

Sewing Machine Parts: Name, Functions, Sourcing, and Maintenance

What is a Sewing Machine? A sewing machine is a unique designed machine which is used for stitching different parts of fabric together to make garments products. Sewing machines are used in both lather and apparel industry. The main functions of sewing machine are sewing fabric or any other parts of materials. Earlier people used to sew by hand but after the industrial revolution mechanical machine was created which is a handheld sewing machine. Because of continuous development now we have automated sewing machine available for home use, commercial use and industrial use. Although basic sewing functions remain the same, the pattern of stitches are different and improved one. By using the modern sewing machine, you can put different types of the stitch as required. For a good finished product, you need to buy a good quality sewing machine, either you can buy manual or automated. For personal use, you can buy a handheld sewing machine. Now with a modern machine, you can not only sew your cloth but also can do embroidery. A good quality thread is required for getting better finishing and sewing strength. Here I will discuss all the different parts of a sewing machine both for traditional and modern, manual and automatic [sewing machine](#) and also Sewing Machine Parts: Name, Functions, Sourcing, and Maintenance at a glance.

Sewing Machine Parts



You may think about what brand you should choose among available sewing machine brands. My suggestion for you first determines for what purpose you are going to purchase the sewing machine. There are many popular sewing machine brand available out there. Brother, [Juki](#), [Singer](#), and Janome are the most widely used brands. If it is for home, use purpose then singer machine you can purchase. You may find, for industrial garments production Juki, Brother these two brands are highly used.

To get long-term service from a sewing machine, you have to take care of it. Regular maintenance and cleaning are necessary. You also need to put lubricants or oil into the required parts. Sewing Machine Parts can be imported from China or buy from the local market. Needle, bobbin, bobbin case, oil, and lubricants are commonly used parts and maintenance materials.

All Parts of Traditional and Modern Sewing Machine



Balance Wheel



Bobbin Winder Spool Pin



Bobbin Winder Thread Tension



Needle Bar Thread Guide



Presser Foot Thumb Screw



Bobbin Winder Thread Guide



Feed Dog



Needle Bar Bushing



Needle Clamp Thumb Screw



Presser Foot



Bobbin



Needle of Sewing Machine



Presser Bar Lifter



Stitch Indicator Plate



Face Plate Thumb Screw



Pressure Regulating Thumb Screw



Spool Pin



Tension Discs



Tension Spring



Needle Clamp



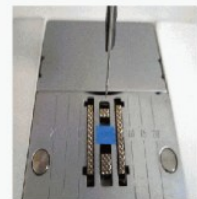
Thread Guide



Thread Take Up Lever



Thread Take up Spring



Throat Plate

Name of Different Parts of a Sewing Machine

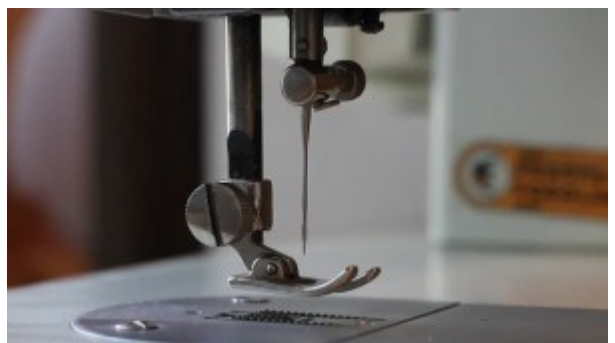
1. Balance Wheel
2. Bobbin Winder
3. Face Plate Thumb Screw
4. Feed Dog
5. Needle Bar Bushing
6. Needle Bar Thread Guide
7. Needle Clamp Thumb Screw
8. Needle Clamp
9. Needle
10. Presser Bar Lifter
11. Presser Foot Thumb Screw
12. Presser Foot
13. Pressure Regulating Thumb Screw
14. Spoon Pin
15. Tension Discs
16. Tension Spring
17. Thread Guide
18. Thread Take Up Lever
19. Thread Take Up Spring
20. Throat Plate
21. Stitch Indicator Plate
22. Stitch Regulator
23. Stitch Regulator Thumb Screw
24. Bobbin Winder Thread Tension
25. Bobbin Winder Spool Pin
26. Needle Plate
27. Bobbin Case
28. Bobbin

Balance Wheel of Sewing Machine

In a traditional handheld sewing machine and a semi-auto sewing machine, you can see that there is a wheel on the top right corner of a sewing machine. Basically, it is used to run the machine manually.

The needle of Sewing Machine

A needle is a sharp metal, very sharp in nature which has a small hole (eye) in which a thread go through. Basically, a needle is used for sewing. In a sewing machine, a needle is attached. In a needle, you may find 5 parts. They are a shank, Shaft, Front Groove, Point Scarf, and eye. For woven fabric and denim, lather, knit fabric, different types of Needle are used. Needle made of steel coated with chrome or titanium.



Different Size of Sewing Machine Needle

According to the purpose, Different sizes of a needle are used for different types of fabric

Different Size of Needle for Different Types of Fabric			
USA	EU	Weight of Fabric	Types of Fabric
8	60	Very Fine	Fine Silk, Chiffon, Organza, Voile, Fine Lace
9	65		
10	70		
11	75	Light Weight	Cotton Voile, Silk, Synthetics, Spandex and Lycra
12	80		
14	90	Medium Weight	Quilting Fabrics, Cotton, Velvet, Fine Corduroy, Linen, Muslin, Jersey, Wool, Sweatshirt knit
16	100	Heavy Weight	Denim, Suiting, Leather
18	110	Very Heavy Weight	Heavy Denim, Heavy Canvas, Upholstery Fabric
20	120	Extra Heavy Weight	Extra Heavy Fabric

Sourcing of Sewing Machine Parts: Needles

sewing machine needle is mainly sourced from China because of a cheap price. So can also source it locally if the order quantity is less.

Spool Pin of Sewing Machine

Spool pin in a sewing machine is placed vertically or horizontally which actually used for holding the spool of threads. This is a fixed part of a sewing machine.

The Bobbin of Sewing Machine

In a sewing machine bobbin is one of an integral part and it is non-electrical parts of a sewing machine. Bobbins can be found in different electric devices. In a bobbin, threads are wired which is used for sewing. You need to set the required thread into a bobbin. After finishing you have to refill the bobbin to continue sewing.

Sourcing of Sewing Machine Parts: Bobbin

There are many popular brands of bobbin manufacturer, you can collect bobbin from them. You can source either by importing or if locally available then purchase it locally because it will be cheaper. Different manufacturers of sewing machine bobbins are:

- Brother
- Juki
- Janome
- Singer

- Bobby Lock
- Bernina
- Consew
- Elena
- Kenmore
- Riccar
- Handi Quilter

Bobbin Holder of Sewing Machine

Bobbin holder is used to holding the bobbin into the sewing machine. Bobbin holder also is known as bobbin case which is one of the key sewing machine parts. Time to time you may need to conduct cleaning and maintenance or change of bobbin case. It is one of the commonly used spare parts of a sewing machine.

Presser Foot of Sewing Machine

A [presser foot](#) using in a sewing machine to hold the fabric in the right place on the throat plate so that fabric cannot slip around. You may need to change your sewing machine pressure foot if you use your machine for commercial production.

Tension Discs and Tension Spring

The tension discs used to control the thread tension to give proper stitch on the fabric. If there is a problem of tension then you may see that stitch is not placing properly, it may loose or tight. Tension spring is added to control the pressure so that two different fabric can join together with proper stitch. Tension discs and spring may need to change if it is damaged. You can purchase it locally or source it from China if you need a large quantity.

Remember that you have to clean dust time to time from the tension discs otherwise your may find improper stitch.

Face Plate Thumb Screw

Faceplate thumb screw is used for attaching the face plate of a sewing machine. You may find it a traditional sewing machine. Normally, this part is not required to replace.

Thread Guide

Thread guide is a small part of a sewing machine which has a hole inside, is responsible to properly guide the threads from spool pin to the hole of a needle. Thread guide is made of steel or metal.

Throat Plate

Throat plate is placed between pressure foot and bobbin case. This plate also is known as needle plate. It is made of metal. At the time of sewing, pressure foot is placed on top of the throat plate.

Stitch Indicator Plate

Stitch Indicator plate indicates the stitching type where different stitching number is written. This plate is a fixed part of a sewing machine which is not required to change but you should clean the surface of the plate so that written number is visible.

Stitch Regulator

By using a stitch regulator you can regulate the type of stitch on the fabric. In accordance with your requirement, you can switch into a different stitch.

Bobbin Winder

Bobbin winder basically ensure the right direction of the threads from the spool to the bobbin. This is a mechanical process which is done automatically inside the sewing machine.

Feed Dog

Feed dog helps to feed the fabric to the required direction, either backward or forward using its teeth. Feed dog is made of metal. Normally it is not a visible part of a sewing machine. But if you look closely into the needle plate then you can see. If feed dog is damaged then you must need to change it.

Maintenance of Sewing Machine

Finally, a sewing machine should be properly maintained to get long lasting service. If you do not clean and add lubricant properly then you may find a technical problem or not functioning properly. Different [defects](#) you may identify. How you can ensure proper [maintenance](#)?

- First, read the manual provided with the sewing machine and follow the guidelines for setting the machine and starting sewing.
- Please clean after using if there is any dust.
- Do not give extra pressure if a thread is stuck in the bobbin case
- Use good quality accessories
- Regularly put good quality lubricants to the right place.

Written by

[Md. Nahian Mahmud Shaikat](#)

<http://ordnur.com>