

Press Release

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A competent partner for thin glass handling challenges

The glass market responds to the continuously growing demand for smart phones, flat screens and tablet PCs with expansion of the thin glass production.

But producing thin (0.3 mm) and highly sensitive glass sheets requires a high level of expertise as well as new technologies. This is where Grenzebach comes in and sets the standards once again.

Our conveyors provide optimum support and allow the glass ribbon to be scored with specially designed cutting tools for subsequent snapping. The individual sheets then leave the main production line, are aligned, scored as required, and then snapped into still smaller units.

Servomotors and sensors ensure non-contact alignment. In addition to the protection of the edges, this alignment process offers great flexibility as far as cycle times and sheet size is concerned.

After inspection by a camera system the glass sheets are separated with paper. This newly developed applicator applies the paper on the fly.

A lifting frame picks the glass sheets from the roller conveyor for stacking. Here, the new Quantec robot impresses with its special suction frame which has been developed with a consistent focus on reduction of weight and moved masses.

The robot combines various functions in one system and runs in various stacking modes (tin and air side) with no need for additional mechanical elements. Additionally, it allows both stacking onto racks and into boxes.

Precise cutting with little effort, non-contact alignment and safe sheet handling on both tin and air side are the outstanding features of the new thin glass handling technology.

And the same applies to system functionality and operability. Down to the last detail, this reflects the more than 40 years of experience Grenzebach has in the glass production industry.

Picture captions:

Laengsschneider_01_NEU: High-accuracy cutting by means of special thin glass cutting heads

P1080002_NEU: Stacking cell with non-contact alignment and smooth sheet pick-up

IMG_2426-retuschiert: Accurate and smooth stacking by means of robot technology