

Gerhard Warning, 33619 Bielefeld, Germany

## Substantial savings potential with new welding and rolling technology

Gerhard Warning Verschleißtechnik und Industrieprodukte from Bielefeld in Germany has been a leading supplier of high-strength wearing parts to the building material, cement, steel and foundry industries all over the world for many years. The compound armouring material Contex Alphachrom 7000plus is used very successfully in the concrete industry for the highly wear-resistant lining of bases and walls in mixers and of feed box table plates of all kinds. Combination with widia-equipped mixing paddles and/or widia-equipped vibrating table bars in block making machines results in high reliability, high dimensional accuracy of the product heights and minimised cleaning times.

Due to the increasing size of production boards (1,400 x 1,400 mm or larger) and the high performance of today's block making machines, wear and cleaning times are becoming increasingly important. High repeatability of the filling procedure for both facing and core concrete is only guaranteed if the facing and core concrete run on flat and permanently non-worn table plates.

Conventional sheet steel and even good composite armouring materials sometimes cannot fulfil these requirements permanently. Traces of wear can already be seen after a while on the feed box table plates. These appear near the mould connection, with the result that significant losses of concrete material become visible in front of and behind the feed box. This makes additional cleaning times necessary. Run-in grooves, which can be several millimetres deep, are created by the undercutting concrete material near to the lateral

walls of the feed box. These grooves quickly carve themselves into normal materials and allow concrete to escape from the feed box at the sides. This can then be eliminated only with a great deal of time and effort.

Neither wearing area can be prevented or adjusted. In the case of rolled sheet steel, however, they lead at an early stage to obstructive concrete loss. The necessary cleaning work must then take place with the machine stopped during running production.

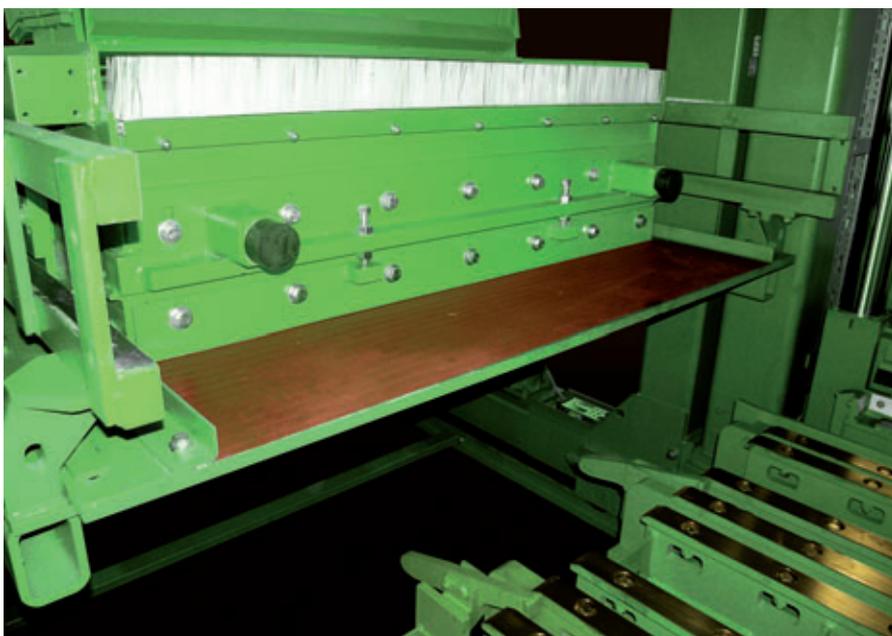
With the new-type Contex Snake 8000plus armoured steel plate, a further development of the previous Alphachrome 7000plus series, this wear is reduced on a long-term basis to a minimum, so that daily cleaning at the end of production is usually sufficient.

Due to the extremely wide welding beads with an S-shaped seam shape, the new Contex Snake 8000plus welding method now allows the creation of an extremely

high-strength surface through the crosswise overlapping of the welding seams, thus guaranteeing a long service life.

However, the high-strength wearing layer of this Alphachrome Snake 8000plus compound armouring material alone is not the whole quality. Of decisive importance is that the feed box table plates, both for the facing concrete and for the core concrete, guarantee optimum evenness. This is ensured by a very special rolling process, so that a flatness of 1 mm in 1,000 mm can be guaranteed.

Apart from the long service life of this special welding method, this even, highly wear-resistant table plate for facing and core concrete guarantees the customer extremely low losses of concrete, thus significantly reducing the cleaning times for the block making machine.



*With the high-strength wearing components from Warning, the service lives of block making machines can be extended and cleaning times shortened.*

### FURTHER INFORMATION



If you are hard to please,  
our "hardness" will please you

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