



GBW-60B Computer Control Cupping Testing Machine

Usage and Characteristics

The cupping testing machine is specially used to test extensibility of metal thin sheet and banded material and is also only instrument to test the metal's plastic deformation the machine fully accords with national Standard GB4156-84 (Metals-cupping testing method). If add drawing mould, It also accords with international GB5125-85 (Method for deep drawing cups testing of non-ferrous metals) for testing the characteristics of non-ferrous metal sheets.

Note :
Due to keeping innovation,
the specification and
Machine pictures or color
are subject to alteration
without notice!

Main technical parameters

Maximum Test Force	60 Kn
Range of Test Force	0.2 Kn ~ 60 Kn
Precision of Test Force Measurement	± 1 % of indicating value
Test Accuracy	Precision of Capping value ± 0.01 mm
Speed of Test	2 ~ 100 mm/min (under control of arbitrary rate and constant speed)
Cupping Mould	Φ 20 ± 0.05
Thickness of Gripping Specimen	0.05 ~ 2 mm (high - precision sensor can realize ultra-thin sheet metal test)
Special Order	1. Non-standard cupping : 0.05 ~ 3 mm 2. Testing non-ferrous metal sheets : 0.1 ~ 2 mm
Journey of Punch	40 mm
Journey of Cramping Piston	40 mm
Max. Gripping Load	10 Kn
Resolution of Cupping Value	0.01 mm
Hydraulic Oil	N46
Dimensions	700 x 360 x 1320 mm
Power	~ 380 V 50 Hz 3 Kw



Advantages

1. The machine is a new generation of products which is developed with our company's years of experience in manufacture based on original type (GBS-60A). Its main characteristic is that the precision of cupping value can be up to 0.01mm and load speed of main test force is controlled through constant rate.
2. In terms of operation, GBW-60B type achieve historic breakthrough. On the basis of original oil cylinder and manual supply oil valve to add force, we adopt imported servo motor as power to make the whole testing process come true close-loop control and constant rate loading to improve the control accuracy of the machine greatly.
3. Changing manual hydraulic loading to electronic control mechanical loading and hydraulic sensor to wheel-spoke sensor to improve the testing precision of main test force and control the fracture accuracy of specimens.
4. We select high-precision grating measuring instrument to measure cupping value. In terms of measuring precision, it can accurate to two decimal digits.
5. The outward appearance of machine has great transformation. Old and heavy appearance has turned into powder coatings and is concise and elegant.



GBC - 60W Computer Control Deep Drawing Cups Testing Machine

Usage and Characteristics

The machine is the precise device which used to test Plastic Deformation of metal thin sheet and banded material, according to GB/T 4156-2007<Metal materials, thin sheet and banded, rickson-cupping testing>, it can inspect metal's plastic deformation of metal's thin sheet and banded in the testing, it also accords with in GB5125-85< Method for deep drawing cups testing of non-ferrous metals> for testing the characteristics of non-ferrous metal sheets.

Main technical parameters

Maximum Test Force	60 Kn
Range of Test Force	0.2 Kn ~ 60 Kn
Test Accuracy	± 1
Speed of Test	2 ~ 100 mm/min (under control of arbitrary rate and constant speed)
Thickness of Gripping Specimen	0.05 ~ 3 mm (high - precision sensor can realize ultra-thin sheet metal test)
Journey of Cramping Piston	40 mm
Resolution of Cupping Value	0.01 mm

Advantages

1. The cupping testing machine adopts the new structure principle, it can achieve the rate of constant speed control.(At past, the force of cylinder oil source unable to realize the rate of constant speed control, the precision and accuracy of hydraulic sensor is much more lower)
2. Our company produced the new cupping testing machine, has changed the past oil source afterburner loaded servo motor constant speed, at the same time, we have changed the hydraulic sensor to wheel-spoke sensor, it improve the accuracy and precision of testing cupping values greatly.
3. We select high-precision grating measuring instrument to measure cupping value, so improves the controllability of the machine.
4. From the hardware configuration,or force transmission principle, it has been greatly improved than the original machine, configure computer controlling, it realize perfection of the machine, it can also realize the result of report, storage, batch, curve plotting and so on.



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