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Hydraulic Drive and Control Trainers

PN:0401040050

Hydraulic Drive and Control Trainer integrates fluid mechanics experiments, hydraulic components and system performance test, hydraulic circuit function verification experiments for hydraulic laboratory equipment. Hydraulic Drive and Control Trainer is suitable for hydraulic transmission and control skills training and practical modular training system. Hydraulic Drive and Control Trainer is an idea trainer for colleges, universities and technical and engineering school experiments and training of hydraulic drive and control technology.

Hydraulic Drive and Control Trainer

Main Features

1. The bench is made of 2mm cold rolled steel plate. stable and stiff, and the 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, to meet the test conditions.
4. High-speed, high precision and strong anti-interference ability.
5. Safety and Reliability

Hydraulic Drive and Control Trainer

Experimental Contents

1. Pressure control loops: Pressure regulating circuit, relief circuit, pressure holding circuit, unloading loop, balanced circuit, buffer circuit.

2. Speed control loops: Throttling speed control circuit, speed increasing circuit, speed conversion circuit.
3. Direction control loops: direction changing circuit, locking circuit
4. Multi-cylinder control loops: sequence action circuit, synchronous action circuit.
5. Fluid Mechanics Experiments (Hydraulic resistance characteristics experiments)
6. Hydraulic components performance experiments: Static hydraulic pump characteristics experiments, Relief valve static characteristics experiment, flow control valve static characteristics experiment
7. Hydraulic circuit performance experiment: Throttle speed control circuit performance experiment

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	80L
5	Bench dimension	L*W*H	1570*830*1690mm
6	Weight	KG	150

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