

yamato®

VG SERIES

MULTI MODULE CYLINDER BED INTERLOCK STITCH MACHINE

NEW IDEAS ON UPGRADED SYSTEM AND PERFORMANCE !
New multi module cylinder bed interlock stitch machine
with YAMATO's originality and superiority-
our answer to your demands.



ISO9001:2000
JQA-QM6412



Awarded the 30th New Machine
Development Prize

Features

Yamato

Yamato VG series attained 6,500spm. - highest running speed among world's cylinder bed interlock stitch machines - for high productivity without stress even for long seaming.

Various user friendly features are available to support you surviving and winning the competition for quality, delivery and cost !

Sealed Upper Needle Bar (PAT.P)

Safe & Clean

New Needle Thread Take-up System

Neat Finish & Easy Threading

Easily Switchable Needle Bar Stroke



Quick Response to Various Material

Short Cylinder Bed



Easy Material Handling



New Foot Lifter Lever Mechanism



Easy Adjustment

Submodels with Compact Servo Motor



Easy Installation, Rapid Start and Precise Control

New Feed Mechanism



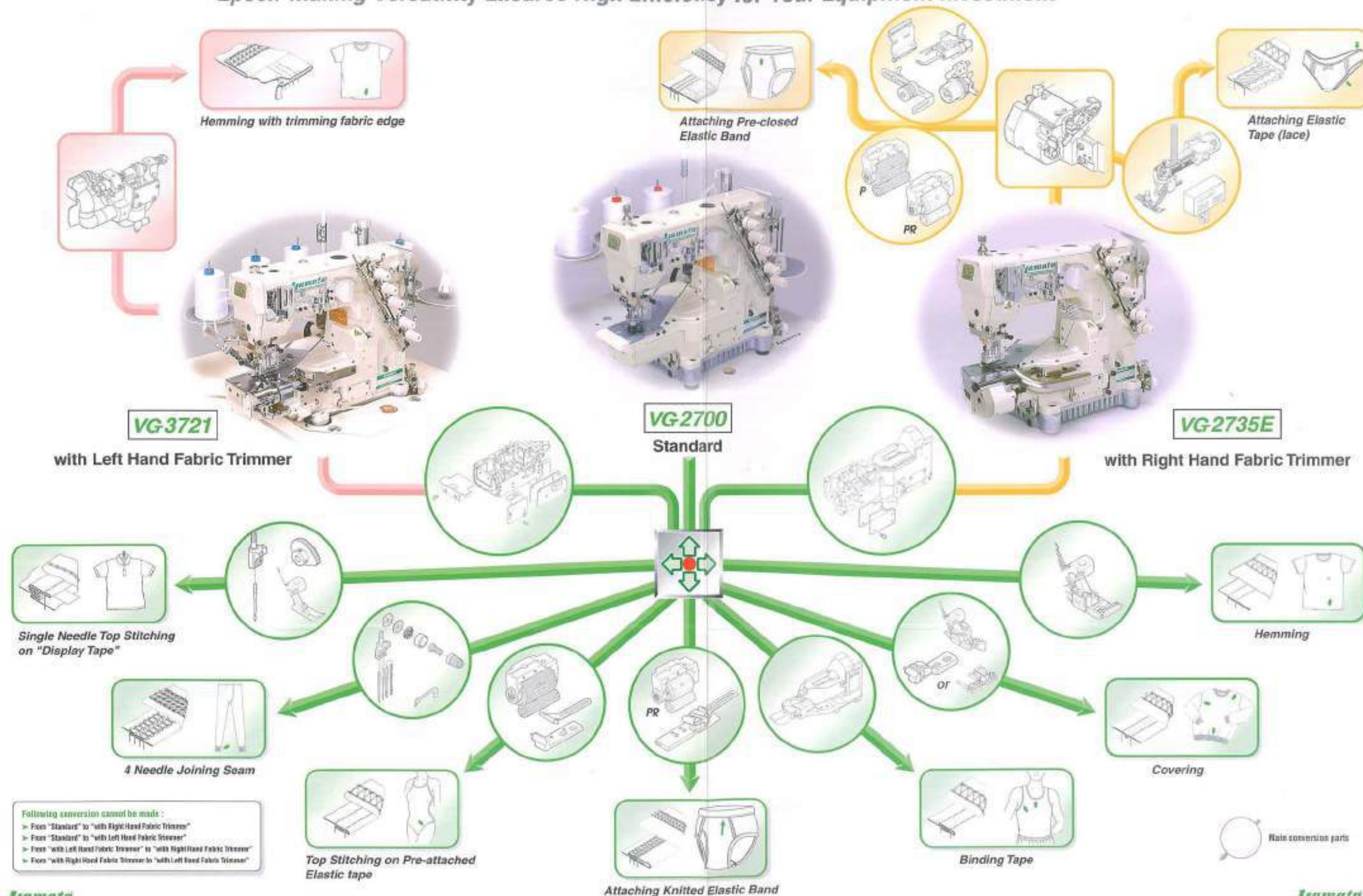
High Durability & Easy Adjustment

New Looper Thread Take-up System (PAT.P) U.S. Patent No. 5732840



Quick & Easy Maintenance

Epoch-making Versatility Ensures High Efficiency for Your Equipment Investment




 High Productivity
& Efficiency


Fine Quality



Easy Maintenance



Versatility


 User Friendly
Design


New Needle Thread Take-up System - Neat Finish & Easy Threading **Sealed Upper Needle Bar (PAT.P) - Safe & Clean**

No moving parts on top of machine head! The New Needle Thread Take-up System eliminated needle bar thread take-up while improving its performance to obtain neat stitch formation. This feature satisfies various safety standards. Also, there is no need to worry about oil leakage from the upper needle bar as it is securely sealed.



Easily Switchable Needle Bar Stroke - Quick Response to Various Material

Needle bar stroke can be switched from 31 mm (standard) to 33 mm by simply turning an eccentric pin on the needle bar. This epoch-making system shortens the downtime for conversion to meet extreme change of fabric weight.



Short Cylinder Bed - Easy Material Handling

From needle drop point to the left end of cylinder bed is only 45mm, 30 mm shorter than conventional model. Operators can handle the fabric easily without obstruction especially when the machine is used for covering and top stitching and other similar operations. Extension Cover is available when sewing small parts such as sleeves of T-shirt, etc.



New Feeding System - High Durability & Easy Adjustment

Micro Adjuster is introduced for easy and precise control of stitch length and differential ratio. Besides, once you set the differential ratio, the ratio stays the same even if you change stitch length, as main and differential feed are linked.

Also, durability of feed mechanism is improved as "Linear Differential Feeding System" is introduced.



New Looper Thread Take-up Cam System (PAT.P) - Quick & Easy Maintenance

The cam is located outside of the machine frame for easy adjustment and removal. Downtime to unwind looper thread in case of it winds itself around the cam is dramatically shortened. Also, the cam can be exchanged easily according to different sewing conditions. (U.S. Patent No.5732640)



Submodel with Compact Motor - Easy Installation, Rapid Start and Precise Control

Submodels available with compact servo motor mounted on machine head. Installation and replacement of machine head is easy. Also, problems caused by use of V-belt, such as dust, machine stop at irregular needle position due to slippage etc., can be eliminated as the machine is driven by toothed belt.

Note : Compact Motor should be specified when ordering the machine.



New Foot Lifter Lever Mechanism - Easy Adjustment

The outer lever (similar to the one for overlock machine) enables easy assembly and adjustment of foot lifter without removing top cover.





VG2700 3 needle cylinder bed interlock stitch machine

Basic model of VG series.
Applicable for general sewing operations. Needle bar stroke is set 31 mm for sewing light to medium weight fabric.

VG2730 3 needle cylinder bed interlock stitch machine

Same as VG2700, except needle bar stroke is set 33mm for sewing medium to heavy weight fabric.

VG2740 3 needle cylinder bed interlock stitch machine for hemming

Exclusive model for hemming operation equipped with sewing parts designed for:

- ① Relaxed and stretchable stitch formation
- ② Sure feeding performance
- ③ Unique layout of feed dogs for flat finish of edge of hem to obtain neat finish of hem.

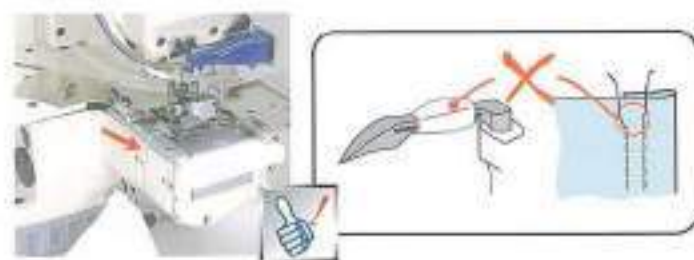
Note: Another model for hemming with inserting elastic band, VG2745P can be prepared as extra. Please inquire for the detail.



VG2740-CA2 Chain-Off Mechanism (Option)

Chain-off without top cover thread!
No need to worry about thread breakage and skip stitching when sewing series of open fabric.

- Notes:
- This mechanism should be specified when ordering the machine.
 - Exclusive servo motor is necessary to control CA2.



For further uniform quality with less sewing skill...

BF Air Guiding Hemming Folder (Optional Device)

Fabric is folded and edge of hem is kept at desired position automatically by air flow. Uniform hemming width is obtained without controlling the fabric.

This de-skilling device allows you high productivity and uniform finish while minimizing the operator's fatigue which causes uneven quality.

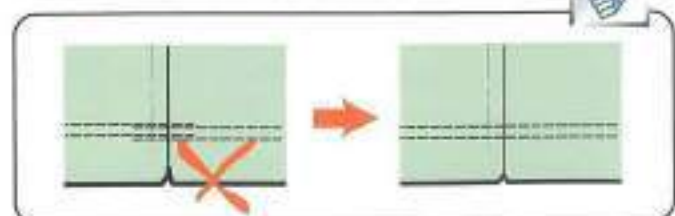
Also, training period of new operator can be shortened.

- BF7: Applicable for VG2700, VG2730, VG2740
BF7-F: Same as BF7, except with detachable cloth plate for loading open fabric
BF7-C: BF7 with stitch counter for automatic folder opening for overlapping
BF8: Applicable for VG3721
BF8-C: BF8 with stitch counter for automatic folder opening for overlapping

Note: Exclusive servo motor is necessary to control BF device.



Photo: BF8 on VG3721



VG3721 3 needle cylinder bed interlock stitch machine with left hand fabric trimmer

Equipped with fabric trimmer to trim folded edge of hem for uniform finish.

Downsized trimmer and newly designed sewing parts ensure smooth operation and "stitch on stitch" overlapping.

Also, trimming margin can be held down and waste of material is minimized.



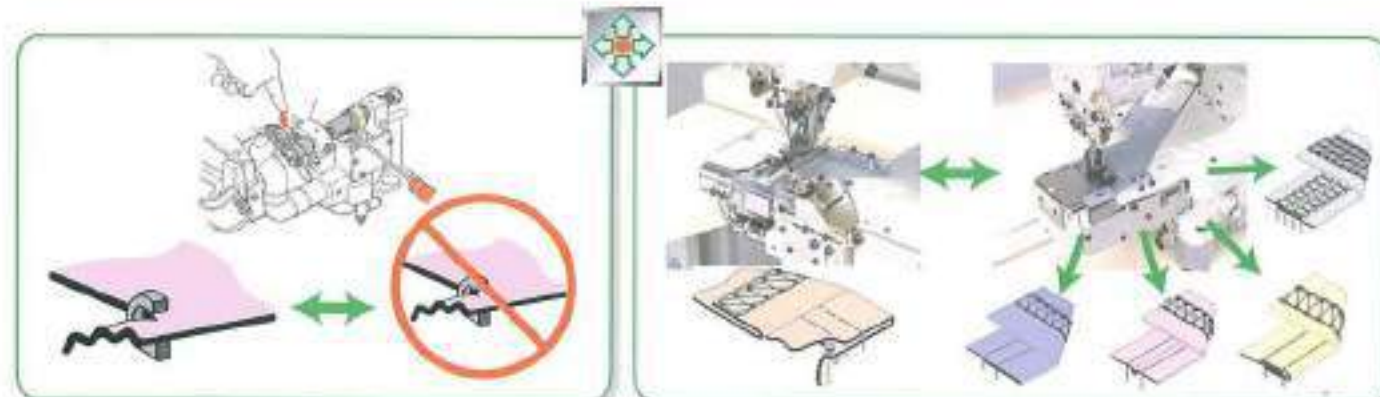
Epoch-Making Versatility of VG with Left Hand Fabric Trimmer

Movement of fabric trimmer can be cancelled easily when trimming is not necessary.

No re-adjustment required when using the trimmer again.

Also, whole trimming mechanism can be removed and the machine can be converted into normal cylinder bed machine by exchanging covers and sewing parts.

High efficiency for your equipment investment is obtained.



To prevent twist of hem...

WF1 Walking Presser Foot for Hemming (Optional Kit)



Designed to move back and forth in co-operation with feed dogs with minimum pressure, and helps feeding upper ply of hem.

No need to give unnecessary pressure, which causes twist and ply shift, even for high speed operation.

Applicable for: VG2700, VG2730, VG2740, VG3721





VG2713 3 needle cylinder bed interlock stitch machine for covering

A submodel for covering operation. The short cylinder bed enables easy and smooth handling. A wide variety of sewing parts and fabric guides are available for various seam styles.

VG2790 3 needle unique cylinder bed interlock stitch machine for covering

A subclass of VG series with unique cylinder bed, which ensures further smooth handling of covering operation on small circular portion such as neckline of sweat shirt, etc. Easier access to internal mechanism than conventional model for easier maintenance.



For easy maintenance and good working environment...

SC25 Blow-in and Suction Type Self Cleaning System

This device blows lint inside sewing cylinder and collects (sucks) it thus decreasing downtime for cleaning. Therefore, there is no need to worry about stains on fabric caused by oil-stained lint.

- Applicable for VG2790 class only
- This device should be specified when ordering the machine.
- This device requires compressed air or vacuum dust collector for suction of blown lint.



Sewing Parts and Fabric Guides According to Various Seam Style:



VG2713 -1□□M-T1N VG2790

Covering Style

Feed Layout

Coarseness of Feed Dogs

	T (standard)	T (light fabric)	K (tip over)	Standard	Coarse Mesh
T1N	●		3	4	●
T1A	●		3	4	●
T4N	●		4	4	●
T4A	●		4	4	●
K1N		●	3	4	●
K4N		●	4	4	●



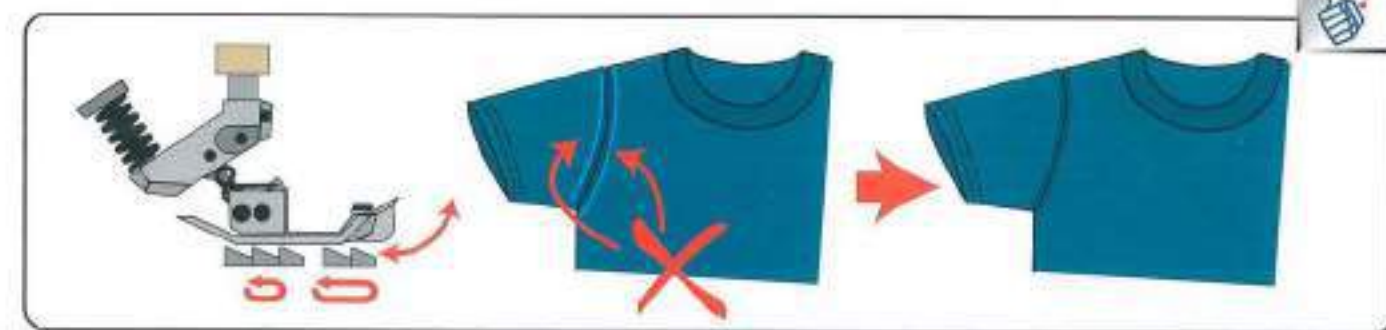
To prevent track of foot...

WF2 Walking Presser Foot for Covering (Optional Kit)

Designed to move back and forth in co-operation with feed dogs with minimum pressure and help positive feeding performance. No need to give unnecessary pressure, which causes track of foot on dark colored fabric.

Also, Guiding Chip installed in front of presser foot, which also moves back and forth, keeps joining line of overlock at correct position.

Applicable for: VG2713, VG2790





VG2779S 3 needle cylinder bed interlock stitch machine for attaching elastic tape with right hand fabric trimmer & metering device

A submodel for attaching elastic tape (lace) on waist and leg openings of lady's panties, etc. Equipped with right hand fabric trimmer to trim the edge of body fabric for neat finish. Electronically controlled stepping motor driven metering device gives various and precise tension to elastic tape for good quality finish and uniform finishing size (26 x 20 different tensions can be set). Besides, the metering device can be swung out for easy threading.



VG2779E 3 needle cylinder bed interlock stitch machine for attaching elastic tape with right hand fabric trimmer

Same as VG2779S except without metering device. Applicable for same operation as VG2779S along with independent metering device or tape feeder.

VG2735PR 3 needle cylinder bed interlock stitch machine for attaching elastic band with right hand fabric trimmer & puller

A submodel for attaching pre-closed woven elastic band on waist of men's briefs, etc. Equipped with right hand fabric trimmer to trim the edge of body fabric for neat finish. Exclusive sewing parts and guides are introduced for smooth insertion and sure overlapping of elastic band and body fabric.



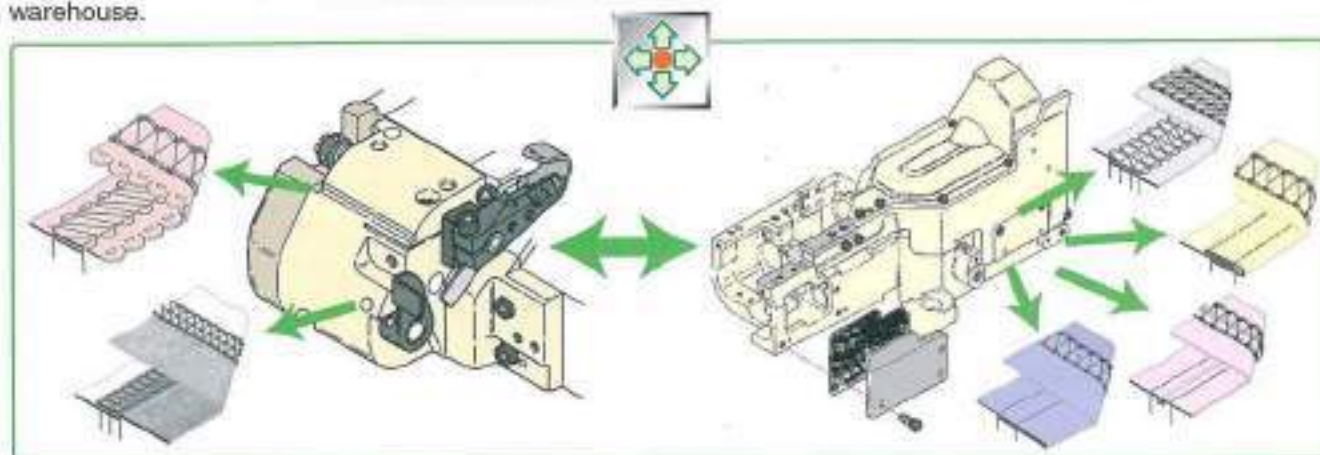
Fabric trimmer can be dropped for no trimming even during sewing.

Following submodels are also available:
VG2735P : with puller (tooth rollers)
VG2735 : without puller
VG2735E : without puller & tension rollers



Epoch-making Versatility of VG with Right Hand Fabric Trimmer

Whole trimming mechanism can be removed and the machine is convertible into normal cylinder bed interlock stitch machine by exchanging covers and sewing parts. Your VG can work for several other purposes, even when fabric trimming is not necessary, while other machines with fabric trimmers are sleeping in your warehouse.



VG2703 3 needle cylinder bed interlock stitch machine for binding tape

A submodel for attaching collarette tape. Standard tape folder, which is used with flat bed binding machine, can be used for ideal finish.

Note: Folder is not included in the machine.



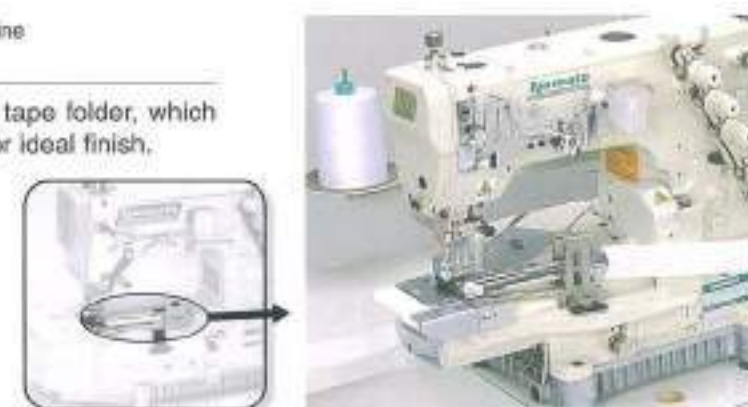
To save labor and material...

EC Solenoid type Tape Cutter

Semi-automatic solenoid type tape cutter. Cutter is actuated by pressing knee switch. The device can be swung out when space beneath arm is necessary.

Applicable for: VG2703, VG2779S, VG2779E

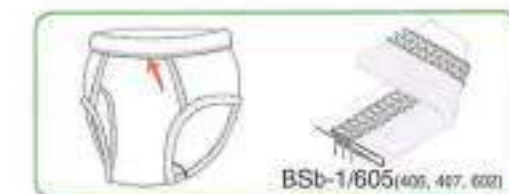
Cutting tape width: up to 43 mm



VG2742PR 3 needle cylinder bed interlock stitch machine for attaching knitted elastic band with puller

Equipped with exclusive sewing parts, puller mechanism, and flat rubber rollers to obtain flat and neat finish.

Note: Models without puller mechanism (VG2742) are also available.



AU21 New Air-operated type Tape Cutter

Automatic tape cutter at the beginning and the end of sewing. Reflectable type photo sensor detects the edge of fabric and actuates cutter after preset stitch numbers. Also, automatic machine stop function is available for minimizing waste of material (in case of use with needle positioner motor).

Applicable for: VG2703, VG2779S, VG2779E

Cutting tape width: up to 23 mm



COMING SOON...

For neat finish without unnecessary tension...

AEF Compact Type Clamp System for Automatic Tape Feeder

This device supplies tape into the machine without any tension. Tape feeding amount is adjustable to meet various kinds of tape with different elasticity. Clamp system is introduced for easy installation on machine table and relocation to other machines.

AEF-31: for inserting tape from top, applicable for VG2779S, VG2779E

AEF-32: for inserting tape from side, applicable for VG2703

ATF-3: Photo-Sensor control type tape feeder, applicable for VG2703



Photo: AEF-31



EFa-2/406 (407, 602, 606)

VG2740P 3 needle cylinder bed interlock stitch machine for top stitching with puller

A submodel for top stitching on elastic tape attached by overlock. Short Cylinder Bed enables easy and smooth handling without obstruction of gusset on bikini brief, etc. Combination of exclusive sewing parts and puller mechanism ensures positive feeding performance.



VG2790-SM 3 needle unique cylinder bed interlock stitch machine for top stitching

A submodel of VG2790 class for top stitching on elastic tape attached by overlock. Unique Cylinder Bed allows operator to control fabric at close position to needle dropping point and ensures smooth flow of fabric without obstruction.



VG2792 3 needle unique cylinder bed interlock stitch machine for top stitching

Another submodel of VG2790 class for top stitching on elastic tape attached by overlock. Unique Cylinder Bed allows operator to control fabric at close position to needle dropping point and ensures smooth flow of fabric without obstruction. Besides, the model is equipped with sewing parts on VG2740P. Also applicable for hemming operation.

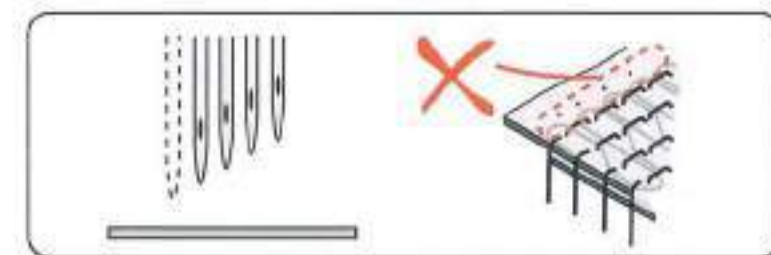


VG2760 4 needle cylinder bed interlock stitch machine

The 4 needle interlock stitch is available on the VG !! Basic features, especially the new thread take-up mechanism for the VG series and exclusive sewing parts, achieve a relaxed stitch formation with good durability, but without the retainer needle. Conversion from / into the standard 2, 3 needle interlock stitch machine requires no complex adjustment of the internal mechanism. Simply exchange several parts and the thread tension assembly. There is no need to pay for an exclusive model with limited use. Use the VG for all seasons !

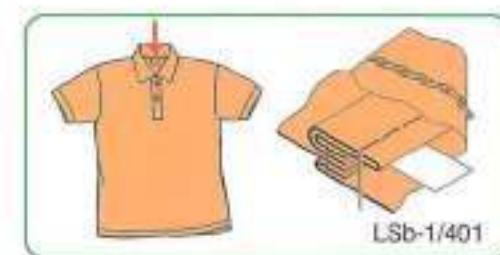


LSa-1/607



VG2708-WF8 1 needle cylinder bed double chain stitch machine for top stitching of display tape.

A submodel for top stitching on "display tape", - tape concealing overlock seam on neckline of T-shirt. Exclusively designed sewing parts and WF8, walking presser foot with guiding groove for tape, ensures a neat finish without puckering. Also, the machine is easily converted from/into standard interlock stitch machine by exchanging sewing parts and the looper thread take-up cam.



LSb-1/401

UT Automatic Under Thread Trimmer

ST Automatic Top Cover Thread Trimmer

	Under Thread Trimmer	Foot Lifter	Wiper	Foot Lifter + Wiper	Top Cover Thread Trimmer	Waste Suction	Remarks
Air Operated Type							
UT-A32	●			●			Wiper and foot lifter works at the same time.
UT-A34	●	●	●				Wiper and foot lifter works independently.
UT-A34/ST2-A	●	●			●		
UT-A42	●			●		●	UT-A32 + waste suction for the machines with fabric trimmer.
UT-A44	●	●	●			●	UT-A34 + waste suction for the machines with fabric trimmer.
UT-A44/ST2-A	●	●			●	●	UT-A34/ST2-A + waste suction for the machines with fabric trimmer.
Solenoid Type							
UT2	●	●	●				
UT4	●	●					
UT4/ST2	●	●			●		

CS Condense Stitch Mechanism

This device makes condensed stitch to prevent raveling of seam from end.

Notes:

UT, ST and CS should be specified when ordering the machine.

Exclusive servo motor is necessary to control UT, ST and CS.

P, PR

VG□□□P : Puller with tooth rollers

VG□□□PR : Puller with flat rubber rollers

Note: Puller mechanism and type of rollers should be specified when ordering the machine.

AS Air-operated Folder Slider

This device controls open / close of folder for easy loading of material and smooth overlapping at the end of circular sewing.

Applicable for VG2742PR.

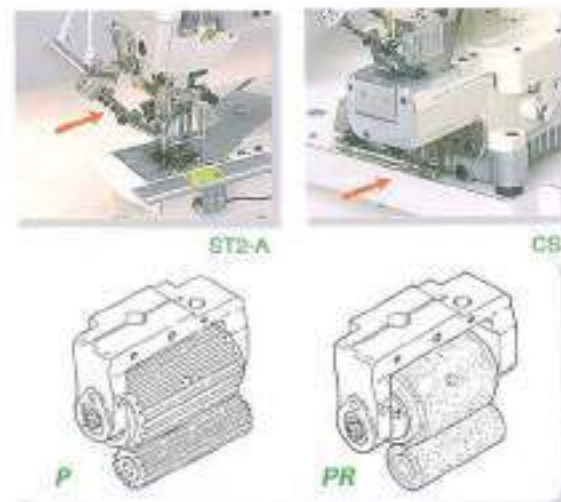
AS30: Slider is actuated by solenoid valve

AS4 : Slider is actuated by air toggle switch

Note: Exclusive servo motor is necessary to control AS30

EC Solenoid type Tape Cutter → Please refer to page 11 for details.

AU21 Air-operated type Tape Cutter (Coming Soon) → Please refer to page 11 for details.



BF Air Guiding Hemming Folder → Please refer to page 6 for details.

TL Compact Spot Light

This heat-free, long life compact spot light lightens needle dropping point and allows operators to see sewing area clearly. Applicable for all VG submodels.

TL1: Fixed type

TL2: Flexible type (also convenient for threading and adjustment)



EL1 See Through Light for Hemming

This heat-free, long life light is installed in front of sewing cylinder and lightens the sewn fabric from bottom.

Operator can easily see the edge of folded fabric and make sure that the edge is in correct position.

Applicable for VG2700, 2730, 2740.

Also applicable for VG2760 for checking overlapping of fabric.



PK Needle Thread Clamp

This tiny device holds needle thread while under thread trimmer trims the thread and presser foot is lifted, and prevents needle thread from coming out of needle eye in case stretchable thread is used for needle thread.

Applicable for all VG submodels.

PK : Solenoid type

PK-A: Air-operated type

AEF

Compact type Clamp System for Tape Feeder

→ Please refer to page 11 for details.

ATF

Tape Feeder

→ Please refer to page 11 for details.



Numbering on Model:

VG2713P-156M-T1N-WF2/UT-A34/ST2-A/M



- ① Symbol of Series ② Class No. ③ Number of Needle : 7 = 2, 3 needle ④ Submodel by Application
- ⑤ Rear Puller : No indication = without puller, P = with puller (tooth rollers), PR = with puller (flat rubber rollers)
- ⑥ Top Cover Thread Mechanism : 1 = with Top Cover Thread Mechanism
- ⑦ Needle Distance : 32 = 3.2mm 40 = 4.0mm 48 = 4.8mm 56 = 5.5mm 64 = 6.4mm
- ⑧ Shape of Stitch Tongue on Stitch Plate : see a table below
- ⑨ Covering Style (for submodels for covering only) see a table on page 9
- ⑩ Walking Presser Foot ⑪ Device(s)
- ⑫ Compact Servo Motor : M=Pana minas Motor, X=Mitsubishi Compact Motor



Model & Device Setup Table :

Page	Submodel	Needle Distance(mm)	Shape of stitch tongue	Walking Presser foot			Under thread trimmer and Top cover thread trimmer										Folder roller			Cutter	
				WF1	WF2	WF3	UT-A32	UT-A34	UT-A36 (ST2-A)	UT-A38	UT-A40	UT-A42 (ST2-A)	UT3	UT4	UT4-ST2	CS	AG30	AG4	EC	AG1	
6	VG2700	32-4.0-4.8-5.5-6.4	M L S S1 S2																		
6	VG2730	32-4.0-4.8-5.6-6.4	M L S S1 S2																		
6	VG2740	32-4.0-4.8-5.6-6.4	M S1 S4																		
7	VG3721	4.0-4.8-5.6	S1																		
8	VG2713	4.0-4.8-5.6-6.4	M L S																		
8	VG2750	4.0-4.8-5.6-6.4	M L S																		
10	VG2779S	4.0-5.6	S5																		
10	VG2779E	4.0-5.6	S5																		
10	VG2735PR	32-4.0-4.8-5.6-6.4	M																		
11	VG2703	32-4.0-4.8-5.6-6.4	M																		
11	VG2742PR	5.6-6.4	M																		
12	VG2740P	32-4.0-4.8-5.6-6.4	M S1																		
12	VG2750-SM	32-4.0-4.8	M																		
12	VG2752	32-4.0-4.8-5.6-6.4	M S1																		
11	VG2760	5.6-6.4	S3																		
11	VG2708-WF3	-	-																		

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