



TESTING SOLUTIONS

GBX PUMP FLOW TEST CART

B_22861



B_22861 cart is equipped for testing the RACER pump.

For its operation, the cart is complementary to other existing test benches, to which it interfaces hydraulically and electrically.

The cart performs flow tests of the single-stage lubrication pump of the GBx RACER.

The test cycle is completely guided by PCs residing on the master benches and periodically requires confirmation from the operator.

The aim is to measure the flow output from the pump and the amount of oil drained by it.

The cart consists of a:

- test compartment in which the component under test is mounted to the hydraulic motor, necessary for its rotation, and to the interface that simulates the casing of the GBx;
- a lower compartment includes all the hydraulics necessary for operation and also for the control of the passive hydraulic load (functional test at load).

A console, external to the bench, allows complete control, as well as the survey and recording of functional parameters.

TECHNICAL DATA:

- Oil: MIL-L-23699
- Capacity: 50 l
- Temperature: $15^{\circ} \div 130^{\circ} \text{ C } [\pm 3^{\circ} \text{ C}]$
- Pressure: 1000 kPa
- Flow: $0 \div 16 \text{ lpm}$
- Oil measuring lines: 2
- Rotation speed of the pump under test: 5085 rpm

INSTRUMENTATION:

- Flow meter $1,7 \div 71,92 \text{ lpm}$, accuracy $\pm 0,05 \% \text{ f-s}$
- Temperature transmitters PT100 (2), cl. B
- Pressure transmitters $0 \div 2000 \text{ kPa}_g [\pm 0,4\%]$
- Load cell $0 \div 200 \text{ N}$, C3

SAFETY DEVICES:

- Interlocked paneling
- Cart inhibition with zero flow
- Button and emergency modules
- Safety pressure switches
- Safety thermostats

SUPPLIES:

- Electric 24 Vcc, 10 A
- Compressed air 6 bar, ISO 8573-1:201 5:4:3

DIMENSIONS AND WEIGHT:

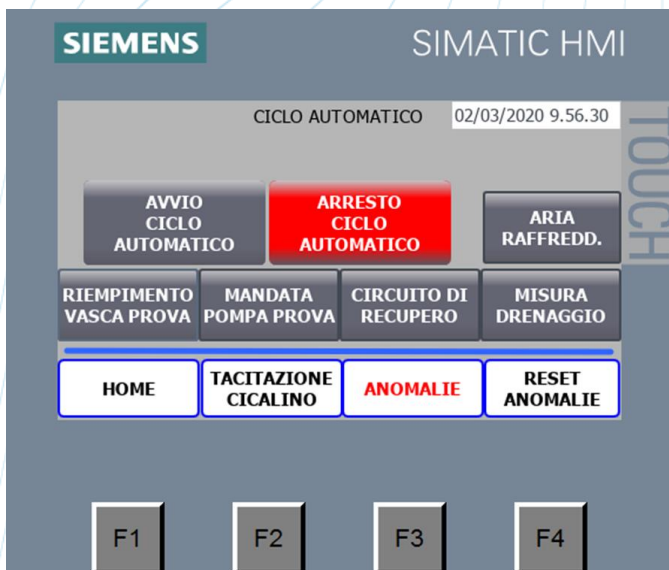
- L, p, h: 1750 x 920 x 1650 mm;
- Raw weight: ~ 250 kg

COLOR:

- Standard Gray RAL 7035.

NOTE:

- Customization on request.

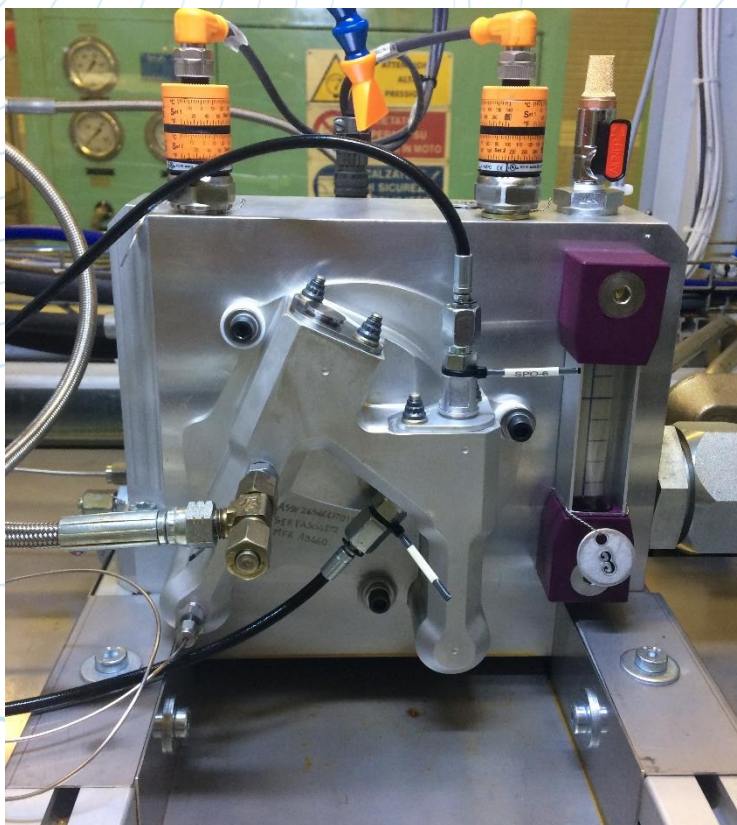


- Cart is provided with an acquisition and control system equipped with PLCs and NI boards

Cart, once interfaced with the master benches, meets the requirements of Industry 4.0, (equipped with Wi-Fi card, allows connection to the company network / internet) and allows you to:

- interface with external software in order to obtain information on its status and carry out control and management operations of the same;
- take advantage of the remote assistance service by BAVA technicians;
- remotely control the cart compatibly with the permissions and authorizations of the company network.

GUI can be shown in multiple languages.



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