



H-Test Analyzer (HTA)

— SPECIFICATIONS —



Now, **H-Test Analyzer (HTA)** makes it easier to substantially improve both – the Quality and the Reliability of your Aluminum castings, by enabling you to precisely control the Hydrogen content in the Aluminum melt just before casting. No under or over de-gassing. No rejections, no wastage of time or money.

HTA uses the reduced pressure technique to measure the H₂ content. By controlled solidification, the partial pressure of all the H₂

released is accurately measured and related to its percentage by HTA.

HTA gives you accurate quantitative information within 3 minutes of sampling, for you to optimize the level of de-gassing.

HTA comes to you with a quality assurance from the trusted house of Nico van Dongen Consulting Ltd.

UNIQUE FEATURES

- 3-LED, 7-Segment Display for Readout in cc/100gm and ppm (Selectable by Menu options using keypad).
- Display in cc/100gm or ppm (Selectable by Menu options using keypad).
- PS-2 Keyboard Interface.
- 6-button scratch free keyboard to select database fields including Printing.
- LCD (16 X 2) interface for showing Company Name, Operator Name, Shift No., Sample name, Date, Time, Furnace no., etc.
- Thermal Printer (55mm paper size) interface for printouts for various parameters e.g. Date, Time Company Name, Operator Name, Sample name, Shift No., Furnace no, Sample Temperature, sample weight, Weight corrected Result in cc/ 100gm or ppm, Count of Number of operations.
- USB Interface using pen drive (up to 8GB) for downloading Sample data in text format.
- Fast and Accurate Analysis using sample weight correction.
- Rugged & Reliable Instrument.
- Electro - Pneumatic operation of machine for vacuum path using 10 kg or more Nitrogen GAS cylinder.
- Semi-automatic weight measurement and correction with respect to 100gm.
- Calibration done using certified pipettes with +/-0.01 least count.
- Features enable and disable facility in Mode selection via keypad.
- Self-leakage test for periodic maintenance in HTA
- Works in the harsh environment of foundries up to 60° C.
- Emergency STOP Button.

SPECIFICATIONS

OVERALL DIMENSIONS

(62 x 62 x 110) cm

WORKING AMBIENT

60 C Max.

MEASUREMENT TIME

3 minutes

OVERALL WEIGHT

131 kg

SAMPLE WEIGHT

100gm nominal

SENSITIVITY

+/- 0.01cc /100gm

ELECTRICAL I/P

230V (+/- 10%), 50Hz,
Single Phase with
5-meter armored power
cable.

POWER

1.25KVA

RANGE

Up to 0.85 cc/100gm
(0.76 ppm)

ACCURACY

Less than 5% difference
between H-Scan Method
& Vacuum Sub-Fusion
Method

NOTES

Due to continuous R & D, all specs are subject to change without any notice.
Time required between two consecutive sample tests readings are 2.0 minutes.