



Daffodil
International
University

Assignment

Course Title: Fabric Manufacturing II

Course Code: TE-313

- Topic: 1. Difference between tricot and rachel warp knitting machine
2. Difference between flat bed and circular knitting machine

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1. Difference between tricot and rachel warp knitting machine

Tricot warp knitting machine	Raschel warp knitting machine
1 . In the past, bearded needle was used but now a days compound needle used	1. Rachel m/c used latch needle together with a wire or blade
2. M/C gauge expressed in needle per inch	2. M/C gauge expressed in needle/inch
3. Chain link numbering 0, 1, 2, 3,etc	3. Chain link numbered in even numbers 0, 2, 4,etc
4. Three links per course	4. 2 links per course
5. Function of sinker is holding down, knocking and supporting the fabric	5. Sinker performs the function of holding down the loops whilst the needle rise
6. The sinker are joined to each other at the front and back	6. The sinker are not joined together by a lead across their ends nearest to the needle bar
7. The sinker never move clear of needles	7. They can move clear of the needles towards the back of the m/c for the rest of the knitting cycle

8. The fabric is drawn away towards the batching roller almost at right angles to the needle bar	8. The fabric is drawn downwards from the needles almost parallel to the bar at an angle of 120°-160°
9. The warp beams are accommodated in an inclined arc towards the back of the m/c there the top	9. The warp beams are arranged above the needle bar centered over the rocker shaft
10. The warp sheets pass over the top of the guide bar rocker shaft to their tension	10. The warp sheets pass down the guide bar
11. Mechanical attention is carried out at the front of the m/c	11. Mechanical attention is carried out at the back of the m/c
12. The guide bars are numbered from the back towards the front of the m/c	12. The guide bars are numbered from front of the m/c
13. High speed production	13. Low speed production

2. Difference between flat bed and circular knitting machine

Flat bed knitting machine	Circular knitting machine
01.Flat knit is made with a machine that knits the fabric in sheet on flat	01. Circular is made with a machine that knits the fabric in a continuous
02. The operation and supervision of the machine is simple	02. The operation and supervision of the machine is hard
03. In flat knitting machine needles are fixed on a straight plate	03.In circular knit machine needle are fixed on a cylinder on dial in a circular shape
04 flat Knit Machine used latch needle.	04. circular knit machine used bearded needle.
05. Flat Knit fabric has a gauge of 2 to 10.	05. circular Knit fabric has a gauge of 12 to 22.
06. This machine is used Knit ; T-shirt, sock	06. This machine is used to knit arm band and sweaters.
07. Low speed Production	07. High speed Production

