Distinctly Different Digital



THERMAL TRANSFER PRINTERS

SLIMLINE: SAVE UPTO 50% ON EQUIPMENT COSTS

SMART, OMNICOMPATIBLE & 100% INDUSTRY READY

OPTIMAL PRINT QUALITY UNDER ANY CONDITION

1800M OF RIBBON & BULLETPROOF RELAIBILITY INDUSTRY 4.0 IS NOW A TURN-KE AVAILABLE COMMODITY!

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CONTROL CENTER

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NiceLabel

1.800

autonomous® **TI SERIES**

HIGHLIGHTS

THERMAL TRANSFER PRINTERS

MADE IN HOLLAND

Kortho was founded in Amsterdam in 1926 and is still a Dutch family owned business today. The TT-Series is our third generation TTO and, like all our printers, 100% made in Holland.

1.800 METER RIBBON

Patented **SMARTFORCE™** technology actively regulates ribbon tension. Avoiding all ribbon related problems, but also allowing for the longest ribbon on the market.

ULTRASONIC INDEXING

Real-time ultrasonic ribbon indexing offers extreme ribbon transport accuracy and foolproof reliability by no longer needing the use of moving (encoder) parts.

SMALLEST RIBBON GAP

Ribbon waste gap in between prints is kept on a constant value no wider than 0,5mm on average. Optimizing ribbon consumption by minimizing waste.

RIBBON SAVE FUNCTIONS

*Multiple ribbon save functions for continuous and intermittent operation. Including shift print, radial, interleaved and slip printing.

BEST SUBSTRATE CONTACT

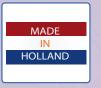
Patented SMARTFORCE™ technology actively regulates the pressure of the printhead onto the substrate. Ensuring an optimal substrate contact and print quality at all times.

EXTREMELY FORGIVING

Automatic printhead positioning sets the printhead in optimal position in relation to the substrate. Making the printer extremely forgiving to changing conditions.

LONGEST PRINTHEAD LIFE

Printhead is kept on operating temperature mechanically without dotline activation. Extending its lifespan drastically and producing perfect prints in cold or moist environments.





















C & i WITH SAME PRINTER

Printhead orientation can be easily changed so that next to Intermittent the printer can also print Continuous Left and Right handed, making it suited for all applications.

PRINT TO ZERO FUNCTION

*Print to zero underspeed safeguard prevent bad prints or burning through the ribbon when product transport speed becomes too low.

NO AIR FEED NEEDED

100% electric operation so no compressed air is needed anymore. Enabling a quick and easy installation, but also maximum reliability by not depending on air quality.

SAVE ON CONTROLLERS

Built according to **SLIMLINE™** Smart, Less Is More philosophy. Save costs on controllers by operating multiple printers from one single terminal. Maximizing central control benefits.

LED-STRIP SIGNALING

Printer integrated dual RGB LED strips and full color status screen facilitates the use without (nearby) HMI, but also avoids the need for additional signaling equipment.

KORTHO CONTROL CENTER GUI

Operated with Kortho Control Center (KCC) software. Free and very complete platform designed to make Industry 4.0 coding easy and quick to implement. See separate KCC leaflet for details.

100% INDUSTRY 4.0 READY

Open platform and Windows native OS. Especially designed for extended communication options with third party software. Including Windows generic network driver and 350+ commands protocol.

REMOTE DIAGNOSTICS

Full printer diagnostics including real-time scope traces of the physical status, position, speed and trajectory of all internal wearing and moving parts.

*yet to be established or unlocked with future firmware releases











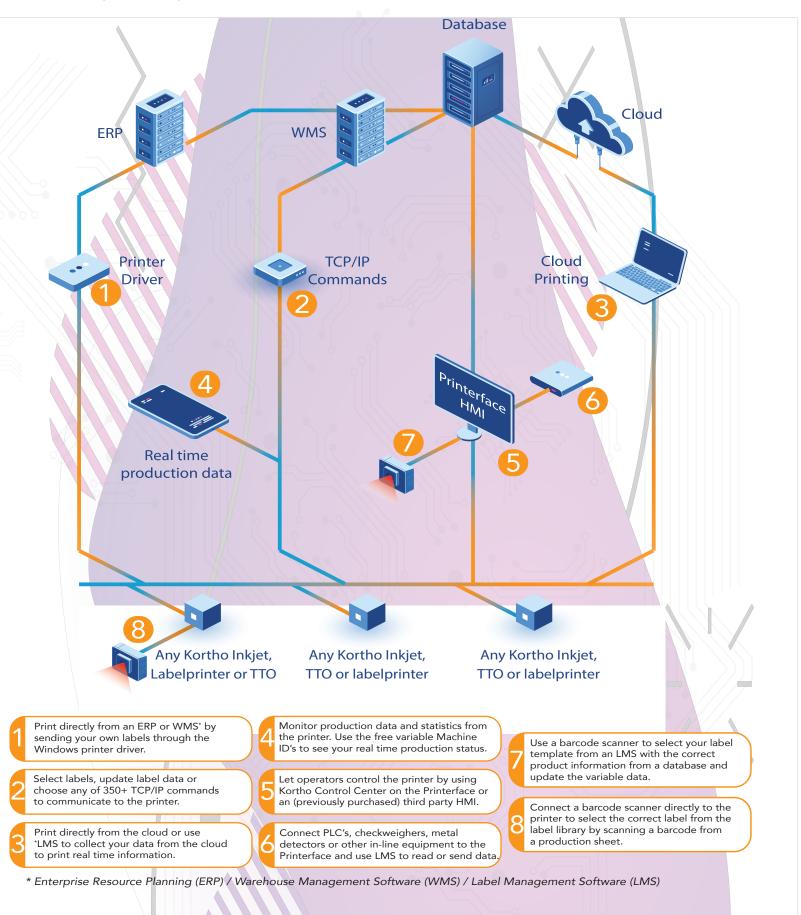
SLIMLINE CONCEPT

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COMMUNICATION AND NETWORKING

THERMAL TRANSFER PRINTERS





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TECHNICAL SPECIFICATIONS

THERMAL TRANSFER PRINTERS

		TT-32	TT-53	TT-107
	Max. print area I-mode	32 x 60 mm	53 x 95 mm	107 x 95 mm
	Max. print speed I-mode	*t.b.e.	280 ppm @3 mm label	*t.b.e.
		*t.b.e.	70 ppm @95 mm label	*t.b.e.
Printing	Min. print speed I-mode		print to Ø	
Li I	Max. print area C-mode	32 x 60 mm	53 x 200 mm	107 x 200 mm
	Max. print speed C-mode	*t.b.e.	*t.b.e.	*t.b.e.
	Min. print speed C-mode	*t.b.e.	*t.b.e.	*t.b.e.
	Resolution	300 DPI	300 DPI	300 DPI
	Printunit dimensions (WxHxD)	*t.b.e.	294 x 195 x 248 mm	*t.b.e.
	Printunit weight	*t.b.e.	10,2 kg	*t.b.e.
	Power supply dimensions (WxHxD)	183 x 183 x 75 mm		
	Power supply weight		1,2 kg	
	Print modes	Intermittent and Continuous L & R in any orientation (omnidirectional)		
	Connectors	Free configurable I/O port - Ethernet - USB - Power - Encoder		
Ca	Power supply	External IP-67, 230V AC main cable 300 cm, 42V DC main cable 500 cm		
Physical	Air supply	None needed		
<u>ि</u> द	Signaling	Integrated full color status display and dual RGB LED strip beacons		
	Ribbon system	Cassette based system with simple 2 axle ribbon trajectory		
	Ribbon indexing	Real-time indexing through ultrasonic sensors		
	Printhead preheat	Printhead is kept on operating temperature with external heating element		
	Printhead pressure	SMARTFORCE keeps the printhead pressure on a exact value while printing		
$\mathbb{N}^{\mathbb{N}}$	SLIMLIME concept	No controller needed, operation from any Windows (10+) system		
Material Stainless steel and aluminur		am		
	Ribbon length	1.000 m	1.800 m	1.800 m
es	Ribbon width	35 mm	55 mm	110 mm
de	M2 on roll	35 m2	99 m2	198 m2
m	Compounds	Standard (4.5 μ wax) - Premium (4 μ wax/resin) - Excellence (4 μ resin)		
Consumables	Ribbon print gap	< 0.5 mm consistent		
Ŭ	Ribbon save functions	Standard*		
	Core material	Plastic without notches - Extra core included with each ribbon		
	Kortho HMI/GUI**	See separate KCC leaflet for label design and (printer) control functions		
M		Any Windows based LMS - Nicelabel, Bartender or other		
	ERP direct	Direct printer control through ERP output files - SAP, Navision or other		
	Wired communication	Ethernet - I/O - USB		
smo	Wireless communication	Bluetooth - RFID		
ပိ		Escape protocol - Communication Protocol with 350+ commands		
	Driver	Generic Windows network driver		
	Kortho Printerface IoT	Optional: Kortho Branded Windows 10 Industrial tablet + bracket		
	Ethernet cable	Industrial ethernet cable 5 meters + M12/RJ45 coupling		
	Ethernet Switch	Fast ethernet switch 16 ports		
ies	I/O cable	I/O cable 5 meters		
Accessoiries	Encoder	Pulse encoder - can be mounted on Kortho bracket		
ess	Universal bracket	770mm x 440mm x 310mm - can be cut to size on location-		
A C C		bracket is suitable for I and C applications		
	Pressure roller kit Combine with universal bracket for continuous applications			
	Pressure platen kit	Combine with universal bracket for intermittent applications		
	Bracket cutting kit	Set to cut bracket to size on location without the need of power tools		
1	Custom bracket size	Available on request		

LMS = Label Management Software, HMI = Human Machine Interface, GUI = Graphical User Interface

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Lageweg 39 NL-2222AG Katwijk T: + 31 (0) 71 40 60 470 www.kortho.com E: export@kortho.nl

CONTROL

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CONCEPT

Digital Next Gen Part of the DIT group of companies 1&2, 74 Mason Street Campbellfield, Victoria, 3061 Australia Tele: +61393575533 Email:dit1161@me.com

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