



Non rotating component test stands

HNRCTS-C



The test stands are designed to perform maintenance tests according to the CMM of non rotating aircraft hydraulic components such as actuators, valves, fuses and servo assemblies. These systems are fully computerised to provide maximum control efficiency, leading to repeatability of test procedures and accurate test results.

The test stands include following subassemblies:

- Power pack with accessories
- Test station
- Electrical cabinet
- Computer control console

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Main technical features

Supply pressure circuit characteristics	: 0,5-350 bar / 8-5000 psi (up to 240 ltr/min). : 2. : proportional adjustable flow control.
Maximum static proof pressure circuit	: 700 bar / 10150 psi (up to 5 ltr/min).
Return pressure circuit characteristics	: 0-20.7 bar / 0-300 psi (up to 240 ltr/min). : 10-210 bar / 145-3000 psi (up to 240 ltr/min). : proportional adjustable flow control.
Multifunctional system ports	: 4 ports, all of them can be either pressure, return or closed. : automatic switch of ports without disconnecting UUT.
Flow measurement system	: 1 pce in each pressure line (high flow 1-150 ltr/min), 2 pcs in each return line (high flow 1-250 ltr/min and low flow 0,02-10 ltr/min), 1 pce freely connectable (0.04-80 ltr/min).
Accuracy	: 0.5% of measured flow.
Pressure measurement system	: 1 pc pressure transducers in each port (0-400 bar / 0-5801 psi).
Accuracy	: 0.25% of full scale.
Filtration	: high pressure filters 3 micron abs. Return filter 10 micron abs.
Cooling system	: water.
Temperature range	: 25-85°C adjustable over control system.
Control system	: Hycom "Advantouch" control system with manual, semi automatic and full automatic mode.
PLC system	: Siemens S7.
Data acquisition system	: National Instruments.
Software environment	: Windows XP Professional/Labview.
Servo current drivers	: 10, 30, 60 mA (2 pcs)
LVDT demodulations	: 4 pcs adjustable over control.
Adjustable power supplies	: 2 pcs 0-32 VDC 0-5 Amp.

<u>Test stand version</u>	<u>Fluid type</u>	<u>Flow range - main supply</u>	<u>Pressure range - main supply</u>	<u>Design number</u>
HNRCTS	C = phosphate	50-50 ltr/min	210 = 210 bar / 3000 psi	38410
	ester	100-100 ltr/min	350 = 350 bar / 5000 psi	
	L = mineral oil	190-190 ltr/min		
		270-270 ltr/min		

Various options can be added on customer's request. It is also possible to supply the test stand with manual control system only.



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