

**CHOOSING THE METHOD OF RECEIVING THE WORK PART AND TECHNICAL-
ECONOMIC JUSTIFICATION**

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Annotatsiya: *Dasturlashtiriladigan tikuv va elektron boshqaruvga ega bitta ignali avtomatik tikuv mashinasi. Ilova: Emblemlar, logotiplar, dekorativ elementlar, to'qimachilik mahkamlagichlarini (Velcro) moslashtirish, turli xil materiallardan tayyorlangan mahsulotlarda dasturlashtiriladigan kontur (tikuv maydoni X: 220 x Y: 100 mm) bo'ylab jingalak mahkamlashni amalga oshirish*

Kalit So'Zlar: *Igna turi, Tavsiya etilgan ignalar, Ignalilar soni, Kashta tikish maydoni, Oyoqni ko'tarish balandligi, Tikuv tezligi, O'lchamlari, yalpi og'irlik, An'anaviy tikuv mashinasi.*

Аннотация: *Одноигольная автоматическая швейная машина с программируемым стежком и электронным управлением. Применение: Адаптация эмблем, логотипов, декоративных элементов, текстильных застежек (липучек), изготовление фигурной застежки по программируемому контуру (зона шитья X: 220 x H: 100 мм) на изделиях из различных материалов*

Ключевые Слова: *Тип иглы, Рекомендуемые иглы, Количество игл, Область вышивки, Высота подъема лапки, Скорость шитья, Размеры, Вес брутто, Обычная швейная машина*

Annotation: *Single needle automatic sewing machine with programmable stitch and electronic control. Application: Adaptation of emblems, logos, decorative elements, textile fasteners (Velcro), making curly fastening along the programmable contour (sewing area X: 220 x H: 100 mm) on products made of different materials*

Key Words: *Needle Type, Recommended Needles, Number of Needles, Embroidery Area, Foot Lift Height, Sewing Speed, Dimensions, Gross Weight, Conventional Sewing Machine*

RESULTS: *Single needle automatic sewing machine with programmable stitch and electronic control. Application: Adaptation of emblems, logos, decorative elements, textile fasteners (Velcro), implementation of curl fastening along the programmable contour (sewing area X: 220 x H: 100 mm) on products made of different materials Advantages: Fully operational system Ability to load sewing parameters from external environment without the need to restart the machine Large LCD display for easy operation Automatic*

thread cutting and presser bar lifting Energy-saving servo motor ensures low vibration and noise level.



Technical characteristics

Needle type DPx17 DPx5

Recommended needles Groz-Beckert (Germany)

The number of needles is 1

The embroidery area is 220x100 mm

The height of the leg lift is 22 mm

Sewing speed 2700 m/min

The dimensions are 120*80*125

Net / gross weight 119/139 kg

It can perform tasks that a traditional sewing machine cannot. A computer-controlled sewing machine has more functions. Auto cut, auto dial, auto count, etc. A sophisticated computer-controlled sewing machine can change according to the conditions in this sewing process. It has a high degree of automation and can significantly reduce the work of workers. People began to understand the computer-controlled sewing machine more deeply. Its functions such as needle threading, thread gathering, thread binding and feeding still use the original mechanical mechanism, and the control element uses an electronic or micro-computer system. A common difference between electronic and micro-computer systems is that control systems with programming and CPU are known as micro-computer control or computer control systems. The composition of the electronic control system. The control system is the main part of the sewing machine with an electrically controlled device. It usually consists of a control body, a control object and sensitive parts, including a control box (controller, driver), a motor and an electromagnet, a sensor, and some auxiliary parts. The cooperation and communication between these parts and the computer controlled parts of the sewing machine helped the sewing machine to operate automatically. This can increase the automation capabilities of machines. The control part of the electronic control system mainly controls the motor and solenoid control.

Look at the controller first. His job is to operate the sewing machine to perform various stitches. Its function varies depending on the type of sewing machine. It can be divided into two categories: one is a single motor, which is to control the movement of the

main drive motor, and the other is to perform other auxiliary functions with the help of electromagnets, such as thread cutting and loosening. The relevant sewing machine includes single needle, double needle flat sewing machine, sewing machine and bandage machine; the second is to control the coordination of several motors. Adjust movement such as nail machine, keyhole machine, embroidery machine, also bending sewing machine to control needle thread twist. The driver is the core of the electronic control system. Its hardware consists of electrical electronic devices and embedded microcircuits. It converts the control signal into the driving signal of the actuator and acts as a bridge. The main function of the driver is to receive the signal from the main control box, then process the signal and transfer it to the motor and the motor-related inductor, and return the motor to the main control box. The driver software depends on the different motors. It is similar to the controller, the drive hardware is portable, and different types of motors with the same power can be used simultaneously.

DISCUSSION: Characteristics of the motor in the electronic control system. A servo motor is a motor that controls the operation of mechanical parts in a servo system. This auxiliary tool is an indirect transmission device. Can accurately control speed, position and accuracy. Modern high-tech equipment that allows automation of sewing work and



minimization of the human factor. Field of application. Footwear: Dress and walking shoes, cowboy boots, sports shoes, work and military shoes. Automobile: Air bags, belts, interior parts. Leather goods: Belts, wallets, , wallets, pockets Technical textiles: Protective clothing, protective parts, awnings, filters. A modern automatic sewing machine with software control is an effective equipment for

sewing leather shoes, clothes and leather goods. The Gramos company sells high-quality sewing machines with microprocessors from the best manufacturers in the Czech Republic, Germany, Taiwan and China on the Russian market.

CONCLUSION: If you decide to order a sewing machine with program control, you need to decide on the model. Each such machine is a special computer with a processor and a convenient monitor. The number of functions amazes even experienced professionals, and in some models, the choice of stitches can exceed a hundred.

An electronic machine is capable of:

- give advice on which stitch to choose for a certain skin type;
- independent determination of the punching power depending on the density of the proposed material;

• indicates that an error has occurred.

equipment has the following advantages:

- diversity and accuracy of stitches;

- the ability to perform the most complex tasks;
- minimum number of errors;
- the highest ergonomics and performance.
- Universal automatic machine for sanding shoe blanks and other similar products in cassettes.



- Basic equipment:
 - Automatic cassette changer
 - Special PFAFF sewing head with vertical hook and folding arm for automatic machines. Pass under the head 90
 - BDF-P1 interactive touch display for machine control, program entry and configuration using an SD card reader.
 - Ability to save up to 10,000 programs or up to 5,000,000 stitches.



Computer sewing machine CHAYKA NEW WAVE 977

CHAYKA NEW WAVE 977 computer sewing machine is suitable for home use and sewing products from silk to thick fabrics, as well as creative activities, sewing gifts with your own hands, the subtleties of quilting, patchwork, etc. intended. It has 100 sewing operations: overlock, decorative, knitting, blind stitches, as well as 7 types of buttonholes in automatic mode. Using the reverse button, you can lay and paste at the end of the line. The machine is very easy to use: there are buttons on the body of the machine, with which you can easily select the desired stitch and, if necessary, change the parameters of the stitch length and width. Zigzag width and stitch length are conveniently adjusted using buttons on the front. Built-in needle threader, built-in thread cutter, reverse button, bottom feed button, auxiliary presser foot lift, automatic needle shut-off when winding the bobbin, blank sleeve, easy-to-attach pressure legs - all this allows you. develop sewing skills by mastering the technique easily. Very detailed instructions

describing the operation of the machine and useful and interesting sewing tips. This model has a large selection of feet: for sewing zippers, for blind and satin seams, for automatic buttonholes. Controlling such a machine can be done not only by an experienced seamstress, but also by an inexperienced user. Professionals and lovers of comfortable sewing will appreciate this model with a horizontal hook and wide functionality

100 sewing operations:

working stitches overlock stitches pattern stitches decorative stitches

automatic rotation - 7 types

Stitch length adjustment from 0 to 4.5 mm

Zigzag width adjustment from 0 to 7 mm

Horizontal vehicle

Backlit LCD display

Direct stitch selection

Back button

Tailor balance dial

Attaching the leg is easy

Additional pressure leg raises

Thread cutter Built-in needle threader

Automatic deactivation of the bottom feed when winding the bobbin Bottom feed button Empty sleeve Compartment for storing accessories Universal foot TL Sewing foot I Automatic buttonhole foot D Blind stitch foot F Satin stitch foot Bobbins (3 pieces) Large bobbin holder Small bobbin holder consists of extra bobbin screw. Sewing Brush Dusting Brush Needle Set Instructions are provided below.

Characteristics.Management computer,type rotating horizontal,The number of sewing, operations 100, Power consumption 51 W.

Characteristics.soft cover, work with delicate fabrics make a loop car,Additional sewing operations overlock stitch, blind stitch, elastic blind stitch, elastic stitch.

The maximum stitch length is 4.5 mm

The maximum seam width is 7 mm

Claws are included

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