



KONICA MINOLTA

PRODUCT GUIDE

PKG-1300



Internal use only – Content shows company confidential information!

CONTENT

Content.....	3
Product Basics	4
PKG-1300 Specifications – I.....	5
PKG-1300 Specifications – II.....	6
PKG-1300 Specifications – III.....	7
Consumables & Starter Kit	8
Article Numbers – I.....	9
Article Numbers – II.....	10
Space Requirements	11
Crate/Pallet Dimensions – I.....	12
Crate/Pallet Dimensions – II.....	13
Safety Documentation – I.....	14
Safety Documentation – II.....	15
Name Plate with CE Mark	16
IMPORTANT: Delivery Address on your Sales Orders.....	16
Main Applications of PKG-1300	17
Recommended Parts	18
Service & Support	19
Other Technical Information	20
Ergosoft RIP Information.....	21
Change Log	22
Notes	23

PRODUCT BASICS

Product Basics PKG-1300	
Model Name	PKG-1300
MTEX NS own name	NS Multi 1300
Estimated Sales Start	October/November 2022
Type	Inkjet (water-based pigment ink)
Description	Inkjet Digital Corrugated Printer
Colors	CMYK
Method	Single-pass inkjet (5 print heads)
Inkjet Print Heads	HP (PageWide)
Maximum Monthly Print Volume	n/a
Average Monthly Print Volume	n/a
Machine Life	n/a
Safety and Environment	Declaration of Conformity according to 2006/42/EC (Machinery Directive), Safety Data Sheets for ink
Temperature/Humidity	
Temperature	20 °C to 30 °C
Humidity	50 % to 70 % rel. humidity (non-condensing)
► Check out this video on YouTube: https://youtu.be/M0bL1ia_8xo 	

PKG-1300 SPECIFICATIONS – I

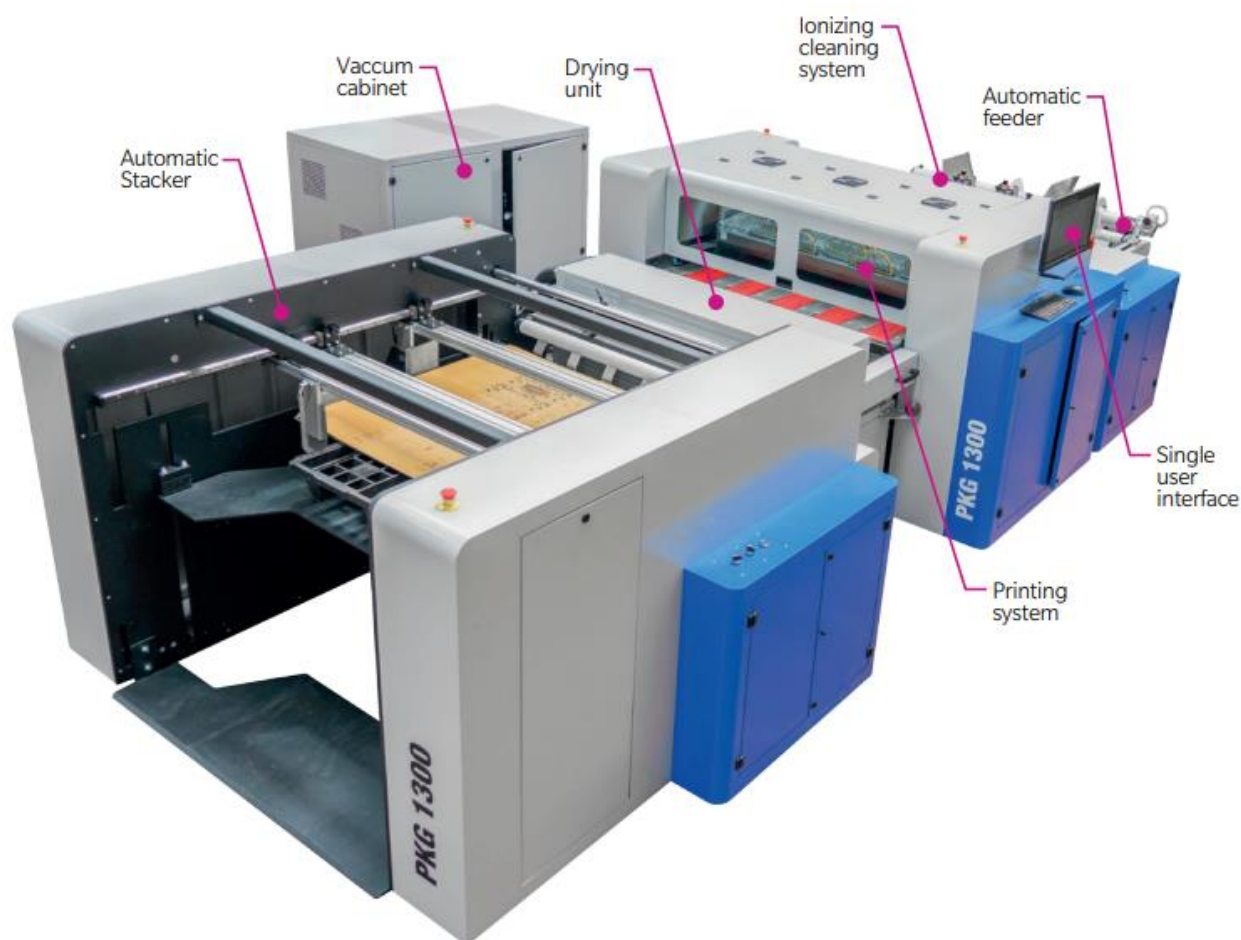
Printer Specifications	
Print Speed	
@ High resolution	9 m/minute
@ Medium resolution	18 m/minute
@ Low resolution	27 m/minute
Print Specifications – Imaging & Media	
Max. imaging width	1,070 mm
Media width	Min.: 300 mm; max.: 1,300 mm
Media length	Min.: 400 mm; max.: 1,600
Media thickness	Min.: 1 mm; max.: 50 mm
Media types	Flat and pre-die cut corrugated boards
Print Resolution	
High resolution	1,200 x 1,200 dpi
Low resolution	600 x 1,200 dpi
Low resolution	300 x 1,200 dpi
Drop size	5 pL
Print Head Durability	
Across all channels CMYK	40–50 liters can be fired in total
Single channel per printhead (mono colour)	10–12.5 liters can be fired in total

PKG-1300 SPECIFICATIONS – II

Printer Specifications (continued)	
Dimensions & Weight	
Printer Module (H x W x D)	1,600 x 2,255 x 1,250 mm (1,200 kg)
Exit Table & Dryer (H x W x D)	950 x 2,255 x 600 mm (300 kg)
Automatic Feeder (H x W x D)	1,360 x 2,255 x 1,600 mm (750 kg)
Automatic Stacker (H x W x D)	1,310 x 2,255 x 1,990 mm (1,150 kg)
Basket (Catch Tray) (H x W x D)	615 x 1,300 x 1,000 mm (50 kg)
Electrical Requirements	
	400 V, 3-phase, 32 A, 50 Hz (Single power connection for complete system through Printer Module/Vacuum Cabinet)  Note: Feeder and Stacker modules each require RCCB 4P, 40 A, 300 mA, C, 10 kA
Power Consumption	
Printer Module	8,000 W
Web Cleaner	5,500 W
Automatic Feeder	3,500 W
Automatic Stacker	3,500 W

PKG-1300 SPECIFICATIONS – III

Other Specifications	
Compressed Air	6 bar, 50 L/min., 8 mm outside diameter (to be supplied by the client)
Software/RIP	
	PKG-1300 User Interface
Platform	PC/Windows-based (PC included)
Controller	Ergosoft RIP (Windows-based)
Internet connection	24/7 requirement



CONSUMABLES & STARTER KIT

Printheads	
9967011994	MT PKG Inkjet Printhead (single item, 5 pieces needed per machine)
Inks	
9967011995	Ink Bottle WB Pigment MT 5L Cyan
9967011996	Ink Bottle WB Pigment MT 5L Magenta
9967011997	Ink Bottle WB Pigment MT 5L Yellow
9967011998	Ink Bottle WB Pigment MT 5L Black
Starter Kit (to be included in every order)	
9967011980	Starter Kit for PKG-1300
Starter Kit includes:	- 2x Printheads - 1x CMYK 5L ink set - 1x MTEX Cleaner 1L - 1x Nitrile Gloves (bag 10 pcs) - 1x Cleaning Towels (bag 10 pcs) Media pack: - 25x corrugated HQ kraft 1000x1230x5 - 25x corrugated HQ white 1000x1230x3 - 25x corrugated HQ kraft 1000x1230x1



ARTICLE NUMBERS – I

Printer Module and Configurations	
9967011976	PKG-1300 Basic Module*
	<i>PKG-1300 Printer + Basket</i>
9967011977	PKG-1300 Printer Module Config A
	<i>PKG-1300 Printer + Web Cleaner + Basket + Vacuum Cabinet</i>
9967011978	PKG-1300 Printer Module Config B
	<i>Config A + Feeder+ Exit Table + Dryer</i>
9967011979	PKG-1300 Printer Module Config C
	<i>Config B + Stacker</i>
Accessories (to be included in every order for the respective module)	
9967011983	PKG-1300 Printer Pallet
9967011984	PKG-1300 Feeder Pallet
9967011985	PKG-1300 Stacker Pallet
Ergosoft RIP Software	
9967011981	Ergosoft RIP Software
9967011982	Ergosoft RIP Software (incl. Color GPS)
	 <i>Recommended software version, enables profile creation</i>

* Printer always includes 5 x Printheads, but no inks!

 **Note:** Please use the configurations above for your sales orders. The single hardware items on the next page are only for cases, where modules need to be added later on.

ARTICLE NUMBERS – II

Other consumables	
9967011999	MTEX Cleaner 1L
9967012000	Ink Filter
9967012001	Air Filter
9967010658	Nitrile Gloves (box of 100 pcs)
9967010657	Lint Free Wipes (box of 150 pcs)
Modules and Accessories (single items only for retrofit use)	
9967011986	PKG-1300 Printer
9967011987	PKG-1300 Automatic Feeder
9967011988	PKG-1300 Automatic Stacker
9967011989	PKG-1300 Webcleaner
9967011990	PKG-1300 Exit Table
9967011991	PKG-1300 Basket
9967011992	PKG-1300 Vacuum Cabinet
9967011993	PKG-1300 Dryer*

* The Dryer is a hot air dryer module (not IR like mentioned in the early stage)

SPACE REQUIREMENTS

Space Requirements PKG-1300

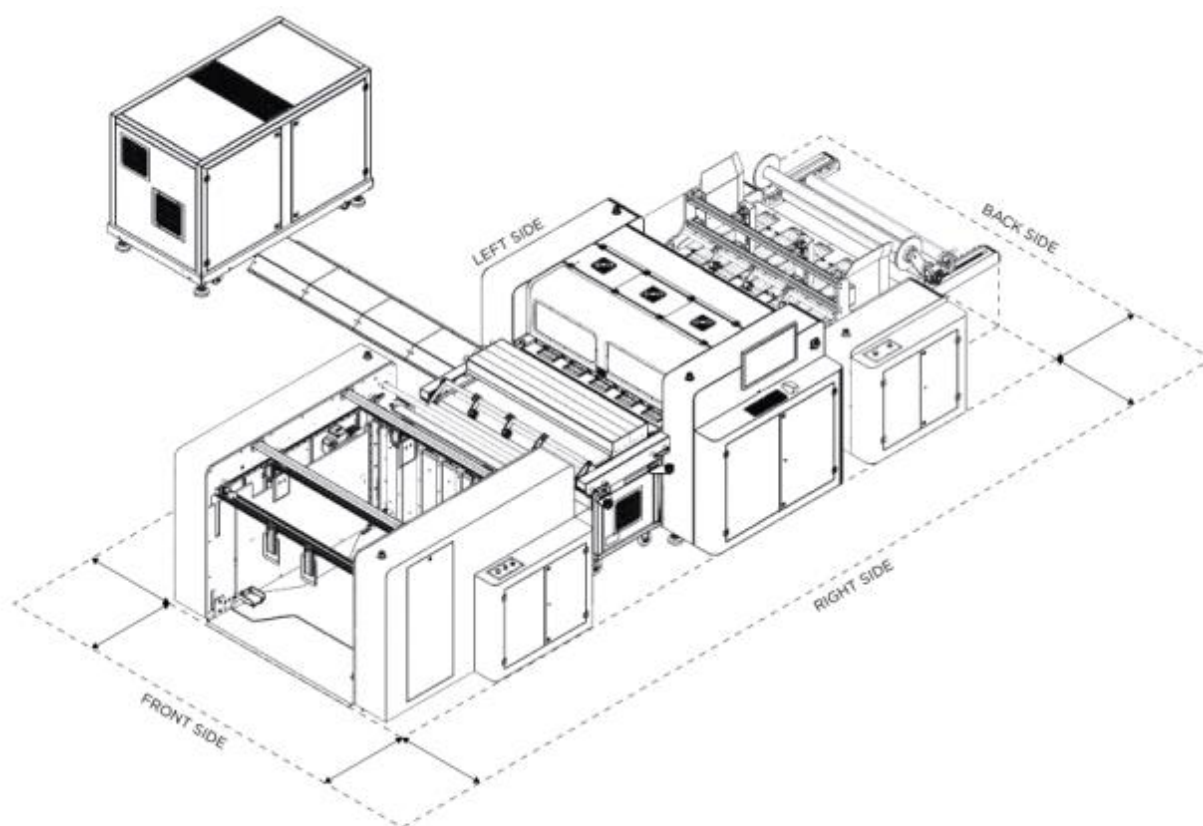


Figure 10-1

Front side	Left Side	Right Side	Back Side
2000 mm 6.56 ft	2000 mm 6.56 ft	1000 mm 3.28 ft	2000 mm 6.56 ft

⚠ Note: Please see the **PKG-1300 Site Preparation Guide** on InfoPortal for detailed information! The total footprint is 2,200 x 6,000 mm (W x L), plus the Vacuum Cabinet.

⚠ Forklift required! For unloading the PKG-1300 crate from the truck, it is usually required to have a forklift on site on the day of the delivery. Also for lifting the machine from the pallet before installation. Fork length min. 2,500 mm, capacity min. 2,000 kg.

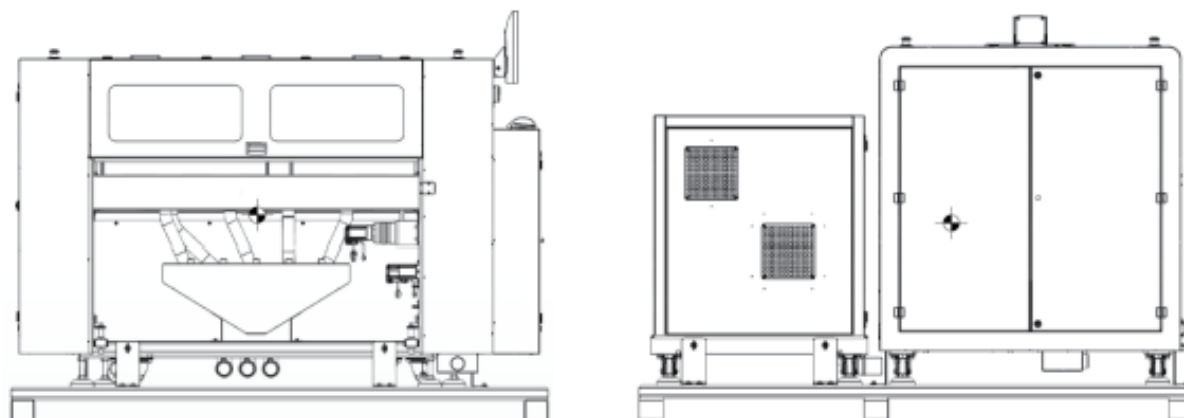


CRATE/PALLET DIMENSIONS – I

Dimension and Weight of Shipping Crates	
PKG-1300 Printer Pallet (incl. Vacuum Cabinet)	
Dimensions (H x W x D)	1,600 x 2,300 x 2,300 mm
Weight	1,950 kg
Exit Table & Dryer	
Dimensions (H x W x D)	1,500 x 2,255 x 600 mm
Weight	300 kg

⚠ Note: The dimensions of the different modules might require larger doorways than usual! Please check the **Site Preparation Guide** and do make a proper site inspection before shipment and installation!

3.1. PKG-1300 – gravity center

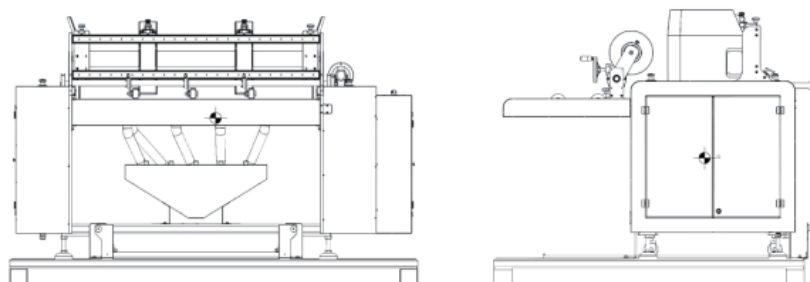


CRATE/PALLET DIMENSIONS – II

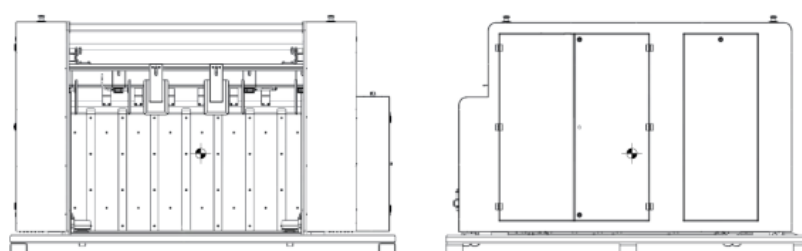
Dimension and Weight of Shipping Crates	
PKG-1300 Feeder Pallet	
Dimensions (H x W x D)	1,550 x 2,300 x 1,700 mm
Weight	950 kg
PKG-1300 Stacker Pallet	
Dimensions (H x W x D)	1,510 x 2,300 x 2,100 mm
Weight	1,400 kg

⚠ Note: The dimensions of the different modules might require larger doorways than usual! Please check the **Site Preparation Guide** and do make a proper site inspection before shipment and installation!

3.2. Auto Feeder – gravity center



3.3. Stacker – gravity center



SAFETY DOCUMENTATION – I

Declaration of Conformity

Each machine will be shipped with its own DoC document incl. the serial number.

(The below is just an example template)



Declaração de Conformidade

EU Declaration of Conformity

Nome do Fabricante:

Manufacturer's Name

MTEX New Solutions, SA

Morada do Fabricante:

Manufacturer's Address

Rua Academia FC Famalicão,
Pavilhão 17, 4760-482 Esmeriz
Vila Nova de Famalicão, Portugal

Declara-se por este meio que o produto abaixo descrito se encontra em conformidade com os requisitos por lei exigidos.

Esta declaração perde a sua validade no caso de alteração do produto não acordada connosco.

*It is hereby declared that the product described below is in compliance with the required legal requirements.
This declaration loses its validity in case of a product change not agreed with us.*

Denominação genérica:

Generic Denomination

Impressora que imprime em cartão canelado até 1300 mm de largura (largura de área imprimível: 1080 mm), com tinta pigmentos à base de água (4 cores). Impressora de alta velocidade com alta qualidade de imagem.
Cardboard printer that prints on corrugated cardboard up to 1300 mm with (printable area with: 1080 mm), with water-based pigment ink (4 colours). High speed with high image quality printer.

Função:

Function

Impressora digital a jato de tinta de papel corrugado para personalização de embalagens profissionais, de até 1080 mm de largura, utilizando tinta pigmentos à base de água (4 cores).

Professional digital corrugated inkjet printer for custom packaging, up to 1080 mm wide, using water-based pigment ink (4 color).

Tipo de Produto:

Product Type

Cardboard Printer

Modelo:

Model

PKG-1300

Marca:

Brand

MTEX NS

Número de Série:

Serial Number

KMMTP*****

Satisfaz as disposições relevantes das seguintes Directivas e as Normas harmonizadas CE:

Fulfills all the relevant provisions of the following EC Directives and Harmonized Standards

- Diretivas: 2006/42/CE; 2014/30/UE; 2014/35/UE.
- ISO 12100:2010; ISO 13849-1:2015; ISO 13857:2008; ISO 7010:2009;

- Directives: 2006/42/EC; 2014/30/EU; 2014/35/EU.
- ISO 12100:2010; ISO 13849-1:2015; ISO 13857:2008; ISO 7010:2009;

Local Dia Mês Ano
Place Day Month Year

Famalicão, ## / ## /####

Jorge Costa
Diretor de Operações / Chief Operating Officer
Authorised person to compile technical file

SAFETY DOCUMENTATION – II

Safety Data Sheet – Ink

See InfoPortal for SDS of each ink.



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification **Product Name:** Pigment Ink
Color: Multiple Color(Cyan, Magenta, Yellow, Black, Light Cyan, Light Magenta, Transparent, White)
Chemical Name: Pigment Ink
Chemical Family: Water Based Pigment Ink
Cas Number: Blend

Company Identification
MTEx NS S.A.
Tel: +351 252 371 109
E-mail: hello@mtexns.com
Address: Rua Academia FC Famalicão, 272
4760 - 482 Esmeriz - V. N. Famalicão - Portugal

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Amount	CAS Number	OSHA PEL	ACGIH TLV
Colorant	<16%	Unknown	N/E	N/E
Water	<60% (Balance)	7732-18-5	N/E	N/E
Ethylene glycol	<8%	107-21-1	N/E	N/E
Glycerine	<6%	56-81-5	N/E	N/E
Surfactant	<1%	Blend	N/E	N/E
Diethylene glycol	<9%	111-46-6	N/E	N/E

Remaining ingredients not considered hazardous under the criteria of OSHA Hazard Communication Standard 29CFR 1910.1200

Ingredients do not contain Substances of High Concerns identified in the (EC) Regulation No 1907/2006 of the European Parliament and of the Council of 18th of December 2006 concerning the registration, the evaluation of Chemicals as well as the restrictions applicable to these substances (REACH)

COMPOSITION COMMENT: The identity of this ink is considered proprietary by the manufacturer

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Multiple Color with slight odor. This product presents little or no hazard if spilled, and no unusual hazard if involved in a fire.

EYE: May cause slight irritation.

SKIN: May cause allergic skin reaction.

INHALATION: May cause irritation if inhaled.

INGESTION: May be harmful if swallowed.

CARCINOGENICITY INFORMATION: No known cancer hazard.

NAME PLATE WITH CE MARK

Where to find the serial number?

See the back side of the printer,

MTEX  NS			
SERIAL NUMBER		MODEL	
YEAR		WEIGHT	
VOLTAGE		COMPRESSED AIR	
TOTAL FLA (FULL LOAD AMP.)		LARG. HEATER LOAD	
LARGEST MOTOR FLA			
PHASE & FREQUENCY			
SCCR (SHORT CURRENT CIRCUIT)			
FIELD WIRING DIAGRAM			
www.mtexns.com support@mtexns.com +351 252 371 109 Rua Academia FC Famalicão, Pav. 17 4760-482 V.N.Famalicão - Portugal			

IMPORTANT: DELIVERY ADDRESS ON YOUR SALES ORDERS

 As you may know, all PKG-1300 machines are being delivered from MTEX NS in Portugal directly – BEU has no units in stock. Due to this, **all sales orders need to be delivered to the NOC's delivery address only, not to the end-customer!** Please consider this for all your upcoming projects and inform your local colleagues in logistics accordingly.

Keep in mind that each time we need to get the delivery address changed *after* the sales order has been submitted to BEU, we are losing time in the ordering and delivery process.

MAIN APPLICATIONS OF PKG-1300

The PKG-1300 is mainly designed to print on corrugated and craft boards. Those can be flat sheets or pre-die cut packaging boards that are ready to be used right after the print. Next to corrugated we can also print on folding carton sheets and boards (requires hot air dryer for coated substrates).

In general you need to keep in mind that for digital packaging printing we are looking for light-weight designs and no heavy coverages or full-bleed solids. That's the game of traditional flexo printing and we need to think more of "less is more". Keep in mind that the less ink you use, the more money your customer makes. Please also refer to the [Expectation Agreement](#) on InfoPortal.

Applications you can think of are:

- | | |
|--------------------------|--------------------|
| ▪ Shipping Boxes | ▪ Gift Boxes |
| ▪ Food Delivery Boxes | ▪ Customized Boxes |
| ▪ Beverage Packs | ▪ Storage Boxes |
| ▪ Agricultural Packaging | ▪ And many more.. |



RECOMMENDED PARTS

Recommended Spare Parts*	
9960P20003005601	Positive Pressure Pump
9960P20003005701	2/2 way solenoid valve
9960P20003005801	3/2 way solenoid valve
9960P93118000600	Secondary Ink Cartridge
9960P20003005901	Overflow Bottle
9960P20003006001	Peristaltic Pump
9960P91545004500	O-Ring – cap seal
9960P20003006101	Float Sensor
9960P20003006201	Float sensor for primary Ink Tank
9960P93118000100	PKG Printhead Drive Board
9960P90508017400	Servo Drive B3A – 230Vac 400W Ethercat
9960P90502013800	Servo Motor B3M – 230Vac 400W
9960P90502014000	Servo Motor B3M – 230Vac 400W – Brake
9960P90508017000	Digital input module
9960P90508017100	Digital output module
9960P90518007800	Power Supply 1x230Vac–9.7A–36Vdc
9960P90508017600	Safety Relay Unit 24VDC SRB-E-301MC

* These parts will be taken into stock at BEU as initial inventory

SERVICE & SUPPORT

PKG-1300 allows operators to perform many of the periodical maintenance tasks (daily and weekly maintenance) by their own. This should be combined with quarterly visits from a Service Engineer and the possibility to use KM's established Remote Support and Remote Video Support tools.

SERVICE CONTRACT RECOMMENDATION:

- **Quarterly service visits** for general system inspection/maintenance and safety checkup
- Permanent access to KM remote support for Remote Desktop solvable items
 - To be used for GUI and Controller topics
- Permanent availability of KM Remote Video Support (AireLink)
 - Operator requests (ORU activity analysis and instructions)
 - Operator "On the job" support/training
- Maintenance of the Web Cleaner module included (filter-exchange and cleaning)

Such contract shall be charged with a monthly fixed fee (IP-contract) caring about the travelling distance/time cost separately. Any inclusion of parts (specially Wear Parts / Repair Parts) needs to be evaluated. Consumables have to be purchased by the customer (incl. printheads).

⚠ Note: During the start-up phase with PKG-1300, KM will need the support assistance from MTEX NS for installations. Please order the following **MTEX NS service items** locally and directly through **MTEX Support** (support@mtexns.com). Support tickets and escalations can be made through the KM channels (ServiceNow/Remedy).

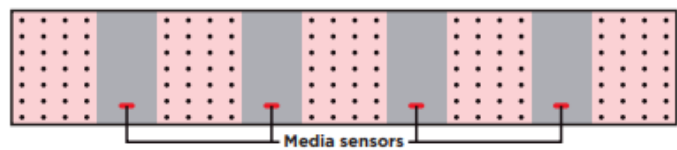
MTEX NS Service		NOC Price
TEC.INST4	Installation & Training (4 days) (EU)	4,800 EUR
TEC.RS	Remote Support	Free of Charge
TEC.LABOUR	On-site Support (2 days)	1,900 EUR
	<i>incl. Travel, excl. Hotel, Meals, local Management</i>	

OTHER TECHNICAL INFORMATION

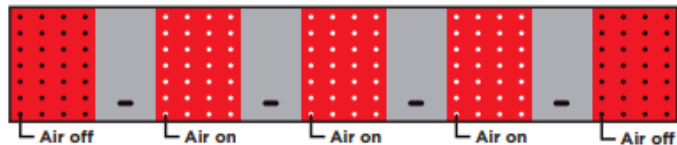
Head cleaning system with possibility to select heads and colour channels individually. For example, you can select to clean Cyan channel from heads 2 and 5.



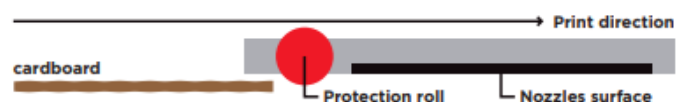
Multiple media sensors distributed across the width – this allows flexibility in placement/shape of media to be printed.



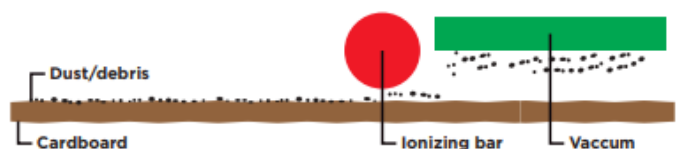
5-belt transport system with individual vacuum passages that allows the air-flow to be opened/closed. Additionally, it is possible to control airflow (in %) in the active belts.



Head protection system, protects printhead from media impacts.



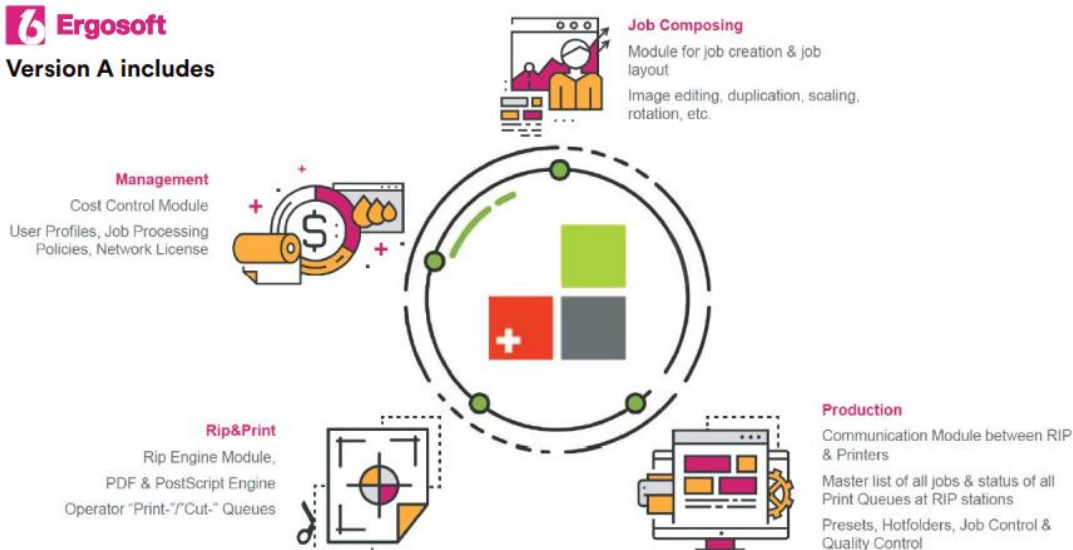
Ionization media cleaning system. Reduces debris on the substrate, extending the life of the print heads while increasing print quality.



ERGOSOFT RIP INFORMATION

With the PKG-1300, we introduce the choice of two different versions of the **Ergosoft RIP**: The standard version (A) and the version including the Color GPS module (B), that lets users create profiles for different applications and media types.

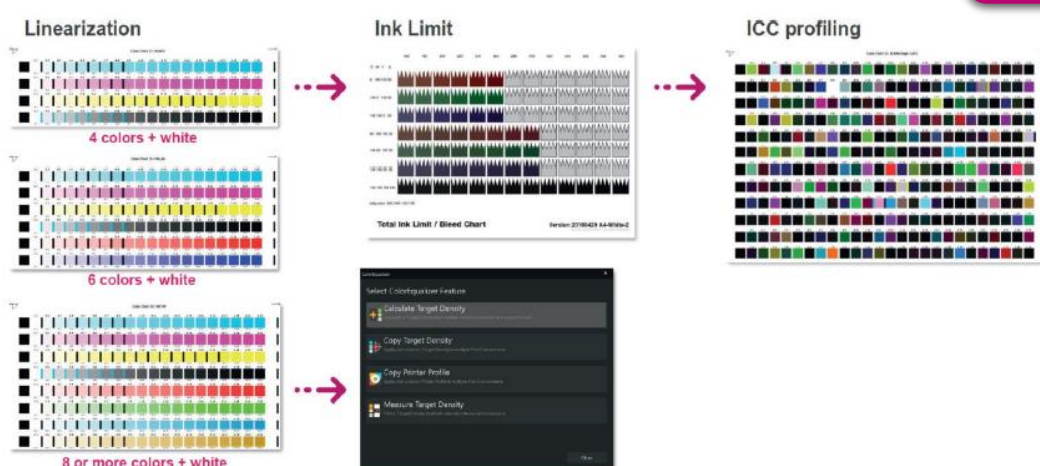
6 Ergosoft Version A includes



6 Ergosoft

Version B includes All in the version A + Color Profiling Module

**Recommended
Version**



Ergosoft website: <https://www.ergosoft.net/ergosoft16/>

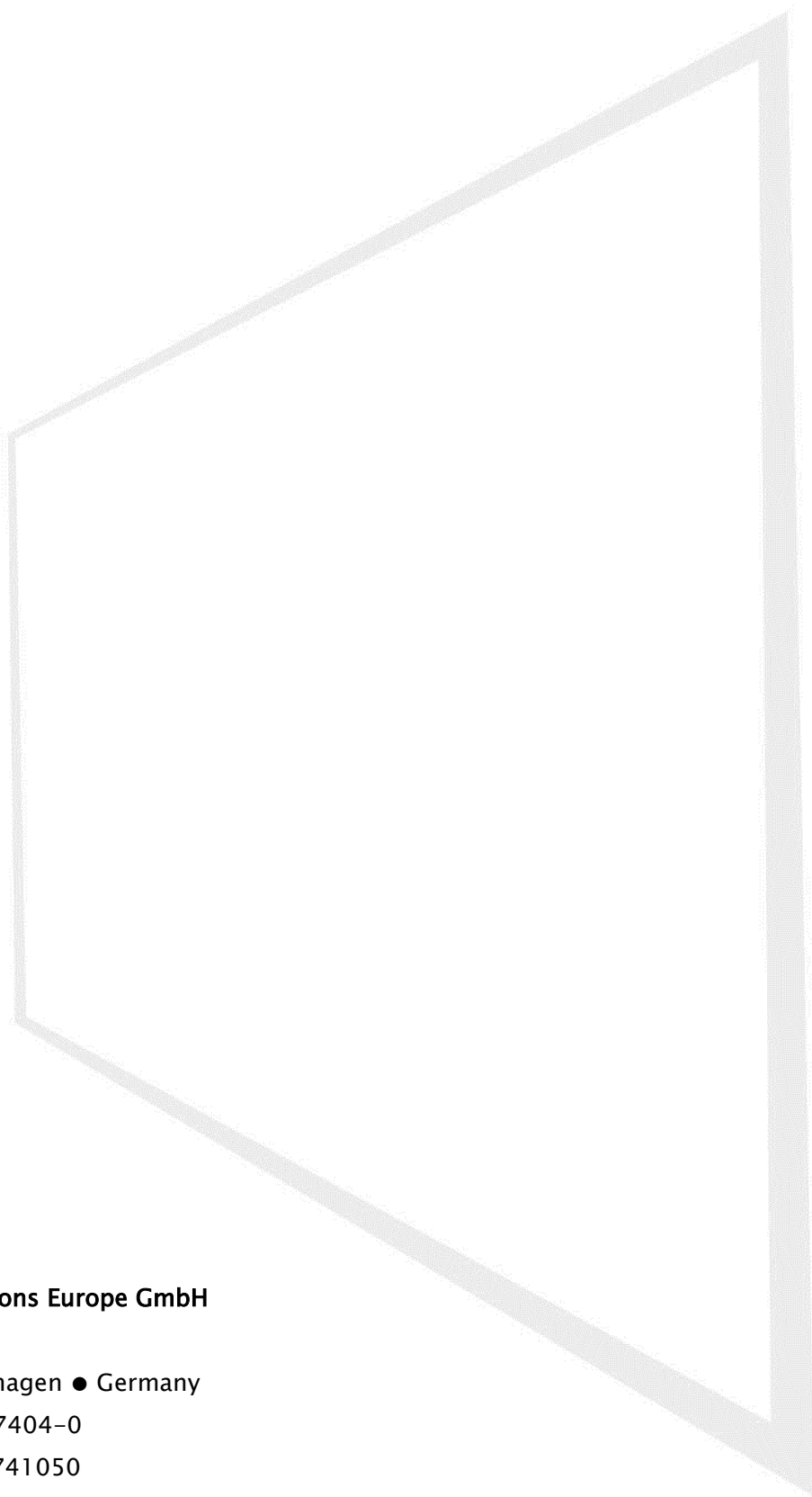
CHANGE LOG

27-SEP-2022:	Version 1.0	Creation of document
24-NOV-2022:	Version 2.0	Print Head Durability added (p. 5)

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Giving Shape to Ideas