

Pedax A/S, 3490 Kvistgaard, Denmark

Roll mats made from reinforcing steel

Roll mats greatly facilitate installing large surface area reinforcing. Installation times can be shortened by up to 80%. Despite this fact, roll mats are seldom utilised and then only in some countries. Whereas, for example, roll mats are employed frequently and very effectively in Scandinavian countries, they are found only just occasionally in Germany. Roll mats are installed by simply being rolled out like a carpet. A free choice of rebar lengths, diameters and spacing generates substantial savings on steel.



Roll mats can be produced by varying manufacturing methods. Concrete reinforcing bars are welded together with flat steel strips and then coiled up or the rebars are joined together with tying wire and then rolled up. Pedax offers this latter procedure using an automated machine called "Spinmaster".

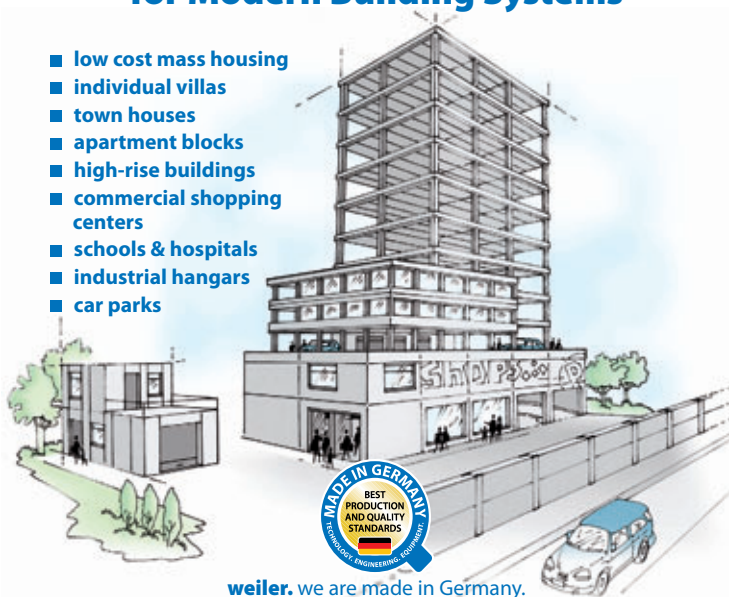
The wire tying technique offers some advantages: non-welded roll mats can be employed without any problems for areas with alternating loadings, as, for example, would be necessary with bridges or reinforcement for multi-storey car parks. The material jointing in the reinforced concrete remains unchanged. The machine operator has no need of welding permits and consequently no employees with special qualifications. This wire tying technique also enables

Pedax Spinmaster for automated roll mat production. The longitudinal rebars are joined to each other automatically using a tying wire technique; they are not welded



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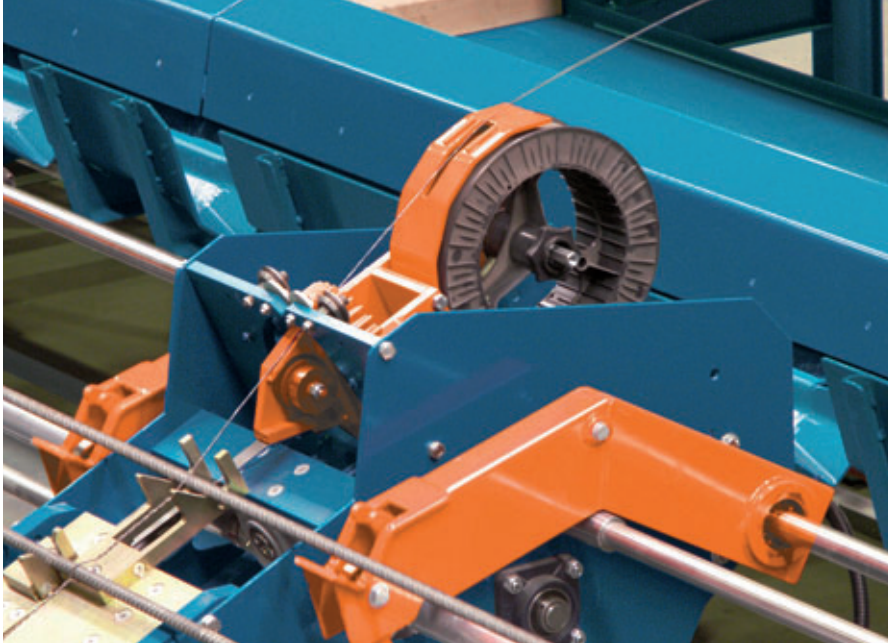
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Tying wire unit on a Spinmaster

All overlaps, which always have to be taken into consideration when installing other commercially obtainable mats, can be eliminated through utilising roll mats. The bottom line is that savings can be made on expensive material.

Pedax can now supply these high-capacity, automated Spinmaster machines that enable roll mats to be produced cost-effectively using the tying wire technique. The entire process runs automatically. Spinmasters are available in different versions and for varying mat widths in the Pedax programme. As the basic structure is composed of individual modules, it can also be upgraded at a later date.

FURTHER INFORMATION



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different types of reinforcing steels, such as stainless or plastic coated steels, to be processed. Spinmasters are high-performance machines that function automatically and can be monitored by one operator. The mats are rolled up neatly and can thus be installed rapidly and tidily. The rebars are cut to size with conventional working methods, the rein-

forcing mats prepared in accordance with specifications, and then stored before being individually set in place by an installer. Roll mats are manufactured automatically to fit precisely and to be rapidly rolled out. The tying wire technique enables the roll mats to retain a certain amount of flexibility. This simplifies the possibility of corrections.

▶ TWINMASTER 20

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