Metrix+™
Innovative Excellence

SAND MOULD HARDNESS TESTER

HT SM A/ B/ C

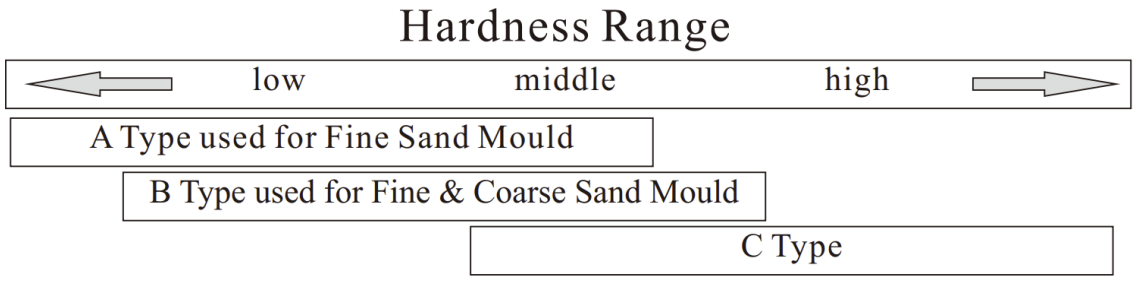
Measure surface hardness of sand mould/ core

Measuring principle

A needle of specific size is hard pressed on to the sample, and the depth of penetration is measured to estimate the hardness of the sample. The unit of hardness tester for sand mold surface is (g/mm2), but it is customary to use hardness H(A/B/C) instead of unit, as they are related and consistent, the corresponding hardness value is also large when the unit value is large (g/mm2).

Applications

This can be used to measure surface hardness of sand mould/ core of the wet mould. Three scales of A, B and C correspond to density of sand used.



Features

- Three models A, B and C for different pressure sand moulding process
- Backlit display with low battery indication
- Avg calculations and max data hold
- Optional Data logging

Technical Specifications

Model	*Metrix+* HT SM A	*Metrix+* HT SM B	*Metrix+* HT SM C
Application	For fine sand mould/core in manual or mechanical low and medium pressure molding	For fine and coarse sand mould/core in manual or mechanical low and medium pressure molding	For sand mold in high pressure molding
Indenter	Ball radius 2.50mm	Ball radius 12.70mm	Ball radius 1.20mm
Load	237g	980g	1500g
Pressure Load	90g	50g	180g
Measurement unit	HA	HB	HC
Measurement range	10 ~ 90H (A/ B/ C), display range is 0 ~ 100H		
Resolution	0.1H		
Accuracy	±1H		
Features	Max hold, avg calculation, backlit display, low battery indication, auto power off		
Operating conditions	Temp: 0~40C, Humidity <80% RH		
Dimensions	176 x 65 x 27mm, approx. 170g		
Power Source	2 x 1.5V AA batteries		
Std accessories	Main unit, manual, case		
Optional accessories	Data logging: PC interface (USB & software), Bluetooth		