

HM820

Special machine for sewing decorative stitches



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Special machine for sewing decorative stitches based on a Dürkopp Adler M-Type customized by Habraken.

The HM820 is a revolutionary industrial sewing machine with its rotating needle bar. The HM820 combines all the benefits of the M-Type triple transport machine with state-of-the-art technology by Habraken.

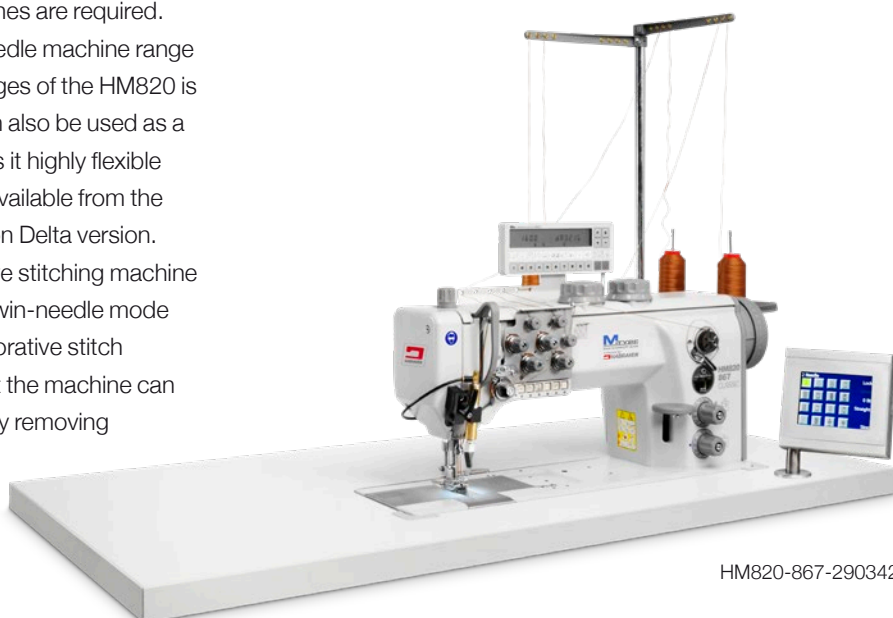
Intuitive technology

The HM820 is a machine for sewing decorative stitches in home upholstery, but can also be used for leather goods or other materials where triple transport machines are required. The HM820 is based on the M-Type twin needle machine range from Dürkopp Adler. One of the big advantages of the HM820 is that next to sewing decorative stitches it can also be used as a standard twin needle machine, which makes it highly flexible for each kind of production. The HM820 is available from the low cost ECO version up to a full specification Delta version. This makes the HM820 the fastest decorative stitching machine on the market today. Using the machine in twin-needle mode offers the possibility to use 16 standard decorative stitch patterns and 16 user designed patterns, but the machine can also be used in single needle mode simply by removing 1 needle and then another 16 stitch patterns will come available. Utilizing the latest user-friendly technology, the HM820 is capable of creating a wide

range of decorative stitching. You can simply select the required decorative stitch design by touching the corresponding button on the intuitive touch screen panel. Or you can compose your own stitch from scratch by combining features such as needle swap, forward and reverse transport, 0-stitch and optional second-stitch length with our user friendly programming software. We deliver this software as freeware for Windows OS.

Outstanding design

The sturdy design maintains all the aspects of the proven M-Type transport mechanism, which is renowned for delivering outstanding performance. Dedicated high speed electronics ensure safe and reliable operation. Both needle and transport control are fully adaptive for speed which goes up to 1.000 stitches per minute for decorative stitching and up to 1.600 stitches per minute for normal sewing.





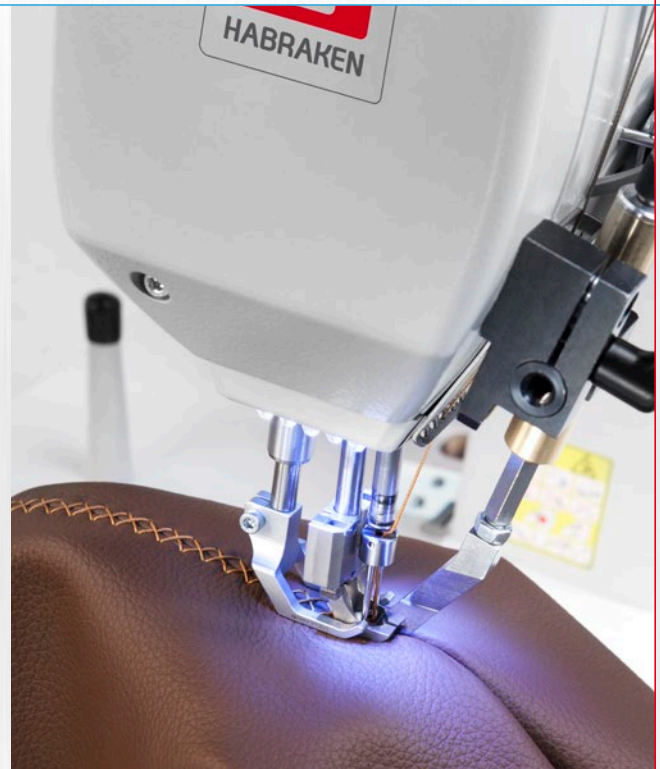
New HM820 Delta

You can benefit from our innovative HM820, combined with the state of the art technology and flexibility of the Dürkopp Adler M-Type Delta. This allows for a much more streamlined use of the HM820, as the decorative stitch software has been integrated into Commander Delta. Without the need of an additional touchscreen, you have all your settings right at your finger tip. The 'standard' sewing parameters, as well as the pattern software is integrated and available in one user friendly screen.



The HM820 Delta offers you the following benefits:

- M-TYPE DELTA with programmable setting elements for reproducible sewing results
- 2 subclasses (single or twin needle version with enlarged bobbin capacity due to XL hook (Ø 28 mm) and thread trimmer
- Integrated sewing motor with network capable “DAC flex control” incl. operating panel Commander Delta ensures optimum functionality and maximum ease of use for “Industry 4.0 applications”
- Machine-specific software with intuitive user interface for convenient administration of sewing parameters
- 999 storage locations for machine settings (setup) or complex seam programs with 30 seams or sections max
- Graphical visualization of the process progress within the seam programs
- Programmable setting elements for stitch length adjustment, sewing foot, sewing foot pressure and sewing foot lifting height and needle thread tension by means of integrated stepper motor
- Integrated material thickness detection (MTD) for optimization of sewing parameters during the sewing process
- Optimized working area due to electronically driven, programmable edge guides (optional)
- Easy and precise needle positioning due to electrical handwheel (scroll wheel)
- Improved sewing results due to new sewing kinematics.

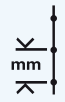












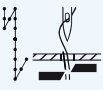


- The HM820 is a machine for sewing design seams in automotive and home upholstery, leather goods and others.
- The HM820 can be supplied as flat bed, post bed, cylinder arm and long arm machine.
- Using the latest user-friendly technology, the HM820 is capable of creating a wide range of decorative stitching.
- You can simply select an appropriate design seam on the intuitive touch screen panel. Or you can compose your own decorative stitch from scratch on your Windows pc by combining features such as needle swap, reverse transport or stand, and optional second-stitch length.
- The HM820 can also be used as a standard twin needle machine which enhances its employability.
- The HM820 is available in needle distances from 2.5mm until 12mm.
- The HM820 is the fastest design stitch machine in its class with a sewing speed up to 1.000 stitches per minute for design stitch sewing and 1.600 stitches per minute for normal sewing.




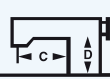
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HM820 Eco and Classic - technical data









	 Stitch length [mm] max.	 Stitches min. [min ⁻¹] max.	Material	 Twin needle, needle distance [mm]	 Lockstitch	 Bottom feed, needle feed and alternating feet	 Vertical hook, large (L)	 Vertical hook, large (XXL)	 Sewing foot lift, automatic	 Foot stroke adjustable by dial
HM820-867-290121	12	800*	M, MS	2,5 - 12	●	●	●		●	●
HM820-867-290141	12	800*	M, MS	2,5 - 12	●	●		●	●	●
HM820-867-290322	12	800*	M, MS	2,5 - 12	●	●	●		●	●
HM820-867-290342	12	800*	M, MS	2,5 - 12	●	●		●	●	●
HM820-867/Servo	12	1.000*	M, MS	2,5 - 12	●	●	○	○	●	●
HM820-868-290121	12	800*	M, MS	2,5 - 12	●	●	●		●	●
HM820-868-290322	12	800*	M, MS	2,5 - 12	●	●	●		●	●
HM820-868-290341	12	800*	M, MS	2,5 - 12	●	●		●	●	●
HM820-868/Servo	12	1.000*	M, MS	2,5 - 12	●	●	○	○	●	●



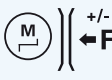



	 Quick stroke adjustment adjustable by dial activated by knee switch – with simultaneous speed limitation according to the foot stroke and feeding length	 Control for two feed lengths	 Automatic seam backtacking and thread trimmer [mm]**	 Additional thread tension: MA = Manual A = Automatic	A [mm]	B [mm]	 Stroke of the alternating sewing feet [mm] max.	[NL]	[bar]
HM820-867-290121		○		● MA	10	20	9,0	1,2	6
HM820-867-290141		○		● MA	10	20	9,0	1,2	6
HM820-867-290322	●	●	● 15	● A	10	20	9,0	1,2	6
HM820-867-290342	●	●	● 15	● A	10	20	9,0	1,2	6
HM820-867/Servo	○	○	○	● A	10	20	9,0	1,2	6
HM820-868-290121		○		● MA	10	20	9,0	1,2	6
HM820-868-290322	●	●	● 15	● A	10	20	9,0	1,2	6
HM820-868-290341	●	●		● A	10	20	9,0	1,2	6
HM820-868/Servo	○	○	○	● A	10	20	9,0	1,2	6

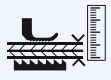








	 Needle system	 Needle size	 Threads: Types and thicknesses Synthetic min/max Core thread min/max	 Clearance C [mm] D [mm]
HM820-867-290121	134 - 35	120 - 180	80/3 - 15/3 80/3 - 15/3	335 125
HM820-867-290141	134 - 35	120 - 180	80/3 - 15/3 80/3 - 15/3	335 125
HM820-867-290322	134 - 35	120 - 180	80/3 - 15/3 80/3 - 15/3	335 125
HM820-867-290342	134 - 35	120 - 180	80/3 - 10/3 80/3 - 10/3	335 125
HM820-867/Servo	134 - 35	120 - 180	80/3 - 15/3 80/3 - 15/3	335 125
HM820-868-290121	134 - 35	120 - 180	80/3 - 15/3 80/3 - 15/3	335 297
HM820-868-290322	134 - 35	120 - 180	80/3 - 15/3 80/3 - 15/3	335 297
HM820-868-290341	134 - 35	120 - 180	80/3 - 10/3 80/3 - 10/3	335 297
HM820-868/Servo	134 - 35	120 - 180	80/3 - 15/3 80/3 - 15/3	335 297









- 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

HM820 Premium and Delta - technical data

	 Stitch length [mm] max.	 Stitches min. [min-] max.	Material	 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]**
HM820-867-290922-M	12	1.000	M, MS	2,5 - 12	●	●	○	●	● 15
HM820-868-290922-M	12	1.000	M, MS	2,5 - 12	●	●		●	● 15
HM820-D867-290922	12	1.000	M, MS	2,5 - 12	●	●	○	●	● 15
HM820-D868-290922	12	1.000	M, MS	2,5 - 12	●	●		●	● 15

	 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
HM820-867-290922-M	9	●		●	●	●
HM820-868-290922-M	9	●		●	●	●
HM820-D867-290922	9		●	●	●	●
HM820-D868-290922	9		●	●	●	●

	 Automatic material thickness detection	 Storage locations for set ups / seam programs	 Individual programmable complex seam sections	 Electronical needle positioning	 Thread nipper for neat seam beginning	 Electronical backtack	 Intergrated LED sewing lights with dimmer	 Maintenance indicator	 Motor driven bobbin winder
HM820-867-290922-M	●	999	30	●	○	●	●	●	
HM820-868-290922-M	●	999	30	●	○	●	●	●	
HM820-D867-290922	●	999	30	●	○	●	●	●	●
HM820-D868-290922	●	999	30	●	○	●	●	●	●

	 Program control, operating panel Commander Delta	 Program control, operating panel Commander Pro	 A = Clearance when sewing B = Clearance when lifting	 Needle system	 Needle size	 Threads: Types and thicknesses	 Clearance	 [NL] [bar]
			A [mm] B [mm]				C [mm] D [mm]	[NL] [bar]
HM820-867-290922-M		○	10 20	134 - 35	120 - 180	80/3 - 15/3	335 125	1,2 6
HM820-868-290922-M		○	10 20	134 - 35	120 - 180	80/3 - 15/3	335 297	1,2 6
HM820-D867-290922	●		10 20	134 - 35	120 - 180	80/3 - 15/3	350 128	1,2 6
HM820-D868-290922	●		10 20	134 - 35	120 - 180	80/3 - 15/3	350 297	1,2 6

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