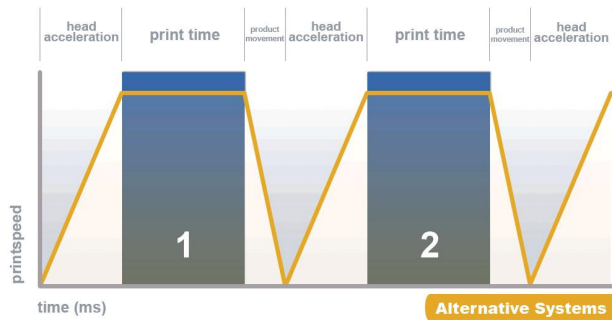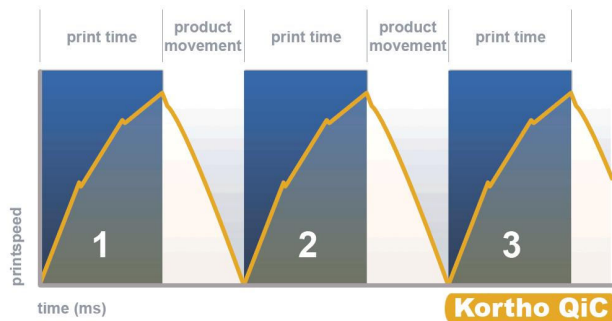# Kortho QiC Thermal Transfer printers

QiC Simplicity

The **Kortho QiC 30i** Thermal Transfer printer offers a state-of-the-art coding system with a lot of functions and features. It is operator friendly and easy-to-use.

This sophisticated printer boasts many new features which get the most out of your production process. The printer is easy to use and reliable due to the benefits of the *Linear Control System* and the *Dynamic Monitoring System*.

In addition a *Health Check indicator* gives the operator clear information about the maintenance status of the printer.

Kortho Coding & Marking, the reliable supplier of high-quality equipment has brought 50 years of experience together in a new printer line.

Printing with 'common sense'. When simplicity meets performance and results in an unique printer. Reliability in combination with maximum performance for a wide range of printing applications.

QiC Performance

With the boost in torque offered by the powerful pneumatic drive, sophisticated electronics and firmware, it is possible to reduce the print cycle time significantly.

As the actual printing of information can start earlier, the print cycle is reduced resulting in higher productivity, more prints and up-time. This compared with thermal transfer printers fitted with stepper motors!

In particular machines with short stop intervals, such as labelers, will benefit from the QiC printer.

QiC Productivity

The Kortho QiC Thermal Transfer printer, a quality printer with clear advantages:

QiC **Powerful pneumatic drive...**
Less wear, dependable operation and lower costs.

QiC **Sophisticated electronics and firmware**
Higher productivity through faster print-cycles resulting in more up-time.

QiC **Linear Control System...**
Always printing at the correct height and exact shape controlled by patented LCS printhead monitoring technology.

QiC **Dynamic Monitoring System...**
Automatic adjustments to ensure optimum performance and print quality by constantly monitoring all the relevant parameters for the QiC-printer.

QiC **Health Check function...**
At a single glance knowing the overall printer 'health status'.

QiC Linear Control System(LCS)

QiC printers feature the patented LCS technology to constantly monitor the position for the printhead and synchronise the print to be produced precisely and accurately along the length of the label format.

Barcodes rely upon accurate spatial positioning where the width of a single bar and it's distance from it's neighbour are crucial elements when later scanned. Similarly, image detection systems work best with characters that are the correct height and exact shape.

3945	✓
10,2009	✓
10,2010	✓
QiC - Printer	
3945	✓
10,2009	✗
10,2010	✓
Printer without LCS	

The LCS featured in the QiC coders ensures the highest quality of print to be constantly produced; even as the system naturally wears over time. The LCS automatically detects the need for servicing as it works harder, and provides ample notice to schedule appropriate routine maintenance without loss of production.

QiC TsC 8 Flexibility

Driven by the 3.2" colour touch screen controller, the operator can easily see the printer status at a glance. The integrated QiC Control software ensures a simple and reliable operation.

Labels created in QicDraw can be selected on a SD-card and placed into SD-card slot at the frontside.

QiC Dynamic Monitoring System(DMS)

Thermal Transfer coding and marking devices are complex systems using a combination of sofware, electronics and mechanics. Over time the mechanical systems wear and the electronics' age will ultimately lead to failure. The QiC series of the Thermal Transfer printers incorporate a 'Dynamic Monitoring System' (DMS) to constantly check the critical elements of the device and analyse system performance and condition.

The areas monitored include:

- Voltage rails and power distribution circuits
- Air pressures, flow rates and pneumatic seals
- Mechanical surface and bearing friction
- Internal temperatures
- Usage

All these measurements and parameters are brought together in real-time by the powerful state-of-the-art Digital Signal Processor (DSP) within the printer. The DSP analyses the continuous stream of data and assesses the overall condition of the system and automatically adjusts the printer to maintain the print quality at highest level.

QiC's unique Healthcheck

Coding and marking devices are commonly only part of the whole production process. Yet when they fail, the production is likely to be affected if not stopped, as packages are either coded incorrectly or lack any mark at all.

Simple and clear monitoring:
The many measurements and parameters monitored by the DMS and LCS are brought together and presented on a simple Health Check Indicator.

System works well

Service needed, no immediate need to stop

Service needed, printquality and performance likely to be affected

QiC Design: functionality + less electronics = more reliability!

kortho
The mark of preference

Dimensions

195 mm
152 mm
150 mm

186 mm
100 mm
230 mm

Performance

- Unique pneumatic ribbon and print drive
- Robust mechanical design
- Easy and quick ribbon change

Printer dimensions	**152** mm (W), **195** mm (H), **150** mm (D)
Print area	**53** mm (W) x **30** mm (L)
Ribbon width	**55** mm
Maximum ribbon capacity	**450** metres
Print speed *	**50** mm/sec - **500** mm/sec (controlled automatically)
Cable length between printer and controller	**1,5** metres
Prints per min (10 mm print)	350
Prints per min (30 mm print)	180

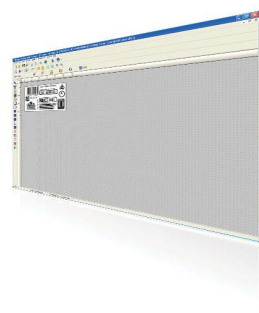* Depending on application / labelsize

General features

- 3.2" Palm PDA with SD Card-slot
- WYSIWYG print preview
- 300 dpi print resolution (12 dots/mm)
- 2 levels of password protection
- On-board diagnostics
- SD Card
- Robust mechanical design
- Optimized ribbon usage

Connection/interfacing

- Optically isolated inputs: Print request and Trigger
- Optically isolated outputs: Low foil, General error and Busy
- Serial port 115200 baud
- Ethernet 10/100 Mbps
- SD Card support
- Requirements: Electrical: 90-132VAC / 180-264VAC, 47-63Hz. Air: 4 bar clean and dry air

Programming and printing facilities

- Full downloadable font support for Windows TrueType
- Fixed and variable text fields
- Autocode Fields - date, time, shift codes, triggered sequential counters, offsets, day code
- Graphic/Images-Text-Static, variable
- Flexible date/time formats
- Field orientation 0°, 90°, 180°, 270°
- Mirror image printing, image rotation
- Auto best before date calculation
- Scaleable text including rotation, mirror and inverse printing
- Graphic formats: JPG, JPEG and BMP. Automatic colour to B/W conversion.
- 76 Supported barcode types
- QiCDraw Software - supports English, French, German, Dutch, Spanish, more available on request
- Auto incrementing/decrementing counters
- Basic shape drawing

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