

Rampf Formen GmbH, 89604 Allmendingen, Germany

Better quality and less wear

FlexWay is the name of the Rampf Formen GmbH mould slip system. It brings about a substantial reduction – to a bare minimum – in paver mould wear. There is a noticeable enhancement in the quality of pavers manufactured using this new system, which can be employed with all Rampf paver moulds. In addition, it increases the cycle rate and decreases the reject quota – with a resultant savings on costs for every mould.



Large format slip elements in the FlexWay make it possible ...

An innovative system that optimises the production process with block-makers, it has been the talk of the town since its international debut on the world stage at Bauma 2010. This new Rampf patent has, in the intervening time, revolutionised the production of concrete blocks – experts give unqualified praise. The ingenious system was engineered over the past few years in the Rampf Formen GmbH in-house development department and tested for its suitability for daily use in a long series of tests at partner businesses. The result of these many years of work is really quite impressive. Employing this new mould slip system guarantees a higher cycle rate due to less wear; it also ensures greater productivity through less waste with a demonstrably better block surface quality. Even the resistance to frost and de-icing salt is conspicuously improved. And this applies both to Germany and other warmer realms, like the Gulf region, where there is great salt content in the air. Neither are any big costs for handling generated by the system.

In the case of FlexWay, we are talking about a development, in which the conventional upper section of a mould arrangement has been divided in two. The upper part has been replaced by the FlexWay mould device. One great advantage is that this modularly constructed system can be very easily mounted on various mould upper parts. This enables it to be utilised flexibly with every type of paver. It can also be reused repeatedly. Even the rapid release device on the machine can be reutilised again and again. Setting-up times for

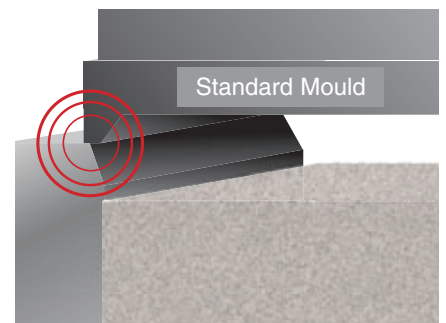
inserting a mould remain unchanged. The mould is installed as is customary, only the usual jiggling about is no longer necessary. Harm is prevented to both tamper shoes and mould insert by centring the individual components precisely. In contrast to conventional form arrangements, the mould upper part, in fact, moves synchronously with the mould lower part during the main vibration. This movement is generated in a very smooth and effortless manner since several robust, wear-resistant slip elements have been built into the FlexWay. No horizontal forces are exerted between the mould cavities and the tamper shoes. Restoring forces do not occur due to the horizontally braced shock mounts on the mould upper part. The engineers have controlled horizontal movement in the mould upper part by means of a built-in pneumatic braking system. This is released as soon as the tamper shoes plunge into the mould cavities. The pneumatic brake is then applied as soon as the tamper shoes travel out of the mould cavities for demoulding. In this way, the present position of the tamper shoes in relation to the mould cavities is stored and utilised for entering contact-free into the cavities again during the next cycle. This means 100 per cent centring from one cycle to the next.

In addition, FlexWay offers still further advantages in terms of appearance and paver quality, such as:

- better surface planarity with larger slabs
- uniform bevel formation from the first to the last cycle



... for the tamper shoes to plunge practically without contact into the mould cavities



Inaccurate insertion of the mould can lead to greater wear

- improved block appearance when manufacturing with white cement – less steel abrasion with resultant reduction in block surface discolouration
- decrease in the attachment of concrete to the tamper shoe

Rampf has also thought about how to commission the mould safely and operational instructions are included in the scope of delivery. If desired, Rampf Serviceteam specialists are available. ■

FURTHER INFORMATION



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