

PRODUCT INFORMATION

- New Product
- Modified Design

Mould Turning Device FW 1



Task:

In a concrete block plant, careful maintenance is essential to ensure smooth production runs and a consistently high quality level. Maintenance work is a time-consuming and expensive activity for the business. However there is no way of avoiding the cleaning and maintenance of the mould boxes and stamps immediately after a production run of paving stones has ended. Probst, working together with a concrete block plant, has developed a solution for this.

A paving-stone mould must first be cleaned and maintained before it is stored away for future use. There is always a danger that the moulds are damaged during cleaning, presenting a significant economic risk. The cost of a new mould is in five figures.

Solution:



Mould box and stamp, strapped together with two security straps, fixed onto the mould turning device FW 1, turning has started.



Stamp in upside down position taken away on a pallet by the forklift, mould box stays in mould turning device



Positioning of the mould box in best position for maintenance work.

Type	Turning Range	Including	Order-No.
FW 1	360° continuous	1 Adapter Set to receive the mould	5740.0087

Advantages:

In order to minimize the risk, rationalizing the task and making the process of cleaning and maintaining the paving-stone moulds easier, the mould turning device FW 1 was designed. The mould turning device has its own drive motor and works as follows:

The complete mould is lifted into the rotating device and fixed to it by a suitable adapter. The mould box and the stamp are tied together by two polyester straps, then FW 1 turns the complete mould through 180° by means of a electric, 3 phase motor. A forklift then positions a pallet underneath the stamp, the straps are released, the forklift lowers down the pallet with the stamp, the shoes are sliding out of the mould box towards the bottom. When they are not engaged with the mould box any more, the forklift takes the stamp, which is now positioned upside down, away from the mould box. Now both parts, stamp and mould box can be cleaned and serviced in the upside down position. Especially the turning of the heavy mould box and stamp part into the upside down position, is very dangerous, time consuming and there is also a high risk of damaging the parts during this procedure.

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After the cleaning and maintenance process, both parts are engaged to one another again by a reversed process and then turned back by 180° into the normal position. Now they can be stored away and they are ready for being put into the production machine at any time.

Not only is maintenance better because of the easier access and the improved overview, but also the working places are offering less strain on the back as the work can be carried out in more ergonomic body position.

If the mould turning device is not needed any more, it can be stowed away at any time by the forklift as shoes to receive the forks are integrated in the bottom frame of the unit.

In order to accommodate different machines and moulds, different adapters to receive the mould into the mould turning device are available.

Everything is faster and easier and the work is more thorough as a result. Set-up times are short. Very intensive and comprehensive maintenance work is being done, handling time is reduced by up to 50 %. The mould rotating device is absolutely reliable in service and makes working in a concrete block factory much safer.

There are benefits that are difficult to quantify in numeric terms, however just the ease with which damage to the moulds can be prevented means, that the financial risk to the business is minimized considerably.