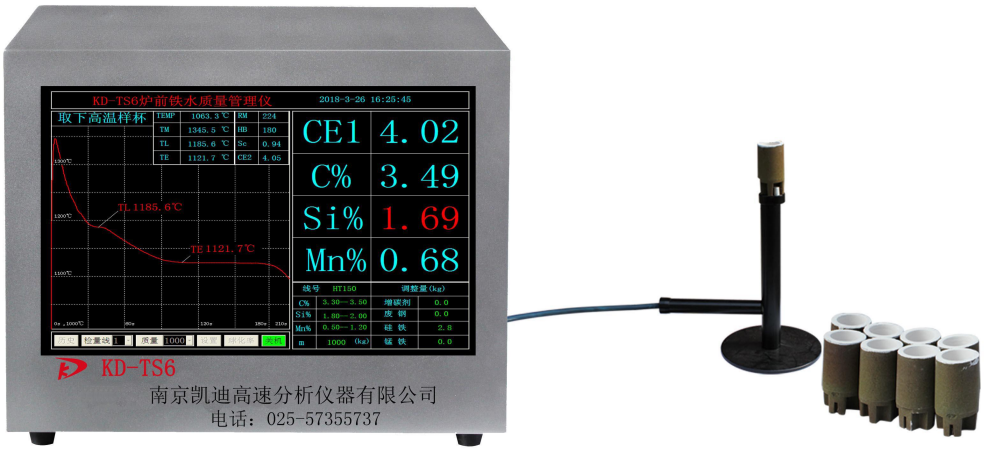
Hot metal Carbon Analyzer



1. Main performance characteristics

It uses an electromagnetic interference-resistant, dust-proof and super-integrated design, which is easy to operate and can be operated by non-professional personnel. There are multiple detection lines, and appropriate detection lines are selected to meet the quality control requirements of casting production,make up for the lack of non-metallic elements (C, Si) in the spectrum and the inability of conventional analytical instruments to meet the time requirements for rapid analysis in front of the furnace according to the actual situation of molten iron of different grades and molten iron of each factory.

2. Main technical parameters

1) Measurement function: thermal analysis of gray cast iron and ductile cast iron.

2) Measurement parameters: Measure molten iron CE, C, Si, Mn, TL, TE, Sc

Determine tensile strength Rm, hardness HB, spheroidization rate SG%

3) Measurement range: CE: 2.50~4.95%

C: 2.10～4.50%

Si: 0.30～5.00%

Mn: 0.10～1.80%

SG: 60～98%

4) Accuracy: Temp: ≤±1℃ CE: ±0.05% C: ±0.05%

Si:±0.1% Mn:±0.1% SG:±10%

5) Working parameters: Power supply AC 220V, 50Hz; Power 80W, Ambient temperature 0~70℃

6) Measurement time: generally 1 minute and 30 seconds

7) Imported temperature sensor, brand LED displayer

3. Main functions

8 inspection lines and 8 target components can be set, and the inspection lines and target components are linked; the amount of added carbon enhancer, ferrosilicon, scrap steel, and ferromanganese can be automatically calculated based on the measurement results and the target components, molten iron weight, and yield rate; the results can be saved automatically, and the test results and test curves can be checked by time; the measurement records can be transferred to a USB flash driver and viewed or printed on other computers.

Complete set: 1. One iron carbon meter in front of the furnace 2. One sample holder set 3. 100 sample cups