

## HM801

Straight line sewing machine with  
synchronized template transport



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The HM801 will enhance medium duty sewing machines with a template transport system that allows accurate positioning and perfect straight sewing.

### The idea

Like all HM modifications, you'll find a "standard" high quality sewing machine and controller capable of delivering the required seam. Both chain stitch or lock stitch machines can be used in different needle and arm length configurations.

The HM801 will add a 400W servo motor to drive an endless timing belt in-line with the sewing direction. This motor is capable of delivering power, accuracy and speed. A dedicated encoder in the sewing head will provide needle position and speed to a high end controller. This allows the HM software to get the servo in perfect sync with the sewing transport motion.

A customized light weight template makes it easy to position and fix a work piece. The operator slides the template towards the sewing head up to the point where the timing belt will take over. From this point the absolute position of is known. There is no need to mark seams nor to clean markings afterwards.

The belt will take the fixture up to the start of the needle. The HM controller will instruct the sewing machine to start sewing.

### Indexing

A common feature of the HM801 system is to add an indexer. This system allows to program multiple parallel seams, either by hand or fully automated by a second servo drive combination. The maximum reach depends on the sewing arm clearance (a feature of the applied sewing head).

### User friendly

The operator has to put the right piece into the right fixture after which the HM801 will take over the whole process. The normal behavior of the sewing machine is maintained. This allows sewing technicians to focus on seam quality issues rather than studying difficult operation issues. A normal pedal can be connected to the machine to make "normal" seams anytime between automated production cycles.

### Further possibilities

The HM801 system can be equipped with RFID template recognition. Whenever a template is being loaded, its RFID tag will ensure that the correct seams lengths and index information is pre-loaded.

The HM801 system does not occupy valuable space in front, behind or even inside the sewing machine. We can use all sorts of modifications and control them as well. Units to "feed" listing or pre-formed wire pockets (PWP) can be implemented. Some machines can have detachable needle bars to combine 1 and 2 needle operations. To monitor quality, (bobbin) thread monitors can be used. Feel free to challenge us with your straight line requirements.

**For more information, please contact:**



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