

20000KN 2000ton Elastomeric Bearing and shearing Testing Machine



Picture is for reference only

1. Introduction

elastomeric bearing testing machine is mainly used to verify the mechanical properties of pot shape, spherical shape and pad shape bearings which are broadly used in highway, railway, bridge and buildings. It is capable of obtaining technical index of compressive modulus of elasticity, shearing modulus of elasticity, static shearing force, ultimate compressive strength, friction coefficient, rotation deformation, axial and lateral deformation under compression.

2.Features

Employs Germany ECKERLE internal gear pump, Taiwan DELTA servo motor, Italy ATOS servo valve, Japan YUKEN solenoid valves and US CCC, SUN hydraulic fittings to ensure the high dependability as well as high performance of hydraulic system.

It adopts our innovative 'follow-up' technologies which enables the system pressure progressively increasing by following up the Load Cell force, in which way to avoid the constant system pressure in causing the high temperature to oil as well as wasting energy, thanks to this innovative technologies, now the big oil cooling system is not necessary in this hydraulic system, besides, it can save electrical consumption almost up to 50% comparing with traditional hydraulic power packs.

Emergency stop button on the control panel, you can stop the testing at any emergency situation.

Controller, Electrical control system, PC, Display and Printer are highly integrated. Saving space, convenient for operation and maintenance.

3.Specification

Model	YJW-5000	YJW-10000	YJW-20000	YJW-30000
Test Force Range(KN)	20-5000	40-10000	80-20000	120-30000
Test Force Accuracy (%)	Indication Value $\pm$ 1			
Horizontal shear force(KN)	1000	2000	4000	6000
Horizontal Piston Stroke(mm)	180	250	250	300
Coner Push Force(KN)	300	600	1000	1000
Upright Deformation Measurement range(mm)	0-10(Resolution0.001mm)			0-20(Resolution0.001mm)
Radial Deformation Measurement range(mm)	0-10(Resolution0.001mm)			0-20(Resolution0.001mm)
Horizontal shearing Measurement range(mm)	0-150(Resolution0.001mm)			0-200(Resolution0.001mm)
Dimensions(mm)	5100*1200*3900	5575*1860*3660	8600*2300*5300	10520*3120*5800
Power	10 .AC380V $\pm$ 10%	20 .AC380V $\pm$ 10%	10 .AC380V $\pm$ 10%	25.AC380V $\pm$ 10%
Gross Weight(kg)	15000	35000	90000	120000