FM EXPERT

HITACHI Inspire the Next



Low level nitrogen analysis

Seamless quality control is essential throughout the metals industry, from tramp element analysis of scrap metals to incoming materials inspection, melt process control and goods issue.

The FM EXPERT is the next level optical emission spectrometer, combining superior analytical performance with a compact size. Its large wavelength range is ideal for the analysis of all relevant elements in metals quality assurance and production process control. The FM EXPERT also allows for the analysis of nitrogen at low levels thanks to its compact CCD optics system.

The FM EXPERT combines our patented smart optics with an improved plasma view, guaranteeing excellent analytical performance with low detection limits over the entire wavelength range. The argon purged optics reduce maintenance intervals and the costs of ownership.

Unique in its class, the FM EXPERT's sealed argon system for optimised optical plasma view and the concentric electrode shielding argon flow ensure reliable nitrogen analysis down to a detection limit of just 30 ppm.

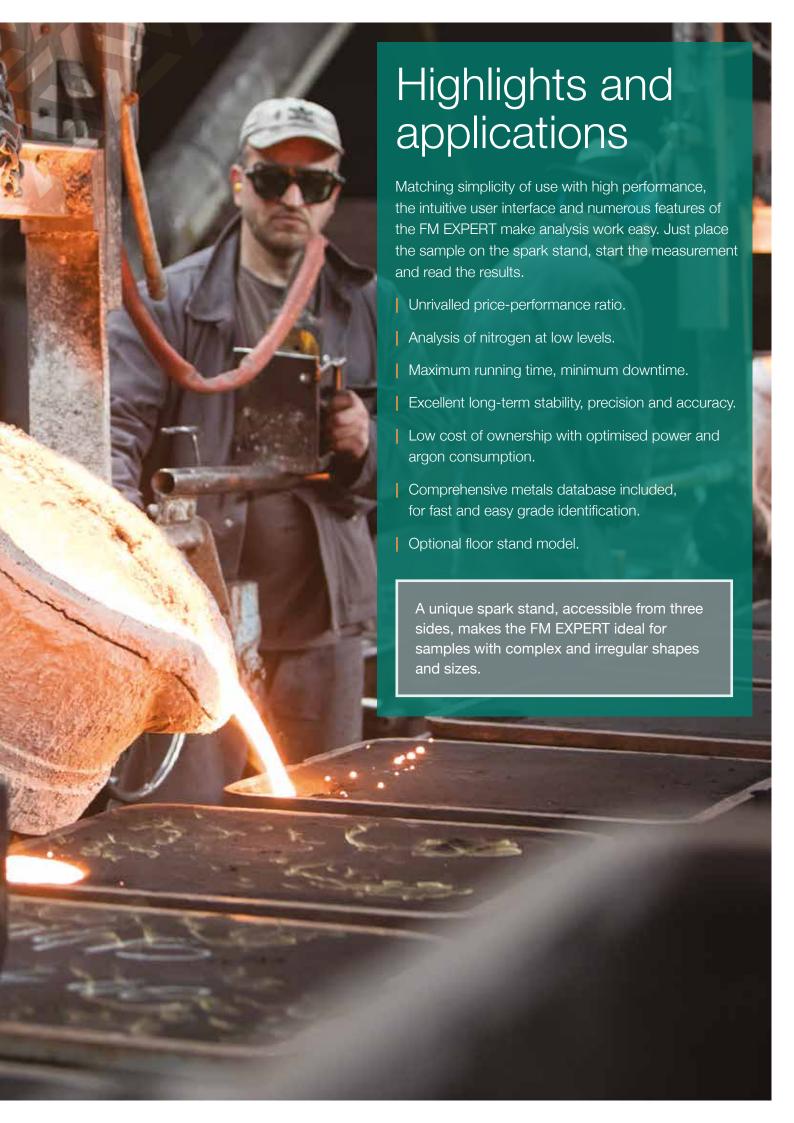


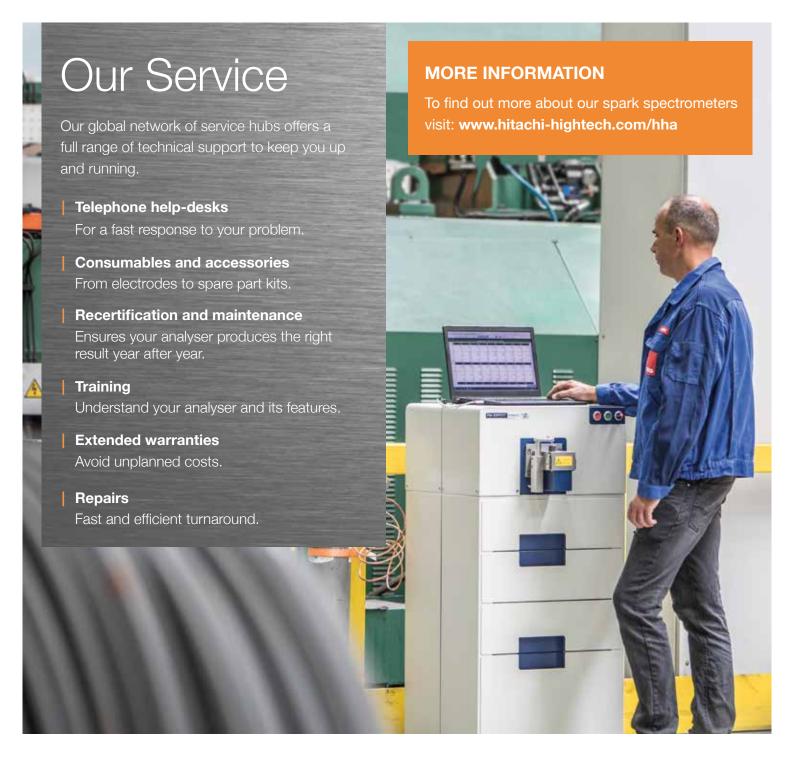
Importance of nitrogen analysis

High nitrogen content in steel may result in

- Inconsistent mechanical properties
- Embrittlement of heat affected zone of welded steels
- Poor cold formability
- Strain aging
- Formation of pin holes during casting







Grade database included

The largest metals database on the market for fast and easy grade identification is already installed on the FM EXPERT. The Hitachi GRADE Database offers more than 12 million records for over 339,000 materials from 69 countries and standards. You can update your instrument's grade database with a few clicks – no time consuming research in norms and grade catalogues.

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