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Electro-hydraulic Drive and Control Trainer

PN:0401040030

Electro-hydraulic Drive and Control Trainer can automatically and efficiently achieve a variety of hydraulic components, electro-hydraulic control components,hydraulic systems static and dynamic performance test.

Electro-hydraulic Drive and Control Trainer

Main Features

1. Test bench is made of 2mm cold rolled steel plate. stable and stiff. Installation panel adopt T-slot aluminum alloy structure, surface anodized.
2. Movable hydraulic pump station, double pumps, accumulator regulator, oil temperature can be controlled.
3. Static characteristic test with high pressure hose quick-change connector, dynamic characteristics test with manifold connections.
4. High-speed, high precision and strong anti-interference ability.
5. Safety and Reliability

Electro-hydraulic Drive and Control Trainer

Typical Experimental Contents

1. Electro-hydraulic proportional directional valve performance test

1.1 traffic load characteristics

1.2 frequency response characteristics

1.3 detection experiments

1.4 pressure gain characteristics

1.5 step response characteristics

1.6 valve pressure drop characteristics

1.7 constant valve pressure drop of the control characteristics

1.8 system parameters on the dynamic performance test

2. Electro-hydraulic proportional directional valve control servo cylinder closed loop position system performance experiment (closed-loop control)

2.1 step response characteristics

2.2 detection experiments

2.3 sine wave application in the position control system

2.4 control system error experiments

2.5 frequency response characteristics

2.6 system parameters on the dynamic performance test

2.7 displacement performance test

2.8 computer application in the position control system

2.9 position control system components, working principle and correction methods

3. Electro-hydraulic proportional relief valve performance testing

3.1 steady-state load characteristics

3.2 steady-state pressure control characteristics

3.3 input current signal step response characteristics

3.4 load flow step characteristics

3.5 frequency response characteristics test

3.6 detection experiments

3.7 control system error experiments

3.8 computer application in the proportion of overflow test system

4. Electro-hydraulic proportional flow control valve performance testing

4.1 steady-state flow control characteristics

4.2 detection experiments

4.3 system parameters on the dynamic performance test

4.4 steady-state pressure - flow control characteristics

4.5 control system error experiments

4.6 sine wave application in the position control system

4.7 computer application in the position control system

5. Hydraulic components and systems, creative design experiments.

6. Pressure forming experiments

7.various industrial hydraulic components works principle understand experiment.

8. Hydraulic cylinder characteristics

9. Hydraulic motor performance test

10. Hydraulic pump static / dynamic characteristics experiment

11. Relief valve static / dynamic characteristics experiments

12.Flow valve characteristics experimental

13. Hydraulic system throttling governor characteristics experiment

14. Fluid mechanics characteristics experiment (liquid resistance characteristic of experiments)

15. PLC electrical control experiments

16. Typical loop experiments and performance characteristics test.

16.1 Speed control loop

16.2 Direction control loop

16.3 Hydraulic motor control circuit

16.4 Multicylinder control circuit

16.5 Fluid dynamics experiments

16.6 Pressure control loop

16.7 Hydraulic circuit performance test

16.8 Hydraulic components characteristics experiment

Electro-hydraulic Drive and Control Trainer

Main Technical Parameters

Nos	Items		Specification
1	Variable blade pump	Power	1.5kw
		Voltage	220v/50hz
		Displacement	12L/min
		Max Pressure	7Mpa
		Speed	1390r/min
2	Vane pump	Power	2.2kw
		Voltage	380v/50hz
		Displacement	8ml/r
		Pressure	7Mpa
		Speed	1500r/min
3	Fluid air cooling circulator	Power	38w
		Voltage	220v
		Displacement	20L/min
		Pressure	1.4Mpa
4	Cooling tank	volume	60L
5	Bench dimension	L*W*H	1570*560*1670mm
6	Weight	KG	120

*Products and configuration list described herein are subject to changes without notice.