

Makes them to highest quality

Top and bottom feed dogs on the variable top feed machines provide for positive and accurate fabric feed. This feature prevents twisting and plyshifting of the fabric being sewn, achieving high quality production.

These machines neatly perform shirring, piping and blindstitch hemming, operations that are difficult with bottom feeding alone, while preventing puckering. PegasusÅfvariable top feed machines ensure uniform quality during a wide variety of sewing operations.





High quality products with no twisting or plyshifting achieved by top and bottom feeding

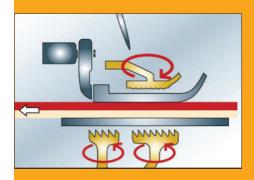
Variable top feed machines feed the top ply as well as the bottom one. This prevents plyshifiting and twisting of the fabric being sewn, generally enhancing the visual characteristics and textures of the material, without any lose of the original properties of the fabric on sewn products.





Neat performance of shirring and piping

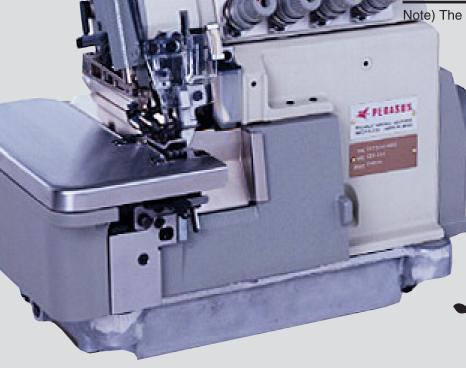
The top and bottom feed dogs are independently driven. Large differential feed ratios can be obtained. These features increase feeding efficiency. Especially, shirring is effectively performed.

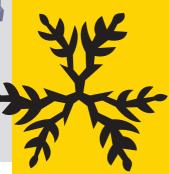


EXT Specifications in common

Max. speed 7,000 rpm
Stitch length Max.5.0mm
Peredge width 3mm - 8mm
Up to 8mm
Differential feed ratio 0.7mm - 3.8mm
Op feed dog movement amount 1mm - 8mm

Note) The details of the specs, vary by subclass.



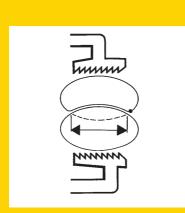


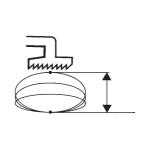
Prevention of puckering

The stopper regulates the path of the top feed dog just before it contacts the bottom one. Thanks to this feature, no wrinkle is produced on the fabric during sewing with increased feeding distance. Thus, variable top feed machines prevent puckering.



The up-and-down stroke of the top feed dog can be selected as desired according to the fabric and operation being employed. Large and strong strokes are used for sewing heavy weight fabrics and/or cross seam sections, and small strokes with soft touch are employed for sewing light weight fabrics.

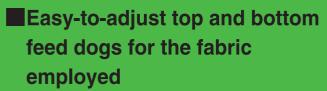




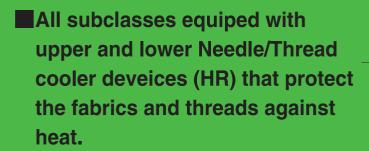
Other Features

Feeding is assured even with heavy weight fabrics

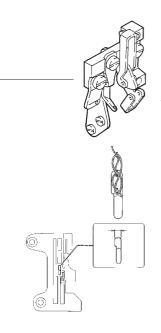
On safety stitch machines, a combination of double chainstitch thread take-ups and needle plates produces beautiful and soft stitches, called balloon stitches.

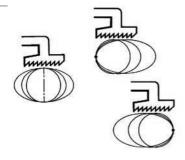


The front-to-back movement of the top feed dog can be easily adjusted from the outside. Three kinds of adjustments are available, rear-fixed, divided-in-half and front-fixed adjustments. The rear fixed type is used to obtain beautiful shirring, and the front fixed type is employed for effortlessly riding out cross seam sections.

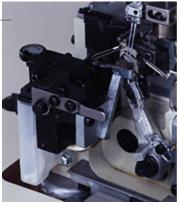


Heat is generated on the needle due to friction when the needle penetrates the fabric at high speeds. This causes thread breakage and/or stitch skipping. This series is equipped with HR device that always prevents heat generation on the point of the needle, allowing the thread to move smoothly and producing the stitches uniformly.









EXT Devices

■ Tape/Thread chain cutter (TK/AT)

Devices that trim the tape and/or thread chain when sewing is completed. Eliminates for the need for cutting the tape and/or thread chain by hand, such as using scissors. Two types are available.

There are two types of driving methods available, pneumatic and electric.

Manual type:TK

Switch operated device that cuts the tape and/or thread chain. Pressing the switch brings the knife down to cut the tape and/or thread chain. Two types of switches are available.

Electric type of finger switch

Pneumatic type of knee switch

Automatic type: AT

The sensor detects the fabric edge to trim the tape. This device includes the controller that regulates the length to be trimmed by stitch counting.





■ Thread chain cutter (KS/KH)

Device that cuts the thread chain and disposes of it through vacuum suction. Eliminates for the need for cutting the thread chain by hand, such as using scissors. Two types are available.

Vertical type vacuum chain cutter: KS

The suction inlet is positioned vertically to the cloth plate.

Flat type vacuum chain cutter: KH

The suction inlet is positioned flush with the cloth plate.





Backlatching device (BT)

Device that backlatches the thread chain by sewing it back into the seams on the fabric at the start of sewing. Eliminates the need for a bartacker and the operator, reducing time and dramatically increasing efficiency.



Intermittent shirring device (KL)

Can easy preform a shirring or a fullness operation partiarlly. Three type of driving methods (manual, electric and pneumatic) are available.

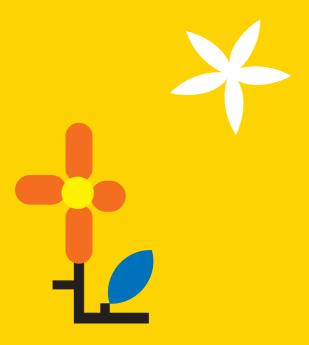
Lint collector (LC)

Powerfully collects thread chains and cutting waste by compressed air. The waste is sucked into an easy to handle collector is compact, so it saves space in the factory.

Presser foot lift (PL)

Reduces operator fatigue. Pressing the treadle actuate the air cylinder to raise the presser foot.







Variable top feed, safety stitch machines: EXT3200

Seam	Type of machine	Model	No. of needles	No. of threads	Machine speed(rpm)	Remarks
	Plain seaming					
00	Plain seaming light to medium weight fabrics, such as dress shirts, blouse	EXT3216(15)-02/223	2	5 (4)	7,000	
00	Plain seaming medium to heavy weight fabrics, such as pajamas	EXT3216(15)-03/233	2	5 (4)	7,000	
0	Plain seaming medium to heavy weight fabrics, such as casual shirts	EXT3216-03/333	2	5	6,700	
0000	3-needle machines for plain seaming cotton pants and similar garments with wide seam	EXT3244-03/333	3	6	6,700	
00	Plain seaming medium weight fabrics, such as light weight denim, cotton pants	EXT3216(15)-03/433	2	5 (4)	6,300	
00	Plain seaming heavy to extra heavy weight fabrics, such as jeans	EXT3216(15)-A04/435K	2	5 (4)	6,300	with wide angled knife
0000	3-needle machines for plain seaming medium to heavy weight fabrics, such as casual pants	EXT3244-A04/435K	3	6	6,300	with wide angled knife
00	Plain seaming heavy to extra heavy weight fabrics, such as jeans, working wear	EXT3216(15)-B-04/435K	2	5 (4)	6,300	
00	Plain seaming extra heavy weight fabrics, such as jeans	EXT3216(15)H-A05/535K	2	5 (4)	5,500	with wide angled knife
	Shirring					
46	Shirring light to medium weight fabrics, such as apron, children's wear	EXT3216(15)-42/233	2	5 (4)	5,500	with shirring device
	Shirring piping					
6	Shirring piping extra heavy weight fabrics, such as bed cover	EXT3216H-45P1/574K	2	5	5,500	with shirring device
	Piping					
00	Piping medium to heavy weight fabrics, such as training wear	EXT3216(15)-C3P1/233	2	5 (4)	6,700	
		EXT3216(15)-C3P2/233	2	5 (4)	6,700	with binder (25mm)
0	Piping extra heavy weight fabrics, such as sofa	EXT3216H-C5P1/574K	2	5	5,500	

Variable top feed, overedgers: EXT5200

	Type of machine	Model	No. of needles	No. of threads	Machine speed(rpm)	Remarks
	Plain seaming					
9	Plain seaming light to medium weight fabrics, such as T-shirts	EXT5204-02/233	1	3	7,000	
90	Plain seaming medium to heavy weight fabrics, such as polo shirts, jersey	EXT5214-03/333	2	4	6,700	
		EXT5214-M03/333	2	4	6,700	
	Blindstitch hemming					
0	Blindstitch hemming light to medium weight fabrics, such as T-shirts	EXT5205-12/223	1	3	5,500	with blindstitch hemming guide(40mm)
	Shirring					
•	Shirring medium to heavy weight fabrics, such as pillowcase, aplon	EXT5214-43/333	2	4	5,500	With shirring device
	Attaching tape					
•	Attaching tape heavy to extra heavy weight fabrics, such as training wear, sweat shirts	EXT5214-54S1/433	2	4	6,300	with a set of parts for attaching tape
		EXT5214-54S2/433	2	4	6,300	with a set of parts for attaching tape, shirring de
13	Attaching tape heavy to extra heavy weight fabrics, such as sweater	EXT5214-54S1/443	2	4	6,300	with a set of parts for attaching tape
		EXT5214-54S2/443	2	4	6,300	with a set of parts for attaching tape, shirring de
•	Attaching tape extra heavy weight fabrics, such as bulky sweater	EXT5214H-55/545	2	4	5,500	with a set of parts for attaching tape, wide knife
	Backlatching					
•	Backlatching heavy to extra heavy weight fabrics, such as sweater	EXT5214-84/433	2	4	6,300	
0	Backlatching heavy to extra heavy weight fabrics, such as bulky sweater	EXT5214H-85/535K	2	4	5,500	for BT250A
	Piping					
•	Piping medium to heavy weight fabrics, such as training wear	EXT5214-C3P1/333	2	4	6,700	
		EXT5214-C3P2/333	2	4	6,700	with binder(20mm)





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