



## Press Release

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## Catching the Sun

### **Grenzebach technology for the Photovoltaic Industry**

Photovoltaic and solar energy are main issues at this year's *glasstec* in Düsseldorf. Of particular interest are production equipment for photovoltaic modules and innovative coatings. As one of the leading companies in this field, Grenzebach is a key player in the development of thin-film technology and will demonstrate manufacturing techniques at the "glass technology live" special show 2008 as well as exhibiting production machinery on their booth in hall 15, booth 15C33.

From a single machine to a complete production line, with efficient process controlled equipment the company has been a reliable partner to the flat glass industry for over 40 years now. The development of the thin-film technology on glass for production of photo-voltaic modules opened a new market segment for Grenzebach, for which the company benefits from its experience in flat glass handling.

Grenzebach provides Front End as well as Back End equipment. This includes handling, transport, buffering, cutting, snapping, inspection and laminating of the panels in different processes. The combination of all processes involved as e. g. feeding, washing, CVD, PVD, cutting, inspection, lamination, testing and stacking can be carried out.

A simulation allows to verify in advance the optimum layout, material flow and production yield. Recognized PLC systems are used and sophisticated visualization integrated in the production line. The Grenzebach network concept connects all interfaces from the PLC field bus to the customer supplied ERP system.

A newly developed MES System offers access and transparency of critical production data inside companies and plants and is customized to the needs of the user.



Intensive training programmes and teleservice supports the operating staff. Customers can combine their individual after-sales service package and thus relieve themselves from the burden of maintaining and servicing their individual production machinery.

While taking full advantage of modern communications technology, Grenzbach place great emphasis on maintaining direct and personal contact with their customers. With their production sites in Europe, the US and China, sales offices and representations throughout the world the company is always close to its customers