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LET'S LEARN ABOUT THE PARTS TO  
THE SMITH MIDDLE SCHOOL

SEWING MACHINE

THIS PRESENTATION WILL SHOW YOU  
PICTURES OF THE PART AND THE  
NAME OF THE PART, FOLLOWED BY A  
DEFINITION OF THE PART'S  
FUNCTION



SOAS LAW DEPARTMENT MARKING SHEET FOR WRITING ASSIGNMENTS				
NAME: <i>William Jeger</i>		SUBJECT: <i>C.L.T.</i>	ASSIGNMENT NO: <i>2</i>	
Criterion	Pass	Average	Good	Excellent
1. SUBSTANCE				
2. PLANNING & STRUCTURE				
3. ESSAY CONCLUSION				
4. CLARITY OF EXPOSITION & ARGUMENT				
5. LEGIBILITY				
6. ENGLISH GRAMMAR, SYNTAX & SPELLING				
7. CLARIFICATION OF THE TOPIC				

GENERAL COMMENTS:

*Too long, of course. But I enjoyed it so much that I only pointed you a letter for this.*

*This is a distinguished attempt to put modernity together. It's not like how they that you can see in exams.*

GRADE: *(1) 2, 2, 3, FAIL*

LECTURER'S SIGNATURE: *Alhassan* DATE: *16-5-20*

*All grades are provisional; they may be changed for various reasons, e.g. penalties for late submission or changes required by the external examiner.*

Table of Content: SL NO: Title Page no: 1 Introduction 04 2 Two needle lock stitch machine 05 3 Three thread Over lock machine 06 4 Four thread over lock machine 07 5 Eyelet hole lock stitch machine 08 6 Button hole lock stitch machine 09 7 Multi needle multi thread machine 10 8 Three step zig zag machine 11 9 Five thread over lock machine 12 10 Bartack lock stitch machine 13 11 Feed of the arm machine 14 12 One step zig zag machine 15 13 Top and bottom covering machine 16 14 Three needle bottom covering machine 17 15 Three needle top and bottom covering machine 18 2. Specifications: Bartacking is a type of reinforcement stitching that is done using a Bartack machine. The needle is then brought out at C to create an open chain stitch. One Needle 3 Thread Overedge also available in 2 Thread 2. Specifications: A zigzag stitch is variant geometry of the lockstitch. Specifications: In a lock stitch machine there is one needle and two thread. (It's also the most commonly used: take a peek at the clothes you're wearing: chances are you'll find a 4-thread overlock.) Use it on knits or woven, when your fabric needs to be both durable and flexible. SPM: 3000-3200 7. 2. Specifications: The double chain stitch is a variation on the chain stitch, in which two stitches are worked side by side while interlocking with each other. Stitch pitch: 0.5 ~ 2.0mm 5. Number of Needles: 3 2. Stitch/Seam type: 406EFA-1 (inv) 5. Page | 25 Conclusion: To conclude, I feel that the sewing machine is one of the more significant inventions to be made during the years of the Industrial Revolution. Needle no: 2 4. Specifications: Multi thread chain stitch machine is very important in textile. Machine Picture: Sample attachment: Front side: Back side: 9. Pressure: 64 4. Type: Lock stitch 2. high-speed 4. Page | 7 Brand name: Brother Specifications: This machine works in cyclic system i.e. during pressing switch after sewing one complete button hole the machine will stop. Lubricating oil: Auto oil 3. MADE IN JAPAN Machine Picture: Sample attachment: Front side: Back side: 18. Double bobbin 3. LUBRICATION: Automatic Machine Picture: Sample attachment: Front side: Back side: 20. The bobbin thread help the needle to each stitch to sewing on fabric. Sewing Speed max. These machines are built specifically to do long term and professional tasks. Different sizes of needle and thread dresses should be used in this machine depending on the thickness of fabric, for light thickness fabrics needle size should be lower and for heavy thickness fabric, higher needle size should be used. The domestic sewing machine is now something of a novelty, the system has been successfully tried in an industrial setting. Brand name: juki. Since the invention of the first working sewing machine, generally considered to have been the work of Elias Howe, and Englishman Thomas Saint in 1790, the sewing machine has greatly improved the efficiency and productivity of the clothing industry. Machine Picture: Sample attachment: Front side: Back side: 7. Max. Page | 9 Brand name: juki. Stitch Length: Up to 3.2 mm 5. The threads will lock in the edges of the fabric, keeping them in place during washing and wearing. MAX Sewing Speed: 5,500 SMP (Stitches Per Minute) 2. Some machines are designed to make shirts cuffs, and some are designed to put the waistband in jeans. 4mm, 6 stitch/inch). Sewing Thickness: 6-7 Machine Picture: Sample attachment: Front side: Back side: 22. Sewing lab 3. Also, when compared to today's world, the role that the sewing machine plays in the society is vastly different than the role that it played back in the late 1800s. Machine Picture: Sample attachment: Front side: Back side: 11. Page | 23 21.Name: single needle lock stitch machine. the technique is successfully applied to develop intelligent sewing machines and further implemented in textile and garment manufacturing. Sewing Speed: 8600-10000 6. Stitch Width: 3 - 4 mm 3.Name: Four thread overlock machine. No of Threads: 4 4. Industrial sewing machines, by contrast to domestic machines, are larger, faster, and more varied in their size, cost, appearance, and task. Needle Single 3. Thread Stand Build In 3. MAX SPEED: 5,500 RPM 2. The thread clamp mechanism, tension release mechanism and needle thread draw-out mechanism enable the machine to leave thread of a uniform length after thread trimming and prevent slip-off of the needle thread. As the follower moves in and out, the needle bar is moved from side to side. Page | 6 Brand name: juki Specifications: The eyelet buttonhole machine that can do a variation of buttonholes such as open-end buttonhole, button hole with tail, button hole with bartack, rounded button hole and eyelet button hole. By this machine, multi thread chainstitch can be produced on garments. LOOPER STROKE: 21.5mm 8. Page | 1 Introduction: 16 Two needle zig zag machine 19 17 Single needle chain stitch machine (juki) 20 18 Single needle chain stitch machine (Jake) 21 19 Single needle lock stitch machine (Gemys) 22 20 Single needle lock stitch machine (juki) 23 21 Single needle lock stitch machine (jack) 24 22 Single needle lock stitch machine (Gemys) 25 23 Double needle chain stitch machine 26 24 Conclusion 27 3. Page | 15 13.Name: Three needle bottom covering stitch machine. Double needle 2. Stitch Width: 5 mm 6. Needle use: DPX5 3. Page | 14 12.Name: Top and bottom covering chain stitch machine. Needle Gauge: 3 mm 5. Page | 22 20.Name: single needle lock stitch machine. TPH: 6-7 inch 6.Name: Multi thread stitch machine. the inference procedures of fuzzy logic have been implemented in a neural network to allow for optimization of output membership functions and, subsequently, self-learning. Machine Picture: Sample attachment: Front side: Back side: 10. Most suitable for knit and stretch fabrics. Specifications: The top and bottom covering stitch machine is a flatbed, high speed, high performance machine with top and bottom cover stitch from 1 needle to 4 needle to be applied for any type of fabric and operation like plain stitch, covering, attaching elastic lace, taping, attaching pocket facing, shell stitching plus tape binding, and more. STITCH LENGTH: 1 to 4 mm, Adjustable by Dial 3. Brand name: juki 4. Multi thread 4ad chain stitch is classified as class 400 according to British standard 3871. TPI: 15-20 Machine Picture: Sample attachment: Front side: Back side: 14. Number of Threads: 5 3. Stitches per Inch: 8 to 16 4. Sewing Thickness: 6-7 Machine Picture: Sample attachment: Front side: Back side: 21. These industrial sewing machines can perform a large number of tasks in minimum time. The bobbin thread help the needle to each stitch to sewing on fabric 1. Low noise and vibration. stitch length: 2.5mm 4. Stitch length controlled by dial 4. Simply insert the seam allowance into the machine at the 1/8" seam allowance mark on the machine. Page | 11 9.Name: Machine Picture: Sample attachment: Front side: Back side: 8. Automatic machine 6. Looper stroke: 22.6mm 7. zigzag width: 10mm 3. Machine Picture: Sample attachment: Front side: Back side: 6. In button hole m/c there is system to make big or small button hole and also to increase or decrease the stitch density. lock stitch | \ /lak-stich \ Other Words from lockstitch Example Sentences Learn More About lockstitch 1. Specifications: The single needle jack machine is very easy and useful for chain stitch. It's easy to handle and the speed can be controlled by the regulator. Set the width to 5 or 5.5 and the length to about 1.5 for a stitch like mine below. Most suitable for knit and stretch fabrics in order to achieve uniform, flexible and beautiful stitch formations Stitch length can be adjusted by push button easily (max. 1. Stitch Length: 1.2-3.6 mm (up to 4.4mm) 3. Length: 1-1.5 cm 5.5.Name: Buttonhole lock stitch machine. Safety stitch: Condensation Stitch / Reverse Stitching by Lever 5. SAFETY STITCH: Condensation Stitch / Reverse Stitching by Lever 6. Page | 24 22.Name: Double needle chain stitch machine. Number of needles: 2 2. It is generally used in seam and side seam of apparel. of button holes can be sewn in pre-selected distance. Sewing Fabrics: Cotton, Linen, Leather, Denim, Synthetic Machine Picture: Sample attachment: Front side: Back side: 23. Automatic Grade: Semi-Automatic 4. An intelligent manufacturing environment has been put forward in which fabric properties predict the sew skill of any fabric, determine the minimum change of fabric properties required, and control in real time the stitching of a garment by using the feedback closed loop of the Neuro-Fuzzy model. Dimension of bed 178\*570 4. 6,500 rpm 2. This machine can be used for beginner and its speed can be controlled easily by speed regulator. Automatic reverse stitching 5. This technique of twin needle sewing is also popularly known as double needle sewing. Automatic Grade: Semi-Automatic 5. In this system no mark is needed on cloth for button hole. Specifications: The three needle top and bottom covering stitch machine is a flatbed, high speed, high performance machine with top and bottom cover stitch from three needle to be applied for any type of fabric and operation like plain stitch, covering, attaching elastic lace, taping, attaching pocket facing, shell stitching plus tape binding, and more. Two thread system 2. Brand name: juki Machine Picture: Sample attachment: Front side: Back side: 5. When creating a zigzag stitch, the side to side motion of the sewing machine's needle is controlled by a cam. lockstitch sewing machine with needle advance 5. TPH: 6-7 inch 2. 1 parallel stitch or be used for finishing stitches 6. Specifications: The three needle bottom covering stitch machine is a flatbed, high speed, high performance machine with top and bottom cover stitch from three needle to be applied for any type of fabric and operation like plain stitch, covering, attaching elastic lace, taping, attaching pocket facing, shell stitching plus tape binding, and more. Brand name: juki. LOOPER SYSTEM: Inclined Crank 7. SPM: 3000-3600 3. Type: Flat bed. Needle name: EYX128 5. Maximum Stitch length: 0.5-3.8 mm approx. Stress points that require bartacking are the areas of a normal garments where normal wear will cause strain on the seam or fastener. Page | 16 14.Name: 3 needle top and bottom covering chainstitch machine. Sewing Fabrics: Cotton, Linen,



Leather, Denim, Synthetic Machine Picture: Sample attachment: Front side: Back side: 24. 7. Needle Spacing: 56 Machine Picture: Sample attachment: Front side: Back side: 16. Presser Foot Lifting: 6.5mm approx. The machine comes with a thread spreading mechanism and an adjustable needle guard to prevent stitch skipping. Needle 134 SUK (Nm70) 8.Name: Five thread overlock stitch machine. Specifications: For the 3-step zigzag, this is usually done on the actual edge of the seam allowance. This machine is usually used on jackets, trousers and denims. No of Needle: 2 3. Online website THE END Page | 20 18.Name: single needle chain stitch machine. Used in jeans th seam and shirt side seam 7.Name: three step zig zag machines. Specifications: Feed of the arm machine is actually a chain stitch machine for chain stitch designs working with sew and stitch. Maximum Speed: 5000 SPM approx. Because the 4-thread overlock uses a second needle in the stitching process, it's the strongest surging stitch on your machine, and it's the best choice for seaming. Page | 10 Brand name: juki. Page | 21 19.Name: single needle lock stitch machine. They are costlier than domestic sewing machines. In fully automatic button hole m/c more than one i.e. pre-selected no. Foot Lift Height: 5 mm Machine Picture: Sample attachment: Front side: Back side: 15. Group: Lock stitch 2. Group: Chain stitch 3. 5. NEEDLE BAR STROKE: 30mm 5. 2.Name: Three thread over lock machine. Sewing length : 8-50 mm 6. Needle Single 2. As the cam rotates, a fingerlike follower, connected to the needle bar, rides along the cam and tracks its indentations. Speed: 2000 RPM 6. The Bartack sewing machine stitch is a tight zigzag pattern repeated perpendicularly over itself several time to make sewing product stronger and resistance to tear or rips in the seams. 6. Reference: 1. Different in face and back side 4. Sewing Fabrics: Cotton, Linen, Leather, Denim, Synthetic 5. Max zigzag width: 10mm 3. Sewing Fabrics: Cotton, Linen, Leather, Denim, Synthetic Machine Picture: Sample attachment: Front side: Back side: 25. Max Speed: 6,000 RPM 7. Page | 2 A sewing machine is a machine used to sew fabric and other materials together with thread. Class lecture and sheet 2. sewing speed: 5,000 rpm 2. Needle thread in interconnected with looper thread 3. It is a back-and-forth stitch used where a straight stitch will not suffice, such as in reinforcing buttonholes, in stitching stretchable fabrics, and in temporarily joining two work pieces edge-to-edge. It contains looper instead of bobbin. Machine Picture: Sample attachment: Front side: Back side: 13. 1.Name: Two needle lock stitch machine. Capacity: 100-120 buttonholes/hr. Main applications: Ladies wear, Men's wear, casual wear, Jeans. Foot Lift Height: 5 mm Machine Picture: Sample attachment: Front side: Back side: 12. 3. Page | 5 Brand name: juki Specifications: in general, an overlock stitch encloses a seam while using multiple threads to lock each edge (this prevents it from fraying). Page | 18 16.Name: Single needle chain stitch machine. PRESSER FOOTLIFT: 10mm by Knee, 5mm by Hand 4. Page | 8 Brand name: juki. Lubricating oil: Auto oil 4. Still, the 3-thread overlock is great for quickly finishing the edges and seam allowances of thick and medium-weight fabrics, it can be used to create a blind hem and it's ideal for seaming knits or woven that won't be subjected to a lot of wear and tear. The gears, housing, connecting rods and body of the industrial sewing machines are made up of high-quality metals like cast iron Aluminum. Most suitable for knit and stretch fabrics. Specifications: The five thread overlock machine is a super high-speed 5 thread safety stitch serge designed to sew a variety of fabrics from knits to denim. Pressure Foot Lift: Up to 5 mm 4. Specifications: Gemsy is one of the chain stitch machine providers. Presser Foot Lift: 6 mm 5. Page | 19 17.Name: single needle chain stitch machine. sewing speed: 5,000sti/min 2. Max speed: 6,000 RPM 2. Brand name: Gemsy. Integral distance: 3.2 / 4.8 / 8.0 / 9.5 / 12.7 mm. Brand name: jack. These machines are built specifically to do long term and professional tasks. The double chain is created by bringing the needle out at A and then inserting it at B. Home sewing machines are designed for one person to sew individual items while using a single stitch type. In a modern sewing machine, the fabric easily glides in and out of the machine without the inconvenience of needles and thimbles and other such tools used in hand sewing, automating the process of stitching and saving time. Needle size: 9, 11, 14, 16, 18, 20 & 21 4. optimum settings were achieved under static and dynamic machine conditions, including for the properties of difficult fabrics and compensation for mishandling by the operator over the speed range of the sewing machine. This is the ideal machine for sewing heavier weight fabrics that require a strong hold and a beautifully finished edge. Lubrication: Auto Lubrication 4.Name: Eyelet buttonhole stitch Machine. Page | 4 Specifications: This machine stitch is very similar to the 4-thread overlock, but it isn't as bulky — or quite as strong — because only one needle is used. This technique is used by the fabric and textile industries to fortify stress points in clothing, sporting equipment, uniforms, and a host of other products. All of these mechanisms contribute to upgraded sewing. Needle bar: 30mm 4. Number of Threads: 5 4. The study of the sewing machines can help us understand world events and issues that took place during that period of time such as the Industrial Revolution, and the changes in the lives of women. Usually lock stitch or chain stitch is used here. LUBRICATION: Automatic Machine Picture: Sample attachment: Front side: Back side: 26. Feature: Less maintenance 4. TPI (Thread per inch) per pressure: 64 stitch.

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