

**AUTO-TUFT**

AUTOMATIC MATTRESS TUFTING SYSTEM

# AUTO-TUFT Mattress Tufting System

For many years tufted mattress have accounted for a large percentage of mattresses sold in the U.K. market. The method of tufting is regarded as one of the most time consuming operations in the mattress manufacturing process and one of the most labour intensive with most companies employing two operatives per tufting machine. The production output from a two-man team is between 70 – 100 mattress per 8-hour shift, resulting in large producers of tufted products employing up to eight people to obtain 400-tufted mattress per day.

The **AUTO-TUFT** is fully automated mattress tufting system and capable of tufting in excess of 200 mattresses per 8-hour shift. It requires only one operator; virtually eliminating the need for material handling. Products are introduced into the machine via a horizontal conveyor that centralises the mattress before tufting. Sensors automatically detect the size of the mattress during the in-feed process and relays this data to the **AUTO-TUFT's** PLC this then selects the correct tuft pattern for

that product size. After tufting is complete, products can either be exited via a gravity conveyor or fed directly into a mattress wrapper.

The **AUTO-TUFT System** benefits from continuous roll feed tufts (**AutoPopins**) and felt washers (**DaisyChain**) supplied by **J. DeWalleg Ltd.** The **AUTO-TUFT System**

requires one roll of **AutoPopins** containing 5000 tufts and two rolls of **DaisyChain** for top and bottom magazines each containing approximately 1900 washers. With full rolls, the machine is capable of tufting 80 – 100 mattresses without the need for changeover downtime.

*"The machine has been in full production with*

*very encouraging results, we are now able to tuft in excess of two hundred mattresses, regularly, and in one shift alone we have recorded tufting 217 mattresses across our range of sizes."* (Mr Frank Gibbons Technical Director of Slumberland).

*"The MPT Groups' Auto-Tuft System is a welcome and much needed innovation that will ensure the constant demands for higher quality tufted mattress products are met by manufacturers in both the UK and world market".* (Mr Patrick Newstead, Chairman and CEO of Slumberland).



MATTRESS PRODUCTION  
TECHNOLOGY GROUP LIMITED