

NC 2-Point Dart Seamer
(with 3 x Marking Lights & Auto Dart Length Measuring Tool)
Model U-4002-E



T.B.D. (Thread Breakage Detector)

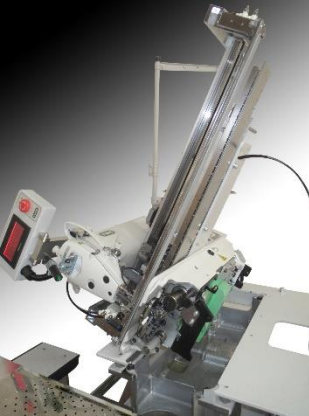
T.B.D. Circuitry reliably detects thread breakage and stops the machine immediately to avoid the loss of materials.

Additionally, it is equipped with a bobbin thread counter, which tells the operator in advance when it is time to replace the bobbin.



Designed for Easy Maintenance

U-4002 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-4002 was thoroughly designed for ease of use in mind.



Configurations

- ★ Start of dart sewing: Back Tack
End of dart sewing: Back Tack or Condense Stitch
- ★ LCD Touchscreen
- ★ XY Stepper Motor System (NC)
- ★ Large Vacuum Suction Plate (1,000 mm x 250 mm) with inverter
- ★ LED Marking Projector x 3 (LEFT, CENTER, RIGHT)
- ★ 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-Point Darts: 2,400 seams / 8h (20 % allowance)

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.

Specifications

- ★ Sewing Head JUKI DDL-9000B-SH
(1-needle lockstitch, direct-drive with thread trimmer)
- ★ Needle DP x 134 #9 ~ #14
- ★ Machine Speed Max. 4,500 rpm
- ★ Max. Sewing Length 450 mm
- ★ Max. Darts Depth 20 mm
- ★ Table Height 940 mm
- ★ Plate Stroke 175 mm
- ★ Power Supply 200 V / AC 660 VA
- ★ Air Supply 0.5 MPa 20 nℓ / min
- ★ Dimension W 1,300 x D 1,100 x H 1,300 mm

Applications

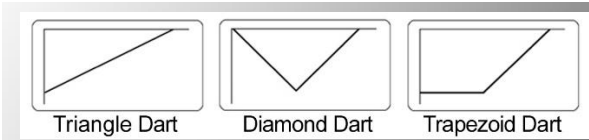
- ★ Ladies': Double-Point Darts, Single-Point Darts
- ★ Men's Shirts: Back Darts

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

YUHO SEWING MACHINE CO., LTD.
since 1968
5-3-1 Biwajima, Nishi-ku, Nagoya, 451-0053
JAPAN
Tel: 052-522-6276
Fax: 052-531-9270
Email: yuho@yuhomac.com
URL: <http://www.yuhomac.com>



NC 2-Point Dart Seamer
(with 3 x Marking Lights & Auto Dart Length Measuring Tool)
Model U-4002-E



"Auto Dart Length Measuring Tool"
Optimal Solution for High-Mix, Low-Volume
Production Sites

Thanks to the NC (Numerical Control), the NC 2-point dart seamer can freely sew various darts, such as triangle, diamond, and trapezoid darts, within a maximum sewing length of 450 mm x depth of 20 mm without making or replacing custom gauges. The U-4002-E, the latest YUHO's NC 2-Point Dart Seamer model, now comes with an automatic dart length measuring tool. Move the positions of two marking lights (CENTER and RIGHT) left and right and align the projection pattern of each marking light with drill holes on the material to measure the dart length quickly and accurately instantly. It is the key to the optimal solution that is most suitable for production sites where sewing is done in small lots of a wide variety of products by switching between dart sewing specifications for various patterns without inputting numerical values or pre-memorizing and recalling pattern memories.





NC 2-Point Dart Seamer

(with 3 x Marking Lights & Auto Dart Length Measuring Tool)

Model U-4002-E



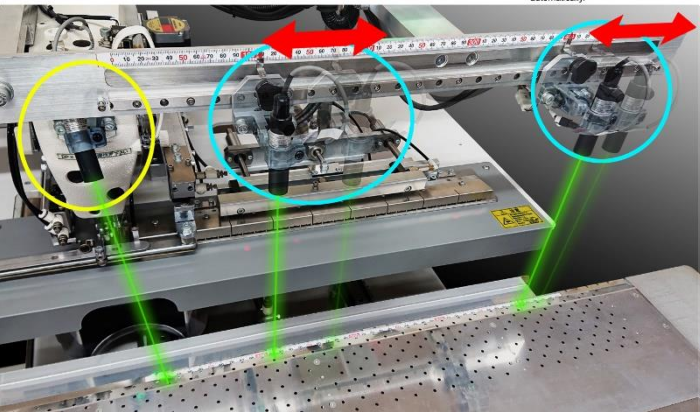
Best Solution for Today's Production Environment

Today, in production sites for dress shirts and blouses where darts are sewn, high-mix, low-volume production is standard, and with the spread of CAD/CAM, it has become commonplace to have a production environment in which not only the material is cut accurately, but also the dart dimensions are accurately specified using drill holes in the material. The new face of the NC 2-Point Dart Seamer, U-4002-E, is developed with today's production environment in mind. U-4002 eliminates the necessity to measure or enter numerical values for the length of darts. Instead, move the positions of two marking lights (CENTER & RIGHT) left and right to align each projection pattern with the drill holes of the MID point and END point. U-4002 immediately measures the distance from the "Zero" point to the MID and END points, and you can sew darts in a flash. *Note: When sewing the single-point darts, the CENTER marking light works for the END point, and the RIGHT marking light is not used.*

For "Zero" Point
LEFT Marking Light
(position must be fixed)

For MID Point
CENTER Marking Light
(movable to left and right)
*It works as the Marking Right for END Point,
in case of making Single-Point Darts.

For END Point
RIGHT Marking Light
(movable to left and right)
*When sewing single point darts, this
marking light is not used and turns off
automatically.



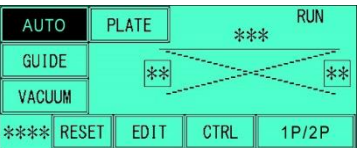
Instant Fine Adjustment with LCD Touchscreen



U-4002 can sew single-point darts (triangle darts) and double-point darts (trapezoid and diamond darts) freely within a maximum sewing length of 450 mm and depth of 20 mm using touchscreen operation without the need to produce or replace

physical gauges (custom-made for each dart pattern).

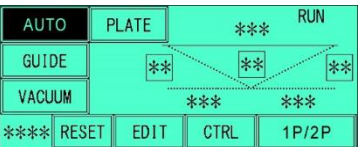
It is possible to add slight concave and convex curves to the dart line, and obtain an accurate "Zero" point using simple touchscreen operations without any mechanical adjustments. For example, the "Zero" point adjustment at the start of sewing due to differences in materials can be made in 0.1 mm increments, and for thick materials, the dimple erase settings can be performed for the left and right sides individually.



RUN screen for Single-point (Triangle) darts

Depth input column x 2

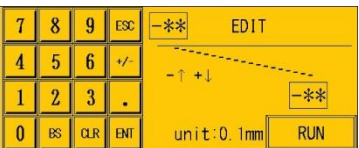
Dart length column x 1



RUN screen for Double-point (Diamond/Trapezoid) darts

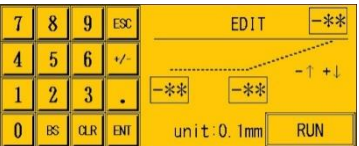
Depth input column x 3

Dart length column x 3



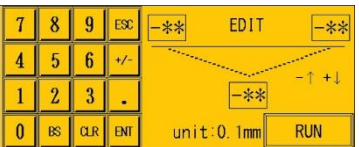
Triangle Darts Depth Edit Screen

*The image on the left is the edit screen for the left side.
The right-side edit screen is also available separately.

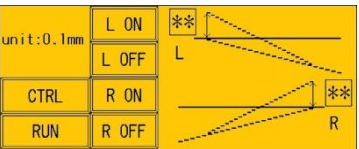


Trapezoid Darts Depth Edit Screen

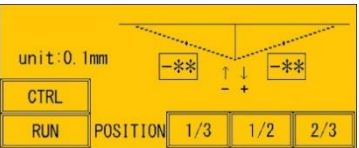
*The image on the left is the edit screen for the right side.
The left-side edit screen is also available separately.



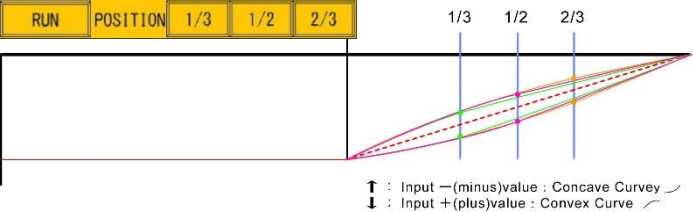
Diamond Darts Depth Edit Screen



Dimple Erase Edit Screen



Convex/Concave Curve Edit screen

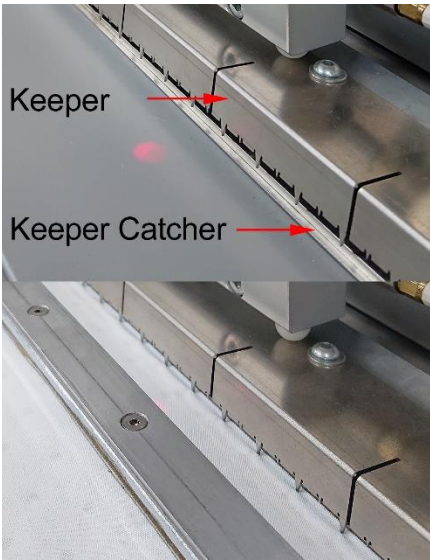


Thread Clamper for Trouble-Free Sewing

The U-4002 pulls thread and makes tension using the Thread Clamper to avoid troubles at the beginning of each seam line. This procedure is repeated at every single seam line, you are totally free from stitching troubles.



Keeper Holds Down Various Materials Securely



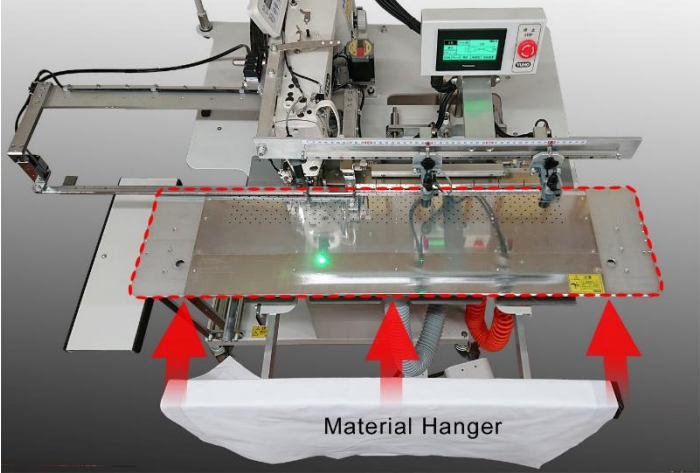
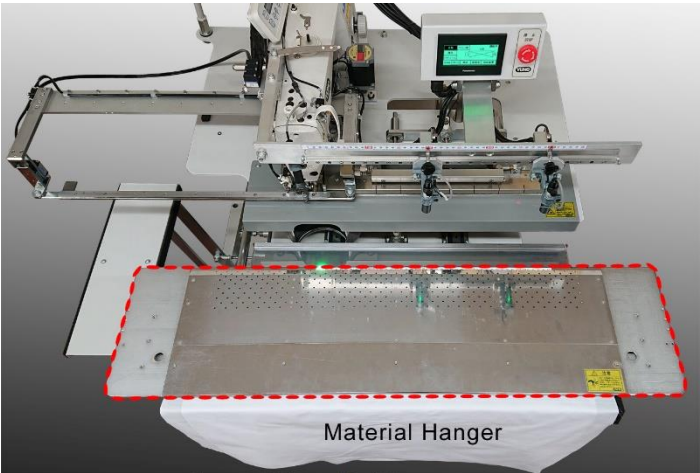
U-4002's keeper is made out of a single piece of a long metal plate; thus, the keeper's teeth are always kept aligned. Besides, thanks to the combination of keeper and keeper catcher, the U-4002 securely grabs various fabrics of varying thicknesses. A keeper catcher also helps prevent the keeper from making scratches with its teeth on the table's surface.

Powerful Vacuum Suction complete with Inverter

U-4002 allows users to load fabrics in the correct 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.

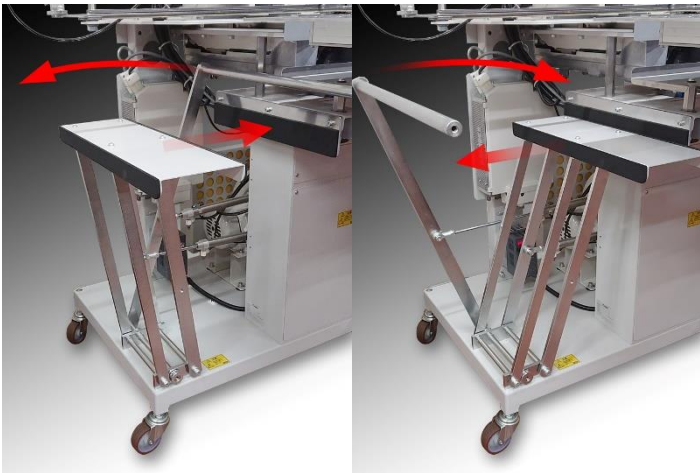


Material Hanger



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 sewing head, allowing sufficient space for the operators' hands when putting the bunch of materials.

Stacker Realizes Overlapping Workflow



You can choose between 1) activating the stacker at the end of dart sewing or 2) activating the stacker upon reaching the material to the left end. Coupled with the function of the turn-over bar, it realizes even longer materials to be stacked reliably. After loading the material, U-4002 performs dart sewing hands-free and automatically, making it easy for anyone to realize a highly efficient overlapping workflow.