

## The new generation of industry 4.0 sewing system for digital printing.

**CRONOS 4.0** has been developed with focus on enhancing the functions of industry 4.0, to further improve the efficiency of the production flow and the quality of your backlits, flags, displays, banners, etc.

With CRONOS 4.0, you can easily achieve production traceability, remote control of operations, and get remote support from Matic.

The sewing program and settings will automatically be loaded by reading a QR code with the help of the integrated QR code reader, without the intervention of the operator.

It is easy to use and fast, reducing manufacturing time and increasing your productivity, without the need for an expert operator, always obtaining the highest quality.

It achieves high-quality flat seams for keder, hem, double hem, fastener tapes, and many other applications. The guides are customized for your applications, adapting the machine to your usual production.

## TECHNICAL SPECIFICATIONS

- Double needle sewing head
- Conveyor belt is synchronized with the sewing speed
- Adherent conveyor belt
- Industry 4.0
- Internet connection with Wi-Fi or LAN
- Operation modes: manual, semi-automatic and full-automatic.
- Machine length 2500mm (98")\*\*
- Machine width 1700mm (67")\*\*
- Machine height 1650mm (65")\*\*
- Weight 150kg (330lbs)\*\*
- Electrical Voltage (EU/US) 220V F+N // 50-60Hz
- Air Pressure 5-6 bar
- Complies with CE Safety regulations.

\*\*Precise measures are calculated with the metric system. Imperial is given only as a reference.

## FEATURES

- QR code reader
- 7" touch screen control panel
- Remote support via Internet, Wi-Fi or LAN connection
- Traceability and data reporting
- Production work status
- Fast and easy change of sewing guides - no tools needed
- Remaining bobbin thread control
- Automatic return of the fabric
- Illumination of the sewing area by LED
- Hook and Loop Fastener motorized unwinding system\*
- Touch screen control panel
- Possibility to lock the conveyor belt to facilitate curved seams
- Additional pedal to move the conveyor belt independently from the sewing head
- Tilt table to adapt to existing working tables
- Rear driven roller - to help guide and track long and heavy fabrics
- Tension free feeding of the flat profile programmable (SEG, keder, gasket)
- Hands-free device
- Electronic and programmable thread tension device
- Speed reduction sensor to detect the end of fabric
- Flat profile cutter sensor integrated in guide for better accuracy - keder cut
- Automatic advancement of the flat profile
- Puller device
- Box to prevent the fabric from touching the floor
- Bobbin and guide storage
- Drawer under the conveyor belt for easy access to storage
- Needle cooling
- Maintenance notice

\*Optional

## ADVANTAGES

- QR code reader: the information contained in the QR code (Manufacturing order, Item, and article) ensures the traceability of the product
- QR code contains information on the program and settings that must be used to sew the application, thread tension, keder tension - avoiding errors and / or quality problems
- Ergonomic 7" colour touch screen with adjustable positions according to the operator's stance
- Remote access to the software through Wi-Fi or LAN connection, for programming, production data etc.
- Traceability: Data and production history (Manufacturing orders, items, articles, operators, programs, etc.) are recorded in the machine. These data can be exported to Excel for analysis and / or integrated into your ERP
- Remote support: Matic engineers can connect to the machine remotely to resolve software incidents or production incidents
- Keder sewing with maximum precision, thanks to the electronically controlled pneumatic tensioner, it adjusts the tensions individually for each of the side of the fabric, allowing adjustments for the stretch level in each direction.
- Guides are custom built for each application - will adapt to your existing production
- From the Basic configuration add only the options related to your type of production or for various applications
- Fabric will return automatically on top of the conveyor belt when sewing reaches the end of the fabric - Faster production, less involvement from the operator
- The conveyor belt is made of an adherent material to avoid soft fabrics from slipping off, and to be able to pick up heavier fabrics
- Quick and easy changes of the application modes from the touch screen panel
- Flag mode - programmable sewing intervals