

Profiled Nails from the DREAM TEAM - The New WAFIOS Thread Roller Model THREADMASTER In-Line with the High-Performance Wire Nail Machine NAILMASTER

WAFIOS has been successfully established on the market for many years with the N 90 combined with the thread roller GW 92. The direct linkage of a nail machine to a thread roller means there is no need for conveyor belts, bunkers, vibration conveyor pots and feed rails. With the NAILMASTER, WAFIOS has a high-performance wire nail machine, which can supply a thread roller directly with up to 1,400 nails a minute - reason enough for WAFIOS to develop a new thread roller.

Each nail produced on the WAFIOS NAILMASTER is conveyed individually and synchronized to the new WAFIOS thread roller model THREADMASTER. In the process, conventional conveying technology can be completely omitted between the machines as the thread roller is directly connected to a transport system driven by the nail machine. The nails are conveyed by means of a belt through the nail machine and out of its soundproof booth and thus never "let go" until they are inserted precisely into the tool gap by the pusher of the roller.

At the center of the new thread roller is without a doubt the servomotor driven, patented circular pusher. Thanks to the pusher fork moving on a circular path, the nails are picked up from the transport belt and are directed at an exactly defined point in time to the tool gap between the ring tool and the fixed segment. Beforehand, the nails are aligned by a retaining device to be then fed precisely via the movement of the pusher into the tool gap.

The distinguishing features of the THREADMASTER itself are a very stable roll shaft bearing, defined setting of the rolling tools and positioning of the roller shaft to the pusher at the touch of a button. In the production of screw nails, these properties are indispensable in order to prevent excessive rolling. With the use of rolling tools, whose geometry has been specially defined by WAFIOS, screw nails can be produced with maximum and constant product quality. The significantly improved forming process on the THREADMASTER also contributes to higher energy efficiency and to a longer tool service life.

The integrated length measuring device in the NAILMASTER measures every nail. Thus, faults in profiling the nails can be considerably reduced. If problems do, however, occur during the pushing-in process, the nails are discarded through a gate in order to prevent any damage to the rollers and tools.

The significant advantages of the directly linked machines are not only their very low space requirement but also the easy adjustment of the thread roller, short set-up times, ready-to-use, profiled quality nails and a high degree of flexibility. The situation on the nail market has changed considerably over the last few years. Nail manufacturers are demanding an increasing amount of flexibility and high product quality. In addition, there is a demand for systems which produce ready-to-use products in a confined space and with maximum availability.

With its new machine combination NAILMASTER + THREADMASTER, WAFIOS offers the right system design to remain active and successful in the nail industry.



Fig. 1 Nailmaster with Threadmaster