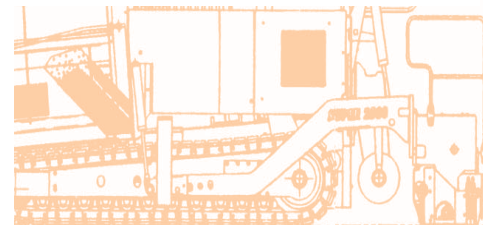
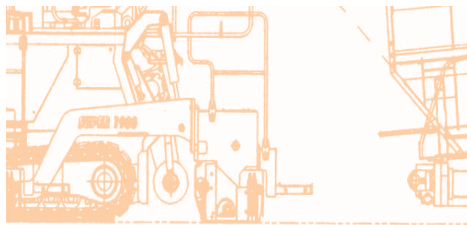
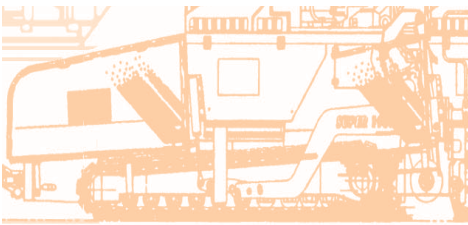
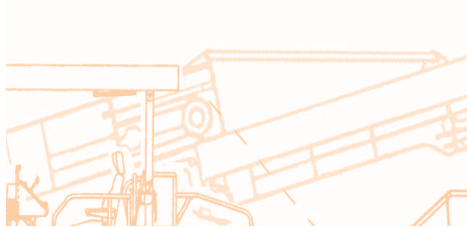




INLINE PAVE



Over the past two years, the company MATTHÄI has conducted extensive experiments with asphalt screeds which are able to pre-compact asphalt courses up to 10 cm thick to a degree which approaches the results of final compaction. In collaboration with the company VÖGELE, TP 2 screeds were modified in such a way that these requirements could be met. These screeds form the basis for the development of two processes for the production of compact asphalt applying the „hot-on-hot“ method..

With the first variation on the „INLINE PAVE“ process, the mix is transported by means of a feeder either into the mix hopper of the paver, which is paving the base course, or passed to a transfer belt which feeds the mix to the hopper of the paver travelling directly behind (Fig. 1).

The mix laid is pre-compacted to almost 100% due to the use of the first paver's screed, so that the downstream paver only presses into the fresh asphalt layer to a minimum degree with its tare weight. Crushing of the previously placed course does not occur (Fig. 2).

The asphalt course produced in this manner can be driven on directly and compacted by 9 t vibratory tandem rollers. Due to the high degree of pre-compaction of the base asphalt course, there is no crushing or displacement exceeding the usual tolerances. This extensively minimizes the risk of producing bumps through roller faults when compacting with roller dimensions of over 15 mm – a problem universally associated with other processes for producing compact asphalt (Fig. 3).

In the 2006 construction season, over 500,000 m² of compact asphalt will be produced by MATTHÄI applying this paving process. Of this total, some 300,000 m² will be two-course porous asphalt.

With the second variation on the „INLINE PAVE“ process, the base course is paved with two asphalt pavers working in echelon, also equipped with high-performance screeds. The screeds on the first pavers are mounted eccentrically in order to feed the downstream paver, which paves across the entire pave width. This allows a feeder for the paver to travel along with the group within the available space. Pave widths from 10.00 m are possible with this option (Figs. 4-5). In 2006, over 200,000 m² of compact asphalt will be produced with this method.

The contractually stipulated asphalt parameters were fulfilled in all construction projects performed.

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