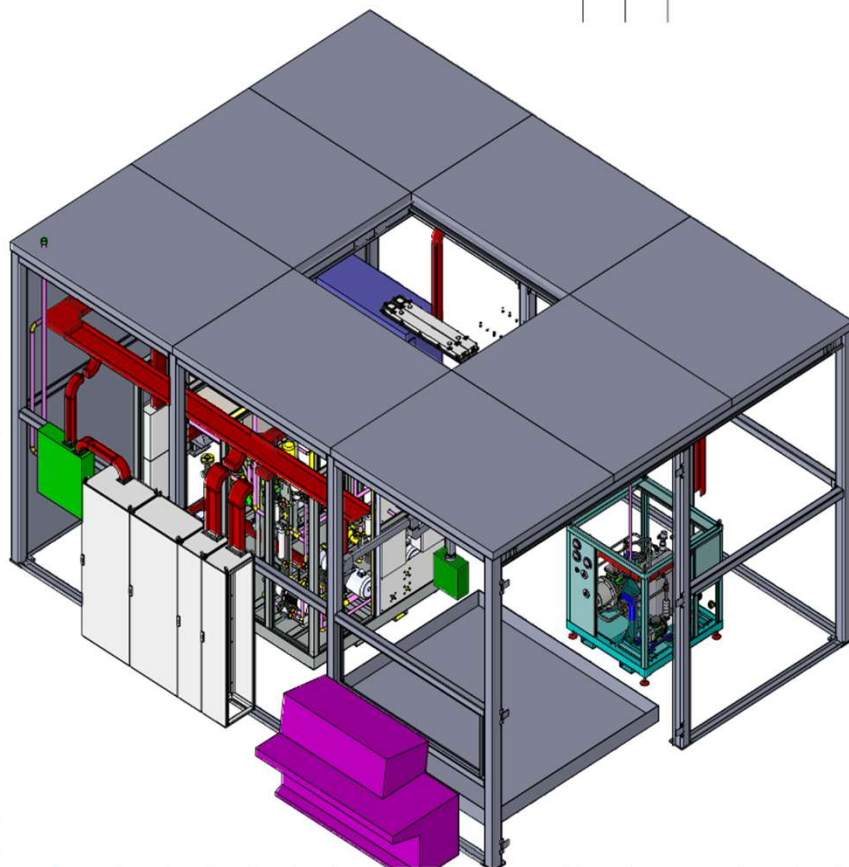
The test stand can be equipped with a PC and NI DAS.

PC software can set the test profile and can create a complete test report [torque vs time].

The test bench meets Industry 4.0 requirements

Via internet connection, it allows you to:

- obtain information about test bench status and carry out control and management operations;
- use the BAVA remote assistance service;
- any kind of remote control.



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