

HIKARI® Innovative Lockstitch Machines

Feel the innovation and efficiency

H9180N-7C-5/AK

Premium Innovative Lockstitch Machine

The HIKARI innovative single needle lockstitch machine is optimized for the European requirements: small and middle sized orders, hard to sew fabrics, and high quality production.



OUTSTANDING TECHNOLOGICAL FLEXIBILITY WHAT MAKES HIKARI INNOVATIVE
LOCKSTITCH MACHINE UNIQUE IN THE MARKET

The H9180N offers unique technological flexibility, that means only one machine can sew hard to sew, light-, medium- and heavy weight materials in the production:

- * Thread can be used in the range of Nm 150 to Nm 20
- * Needles can be used in the range of Nm 55 to Nm 140
- * Stitch length can be set up to 7 mm without structural modification



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HIKARI'S PATENTED CLIP DEVICE TO AVOID BIRDNEST AND THREADING



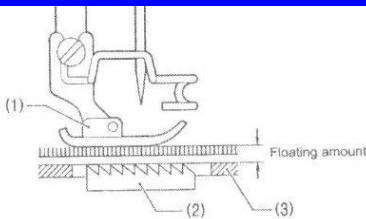
Conventional type wiper

Clip Device - which is a new generation of thread wiper, to avoid the bird-nest during backstitching, and threading



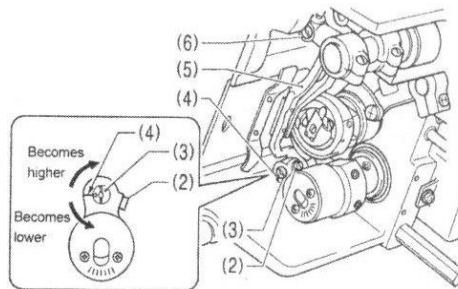
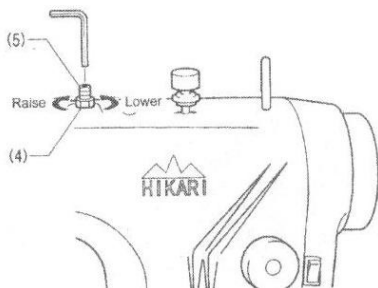
Instead of the conventional type of thread wiper HIKARI redesigned the clip device, which does not leave thread tail during backstitch, and the threading can be avoided completely. Besides this, it is possible to use it during sewing with special coarse presser feet like compensating- and zipper feet (In case if the operators wants to use the above mentioned presser feet, they have to switch of the conventional wiper, because it can not work with coarser presser feet.) With the clip device the operator can use the backstitching all the time, threading does not needed neither and this means 5- 8% of efficiency increase.

MICRO LIFT FUNCTION TO LIFT THE PRESSER FOOT FROM THE NEEDLE PLATE



Easy to adjust, micro lift function to lift the presser foot from 0,1 to 6 mm to the needle plate. These properties together, with the stitch length, and the flexible trim gives a unique machine for the production.

ADVANCED PARALELL FEED SYSTEM



Advanced parallel feed system, which provides close to rectangular like feed dog actuation, This device gives higher flexibility to adjust the machine for hard to sew materials.

THE HIKARI DIRECT DRIVE MOTOR WITH BUILT-IN CONTROL BOX WILL NEVER OVERHEAT DUE TO EXTREME THERMAL CONDITIONS, BECAUSE OF THE BUILT - IN TURBINE COOLER



H9180N-7C has a turbine installed behind the 550W motor in the machine which has the biggest torque in the market. The turbine is working together with the motor, and the stream generated and circulated by the turbine, cools the complete cabinet, and the built in electronic devices as well, to prevent the overheat of the electronics. HIKARI manufactures direct drive systems since 2006, so they have the greatest experience in this field.



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The power saving technology of HIKARI

In the last few years, there was an exponential growth at the area of industrial sewing machines compared to the past 20 years.

In 2006 HIKARI made it's first direct drive single needle lockstitch machine the H8800A. Today the 4th generation the H8800D is on sale, with built in the head control box.

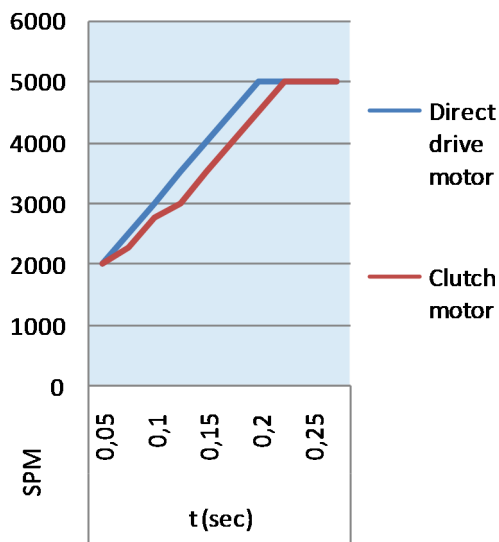
In 2007, the world first direct drive overlock had been released, and now the 3rd generation is on sale, which is the HX6800TA

HIKARI ® is the leading sewing machine manufacturer in the field of innovation with a biggest experience in direct drive technology, which makes bigger profit in your production site.

The Engineers of HIKARI developed their patented ideas in co-operation with one of the Universities in Shanghai.

PRODUCTIVITY GROWTH

Acceleration of motors



The direct drive sewing machines does not have transmission loss like the clutch motor machines. (The belt-drive sewing machine with servo motor has the same transmission loss as well. The increase of the production is about 14,6%. The belt-drive sewing machine sews 1000 meters. Under the same circumstances, the direct-drive sewing machine sews 1146 meters- in every shift.

With one investment, from the beginning, the direct drive motor equipped sewing machines produces extra profit!

REDUCED NEED FOR MAINTANANCE

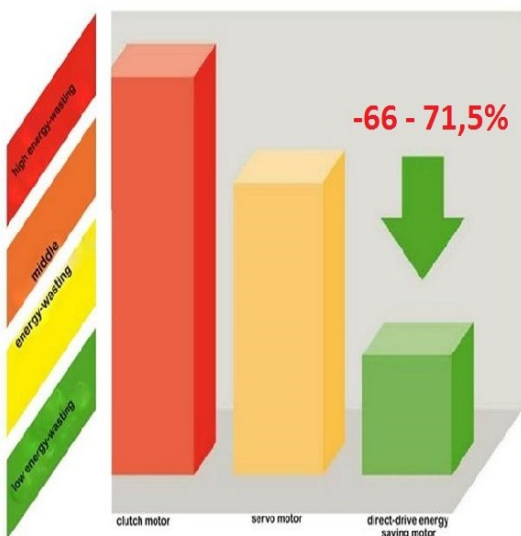
The direct drive motors does not require any maintenance. In Europe it's one of the major priorities, because savings on the operation and the maintenance costs gives higher extra profit, or free sources to distribute on the market.

REDUCED ENERGY CONSUMPTION

Compared to the clutch motors the direct-drive sewing machines saves up to 66 - 71,5% on electricity bills in every shift depending on the application.

REDUCED NOISE LEVEL

The main purpose is to improve the working conditions of the operators, to obtain a win-win situation. If the sewing machine "loads" less on the operator, they are more relaxed in the last 2-3 working hours, so the productivity's will not decrease as much as with a louder machine, and the produced waste will be less as well.



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BUILT - IN THE HEAD LED LIGHT FOR MORE PRECISE WORK AND BETTER ERGONOMY



The LED light is built together with the reverse switch. It is integrated to the machine head for better clearance of the movements of the operator. The LED unit is equipped with 14 LEDs, and it is adjustable in 5 levels to work easier with reflective materials.

BUILT - IN THE HEAD CONTROL BOX WITH INTERNAL TURBINE COOLER



The state of the development and the commitment of HIKARI can be seen here: currently on the world the HIKARI H9180N, the H8800D and the JUKI DDL8700A machines has built-in the head control box. In the next years the other manufacturers will follow us, because this construction offers less malfunction and lower maintenance time and cost for the users.

| MODEL | H9180N-7C-5/AK | H9180SH-7C-5/AK |
|------------------------------------|--|--|
| Application | Light and difficult to sew - medium - heavy weight materials | Medium - heavy weight materials |
| Max. sewing speed | 5000 | 4000 |
| Max. stitch length | 5 mm (can be adjusted up to 7 mm stitch length) | 6,2 mm (can be adjusted up to 7 mm stitch length) |
| Needle bar stroke | 31 | 35 |
| Needle type | DPX1 #6-22 | DPX5 #6-22 |
| Presser foot height | 5,5 -13 mm | |
| Micro lift height | 0,1 - 6 mm | |
| Lubrication | Semi dry head | Semi dry head |
| Rotary Hook | Normal hook (Koban, Made in Japan) | Normal hook (Koban, Made in Japan) |
| Width x height of the working area | 297 *139 mm | |
| Trimmer and wiper device | Automated round knife, clip device | |
| Foot lift | Automated | |
| Machine head driving system | Fully computerized direct drive motor with built-in controller | |
| Light | 14 LED built-in the head adjustable unit | |
| Power supply | Single phase 220V,550W | |
| Lubricant | Rotary hook | High Speed spindle oil |
| | Needle bar | HIKARI special grease |

