

HM814

Documented sewing workstation



HM814

Documented sewing workstation



Documented sewing workstation based on a customized Dürkopp Adler M-Type sewing head and equipped with state-of-the-art monitoring devices. The HM814 combines all the benefits of an M-type triple transport or roller feed machine with tailor-made technology from Habraken.

Highly flexible system

The development of the HM814 is based on more than 25 years of experience in the field of Documented sewing workstations by Habraken. The result is a highly flexible system that is easy to adapt to meet continuously changing demands. The HM814 guarantees accurate production, accurate evaluation and accurate documentation of your products. An in-seat airbag places critical demands on the sewing of seat covers. The seam must be durable throughout a normal lifetime and yet tear in the event of airbag deployment. The HM814 monitors all the critical aspects involved during documented sewing to ensure safe and reliable action to both of these contradictory demands.

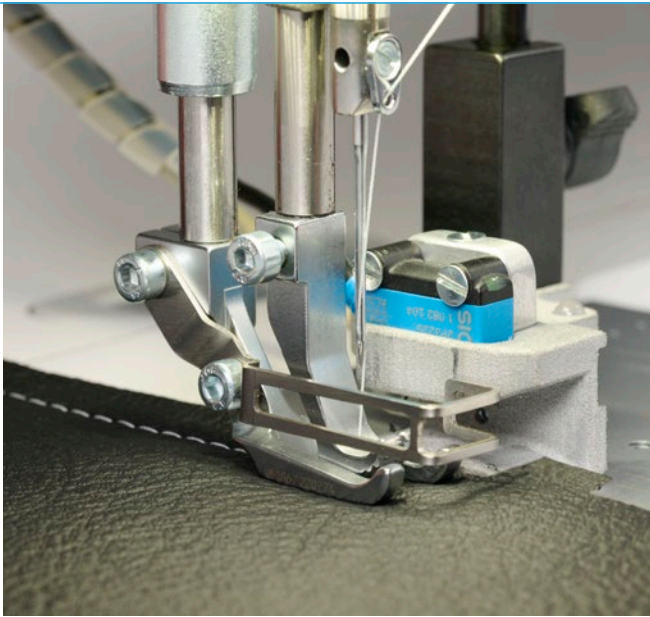
Vital monitoring

Advanced monitoring devices allow the HM814 workstation to tag and record all relevant data on approved products. This vital information will serve as the source for the product tracking database. At the same time, sewing on the HM814 has been kept much the same as working on a standard M-Type machine, resulting in a low learning curve for the operator.

Goals

- Minimum interference from monitoring system to avoid distracting the operator
- Records only unambiguous and relevant data
- Flexible implementation of customer requirements
- Open architecture to enable integration of third party components
- Most important: Keep It Simple.



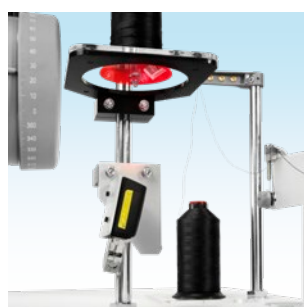


New HM814 Delta SEWCO

The latest development in the field of our HM814 workstation for documented seams is the HM814 Delta SEWCO. This workstation combines the state of the art technology and the flexibility of the Dürkopp Adler M-Type Delta with the features of SEWCO, the newly developed documentation software by Habraken.

SEWCO enables the full use of all setting possibilities offered on the M-Type DELTA. Sewing parameters like thread tension, stitch length, sewing speed, foot pressure, back-tack settings and many more, can be set for every product individually.

Every production cycle can be split up into as much as 16 sections. For every section, sewing parameters can be set individually, which makes the system highly flexible and suitable for various documentation processes.



Main Features

The system is modular, offering the following options:

- SEWCO sewing control software. License based on software protection hardware (dongle key)
- Coloured bobbins with modified spindle hole and bobbin case
- Network enabled, fan-less powerfull panel PC
- The possibility to use various brands and types of barcode printers
- A bobbin tracing system to ensure the use of the correct (specified) hook thread
- A thread tension monitor to keep the thread tension between the specified limits
- Theoretically unlimited amount of stationary scanners to check the used threads and materials
- Covered and locked thread cone cases with thread movement sensors
- UPS (uninterruptable power supply)
- Various ways of operator identification like RFID operator cards
- Foldable keyboard and mousepad support bracket (only accessible for authorized personnel)
- External – software controlled – bobbin winding station with thread movement sensors
- Bobbin thread monitor to prevent empty bobbins while sewing
- Extra I/O connection possibilities for integration of external Poka Yoke systems
- Various types of adjustable edge guides with colour independent notch detection
- Skipped stitch detection

The system, in combination with the SEWCO software, offers SQL database support with regard to both production and traceability databases, both on a local and remote server. This allows centralised production data management.

Habraken also offers full MES (Manufacturing Execution System) support. This enables you to connect the machine to an MES server and retrieve production data directly from it, and store traceability data directly onto the MES server.

Please contact us for more information on different models or customized workstations.



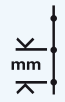








Options:

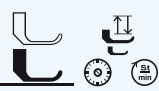

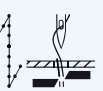



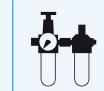
- Various sewing heads possible such as:
 - Flat-bed, Post-bed, Triple transport and roller feed
- Operator identification system with special tag cards
- Bobbin registration system
 - Barcode identifiable bobbins and a database which links the bobbin to the bobbin thread cone ensures the use of correct bobbin thread
- Edge trimming system
 - Electro motor driven edge trimmer with counter knife
 - Trimming distance as from 1,2 mm





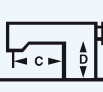

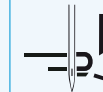

For more information, please contact:

tel: +31 (0)416 276 919, email: info@habraken.nl
or website: www.habraken.nl

HM814 Classic - technical data

	 Stitch length [mm] max.	 Stitches min. [min ⁻¹] max.	Material	 Single needle	 Twin needle	 Lockstitch 301	 Bottom feed, needle feed and alternating feet	 Vertical hook, large (L)	 Wheel feed, needle feed and driven roller presser	 Roller presser diameter [mm]
HM814-867-190122	9	3.400*	M, MS	●		●	●	●		
HM814-867-190322	9	3.400*	M, MS	●		●	●	●		
HM814-867-290122	9	3.400*	M, MS		●	●	●	●		
HM814-867-290322	9	3.400*	M, MS		●	●	●	●		
HM814-867-190425	9	3.400*	M, MS	●		●	●	●		
HM814-887-363122	9	3.000*	M, MS	●		●		●	●	35
HM814-888-160122	9	3.000*	M, MS	●		●		●	●	35










	 Automatic sewing foot lift / Foot stroke adjustable by dial with simultaneous automatic speed limitation	 Automatic sewing foot lift / Control for two feed lengths / Quick stroke adjustment via knee switch and foot stroke adjustable by dial with simultaneous automatic speed limitation according to the foot stroke and feeding length	 Automatic seam backtacking and thread trimmer [mm]**	 Additional thread tension: MA = Manual A = Automatic	 A = Clearance when sewing B = Clearance when lifting	 Stroke of the alternating sewing feet [mm] max.	 [NL] [bar]
HM814-867-190122	●		● 15	● MA	A 10 B 20	9,0	0,6 6
HM814-867-190322		●	● 15	● A	A 10 B 20	9,0	0,6 6
HM814-867-290122	●		● 15	● MA	A 10 B 20	9,0	0,7 6
HM814-867-290322		●	● 15	● A	A 10 B 20	9,0	0,7 6
HM814-867-190425	●		● 15	● A	A 10 B 20	9,0	0,7 6
HM814-887-363122			● 15	● MA	A 12 B 12		0,6 6
HM814-888-160122			● 15	● MA	A 12 B 12		0,6 6







	 Needle system	 Needle size	 Threads: Types and thicknesses Synthetic min/max Core thread min/max	 Clearance C [mm] D [mm]	 Touch Panel PC with keyboard, mouse and intuitive software	 Vertical knife, motor driven	 Hand-held scanner for reading of process barcodes	 Fixed scanner for reading of process barcodes
HM814-867-190122	134 - 35	90 - 180	80/3 - 10/3 80/3 - 10/3	335 125	●		●	●
HM814-867-190322	134 - 35	90 - 180	80/3 - 10/3 80/3 - 10/3	335 125	●		●	●
HM814-867-290122	134 - 35	90 - 180	80/3 - 10/3 80/3 - 10/3	335 125	●		●	●
HM814-867-290322	134 - 35	90 - 180	80/3 - 10/3 80/3 - 10/3	335 125	●		●	●
HM814-867-190425	134 - 35	90 - 180	80/3 - 10/3 80/3 - 10/3	335 125	●		●	●
HM814-887-363122	134	70 - 160	80/3 - 20/3 80/3 - 20/3	280 137	●	●	●	●
HM814-888-160122	134	70 - 160	80/3 - 20/3 80/3 - 20/3	280 300	●		●	●










M = Medium weight material
MS = Medium weight to heavy weight material
● = Standard equipment
○ = Optional equipment
MA = Manual









A = Automatic
* = The maximum number of stitches depends on the preselected stroke height and the selected stitch length/pattern
** = Remaining thread length [mm]
*** = Depending on subclass / motor

HM814 Premium and Delta SEWCO - technical data

	 Stitch length [mm] max.	 Stitches min. [min-] max.	Material	 Single needle	 Twin needle, needle distance [mm]	 Lockstitch	 Vertical hook, large (L)	 Vertical hook, large (XL)	 Bottom feed, needle feed and alternating feet	 Thread trimmer, automatic [mm]**
HM814-867-190925-M	9	3.400	M, MS	●	○	●	●		●	● 5
HM814-867-190945-M	9	3.400	M, MS	●	○	●		●	●	● 5
HM814-D867-190925	9	3.500	M, MS	●	○	●	●		●	● 5
HM814-D867-190945	9	3.500	M, MS	●	○	●		●	●	● 5

	 Stroke of the alternating sewing feet [mm] max.	 Programmable thread tension	 Stepper motor driven, programmable thread tension	 Stepper motor driven stitch length adjustment with simultaneous speed limitation according to the feeding length	 Stepper motor driven foot stroke and quick stroke adjustment with simultaneous speed limitation according to the stroke height	 Stepper motor driven sewing foot lift and stepper motor driven sewing foot pressure
HM814-867-190925-M	2,5 - 9,0	●		●	●	●
HM814-867-190945-M	2,5 - 9,0	●		●	●	●
HM814-D867-190925	2,5 - 9,0		●	●	●	●
HM814-D867-190945	2,5 - 9,0		●	●	●	●

	 Automatic material thickness detection	 Electronical needle positioning	 Thread nipper for neat seam beginning	 Electronical backtack	 Integrated LED sewing lights with dimmer	 Maintenance indicator	 Motor driven bobbin winder	 Program control, operating panel Commander Delta	 Program control, operating panel Commander Pro
HM814-867-190925-M	●	●	●	○	●	●			○
HM814-867-190945-M	●	●	●	○	●	●			○
HM814-D867-190925	●	●	●	○	●	●	●	●	
HM814-D867-190945	●	●	●	○	●	●	●	●	

	 A = Clearance when sewing B = Clearance when lifting A [mm] B [mm]	 Needle system	 Needle size	 Threads: Types and thicknesses	 Clearance C [mm] D [mm]	 Hand-held scanner for reading of process barcodes	 Fixed scanner for reading of process barcodes	 Touch Panel PC with keyboard, mouse and intuitive software
HM814-867-190925-M	10 20	134 - 35	90 - 140	120/3 - 15/3	335 125	●	●	●
HM814-867-190945-M	10 20	134 - 35	90 - 140	120/3 - 15/3	335 125	●	●	●
HM814-D867-190925	10 20	134 - 35	90 - 140	120/3 - 15/3	350 128	●	●	●
HM814-D867-190945	10 20	134 - 35	90 - 140	120/3 - 15/3	350 128	●	●	●

M = Medium weight material
 MS = Medium weight to heavy weight material
 ● = Standard equipment
 ○ = Optional equipment
 MA = Manual

A = Automatic
 * = The maximum number of stitches depends on the preselected stroke height and the selected stitch length/pattern
 ** = Remaining thread length [mm]
 *** = Depending on subclass / motor

HABRAKEN

Habraken BV Spanjestraat 1 5171 PE Kaatsheuvel The Netherlands Tel. +31 (0)416 276 919 Fax +31 (0)416 279 245
 Habraken Belgium NV Zijpstraat 236 B-1851 Humbeek Belgium Tel. +32 24 264690 Fax +32 24 253059
info@habraken.nl www.habraken.nl