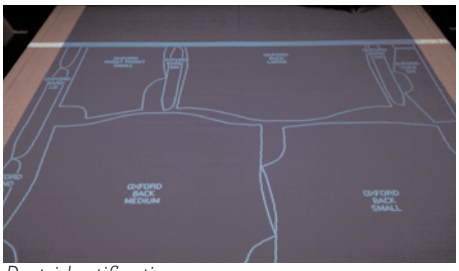
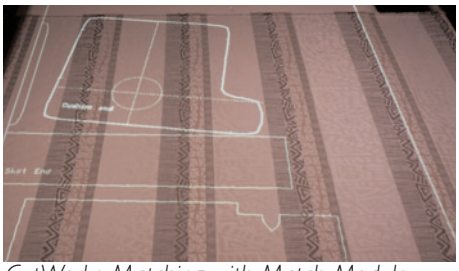
GERBERcutter® CutWorks™

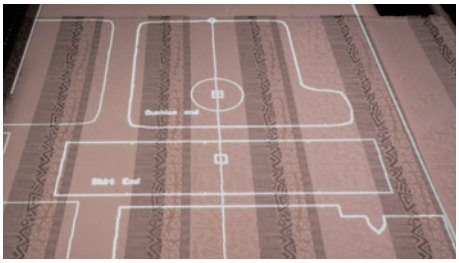
Matching and Identification Systems



Part identification



CutWorks Matching with Match Module



CutWorks Matching with MatchPro Module

Easy, accurate pattern matching and piece identification

Gerber Technology introduces three modules and a part identification system that are used to maximize the accuracy of fabric matching, minimize bow, skew and repeat irregularities, and simplify part identification. Comprised of advanced software and an overhead projection system, these are used after material is spread and before or after it is cut, and are options to all GERBERcutter® Single-Ply systems.

Textile irregularities and flaws are common in most materials, and pose a particular challenge to upholstery and apparel manufacturing, where matching is critical. The pattern matching modules provide solutions to these common problems.

Match Module — Using this module, you can perfectly align stripes, plaids, florals, and five-star fabrics. Move the projected images of the parts up, down, left, right, or slightly rotated until the desired location is reached. Match and cut almost simultaneously, or "on the fly."

MatchPro Module — This module may be added to the Match Module and provides the ability to distort parts and cut them to match the bow and skew inherent in the fabric.

ManualNest Module— You can move individual parts around on the table or mix parts from several different jobs together, to create your own nests. Move parts to avoid flaws in the material or nest on fabric remnants or other irregular-shaped goods.

Part Identification System — Identify cut pieces as they are removed from the cutter. The overhead projector projects part outline and annotation directly onto the fabric, making it easy for the operator to identify parts and place them in the correct bins for assembly.

Matching and Identification Systems

Product Descriptions

Video Projectors

There are two optional video projectors for use on cutting systems. One projector, located at the loading end of the machine, is used for fabric matching, and the other projector, located at the unload end of the machine, is used for Part Identification.

CutWorks Matching with Match & MatchPro Modules

Match & MatchPro Modules can be used on Gerber's Single-Ply DCS 3500 conveyorized cutter that has an infeed projector and an auxiliary control system (trackball). Using the overhead projector, a match point (with crosshair) and outline of each part to be cut is projected directly onto the fabric as it is spread on the cutting surface. The operator uses a computer trackball (similar to a mouse) to move the projected image of a pattern piece to align with the match point on the fabric. The part can be rotated to ensure precise matching to bowed or skewed stripes or plaids. The Match module lets you match "on the fly," which means you can match and cut almost simultaneously. This is a great time-saver, because you do not have to match the entire marker before you start to cut. The MatchPro Module adds the ability to distort parts to match them to the bow and skew in the fabric.

ManualNest Module

This module may be used on Gerber's Single-Ply cutting systems. The ManualNest Module features: overlap detection; bumping parts up, down, left, or right; shooting parts at an arbitrary angle; arraying parts in a grid; and rotating parts to 0, 90, 180, 270 degrees, or any other angle. On a standalone computer, the ManualNest Module allows users to generate nests of parts from their own designs created from off-the-shelf design packages. Users may also move individual parts in a job, mix parts from several different jobs together, or manually nest around flaws (as on leather or irregular-shaped goods).

Part Identification System

The Part Identification System uses the video projector to project an image of the perimeter of the cut parts and annotation text onto the parts as they are moved into the unloading area of the conveyor. Each piece in the marker or nest is identified with a numerical or text annotation. The annotation and shape are clearly identified as the operator picks each piece. This helps the unloader to visually identify each piece and place it in the correct bin for assembly. Using this system, parts can be cut and labeled continuously. The annotation feature can be turned off when it is not needed.

This method of piece identification is an inexpensive and easy way to ensure cut parts are accurately identified. Since an overhead light projection system is used, no inks, dyes, or adhesive labels are needed, thus avoiding fabric damage, and streamlining the process.

Projection Area

DCS 3500: 1.8 m x 1.35 m (72 in. x 54 in.)
DCS 1500: 1.78 m x 1.31 m (71 in. x 52.5 in.)

Required height from floor to ceiling:

3.66 m (12 feet)

Specifications are subject to change without notice.

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