

# Optimized production



## Hegla: retrofitting lines with ReMaster

*Thirty years' experience in the field of machinery manufacturing is what German Hegla has to back up its production. A recent development of the company – the Universal-ReMaster – is presented in this article, demonstrating its full potential in terms of optimizing the use of remnant glass and reducing material costs.*



**G**erman-based Hegla, manufacturer of machines and equipment for glass processing since 1976, combines high quality and innovation along with top-level and consistent service around the clock and around the globe.

In fact, the company views its customers as worldwide "partners" who contribute to the development of new ideas and products such as the *Universal-ReMaster* which can be integrated with existing cutting lines.

### UNIVERSAL-REMASTER PERFECT RETRO-FITTING

The great advantage of the Universal-ReMaster is that it is retro-fittable to other machines, thus optimizing the use of remnant glass and reducing material costs drastically.

The ReMaster automatic sub-plate re-use system can now be integrated into existing cutting lines. This prepares the ground for an efficient production for all glass types and thicknesses. It offers optimal utilization of sub-plates, decreases material costs and drastically reduces unnecessary handling thus, increasing output.

#### *ReMaster system and equipment*

The unique ReMaster system has been developed to counteract problems encountered by 6 x 3 metre glass users: excess waste and slow output.



Lifting and transport frame and horizontal buffer

Positioned tilting table



# existing cutting technology

## The problems:

Although sub-plates can be re-used, the unloading from the original run and the subsequent reloading is time consuming. In addition, this double-handling inevitably causes damage (scratching, shelling, etc.) to the glass.

The unloading of sub-plates also requires the use of overhead cranes which may already be in use. And, in many cases, the glass must be moved several metres away from the end of the cutting line which is time consuming.

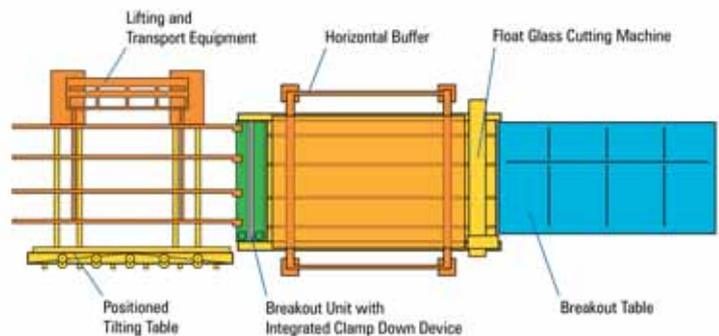
The optimization results achieved on 6 x 3 metre sheets have always been very good but these yields do not take into account the final sub-plate which could be ca. 6 x 3 metres or as small as 1 x 3 metres.

## The solutions:

The Re-Master has its own software system that can be linked by a pre-defined interface to existing software packages. The stored sub-plates within the system are shown on the ReMaster Screen, which can also be linked to the production office.

The ReMaster equipment consists of a horizontal storage system (with 20 or 25 slots) above the cutting table and a cantilever lifting section which moves the glass from the cutting table to the storage system and vice-versa. It solves the above-mentioned problems with its unique lifting, storage and reload solution.

The ReMaster lifting frame can be positioned at the front of a line; this is either fed by a double sided loader or gantry system with tilting table. The breakout device as part of the Universal-ReMaster is positioned between the



existing cutting machine and the cantilever lifting-section. With the transport belt the glass sheet is being transported back from the cutting machine via the traverse breakout station. On this station the already cut glass plate is separated from the sub-plate (see photos of the breakout device). The sub-plate is then stored into the horizontal storage system whereas the glass plate is ready for further processing ■

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## BREAKOUT DEVICE

