

CONTENT

一、 DYE-2000 photo.....	1
二、 Controller CL-03.....	2
三、 Application.....	2
四、 Working condition	2
五、 Parameter.....	2
六、 Installation and adjustment.....	2
七、 Regular operation.....	3
八、 Maintenance	3

一、 DYE-2000 photo



二. force measurement display controller



Please refer to manual of CL-03 force measurement display controller

三. Application

DYE-2000 tester is used for determine the resist pressure strength of concrete, brick, stone and other construction material. Load form is hydraulic pressure. The tester is applied to all college, construction unit of industrial and mining enterprises, the test force device adopts numeric display with micro printer, the test force part is compact, the shape is beauty, convenient to handle and maintain.

四. Working condition

- ①. The tester be placed in clean, dry, without shake or without corrosive room,
- ②. the surroundings are kept 0.5m space far, level is not larger than 0.2mm/1000mm.
- ③. The tester must touch ground steadily.
- ④. The power supply should steady 220v, not over rated voltage 10%.

五. Parameter

Maximum load	2000 kN
Measure range	0-2000 kN
Up press plate size	240mm×240 mm
Press plate space	360mm
Maximum oil pressure	40MPa
Display value relative error	±1%
Piston diameter* the farthest stroke	Φ 250 mm×50 mm
Electromotor power	0.75kW (three-phase 220v power supply)
Exterior size(length*width*height)	900×360×1250 mm
Whole tester quality	650kg

六. Installation and adjustment

1、 check before running.

Before installation, check whether the parts and accessories are complete and whether there is any damage.

2、 Installation

- 1) Lift the testing machine in the appropriate position of the test chamber, and the machine is safely grounded.
- 2) Adding oil: add 10kg standard hydraulic oil (use YB-N68 if room temperature over 25 °C , use YB-N46 if room temperature under 25 °C) and check if the level reaches required position. Stay still for 3hours until the air completely comes out. Under

normal circumstances change the oil once a year, if use frequently or the environment not clean, six months is needed to replace.

- 3) Turn on the power supply, press the start button of the oil pump, and then open the oil supply valve to see if the workbench rises. If it rises, it means that the oil pump has pumped oil normally.。

3、 Adjustment of the horizontal level of the testing machine

- 1) Start the oil pump motor and open the oil supply(delivery) valve to make the pressure plate rise more than 10mm, and then close the oil return valve and motor. Place the spirit level on the test bench and adjust the level to within the \pm range in the vertical and horizontal directions of the base. When the water is uneven, it can be adjusted on the oil-resistant rubber sheet pad until it is level, and then it can be used.

4.test run

Start the oil pump motor to raise the workbench (test bench) by 5-10 mm, find a piece of test piece that can withstand more than 1.5 times of the maximum test force and put it in the appropriate position on the test bench, and then adjust the hand-wheel to lower the pressure plate until it is 2-3mm far from Test piece. Open the oil supply(delivery) valve and slowly pressurize. Then use the force value of 60% of the maximum test force for about 2 minutes to lubricate the cylinder piston and exhaust the air.。

七、 Regular operation

1. Turn on the power, start the oil pump motor, close the oil return valve, open the oil delivery valve to raise the workbench by more than 5 mm, and close the oil delivery valve.
2. Place the test piece at an appropriate position on the bottom pressure plate table, adjust the hand wheel so that the upper pressure plate is 2-3 mm away from the test piece.
3. Adjust the pressure value to zero.
4. Open the oil delivery valve and load the test piece at the speed required by the test(twist knob).
5. After the test piece breaks, open the oil return valve to lower the bottom pressure plate until the test piece can be taken out, close the oil

delivery valve, and record the pressure resistance value of the test piece.

八、Maintenance

1. Maintain the level of the test machine

Sometimes the level of the test machine may be damaged due to some reasons, so it should be checked regularly for levelness. If the level exceeds the limit, the level should be readjusted.

2. The test machine should be wiped clean frequently, and a small amount of anti-rust oil should be applied after wiping the unpainted surface.

3. The piston of the test machine should not rise beyond the limit.

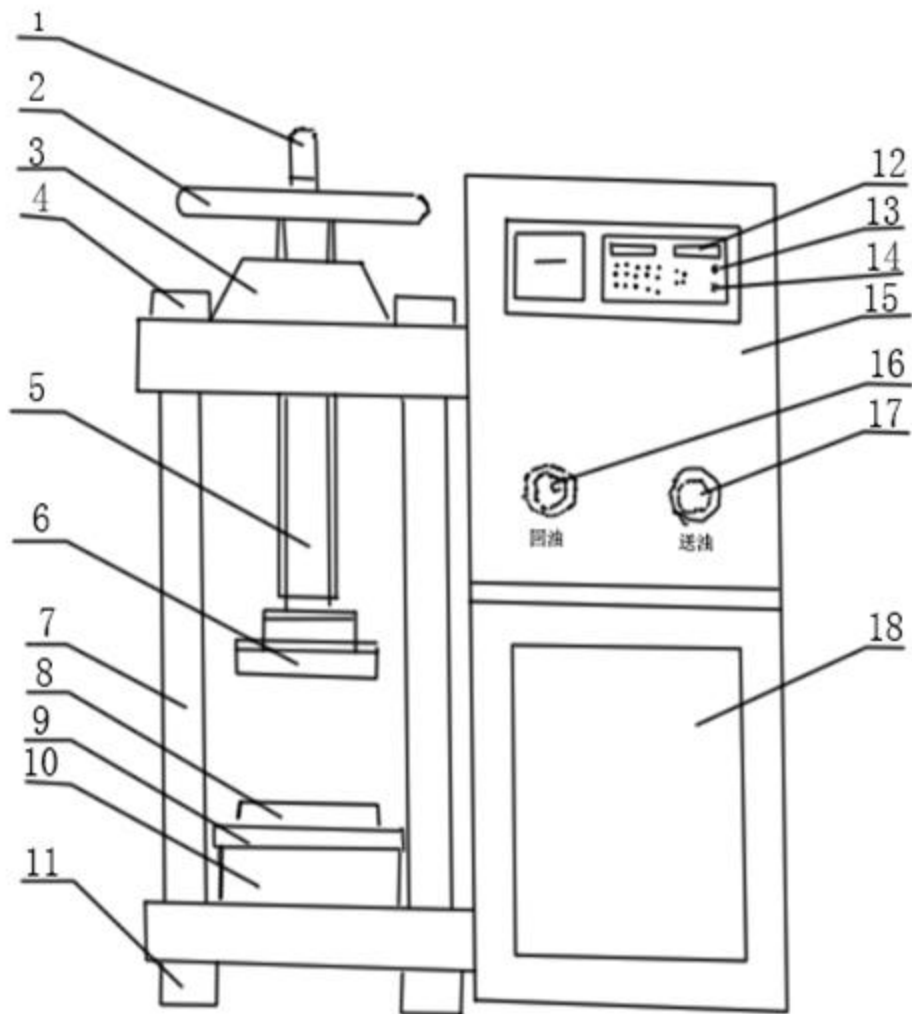


Fig.1 structure diagram

- 1、Lifting ring 2、hand wheel 3、upper beam 4、lock nut 5、lead screw
- 6、Upper pressure plate 7、column 8、bottom plate 9、dust cover 10、cylinder
- 11、Lock nut 12、 Force measuring display controller 13、 Power switch
- 14、 motor switch
- 15、 controller cabinet 16、 return valve 17、 delivery valve 18、 gate

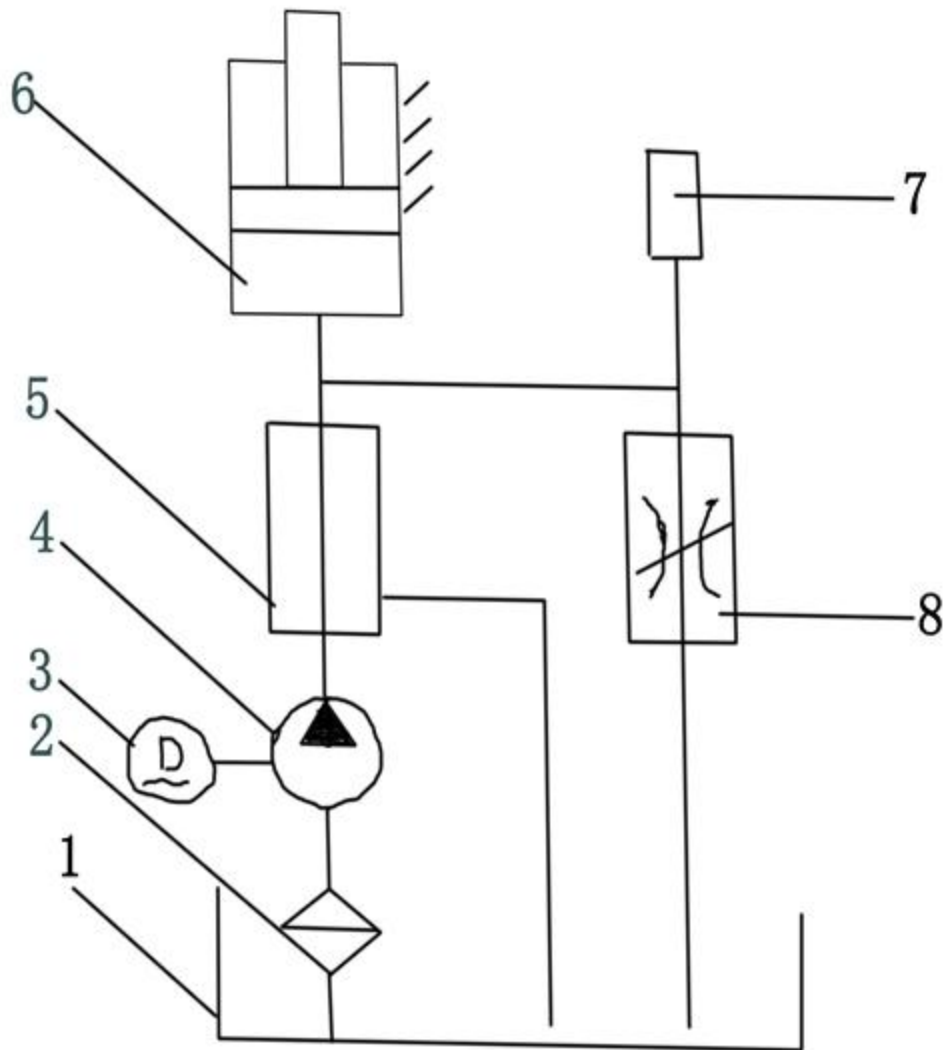


Fig.2 hydraulic system diagram

- 1、 Hydraulic oil storage tank 2、 oil filter 3、 electric motor
 4、 hydraulic pump
 5、 delivery valve 6、 hydraulic oil working tank 7、 pressure sensor
 8、 return valve