



FoundryLab

The FoundryLab is the fully-automatic solution for the challenges in quality inspection of foundries. The cost-effective system has a small footprint, significantly increases laboratory throughput and relieves the operator from mundane tasks. All components of the FoundryLab are perfectly matched and guarantee highest quality standards both in sample preparation and analysis. The HTS

3000 cup grinding machine by HERZOG excels by short machining time, optimal surface processing and contamination-free operation. The metal analyzer SPECTROMAXx by SPECTRO AMETEK provides excellent and rapid elemental analysis at a minimum of maintenance costs. The servo-transport system ensures trouble-free sample handling without need for manual intervention.

Technical data

HTS 3000

- Colour: RAL 5007/7035
- Documentation: 1 Set English/German

Dimensions (L x W x H)

Machine 1200 mm x 600 mm x 1700 mm

Weight

Machine 550 kg

Power supply and consumption

Voltage 3 x 400 V, 50 Hz
Neutral conductor Not required
Switch cabinet integrated

Cup Wheel dimensions (dm x H)

Cup wheel 200 mm x 100 mm

Compressed air supply and consumption

Pressure Min. 5 bar, max. 10 bar
Consumption Approx. 750 dm³N per sample

SPECTROMAXx

CCD Optics

High resolution CCD multi detectors
Stabilized against fluctuations in temperature
Effective wavelength range:
140–670 nm, the applicable and config- ured wavelength range is based on the customer's application requirements
Automated profiling

Spark Stand

Open spark stand for high sample throughput and various kinds of sample geometries
Minimized argon consumption with Argon Saver Module

Optimized argon flow
Spark stand plate easily exchangeable

Excitation System

Fully digitalized plasma generator with digital discharge definition, digital pulse generation and digital offline pulse control 32 MHz micro-controller
Energy resolution 125 mW in 0.5 ns steps
Max. spark duration 4000 µs
Max. spark power 4 kW

Software

Spark Analyzer Pro MAX Software for analytical operation and calibration
Continuous automatic hardware diagnosis in the background
Automatic alloy/grade verification and identification
Result Manager
Online Maintenance Scheduler

Environmental Conditions

Room temperature 10–30 °C (50–86 °F)
Relative humidity < 80 %, non-condensing
Atmosphere free of corrosive vapors and high dust pollution

Spectrometer Data

max. 400 VA during sparking
Fuse 16 A slow-blow
Version Benchtop Floor model
Depth 750 mm/30" 790 mm/31"
Width 625 mm/25" 625 mm/25"
Height 450 mm/18" 1350 mm/53"
Weight 77 kg
127 kg approx. 169.7 lbs 279.9 lbs

Automation

- Colour: RAL 5007/7035
- Documentation: 1 Set English/German

Dimensions (L x W x H)

Machine 2150 mm x 2000 mm x 2000 mm

Weight

Machine Approx. 1100 kg
Machine incl. packing Approx. 1500 kg

Power supply and consumption

Voltage 3 x 400 V, 50 Hz
Neutral conductor Not required

Compressed air supply and consumption

Pressure Min. 5 bar, max. 10 bar
Consumption Approx. 750 dm³N per sample

Processed Samples

Material Cast iron
Production samples Round ø 40 mm, h = 8 mm
Control samples Round ø 45 mm, h = 50 mm

Processing parameters

Cutting depth Max. 2 mm programmable in steps of 0.1 mm
Processing cycle duration Depending upon the program min. 60 sec.

Sample cooling

Cooling type By means of cooling nozzles
Cooling media Compressed air

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