

HST-MRS10D Computer Control Servo Four Ball Friction Testing Machine



1.Application:

This machine mainly uses the form of sliding friction to evaluate the bearing capacity of lubricant under extremely high point contact pressure conditions. There are three indexes including maximum non-clamping load PB, sintering load PD and comprehensive wear value ZMZ. The machine can also do lubricant long - time wear resistance test, measurement of friction coefficient, record friction and temperature curve.

2. Standard

GB/T12583-98 Lubricants -- Determination of extreme pressure properties (four-ball machine method)

GB3142-82 Lubricants -- Determination of bearing capacity (four-ball method)

SH/T0189-92 Lubricating oil -- Determination of anti-wear properties (four-ball machine method)

SH/T0202-92 Test method for extreme pressure performance of greases (four-ball machine method)

SH/T0204-92 Test method for wear resistance of greases (four-ball machine method)

3. Main technical parameters

Item	Name	Technical parameters
1	Test force range (stepless adjustable)	60N~10kN
2	Relative error of test force indication value	±1%
3	Friction test range	0~300N
4	Friction test error	±3%
5	Spindle speed range (stepless adjustable)	200~2000r/min
6	Spindle speed error	±5 r/min
7	Friction pair temperature control range	RT~75°C
8	Friction pair temperature control error	±2°C
9	Test time control range	1s~999h
10	Spindle speed control range	1~99999999
11	Test steel balls	φ12.7mm
12	Overall dimension	1200*870*1700 (mm)
13	weight	600kg

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