

DEMATRON



The Dematron DX-5000 delivers the latest Japanese technology for high-output productions with the lowest operating cost. Leading the industry in precision cutting, standard features and energy efficiency.



About

Dematron Automation is the leading provider of CNC fabric cutting equipment and software solutions for the apparel and composite industry. We specialize in optimizing cutting rooms in the United States and abroad. Our competitive advantage is unique turn-key solutions that increase productivity and lower labor cost. Our machine is not built for residual income but is engineered to give the consumer the freedom from expensive service plans and high operational cost. The Dematron DX-5000 is a precision cutting system that is built and designed by one of the most prestigious engineering companies in the world. With a 70 year record of excellence and cutting edge technology--the Dematron DX series offers you the freedom you deserve.

- Increased Productivity
- Reduced Labor Costs
- Improved Cut Quality and Consistency
- Energy Efficient

Features

Designed with the latest technology and highest quality components, the Dematron DX-5000 is equipped with:

- Simultaneous Cut and Feed Technology
- Variable Vacuum
- Vacuum Resealing
- Servo Driven Sharpening System
- Blade Scanning Module
- Blade Cooling Mechanism
- Marking Drill
- Network Compatibility
- Marker Edit Software
- Automatic Bristle Cleaner
- Low Decibel Vacuum
- Self Diagnostic System
- Remote Access

Simultaneous Cut and Feed Technology

Our exclusive continuous cutting while conveying Technology was developed by incorporating forefront Japanese engineering, a product of 70 plus years of experience. Unrivaled, the DX-5000 operates a non-stop production cycle, exponentially increasing your production and profits.

Conveyorized Bed

The fully conveyorized DX-5000 assures continuous high-production workflow, seamlessly synchronizing the cutting, sorting and off-loading of cut materials.

Intuitive Cut Control Software

Designed to be easy but versatile, our cut-control software makes loading cut patterns imple without having to reopen another window. With over 400 same-screen parameter settings, all accessible through shortcuts, this sophisticated software is perfect for any design; simple or complex.

Marker Edit Software

This highly efficient feature allows the user to make instant modifications without having to completely redesign the cut pattern. This ensure not only the quality of cuts but also the efficiency.

Blade Cooling Mechanism

The blade cooling mechanism prevents melting of composite-type materials resulting in an increase of speed and production. An essential feature when cutting materials such as nylon, plastics, carbon fiber and other composites.

Blade Scanning Module

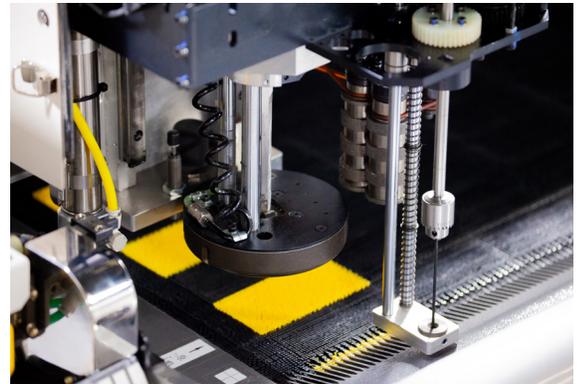
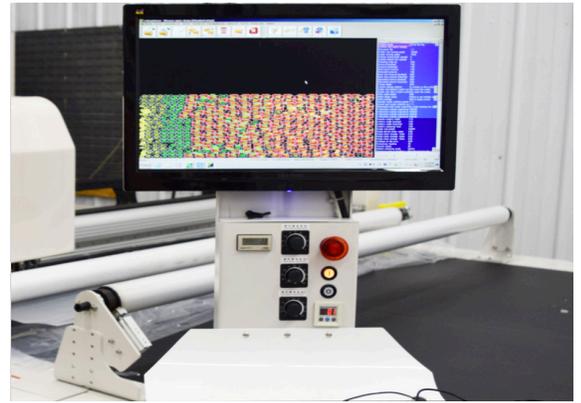
This unique feature scans the blade in real-time to capture actual blade size after the sharpening process. Those measurements then get exposed into the cut control software calculating for any needed compensation due to altered dimensions. Using the actual measurments of the blade ensure that every cut piece or fabric notch will yield perfection.

Variable Vacuum

The variable vacuum delivers the flexibility needed to control the quality of cuts when handling composites and soft goods. The DX-5000 is in full contorl to handle any type of material.

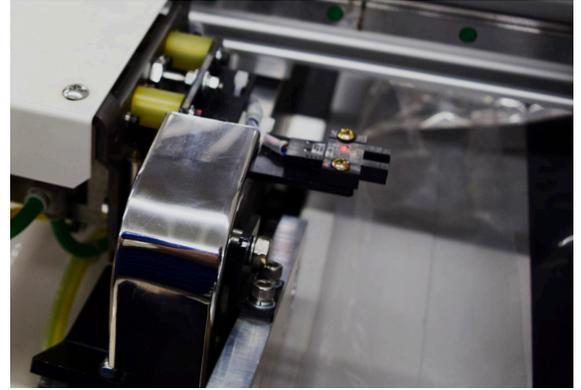
Vacuum Resealing

The DX-5000 is equipped with a vacuum recovery system, which is designed to reseal previously cut areas. This unique feature minimizes the loss of vacuum and improves cut quality.



**Servo Driven
Sharpening System**

Our diamond-plated sharpening system simultaneously sharpens both sides of the blade creating the ultimate cutting edge. This unique design guarantees perfect notches and quality cut pieces.



Blade Scanning Module

This unique feature scans the blade in real-time to capture blade size after the sharpening. Those measurements are relayed to the cut control software calculating necessary compensation. Utilizing accurate measurements of the blade to ensure that every cut piece or fabric notch will yield perfection.

Safety Sensors

With safety as top priority, all Dematron machines are uniquely designed with hi-tech safety sensors to establish a safe and high production work environment.

Marking Drill

Equipped with one cloth drill, the DX-5000 comes preconfigured for two additional standard or heavy duty punch drills used for tough composites.

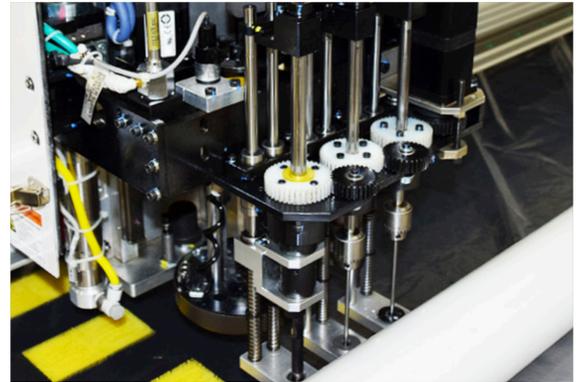


Network Compatibility

Ability to create orders and send directly to the cutting system allowing for an easy and efficient work flow.

**Automatic Bristle
Cleaner**

Ensures the longevity of the DX-5000 by maintaining maximum functionality. Cleaning itself of debris while operating and minimizing maintenance.



Low Decibel Vacuum

The DX-5000 was engineered to function at a significantly reduced noise level providing a more quiet and functional work environment.

Energy Efficient

Equipped with cutting edge features the DX-5000 still manages to function on a low consumption of power resulting in lower cost.

Self Diagnostics

Self generated reports ensuring the detection of any malfunction, and making it easy to maintain the machine at it's highest functioning ability.

Remote Access

The DX-5000 is equipped with remote access capability for technical assistance and support from US based Dematron Support Team.



Equipment Requirements



CUTTING AREA

Length

1.7 m (69.6")

Height

5 cm (2")

Width

2 m (78.7")

CUTTING SPEED AND METHOD

Speed

Max 45m/min
(Mechanical 60m/min)

Method

Reciprocating

AIR & ELECTRICAL

Air

0.5 MP

Power

380V/3P 50 hz/60 hz

Consumption

Max 38 KVA (25 KW).02

DIMENSIONS

Length

5020 mm (198")

Width

2830 mm (112")

Height

1570 mm (62")



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