



TRINITY COLLEGE FOR WOMEN NAMAKKAL

DEPARTMENT OF COSTUME DESIGN & FASHION

**SEWING TECHNOLOGY
EVEN SEMESTER**

Presented by

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SEWING TECHNOLOGY



INTRODUCTION

- Over lock machine is a special purpose machine used for finishing edges and sometimes for seaming. It falls under the class 500.
- Stitch types in this class are formed with one or more groups of threads and have a general characteristics that loops from at least one group of threads pass around the edge of the material.

BASIC FEATURES

- Makes a class 500 that trims, stitch and overcast seams as they sew.
- Up to 5000 stitches per minute.
- Stitch length vary from 0-5mm.
- Used to sew wide variety of items- from placemats to draperies and even sportswear.
- Stitch is very elastic and can stretch up to 300%.

- Stitch can be made using 1,2,3,4, or 5 threads, depending on the no. of needles and looper.
- Seams sewn with a combination of conventional and over lock stitching can be used in a variety of fabrics and garment styles.

Overlock machine

Types of stitch	Lock Stitch
Machine speed	2500[s.p.m]
Type of motor used	Induction motor
Type of lubrication	Automatic
Oil used	G2
Type of feed	Deferential feed
Type of needle	DP*5
Type of bed	Cylindrical Bed
Purpose of Machine	Loops Attaching
Power consumption	3/4HP

Overlock Machines



STITCH TYPES PRODUCED BY OVERLOCK MACHINE.

- Stitch Type 501 [1 thread overedge]
- Stitch Type 503 [2 thread overedge]
- Stitch Type 504 [3 thread overedge]
- Stitch Type 514 [4 thread overedge]
- Stitch Type 516 [5 thread overedge]

Overlock machine feeding system

- **Differential drop feed:**

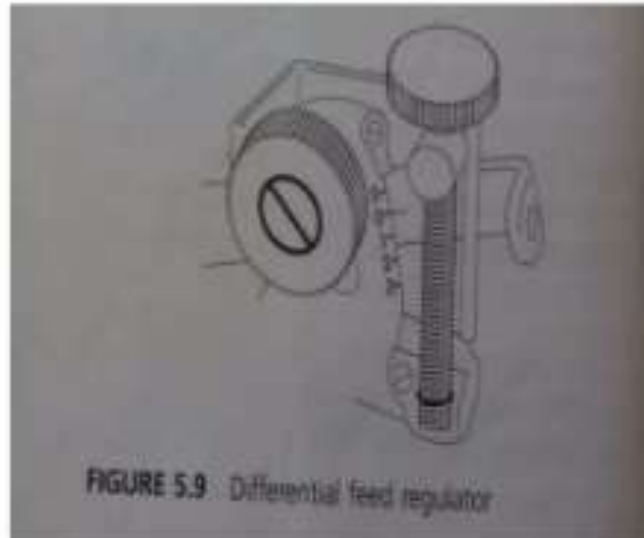
It utilizes two independently driven feed dogs. The stroke of each feed dog can be adjusted separately.

If the stroke of the front feed dog is greater, then the fabric may be gather as it is sewn.



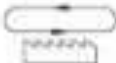
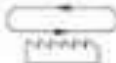
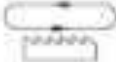
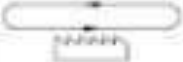
If the rear feed dog has the greater stroke, then the fabric may be stretched to provide a more extensible seam.

Differential feed regulator

- The differential feed is regulated by the differential feed regulator, which adjust the rate at which the material is fed under the foot.
- It is used to prevent the fluting or wavy seams on stretch material.



Ratio Of Differential feed

Feed ratio	Main feed (rear)	Differential feed (front)	Effect	Application
0.7 ~ 1.0			Material is pulled tight.	Prevents thin materials from puckering.
1.0			Without differential feed.	Normal sewing feed.
1.0 ~ 2.0			Material is gathered or pushed together.	Prevents stretch materials from stretching or puckering.

THREADING



THANK YOU

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