

## Record Sales of World's Premier Tungsten Grinder

Following another highly successful trading year for Huntingdon Fusion Techniques Limited (HFT), sales of their Tungsten Electrode Grinders have hit an all time high. Mike Dunn, Marketing Manager for the company reported that orders were received from all corners of the world, as customers became more aware of the advantages of this superior specification workshop tool and took advantage of its many features and benefits. Probably the most important of these is the high powered motor that is guaranteed for life. This motor allows the grinding of tungsten electrodes from 0.25 mm up to 6 mm and beyond if required, without stalling or burning out, which has been the major complaint from other types

of grinding machine.

This high-speed motor runs from either a 110v or 220V single-phase supply at 50Hz. A new design feature of the HFT Techweld™ TEG-3, is the grinding head mounting at the 6 o'clock position. In this way, dust is expelled downwards, directly towards the vacuum collection point, allowing the operator to clearly see the progress of the grinding. The TEG - 3 grinds electrodes longitudinally to eliminate the circumferential lines and ridges that cause arc flicker and wander, so that identical and repeatable results are achieved, particularly with mechanised welding.

The tip shape produced by the grinder allows precise positioning of the arc for

manual welding without the preferential arcing that occurs with poorly shaped, manually ground tips. An extra collet attachment for the holding block allows short electrodes down to 12mm in length to be sharpened. A very substantial, easily replaceable, diamond wheel is delivered with the TEG -3 that gives the equivalent of three man-years grinding life. To prevent the grinding of contaminating materials, a front cover is installed that allows only Tungsten Electrodes and eliminates transfer of unwanted elements to the weld-pool. Hazardous dust is drawn into the optional dust extraction system, which can be supplied with the grinder or separately for retrofitting at a later date.

## ArcelorMittal selects ABB's SpectraFlow BM100 online analyzer

**ArcelorMittal, the world's number one steel producer, has selected ABB's SpectraFlow online cross-belt analyzer solution for its Bremen plant**

ABB, the leading power and automation technology group, announced today that their SpectraFlow BM100 analyzer is to be installed at ArcelorMittal's Bremen plant in Germany. SpectraFlow will provide the plant with online and real time chemical composition analysis of the feed as well as providing data about the carbon content of the feed. ArcelorMittal's goal is to provide the leadership that will transform tomorrow's steel industry. In keeping with this goal there is a natural fit between ABB and ArcelorMittal being the first steel company in the world to use the SpectraFlow solution. Installation is scheduled for July 2008. The Bremen plant is currently implementing a program to ensure that their existing plant equipment is used to its full capability and that product quality is optimized to the best possible level. With the current method of material analysis there is a three hour wait between taking a sample and receiving the chemical composition analysis. With the SpectraFlow system, early measurement of the sinter

composition is made by already detecting the sinter mix analysis. This enables the operator to adjust the mix by, for example, variation of the limestone rate. As a result, operation and product quality become more stable. Furthermore an increase in productivity can be achieved as improved process stability supports optimization activities.

SpectraFlow was launched to the market in the middle of 2007 and already there are numerous installations providing safe, online, real time bulk analysis. SpectraFlow is powered by SOLBAS™ technology which uses Near Infra-Red Spectroscopy (NIRS) to provide the chemical composition data, meaning no radioactive sources are required by the analyzer. The SpectraFlow analyzer solution can be used on any conveyor belt, regardless of width or belt composition and does not require specialist or additional operating licences. ABB's suite of Collaborative Production Management ([www.abb.com/cpm](http://www.abb.com/cpm) and



**Illumination head of ABB SpectraFlow BM100 online analyzer**

[www.abb.com/cement](http://www.abb.com/cement)) products, which includes Expert Optimizer, Knowledge Manager and SpectraFlow provide productivity improvements to process automation companies. ABB ([www.abb.com](http://www.abb.com)) is a leader in power and automation technologies that enable utility and industry customers to improve performance while lowering environmental impact. The ABB Group of companies operates in around 100 countries and employs more than 115,000 people.