

Kobra Formen GmbH, 08485 Lengenfeld, Germany

## Patented technology for classy concrete stones

The patented “Dynamic Mould Insert™” technology for static board machines in the Kobra Dynamic™ moulds for pavers and high products has been proving itself in the market since 1996. Only in the case of Kobra Formen mould inserts completely milled and hardened are clamped by means of circumferential trapezes in bolted frames and vibrate at a frequency and amplitude several times higher than conventional standard moulds.

Kobra Formen GmbH from Lengenfeld focuses on continuous development and innovative mould construction. The patented Dynamic Mould Insert™ has established itself on the market as a modern mould technology. Kobra hence serves standards at the highest level.

Power Dynamic 1™ enables a unique kind of vibration behaviour during shock compaction that is fully decoupled from the mould frame. During compaction, the mass of the insert is accelerated more strongly and vibrates at a frequency and amplitude several times higher than the frame. Thanks to Optimill carbo™ and Optimill nitro™, the precisely machined mould insert distinguishes itself with its exact dimensional accuracy in the cavities and outstanding hardness quality. The methods applied by Kobra offer an all-round surface hardness of up to 62 HRC or 700 HV10. Circumferential trapezes are located on the external sides of the insert, via which the vibrating insert is clamped in bolted frame elements by means of rubber bearings. This principle enables a significantly higher load transmission into the concrete and ensures perfect paver sides on the stone. Since the

more strongly vibrating cavity walls close the outsides of the stones optimally, this results among other things in the resistance of even complicated products to deicing salt being increased considerably. With shorter cycle times, it is possible to achieve outstanding compaction results and up to 30 % higher strength compared to concrete blocks from conventional moulds. The Kobra vibrating insert has additionally proven itself in the manufacture of flat and difficult to fill products and thus gives the customer a further big advantage. Since the frame of the Dynamic 1™ is not welded, but bolted together from four parts, mould inserts can be exchanged very quickly at a Kobra service centre. If a suitable insert is available, the mould is ready for use again after a short time. The bolted frame can be reused as an old part up to four times together with new mould inserts, rubber bearings and wearing parts. The choice of the right mould technology has hence become of decisive importance for the design of economic production processes in concrete works.

By separating the fixed connection between the frame and the mould insert, the

vibrations in the machine frame and, accordingly, the wearing of machine parts can be reduced considerably. This technology variant is used in all products from a height of 60 mm and is available for all types of machines.

The Kobra Dynamic 1™ makes a solid contribution to durable, resistant concrete products and is particularly suitable for frequently recurring articles in large lot sizes.

### FURTHER INFORMATION



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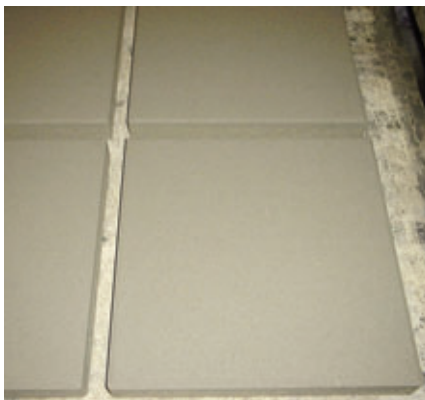


fig. 1: Stones produced using Dynamic™ moulds stand out with their consistent quality at shorter cycle times

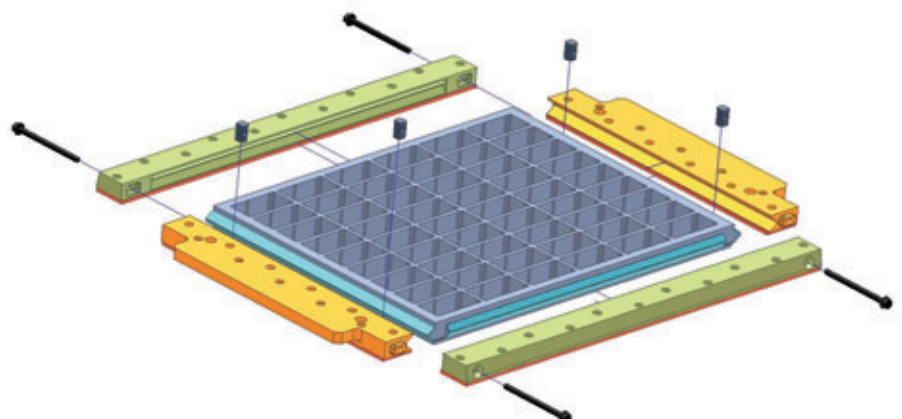


Fig. 2: The Dynamic Mould Insert™ is clamped in a four-part, screwed frame with rubber bearings



➔ VISION TO REALITY



# THE BETTER COMPACTION.

POWER   
Dynamic1™



*Don't miss this  
opportunity!*

Our patented POWER »Dynamic1™« vibrating insert molds will grant you substantially improved compaction results.

- Up to 30% higher strength compared to concrete blocks produced with standard molds.
- Optimum paver sides.
- Shorter cycle times possible.
- Reusable frame elements.
- Suitable for all blocks higher than 60 mm.

**KOBRA.** We make the mold around your stone.

**FOR ORDERS UP TO  
30<sup>TH</sup> JUNE 2009:**

**we will deliver this reliable and innovative technology at the price of a KOBRA standard mold. Convince yourself now of the benefits of using our innovative mold technologies!**

Detailed information can be obtained from our sales team.

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