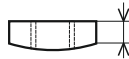


Technical Specifications CBS 13

Sewing Phases	Button attaching & neck wrapping
Sewing Speed	max. 1500 rpm
Stitch Type	101 single-thread chainstitch
Fabric Penetration	Blind-stitch or show-stitch; adjustable sewing depth 0 - 3 mm
"V"-Style Sewing	Yes
Needle Bar Stroke	50 mm
Looper	Rotary - butterfly with needle bar timing
Thread	Polyester thread #50 - #120
Needle System	332 LG, 332 EXT LG
Thread Trimming and Catching	Automatic
Thread Tension	Separate for button attaching & neck wrapping
Button Outside Diameter (ø mm)	10 - 34 mm (16" - 54")
Number of Button Holes	2, 4
Buttonhole Diameter	≥1.5 mm
Buttonholes Spacing X, Y	2 - 6 mm (programmable)
Button Thickness	Up to 6 mm 
Neck Height	0 - 8 mm
Number of Button Attaching, Neck Wrapping Stitches	2 - 30, 0 - 50
Internal Memory Capacity	99 patterns
Display	5.7" color touch-screen
X-Y Feeding System	Stepping motor
Button Feeding	Automatic (pneumatic)

Accuracy of illustration and description of equipment shown herein apply to products as manufactured at time of publication.



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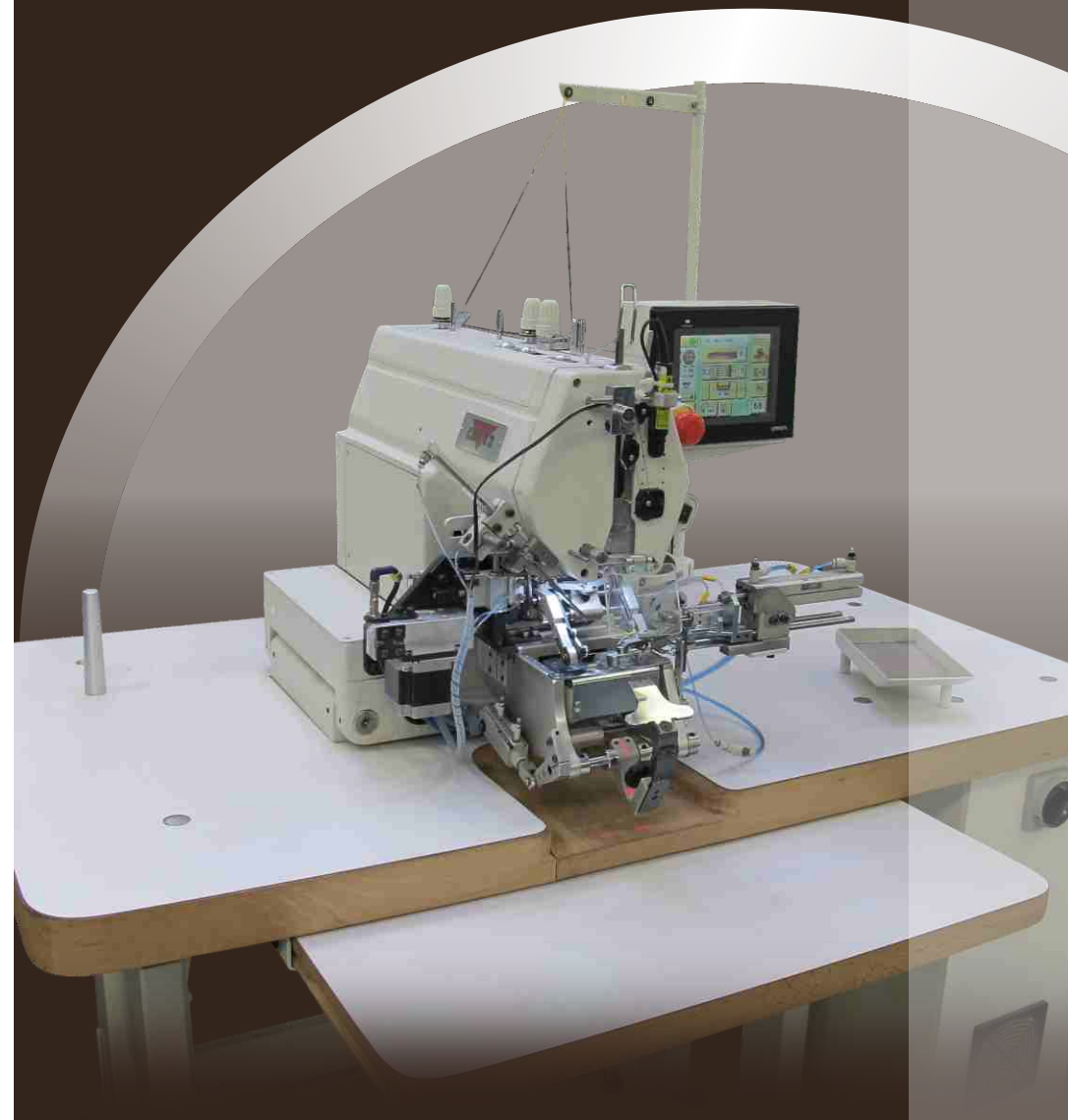
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CBS 13



Button Sewing and Neck Wrapping

The CBS 13 offers high-speed button sewing and neck wrapping performed by a single machine utilizing a single-thread chainstitch. High flexibility allows sewing a wide range of buttons utilizing a quick conversion system.



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Main Features

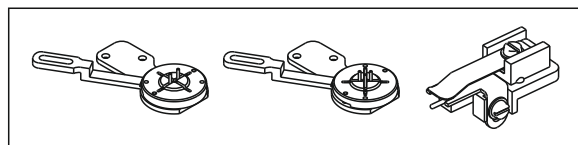
Patent-Protected Concepts

Machine is controlled by a unique combination of mechanical and electrical components, allowing sewing at high speed. Full control of all the sewing parameters and button properties is achieved by utilizing several patent-protected concepts:

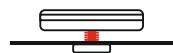
- **Needle-Bar – Looper Timing Mechanism** controlling the relative position of the needle-bar and rotational looper, thus allowing high-speed neck wrapping by means of the needle-bar bite. This feature eliminates the need of looper left & right movement.
- **Universal Flat Button Holder** automatically adapting to minor button-hole spacing variances (thus fully covering the standard spacing range), easily adjustable to major variances and firmly holding the button during feeding.

Flexible Button Feeder

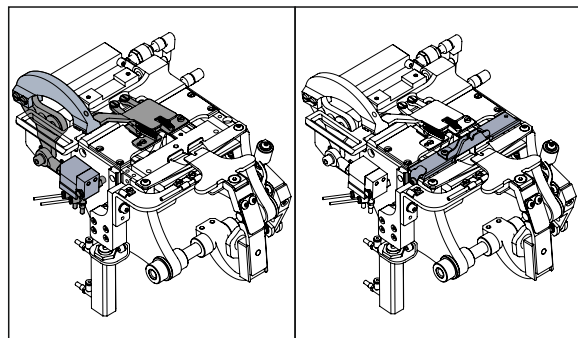
Machine allows sewing of 2- and 4-holes flat-buttons and shank-buttons with rapid exchange of respective button holders.



Counter-Button

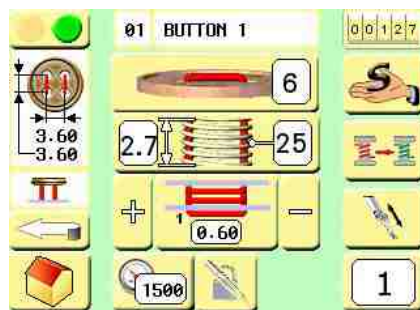


Counter-button sewing is also enabled on the same machine while requiring only minimum additional accessory.



High Resolution Full-Color Touch Screen Display

5.7" LCD high resolution full-color touch screen display incorporates all the sewing functions. The use of easily understandable symbols makes the machine very easy to operate with minimum requirements for training time. User friendly icons are utilized for setting parameters such as button type, sewing style, number of stitches and wraps, neck height and stitch depth. Currently sewn button parameters are displayed on the main screen while operating the machine.



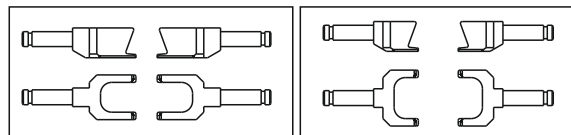
Sewing Range and Style

Button Style

Button type range from 2 or 4-hole flat buttons to shank buttons in different sizes, which are easily programmable from the touch screen. At the time of button specification, the operator selects all the sewing style with one simple touch. Up to 99 different button style combinations can be stored in the machine memory.

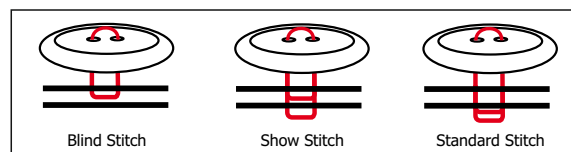


Two button chucks are available covering wide range of button diameters - from 10 to 34 mm (16" - 54").



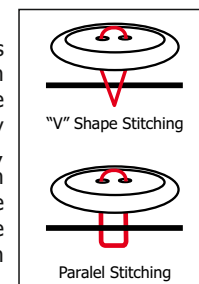
Show & Blind Stitch

The CBS 13 machine has an option called "blind" or "show" stitch in addition to standard. If the show stitch option is selected, only one single stitch is passed completely through the garment for high-quality appearance. Alternatively, the blind stitch option does not show any stitch on the inside of the garment and the thread only penetrates to the middle of the material.



Stitching Option

Optional "V" shape stitching method is available for 4-hole flat buttons. When attaching the button, all stitches are sewn into two locations which are very close to each other. Furthermore, combining the "V" shape sewing with the blind stitching would enhance the stitching quality, which will give the hallmark of quality to the sewn garment.

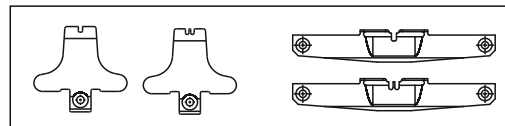


Button Wrapping

Buttons are proportionally and automatically wrapped to form a firm button neck. Operator can specify number of wraps, neck height and marginal wrapping positions. Depending on the designer's requirements the neck height can be programmed from 0 to 8 mm.

Material Feeding

Special design of the tongue ensures perfect feeding and fixing of the fabric. The tongue automatically adapts to a different material thickness and holds down the sewn garment while stitching the button. The new design also simplifies the tongue change between V-shape sewing and standard 4-hole button sewing style.



Optional Cross-Over Thread

Due to the incorporated thread-trimming and pick-up mechanism, the operator can turn the cross-over stitch on or off. Slightly extended sewing time when the cross-over stitch is disabled is compensated by higher quality appearance of the button attaching stitches.

