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THE KHAREL EDUCATION SOCIETY

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CHAPTER - 3

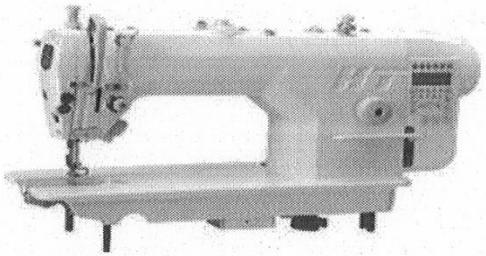
DIFFERENT TYPES OF SEWING MACHINES

- The Trainer will show a PPT on the different types of Sewing Machines by pointing out its different parts. The Trainees will see the entire PPT and can ask quest ions if any.

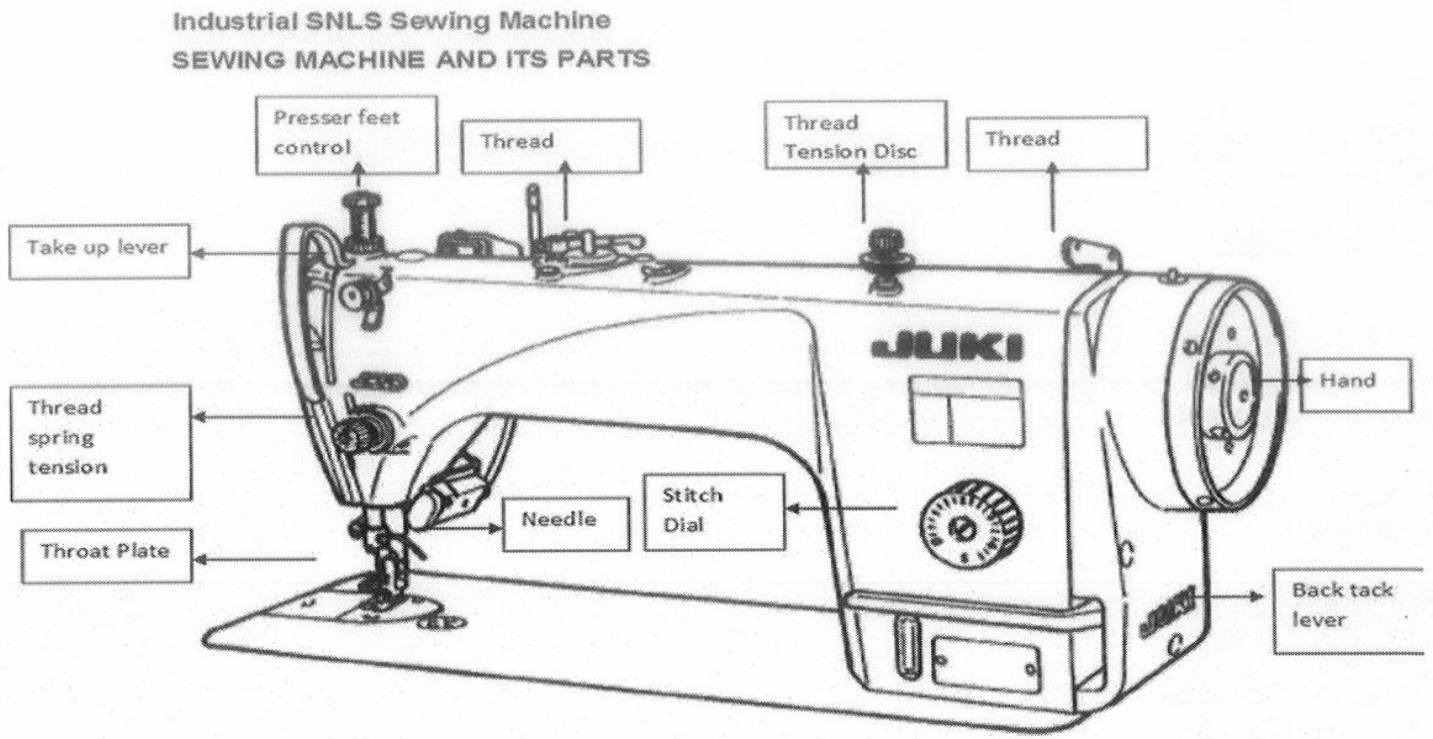
3.1 Different Types of Sewing Machines with Technical Details

A. Single Needle Lock Stitch Machine (SNLS)

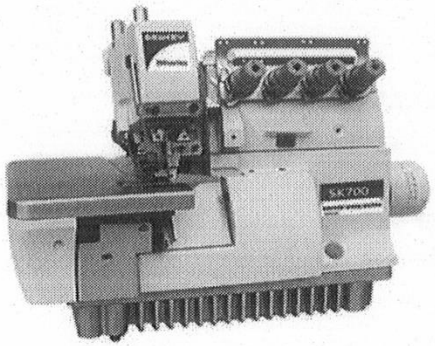
The Single Needle Lock Stitch Machine is the most popular and versatile sewing machine in the industry. The Lockstitch sewing machine forms precise and secured straight stitches on the top and the underside of the fabric.



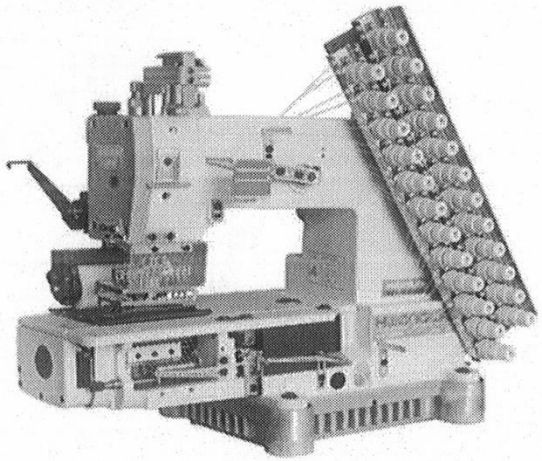
A.1. Parts of a Single Needle Lockstitch Machine



B. Over-lock Machine

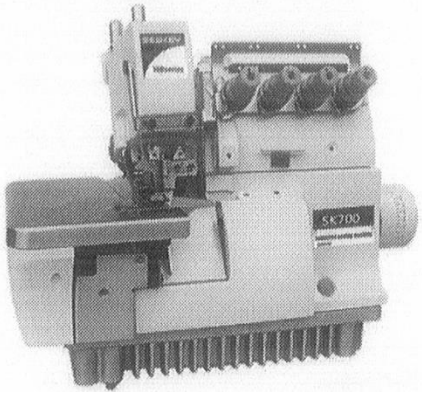


An Over-lock/ Over-edge machine is a high speed sewing machine. This machine is popular for stitching Over-edge stiches at a high speed. Over-lock machines are available in the following specifications.



- 2T Over-lock machine.
- 3T Over-lock Machine.
- 4T Over-lock Machine.
- 5T Over-lock Machine.
- 6T Over-lock Machine.

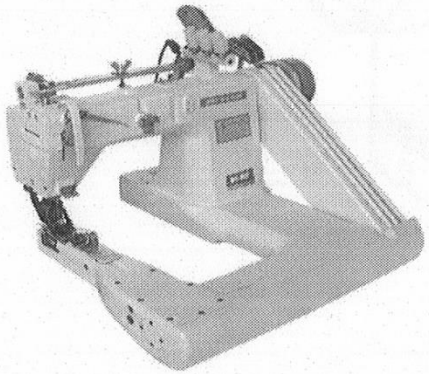
C. Flat lock Machine



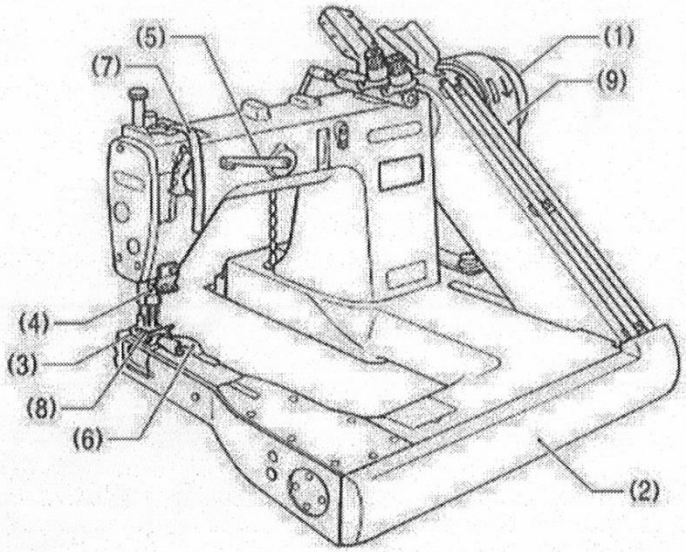
- Flat lock Machines are specialized high speed machines.
- In this machine, the stitch is formed by two or more needle threads passing through the material, inter looping on the underside and interlocking on the upper side.
- These machines are mainly used for Knitting.

D. Feed of the Arm Machine

Arm Machine is largely used for attaching sleeves and making complex circular stitches while attaching different parts of the garment.



D.1. Parts of a Feed of the Arm Machine

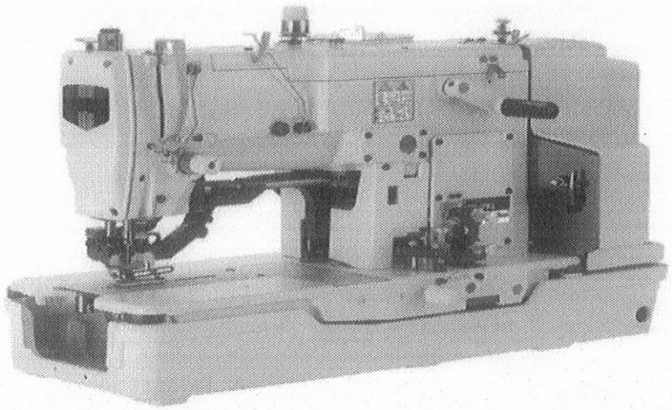


PARTS NAME –

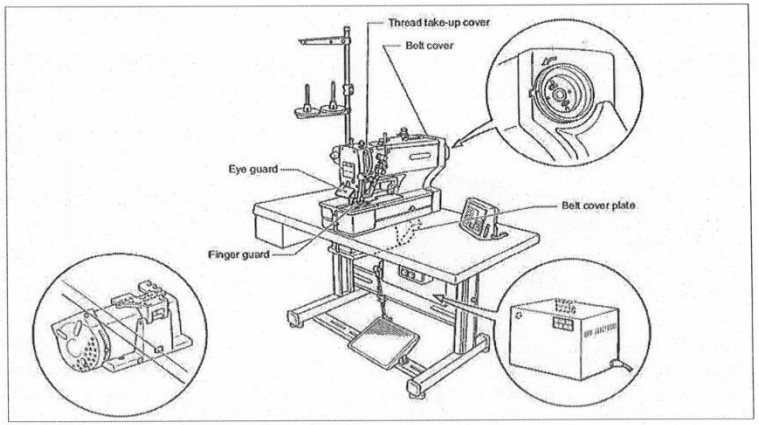
1. Machine pulley
2 Front cover
3Presser foot
4. Needle bar
5.Upper thread guide
6. Lapper

E. Button Hole Machine

Button Hole Machine is used for sewing buttons in the garment.

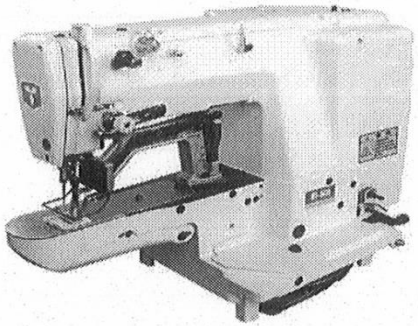


E.1. Parts of a Buttonhole Machine

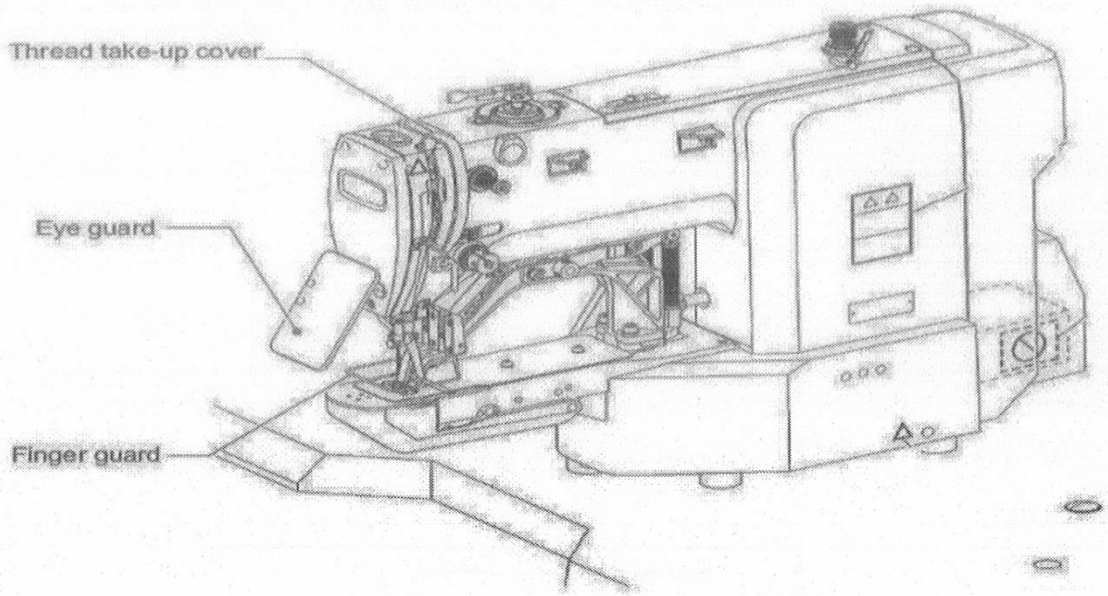


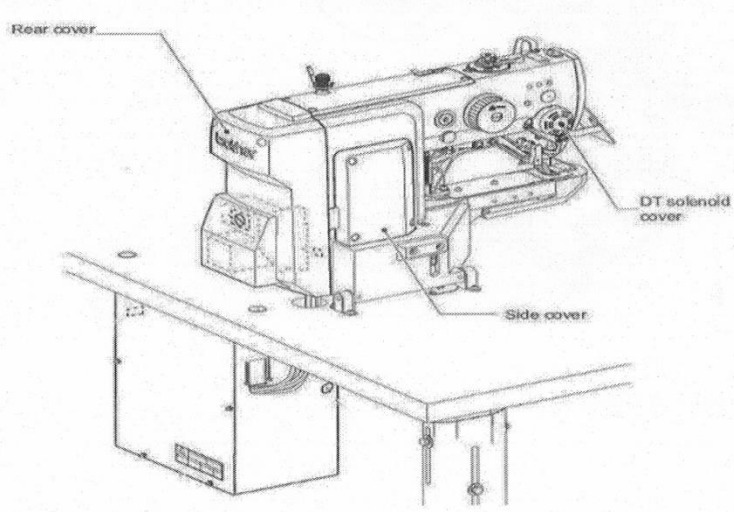
F. Bartack Machine

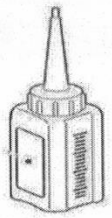
Bartack machine is used for giving secure Bartack stitches.



F.1. Parts of a Bartack machine





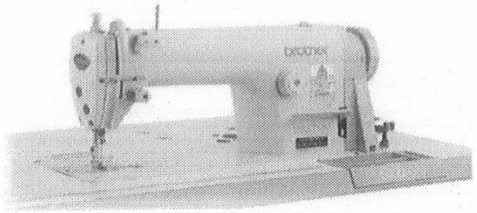
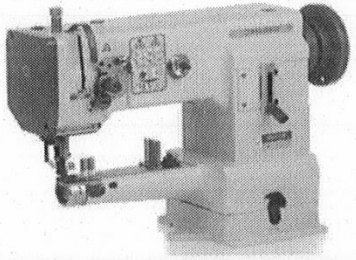
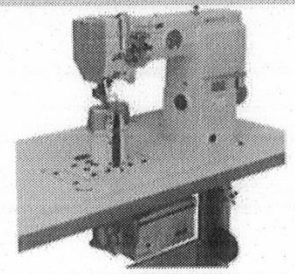

Oil tank

DO YOU KNOW?

The sewing machine was invented in 1790 by Thomas Saint.

3.2 Types of Industrial Sewing Machine Beds

Industrial sewing machines can also be categorized based on the design of the arm and needle post. These four types are:

Industrial Sewing Machine Beds	
Flatbed: Flatbed sewing machine is the most common type of industrial sewing machine used in factories. It is typically used to sew flat pieces of fabrics together.	FLAT BED 
Cylinder-bed: The base of Cylinder-bed machines is a narrow, horizontal column instead of a flat base. The fabric can pass around and under the column. The diameter of the cylinder-bed varies from 5 cm to 16 cm.	CYLINDER BED 
Post-bed: The distinguishing feature of these machines is a column that rises above the flat base. The bobbins, feed dogs and/or loppers are installed in that raised column. The height of this column ranges from 10 cm to 45 cm.	POST BED 

Off-the-arm: This is the most uncommon type of sewing used in factories. These machines require the material to be fed along the axis of a horizontal column. The design limits the length of the seam sewn to the length of the column.