

T.B.D. (Thread Breakage Detector)

T.B.D. Circuitry reliably detects thread breakage and stops the machine immediately to avoid the loss of materials.



Configurations

- ★ Start of dart sewing: Back Tack
- End of dart sewing: Back Tack or Condense Stitch
- ★ LCD Touchscreen
- ★ XY Stepping Motor System (NC)
- ★ Large Vacuum Suction Plate (1,000 mm x 250 mm) with inverter
- ★ LED Marking Projector
- ★ Stacker (with Turn-Over Bar)
- ★ T.B.D. (Thread Breakage Detector)
- ★ Thread Clamper
- ★ Bobbin Thread Counter
- ★ Air Duster Gun
- ★ Casters with Stopper

Daily Output

★2,400 seams / 8h (20 % allowance)

Specifications

- ★ Sewing Head JUKI DDL-9000B-SH
(Direct Drive, High-Speed, 1-Needle, Lock Stitch Machine)
- ★ Needle DP x 134 #9 ~ #14
- ★ Max. Sewing Speed 4,500 rpm
- ★ Effective Sewing Stroke 450 mm
- ★ Max. Dart Depth 20 mm
- ★ Table Height (mm) 940 mm
- ★ Vacuum Plate Stroke (forward/backward) 175 mm
- ★ # of Pattern Memory 60 Patterns
- ★ Power Consumption 200 V / AC 660 VA
- ★ Air Consumption 0.5 MPa 20 nl / min
- ★ Dimensions (mm) W 1,300 x D 1,100 x H 1,300 mm

Applications

- ★For Ladies: Single-Pointed Darts, Double-Pointed Darts
- ★For Mens: Back Darts, etc.

In the interests of product improvement, appearance and/or specifications are subject to change without prior notice.

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The Culmination of the Development of Darts Seaming Machines in 35 years

Wide variety of dart sewing (max. 450 mm length x 20 mm depth) at your fingertips.

Its cutting-edge design based on the NC (numerical control) and touchscreen operation enables you to sew various dart patterns such as single-pointed: ,  : and diamond/double-pointed:  : darts with concave curve/convex curve, with simple operation.

Up to 60 patterns of your own dart settings can be stored onboard and recalled instantly.

Bundled Software "FP Data7"



Connecting a PC with this software installed and YUHO automatic sewing machines by a USB cable enable users to report the current status of user's YUHO machine quickly and precisely. This procedure makes YUHO easier to provide quick and appropriate customer support remotely.



NC 2-Point Darts Seamer

Model U-3701-E



The New-Breed NC Dart Seamer

Thanks to Yuho's unparalleled and highly intelligent NC (numerical control) system, U-3701-E calculates the most appropriate shape, angle, and length of each dart automatically just by simple touchscreen operation. In conjunction with the XY Stepping Motor system, U-3701-E's NC system has achieved high precision sewing of single- and double-pointed darts.

Furthermore, Yuho's superior NC system offers diverse variable parameters for detailed adjustments with simple touchscreen U/I on start/end of sewing at the tip of darts (hereafter "Zero Point"), shape/depth of curvature, and more. It enables users to easily and instantly change setting change for the textile products with different fabrics/sizes, without replacing the physical parts such as gauges or guide rails.

Thread Clamper for Trouble-Free Sewing



To avoid troubles at the beginning of each seam line, the U-3701-E pulls thread and makes tension using the Thread Clamper. Thread Clamper catches the thread just after it is cut by a knife at the end of the previous seam line, and releases it as soon as the needle starts sewing. Since this procedure is repeated at every single seam line, you are totally free from stitching troubles.

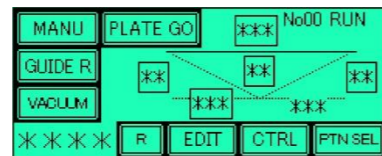
Instant Fine Adjustment with LCD Touchscreen



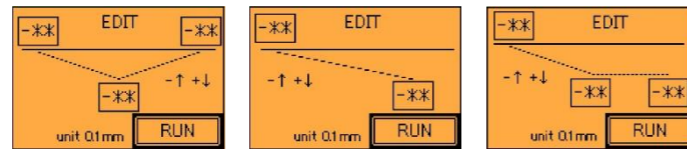
Within the range of 450 mm (W) x 20 mm (D), users can store and recall various dart settings up to 60 patterns instantly, including single-pointed darts

(triangle-shape and trapezoid-shaped) and double-pointed darts. U-3701-E allows detailed setting/editing on each dart pattern and fine adjustment for avoiding dimple at "Zero Point." Those setting /editing can be done easily just by operating the LCD touchscreen, without touching any hardware, tool, or gauge.

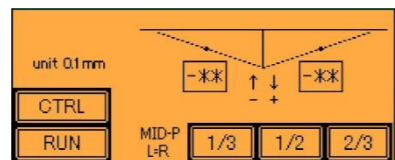
"Zero Point" must be adjusted depending on each fabric's thickness. U-3701-E allows Zero Point adjustment in 0.1 mm step, and the dedicated parameters for erasing dimples are provided for left/right Zero Point independently. Furthermore, you can change each dart's seam line from straight to convex curve or concave curve, each curve depth is adjustable in a 0.1 mm step, and each curve's peak position is selectable among 1/3, 1/2, 2/3.



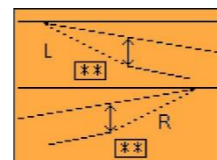
Basic Operation Screen



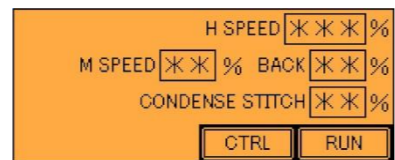
Darts Depth Edit Screen (for Diamond, Triangle, Trapezoid)



Concave/Convex Curve Edit Screen



Dimple Erase Edit Screen

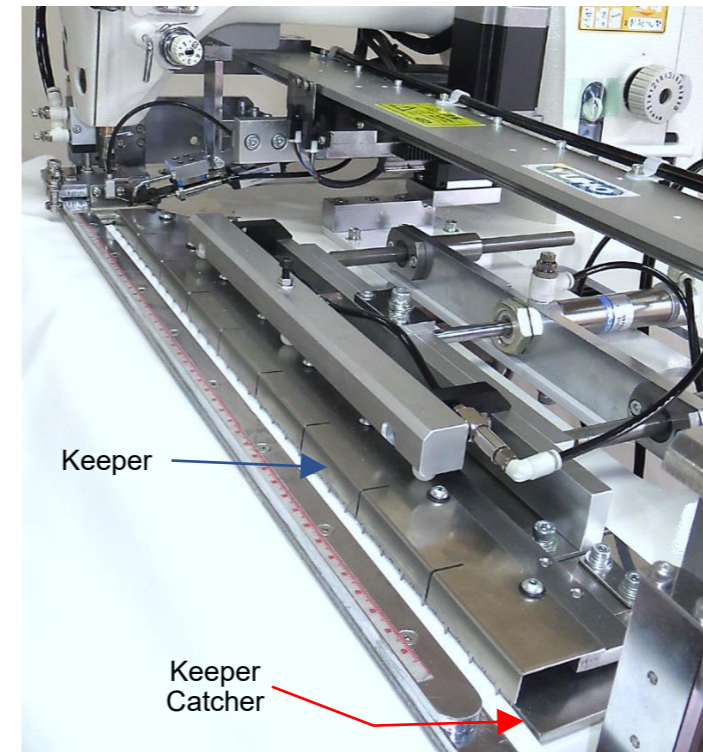


Sewing Speed Edit Screen

Equipped with the capability of such thorough and subtle adjustment, Yuho's NC Darts Seamer is the only machine of this kind in the world.

Keeper Holds Down Various Materials Securely

U-3701-E's keeper is made out of a single piece of a long metal plate; thus, keeper's teeth are always kept aligned. Besides, thanks to the combination of keeper and keeper catcher, U-3701-E securely grab various fabrics of varying thickness. Keeper catcher also helps prevent the keeper from making scratches with its teeth on the table's surface.



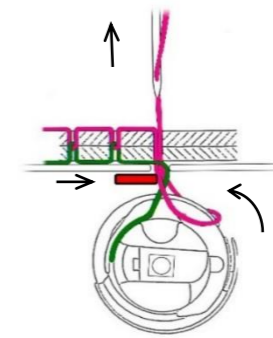
Powerful Vacuum Suction complete with Inverter

U-3701-E allows users to load fabrics in the right position with minimal effort thanks to the powerful, and enlarged (1,000 mm x 250 mm) vacuum suction plate. The intensity of vacuum suction can be adjusted with the onboard inverter circuitry.



A newly equipped marking projector assists operators to position the fabrics. Once an operator loads fabric, U-3701-E takes care of the entire remaining process freeing the operator's hands, contributing to overlapping workflow and higher productivity.

No Puckering Even with Very Thin Georgette



YUHO's proprietary "Bobbin Thread Backtensioner" technology (patented in Japan) guarantees no puckering and perfect stitches on backstitching or omni-directional stitching, regardless of material, thickness, or elasticity. Its groundbreaking back-tensioning mechanism can always feed the appropriate amount of bobbin thread.

No matter if it's very thin georgette or thick knit materials, U-3701-E still offers the perfect sewing results.

Material Hanger



A material hanger is provided just in front of the vacuum suction plate, allowing operators to load fabrics more quickly. The vacuum plate

moves toward the machine head, allowing sufficient space for operators' hands during the loading process.

Stacker Realizes Overlapping Workflow

U-3701-E allows operators to have either the stacker pick up the fabric at the point where sewing finishes, or at the left end of the table so that even longer items can be piled up steadily and neatly. Once the operator sets the fabric, U-3701-E will take care of the entire process of sewing and picking up/piling up. It allows operators the overlapping workflow without hassles.



Designed for Easy Maintenance

U-3701-E is meticulously designed, paying maximum attention to ease of maintenance, as well. The Keeper Ruler, for example, can be detached instantly, and the machine head can be tilted with a single touch. U-3701-E was thoroughly designed for ease of use in mind.

