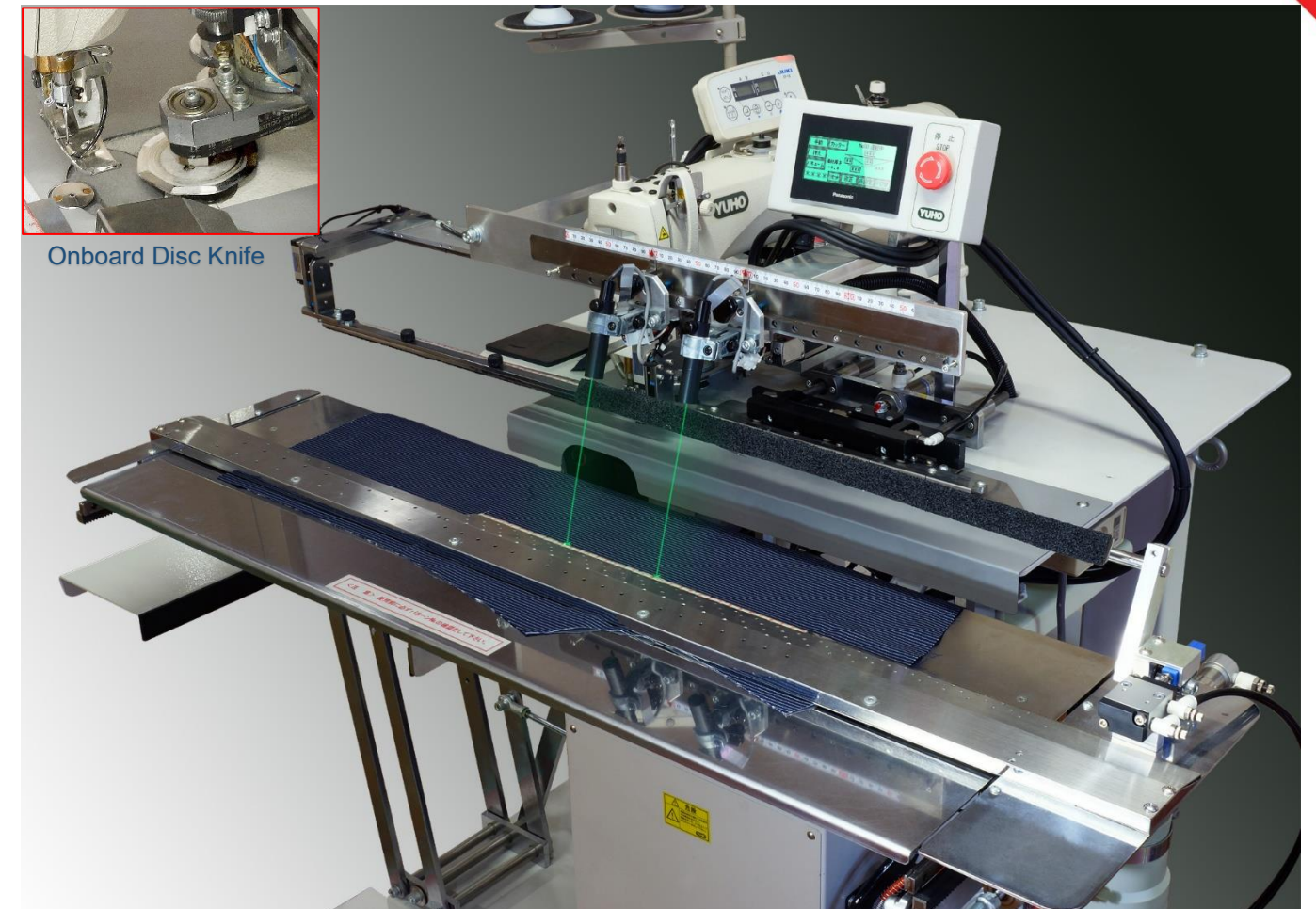
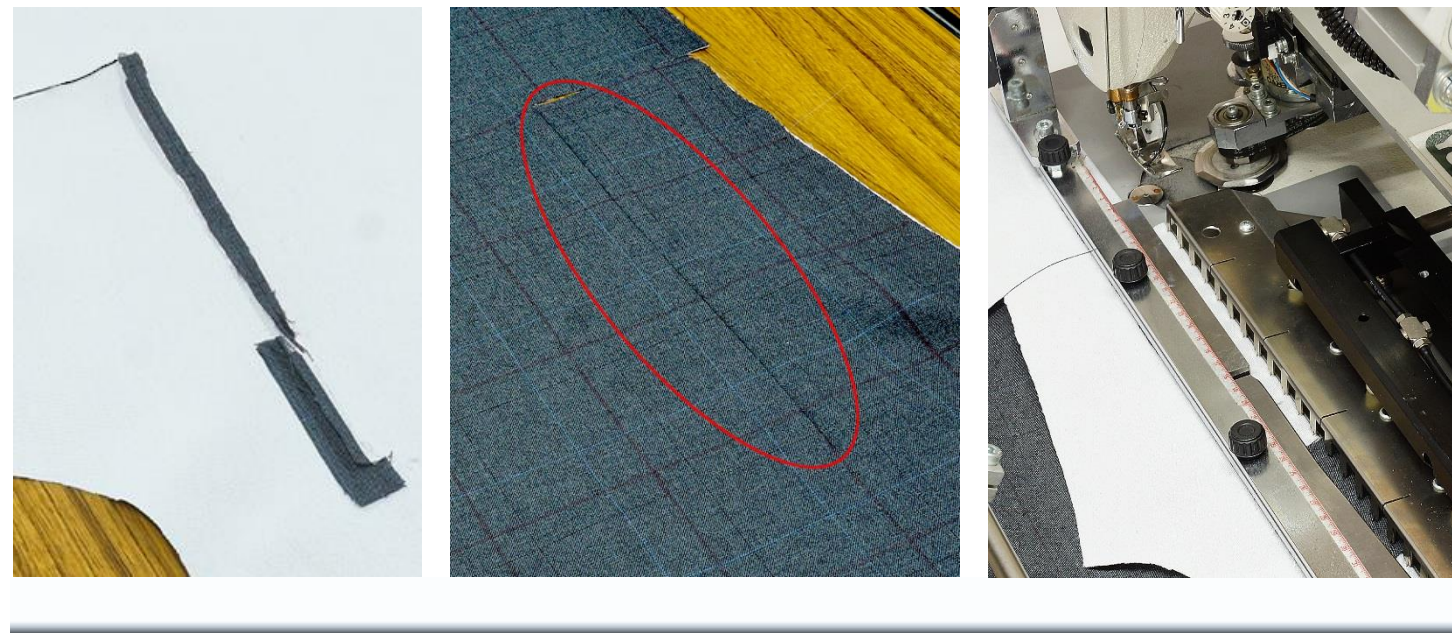


NC BREAST DART SEAMER
Surface-side Loading System with built-in Disc Knife
& Auto Dart Length Measuring Tool
Model U-4001-E/350



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Preliminary



Onboard Disc Knife

**As soon as the inventory of U-4001-E/350 equipped with DDL-9000B runs out, the sewing head will be changed to DDL-9000C.*

【 Specifications 】

- ★ Sewing Head JUKI DDL-9000C (1-needle lockstitch, direct-drive with thread trimmer)
- ★ Machine Speed Max. 4,500 rpm
- ★ Needle DB #14 (Nm 90)
- ★ Back Tack/ Sew Start: Back Tack
- ★ Condense Sew End: Condensed Stitch or Back Tack
- ★ Bobbin Winder Built-in on the sewing head
- ★ XY drive system Pulse motor
- ★ Max. Sewing Length 350 mm
- ★ Max. Darts Depth 12 mm
- ★ Plate Stroke 250 mm
- ★ Presser Pat Up/Down 20 mm
- ★ Disc Knife DC motor drive, 50φ disc knife
- ★ Display LCD Touchscreen
- ★ Table Height (mm) 940 mm
- ★ Power Supply 200 V / AC 700 VA
- ★ Air Supply 0.5 MPa, 20nl/min.
- ★ Dimension (mm) W 1,300 x D 1,100 x H 1,300

【 Configuration 】

- ★ Auto dart length measuring tool incl. 2 x marking lights
- ★ LCD touchscreen display
- ★ Large loading plate with vacuum suction and extra upper keeper
- ★ NC controlled XY drive
- ★ Disc knife with grinding stone
- ★ Auto cloth chips collector (with vacuum)
- ★ Disc knife front/back/up/down position adjuster
- ★ Table height up/down adjustment functionality
- ★ Blower motor with Inverter
- ★ Stacker with turn-over bar
- ★ Keeper with guide ruler
- ★ Thread Breakage Detector (T.B.D.)
- ★ Casters (front two wheels with brakes)
- ★ Air duster gun

【 DAILY OUTPUT 】

- ★ Breast darts 2,400 darts

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.

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

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YUHO SEWING MACHINE

Surface-Side Loading-Type Breast Dart Seamer with Disc Knife, Turbocharged with Auto Dart Length Measuring Tool

If the length of each jacket's chest dart differs, you can automatically set the sewing length of each dart by simply aligning the marking lights with the marking points on each material.

At the breast darts sewing process of men's jackets, thanks to its surface-side loading system, U-4001 allows operators to make matching plaids even with the fabrics of which plaid is not visible from the reverse side due to the fusible interlining covering opposite side of the material entirely.

Besides the super-precision darts sewing, using its built-in disc knife, U-4001 lets the darts cut open simultaneously until they are just 1 mm to the "zero" point. It drastically simplifies the seam opening process of breast darts.



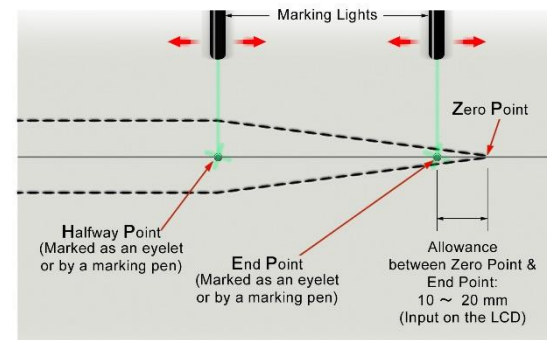
NC BREAST DART SEAMER

Surface-side Loading System with built-in Disc Knife & Auto Dart Length Measuring Tool

Model U-4001-E/350

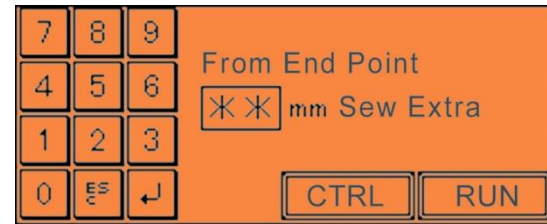


pocket, no marking light for the sewing start position is required.

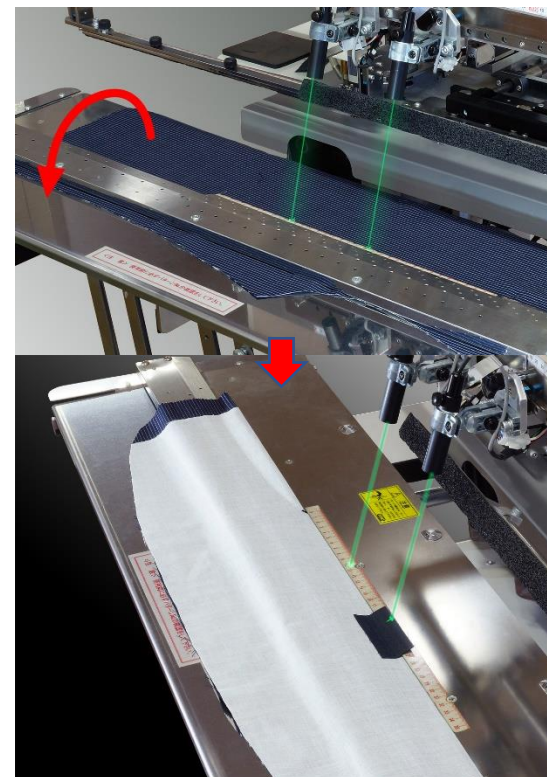


E.g., For a single-pointed trapezoid dart with a total length (from the opening of the waist pocket to the zero point) of 300 mm, the Halfway Point of 200 mm from the pocket opening, and the END Point of 290 mm from the pocket opening (10 mm allowance from the actual Zero Point). Both the Halfway Point and end point are marked with eyelets.

Firstly, input "10mm" on the End Point input page of the LCD, then the operator sews a dart with a total length of 300mm accurately by simply adjusting the positions of 2 x marking lights so that the projected cross marks are aligned with two eyelets, even without aware of actual dart length.



Plaid Matching And Adding Patch Capabilities

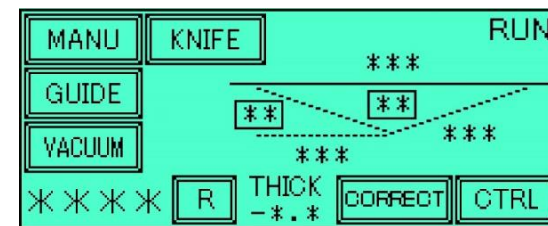


U-4001's surface-side loading system is the perfect solution for the demands of plaid matching on the materials with fusible interlining covering the

reverse side of fabric entirely. Regardless of the stripe or grid pattern, U-4001 allows operators to check and align the plaid precisely visually. Once the operator sets material along the ruler on the loading plate, U-4001 flips and folds the material automatically and accurately without generating misalignment. Besides, the upper keeper device securely supports the placement of patches. Simple operation and no need to attend the operator's hands at the process of feeding material to the needle; these are the massive benefit of this machine.

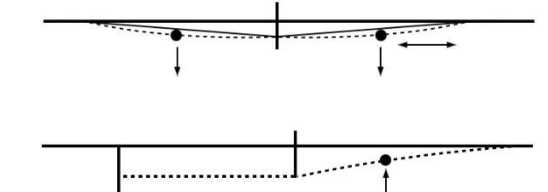
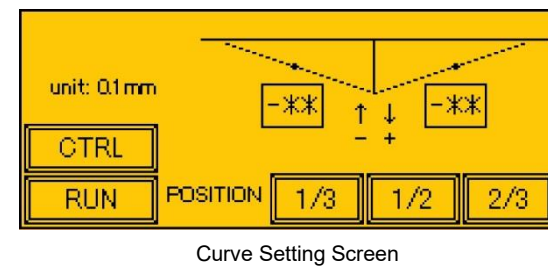
Accurate and sharp tip of a dart is realized thanks to the capability of delicate adjustment (in 0.1 mm) of dart setting in order to optimize sewing results, including a wide variety of materials with different thicknesses.

Wide Variety of Darts on Your Fingertip



U-4001 covers a wide range of dart sizes for jackets with various body sizes and shapes. The length of the dart is determined by an Auto Dart Length Measuring Tool, so numerical values are not needed; only the dart depth can be entered on the fly using the LCD touchscreen.

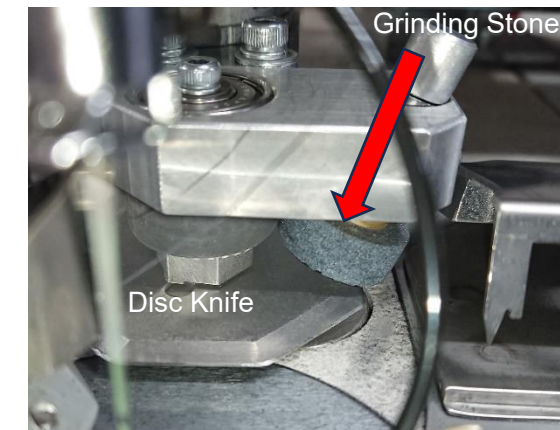
In terms of the double-pointed darts with a convex curve or single-pointed (trapezoid) darts with a concave curve, curved lines are adjustable as you like.



Disc Knife Cuts and Opens Darts

The fabrics with the attached interlining on the reverse side may cause extra thickness of darts, and therefore such darts are often requested to cut and create seam opening. U-4001's built-in disc knife is the ideal solution to realize 1) darts sewing and 2) darts cutting simultaneously. U-4001 can cut

darts till the position just 1mm to the "zero" point. Disc knife position can be precisely adjusted depending on the different thicknesses of respective materials or the required depth of seam opening.



The disc knife is made of high-speed steel, making it highly durable, easy to remove and polish, and, as standard, equipped with a grinding stone, allowing it to maintain its sharpness at all times.

Height Adjustable Table Top



The height and horizontal level of the top of the fabric setting table are adjustable instantly and precisely. This feature is advantageous for handling various materials with different thicknesses at the stage of setting materials between the loading plate and fabric setting table.

Keeper Securely Catches No Matter Whether Materials Are Thick or Thin

U-4001's Keeper unit, made of a single piece of leaf spring, precisely holds a very sharp tip of darts on the variety of materials with different thicknesses. An operator can choose whether to activate or deactivate the onboard disc knife depending on the situation in order to get the best results from breast darts, whether using thinner fabric without interlining or fabrics covered with interlining.

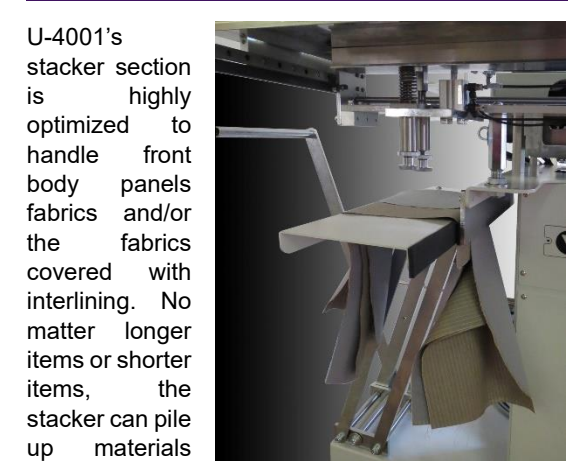
Optimized for Larger Materials

Corresponding to the market trends of expanding material sizes, U-4001 equips the enlarged loading

plate (with vacuum suction functionality) with a 900 mm x 80 mm dimension and a longer 250 mm forward/backward stroke. Consequently, the U-4001 can handle darts up to 350 mm in length and 12 mm in depth. Thanks to the powerful vacuum suction functionality on the loading plate together with the upper keeper, materials are securely transported to the needle. Once operators put fabrics and set the position, U-4001 manages everything, and there is no need for operators to attend to their hands.



Stacking Materials Smoothly



U-4001's stacker section is highly optimized to handle front body panels fabrics and/or the fabrics covered with interlining. No matter longer items or shorter items, the stacker can pile up materials neatly, thanks to the adjustment of the "Stacker Position" parameter on the LCD touchscreen. The automatic sewing process and the fabric loading process can be made simultaneously as overlapped workflow, resulting in a highly productive and efficient production environment.

The onboard computer with large memory capacity allows U-4001 to offer not only accurate sewing results but also a wide range of operational and maintenance functionalities. For example, U-4001 detects thread breakage, stops operation immediately as soon as it happens, and minimize material loss.

Hassle-Free Maintenance

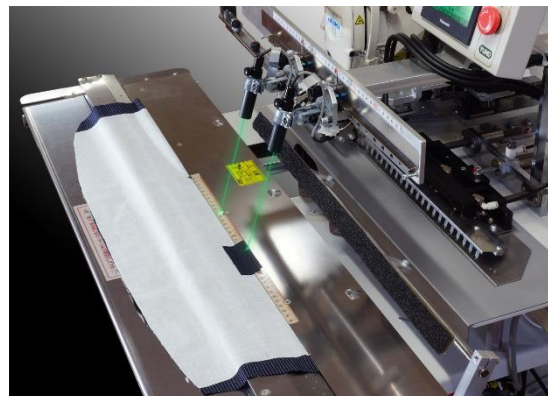
U-4001 was designed with close attention to the ease of maintenance, inspection, and repair. For example, its keeper and keeper catcher are detachable instantly, and its sewing head can be tilted with simple operation.

State-of-the-Art NC Dart Seamer

Unlike conventional dart sewing machines, which require dedicated gauges/guide rails, etc., U-4001's onboard computer calculates the angles and shapes of various darts just by inputting length and depth.

Especially for the breast darts, instead of the straight seam lines of darts on the conventional darts sewing machine, U-4001 can freely create convex curves and concave curves as you like. U-4001's operating system incorporates YUHO's unique technology which bends the seamline at the tip of darts, realizing the beautiful darts without causing dimples.

Groundbreaking Auto Dart Length Measuring Tool



When sewing darts for semi-custom-made jackets, each front panel has a breast dart of a different size and shape. U-4001 can manage variety of dart lengths one by one by simply aligning the projected cross marks of marking lights with the marks on each material (marked by eyelet or marking pen), indicating the dart's Halfway Point and the End Point. (Note: The depth of the darts must be set separately.) Since this machine sets the materials based on the pocket opening of the waist