FLEX

Inkjet single-pass print solutions
for packaging

SMARTJET

We are specialised in the designing, manufacturing and marketing of technologically advanced industrial inkjet digital printers that aim to provide a complete, cutting-edge solution for our customers.

VISION
To be the partner of excellence in digital printing solutions

MISSION
To offer reliable and innovative single-pass digital printing solutions geared towards our customers' success

OUR VALUES
Respect, Passion, Ambition, Commitment, Sharing

INDUSTRIAL SOLUTIONS

SMARTJET's print solutions are designed to achieve the highest levels of productivity and reliability typically required by industrial production lines.

SPECIALISING IN SINGLE-PASS INKJET

Building on our experience in industrial inkjet printing, we design and implement printing solutions exclusively with single-pass inkjet technology.

A TECHNICAL PARTNER

Strong and consolidated technical know-how in the design of complex printing systems enables SMARTJET to meet even the most challenging printing specifications demanded by the market.

MADE IN ITALY

All SMARTJET products are entirely designed and assembled at our factory in Fiorano Modenese in the province of Modena.

INDUSTRIAL PRINTING SOLUTIONS

Founded on the invention of the first industrial piezoelectric printhead regeneration system for the ceramic industry, in 2017 we launched our range of industrial printers equipped with single-pass inkjet technology for the digitisation of the printing process in the manufacturing sector.

PERFORMA

High-performance industrial printing systems with single-pass inkjet technology.

SMARTLab
INKJET CONSULTING & TESTING

The division dedicated to consultancy and testing in the industrial printing sector using inkjet technology.

RIGENERA
CLEANING & TESTING SYSTEM

The piezoelectric printhead cleaning solution for industrial solutions.

MAXIMUM PRODUCTIVITY

ULTRA-FAST DELIVERIES

Respond promptly to your customers' demands and submit your quote by physically printing a sample and forwarding it rapidly to the customer.
Once confirmation is received, set up the printer in 2 minutes and start printing entire boxes of product in a matter of minutes.
The single-pass inkjet technology integrated in the FLEX solutions enables full-colour graphics to be printed in a single pass and at speeds of up to 46 mt/min, **with no equipment or set-up time**.

COST-EFFECTIVE COLOUR PRINTING

We all know the power that colours can have on images or graphics applied to many permanent applications. So why not use them also on sustainable packaging? Thanks to the extreme **print productivity** and high **ink consumption efficiency** of inkjet technology, FLEX solutions allow even the most complex graphics to be printed in colour at extremely low cost, even for very small production batches.

PRODUCTION PEAKS? NO PROBLEM

In some application areas, the seasonal nature of sales volumes is certainly a well-known variable. The ability to adjust the print speed of your FLEX at any time allows you to have **a perfectly scalable solution in terms of production capacity**. In this way, large customised orders for holiday periods or special occasions will no longer be a critical issue.

HIGH PRINT QUALITY

Thanks to the integration, the **best printing components** and a **purely industrial integration philosophy**, FLEX printers deliver excellent print quality.

RICHLY DETAILED GRAPHICS

VIBRANT COLOURS

WATER-BASED INKS

A SOLUTION FOR MANY APPLICATIONS

DIFFERENT MATERIALS AND SURFACES

FLEX water-based pigment inks make printing possible on a variety of absorbent materials. This means that the choice of market on which to focus is all yours!

PAPER	CARDBOARD	WOOD	COTTON	CORK	NON WOVEN

SHEET-FED OR FINISHED PRODUCT PRINTING

FLEX solutions are designed to offer the greatest possible versatility. You can then use them either for sheet-fed or die-cut carton printing. Furthermore, thanks to the high stroke belt adjustment system, you can also print assembled finished products such as glued cartons or pre-assembled food packaging.

ENTER NEW MARKETS

- Paper carrier bags
- E-commerce packaging
- Take-away packaging
- Disposable catering packaging
- Mailing and office packaging

EXTRAORDINARY FLEXIBILITY

NO PLATE, CLICHES OR SCREENS

Forget clichés and screens! FLEX printers use single-pass inkjet technology and therefore do not require any printing tool or ink set-up. The operator is thus freed from all operations concerning production, printing tools as well as the related machine set up.

NO MINIMUM PRODUCTION BATCH

The absence of plates and the system's extremely fast set-up minimise any cost associated with the start-up of a signel production run. Thanks to this, you can offer **small-batches printing services at competitive prices without compromising your profit margins**. So, develop your offer and **actively propose this service** that is so demanded by the market!

EXTREMELY FAST TIME-TO-MARKET

Sudden emergencies and last-minute changes to the printing file are no longer a problem. The absence of a printing tool and the rapid adjustment means you can be **extremely flexible** and thus capable of **responding effectively even to unforeseen or extremely urgent requests**. Stand out and **make your customer service unique**!

ULTRA-FAST SAMPLING

If the customer wants a precise idea of the yield, send them a printed image of your product directly! Reduced machine set-up times mean you can do this too. **Impress your customers** with a service that is unrivalled in the market!

INTEGRA Software

Productivity and print quality are important, but it is essential that these are made available through a **process that is as efficient as possible for the customer and your operator**. With this in mind, we have developed **INTEGRA**, the innovative software designed to support you in the daily use of our systems in order to achieve maximum performance.

RIP
Send print jobs directly from the on-board interface

- Colour management and selection of colour profiles
- Adjustment of orientation and positioning of graphics

SJ WORKFLOW
Structure your process efficiently
- Create your job order by associating all relevant information
- Actively manage the queue of print jobs
- Save and archive each job with the possibility of retrieving it in the future

SJ ANALYTICS
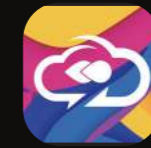Read your operational data quickly and intuitively

- Monitor daily printed volumes in real time
- Check your print volumes per customer or per application

WEB CONNECTOR
Your fully integrated printer
- Create a single flow with your e-commerce feed
- Utilise and integrate company ERP article databases

MySMARTJET
Use the web-based functionalities of the SMARTJET platform, even remotely

- **ServicePro** request support and quickly exchange data with SMARTJET support team
- **LiveStats** monitor and download of all statistics
- **Event Tracker** constantly monitor constantly the status of your printer

UNCOMPROMISING RELIABILITY

With our experience in the production of **PERFORMA industrial printing systems**, we are familiar with the conditions that can strain your inkjet single-pass printer. This is why every solution in the FLEX product line is designed to prevent such conditions as far as possible and **minimise any operational downtime.**

A CONFIGURABLE SYSTEM

A WIDE RANGE OF SOLUTIONS

The FLEX range is designed to offer you **a solution with the features that best suit your needs**. From the FLEX 324, the benchmark of the range in terms of productivity and print quality, to the FLEX 297, for those seeking a streamlined solution to internalise their packaging customisation.

OPTIONALS

The wide range of optionals means you can configure the printer to your liking and according to your needs.
You can customise your printer either at the purchase stage or at a later date. In fact, if you prefer to start with a more basic configuration and integrate it over time, you can do so by fitting specific upgrade modules.

ACCESSORIES

All FLEX products can be accompanied by the original SMARTJET accessory line, with which you can expand the operational capabilities of your printer. Evaluate your needs and configure your **FLEX Print Line**!

SMARTJET CARE

BY YOUR SIDE, EVERY DAY

As printer manufacturers, we understand that sometimes everyday use can hide pitfalls for operators new to inkjet technology as well as for the more experienced users. That is why we collaborate with our customers on a daily basis, so that they can achieve maximum printing performance at all times.

Technical Assistance

Depending on the request, the SMARTJET Technical Support team can support you either **remotely** or with **on-site interventions** at your premises.

Printer start-up

Upon delivery of the machine, a SMARTJET technician will install the system and accompany the operator through a full training session so that they can become a true expert becomes a true expert in the operational and maintenance management of the system.

Training Sessions

If you require further training, we can assist you with additional **individual** sessions either **remotely** or directly **on-site**.

Preventive Maintenance

Keep your printer functioning at its best over time with preventive support from SMARTJET technicians. In this way, you can **extend the life of key components, reduce costs** arising from malfunctions and prevent **operational downtime.**
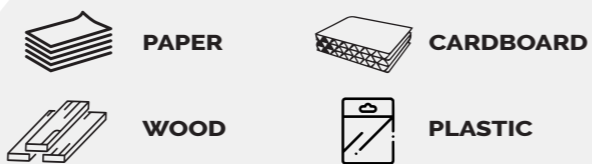
MEDIUM-FORMAT PRINTERS

UV LED inkjet digital printer

FLEX UV is the new SMARTJET digital printer with piezoelectric DoD inkjet technology designed for direct printing on non-absorbent materials, both in sheets and finished products.
The system is developed to offer maximum flexibility when printing short runs of coated, varnished, or plastic-coated cartons and packaging.

In addition to the outstanding print quality guaranteed by the integration of the best piezo printing technology, the use of UV LED inks also allows direct printing on non-porous materials such as plastic, metal, painted cardboard, and many others.

x2 PRINTING SPEED
Up to 30 mt/min

RESOLUTION
Up to 600x1200dpi

PRINTING WIDTH
Up to 238mm

SOFTWARE
INTEGRA

MATERIAL
Non-absorbent

AUTOMATION
Loading and Unloading
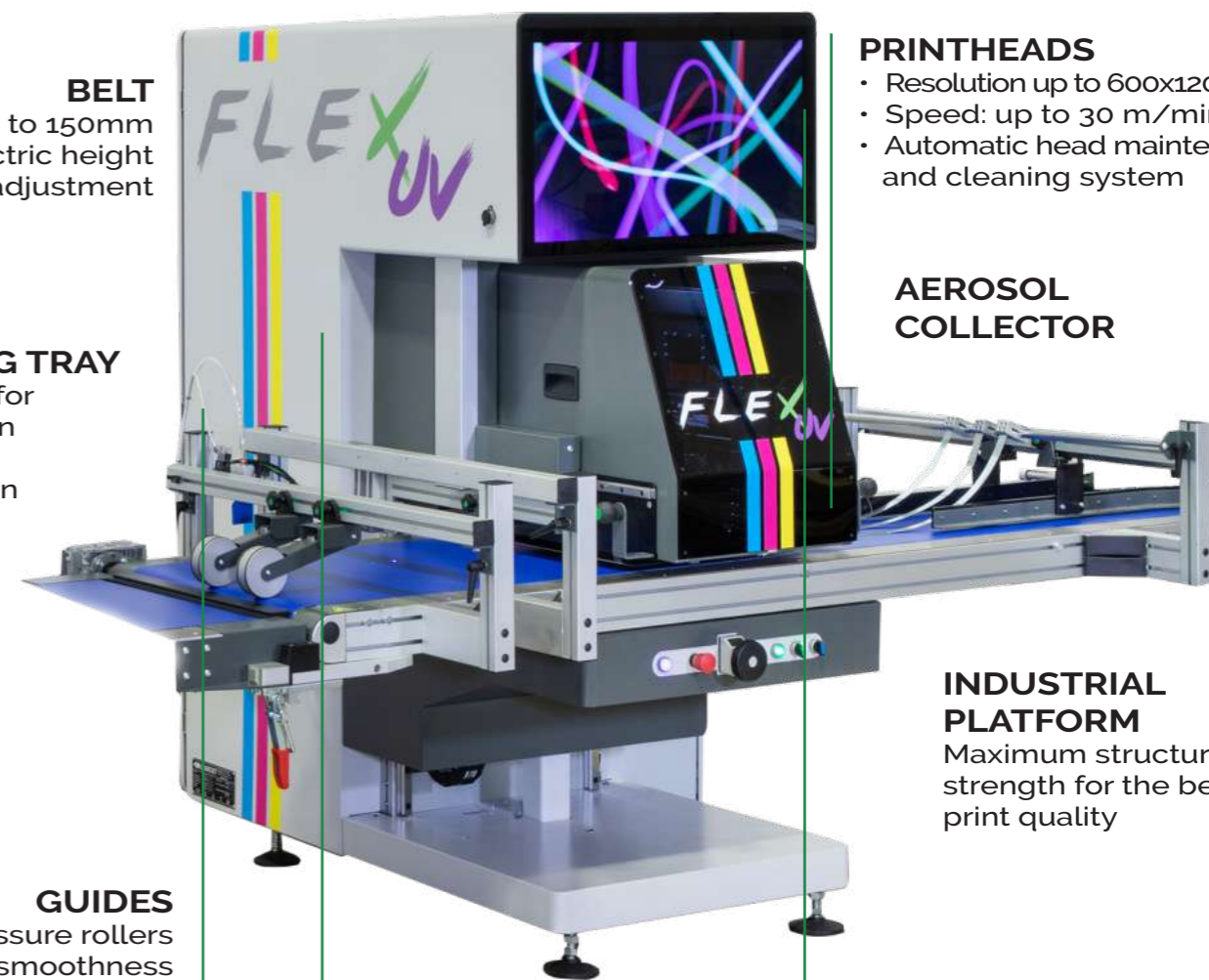
BELT
- Print up to 150mm
- Electric height adjustment

LOADING TRAY
Prepared for connection of loading automation

GUIDES
- Inlet pressure rollers
- High smoothness

INKS
- Low-migration, high-density UV LED inks
- 5L tanks

PRINTHEADS
- Resolution up to 600x1200dpi
- Speed: up to 30 m/min
- Automatic head maintenance and cleaning system

AEROSOL COLLECTOR

INDUSTRIAL PLATFORM
Maximum structural strength for the best print quality
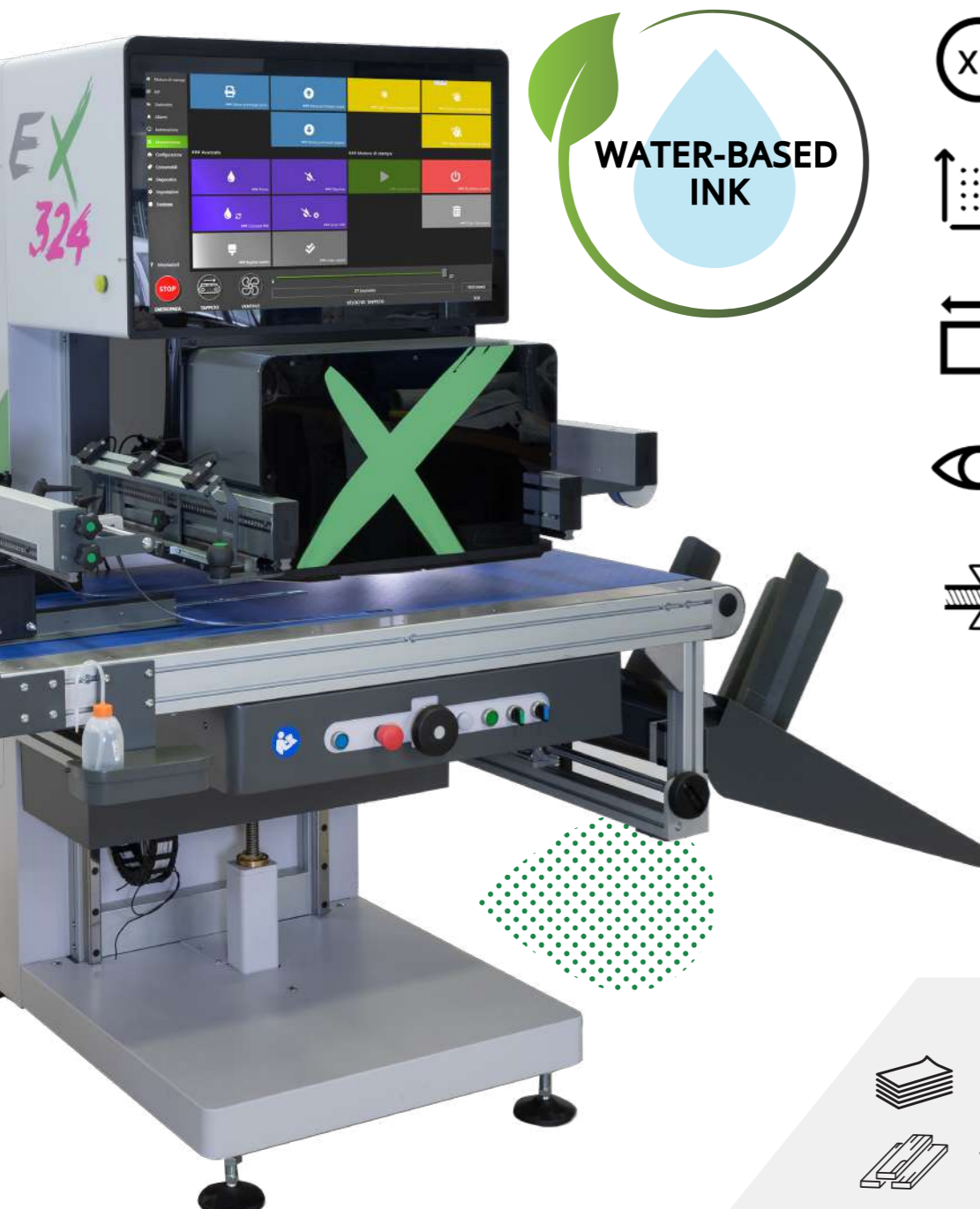
HMI
- 32' touchscreen
- INTEGRA software

MATERIALS

PAPER   CARDBOARD

WOOD   PLASTIC

APPLICATIONS

CARDBOARD BOXES   WOOD PACKAGING   E-COMMERCE BOXES   PASTRY BOXES

TECHNICAL DATA SHEET

Technology	Inkjet Single-Pass
Heads	DoD Piezo
Print Speed (max)	30 mt/min
Printing Width (max)	238mm
Resolution (max)	600X1200dpi

Medium Width (max)	More than 950mm
Average Height (max)	150mm
Substrate	Non-absorbent

Interface	touchscreen 32'
RIP PRO	Integrated

Dimensions (mm)	1793+690x1600x2200 (h)
Weight (kg)	850
Power Consumption (max)	3kW
Power Supply	230V AC -50Hz
Operating Conditions	Temperature from 15' to 30' with humidity from 20% to 80% (without condensation)

FLEX 324

Uncompromising performances

FLEX 324 is the new system specifically developed to offer maximum performance for high-volume packaging printing.
State-of-the-art printing technology combines **outstanding print quality** with the **highest levels of productivity**, all at **low operating costs** and the **best operator experience** thanks to the INTEGRA management software

WATER-BASED INK

x2 PRINTING SPEED
Up to 46 mt/min

RESOLUTION
Up to 1600dpi

PRINTING WIDTH
324 mm

SOFTWARE
INTEGRA

APPLICATION THICKNESS
Up to 35cm

PRINTHEAD
· 1600 dpi resolution
· Speed: up to 46 mt/min
· Printing width: 324 mm
· User replaceable

AEROSOL COLLECTOR

LOADING TRAY
Fixed and Reclining both available

INDUSTRIAL PLATFORM
Maximum structural solidity for the best print quality

BELT
· Prints up to 350 mm thick
· Electric height adjustment

GUIDES
· Infeed pressors
· High slideability

PRINTING UNIT
· Longitudinal adjustment
· Laser indicators

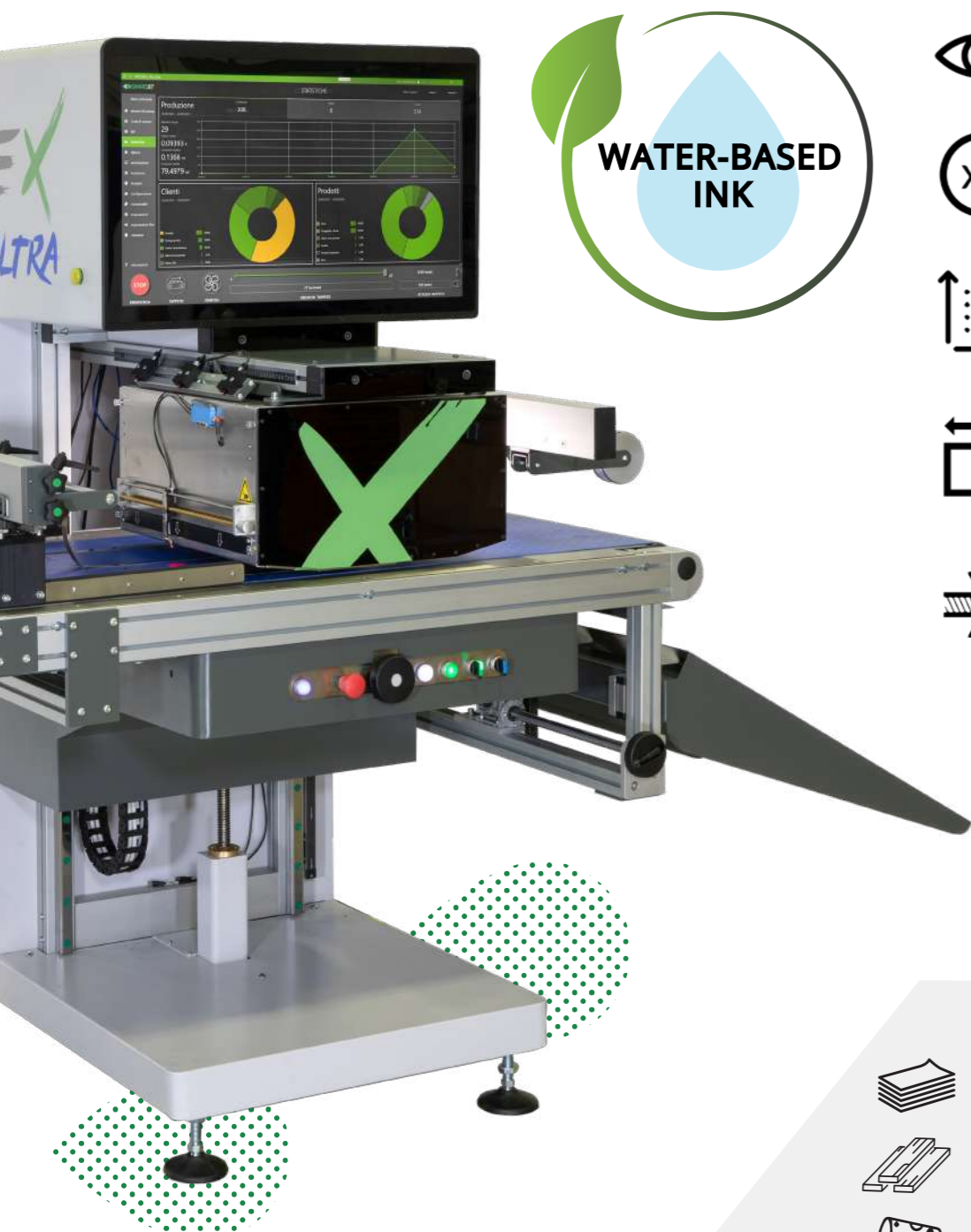**HMI**
· 32' Touchscreen
· INTEGRA software

MATERIALS

- PAPER
- CARDBOARD
- WOOD
- COTTON
- CORK
- NON WOVEN

APPLICATIONS

- FOOD DELIVERY
- DISPOSABLE CATERING
- DELIVERY BOX
- WINE PACKAGING
- WOOD PACKAGING
- E-COMMERCE
- INDUSTRIAL PACKAGING
- MAILING

TECHNICAL DATA SHEET

Technology	Single-Pass Inkjet
Heads	MEMJET
Print Speed (max)	46 mt/min
Printing Width (max)	324mm
Resolution (max)	1600dpi

Medium Width (max)	over 950 mm
Average Height (max)	350mm
Substrate	Absorbent materials

Interface	32" touchscreen
RIP PRO	Included

Dimensions (mm)	2930x1400x1900 (h)
Weight (kg)	580
Power Consumption (max)	3kW
Power Supply	230V AC -50Hz
Operating Conditions	Temperature from 15° to 30° and humidity from 20% to 80% (no condensation)

FLEX ULTRA

Maximum operational efficiency

FLEX ULTRA combines the reliability of HP PageWide technology with a totally new user experience.

Thanks to the introduction of INTEGRA and a 32" touchscreen, the operator can complete all preparation tasks directly on the machine and save all machine settings associated with each job. This way, in the event of recurring printouts, they can quickly recall them by accessing the relevant archive, making the adjustment even faster.

WATER-BASED INK

SOFTWARE
INTEGRA

PRINTING SPEED
Up to 27 mt/min

RESOLUTION
Up to 1200dpi

PRINTING WIDTH
297 mm

APPLICATION THICKNESS
Up to 35cm

HMI
- 32' Touchscreen
- INTEGRA software

AEROSOL COLLECTOR

LOADING TRAY
Fixed and Reclining both available

BELT
- Prints up to 350 mm thick
- Electric height adjustment

INDUSTRIAL PLATFORM
Maximum structural solidity for the best print quality

GUIDES
- Infeed pressors
- High slideability

PRINTHEAD
- 1200 dpi resolution
- Speed: up to 27 mt/min
- Printing Width: 297 mm

PRINTING UNIT
- Longitudinal adjustment
- Laser indicators

MATERIALS

PAPER	CARDBOARD
WOOD	COTTON
CORK	NON WOVEN

APPLICATIONS

CARRIER BAGS | FOOD DELIVERY | DISPOSABLE CATERING | DELIVERY BOX | WINE PACKAGING | WOOD PACKAGING | E-COMMERCE | INDUSTRIAL PACKAGING | MAILING

TECHNICAL DATA SHEET

Technology	Inkjet Single-Pass
Heads	HP Pagewide
Print Speed (max)	27 mt/min
Printing Width (max)	297mm
Resolution (max)	1200dpi

Medium Width (max)	over 950 mm
Average Height (max)	350mm
Substrate	Absorbent materials

Interface	32" touchscreen
RIP PRO	Included

Dimensions (mm)	2930x1400x1900 (h)
Weight (kg)	580
Power Consumption (max)	3kW
Power Supply	230V AC -50Hz
Operating Conditions	Temperature from 15° to 30° and humidity from 20% to 80% (no condensation)

FLEX PIGMENT

The professional, easy-to-use printing solution

Designed to offer a professional solution for finished product printing, FLEX PIGMENT is the SMARTJET product that combines performance, reliability and outstanding usability. Designed to be used by even the most inexperienced printers, it guarantees maximum printing performance and optimum operational efficiency thanks to the integrated 15" touchscreen.

WATER-BASED INK

INTERFACE
15' touchscreen

INDUSTRIAL STRUCTURE
Stability and precision during transport

RESOLUTION
Up to 1200dpi

CONFIGURABLE SYSTEM
SMARTJET Optionals and Accessories

APPLICATION THICKNESS
Up to 35cm

PRINTHEAD
· 1200 dpi resolution
· Speed: up to 27 mt/min
· Printing Width: 297 mm

INDUSTRIAL PLATFORM
Maximum structural solidity for the best print quality

LOADING TRAY
Fixed and Reclining both available

AEROSOL COLLECTOR

BELT
· Prints up to 350 mm thick
· Electric height adjustment

GUIDES
· Infeed pressors
· High slideability

PRINTING UNIT
· Longitudinal adjustment
· Laser indicators

HMI
· 15' Touchscreen
· RIP included on remote PC

MATERIALS

- PAPER
- CARDBOARD
- WOOD
- COTTON
- CORK
- NON WOVEN

APPLICATIONS

- CARRIER BAGS
- FOOD DELIVERY
- DISPOSABLE CATERING
- DELIVERY BOX
- WINE PACKAGING
- WOOD PACKAGING
- E-COMMERCE
- INDUSTRIAL PACKAGING
- MAILING

TECHNICAL DATA SHEET

Technology	Inkjet Single-Pass
Heads	HP Pagewide
Print Speed (max)	27 mt/min
Printing Width (max)	297mm
Resolution (max)	1200dpi

Medium Width (max)	over 950 mm
Average Height (max)	350mm
Substrate	Absorbent materials

Interface	15" touchscreen
RIP PRO	Included

Dimensions (mm)	2930x1400x1900 (h)
Weight (kg)	580
Power Consumption (max)	3kW
Power Supply	230V AC -50Hz
Operating Conditions	Temperature from 15° to 30° and humidity from 20% to 80% (no condensation)

Single-pass inkjet printing in its essence.

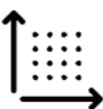FLEX 297 is the ideal solution for businesses wishing to internalise the customisation of their packaging or for those who prefer a step-by-step approach to the digital customisation market for small batches.

The print quality of HP PageWide technology is thus combined with the structural robustness of the FLEX architecture for maximum precision and print quality.

FLEX 297

WATER-BASED INK

INDUSTRIAL STRUCTURE
Stability and precision during transport

EFFICIENT INVESTMENT

CONFIGURABLE SYSTEM
SMARTJET Optionals and Accessories
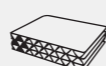
RESOLUTION
Up to 1200dpi

APPLICATION THICKNESS
Up to 35cm

PRINTHEAD
· 1200 dpi resolution
· Speed: up to 27 mt/min
· Printing Width: 297 mm

LOADING TRAY
Fixed and Reclining both available

AEROSOL COLLECTOR

BELT
· Prints up to 350 mm thick
· Electric height adjustment

GUIDES
· Infeed pressors
· High slideability

INDUSTRIAL PLATFORM
Maximum structural solidity for the best print quality

PRINTING UNIT
· Longitudinal adjustment
· Laser indicators

MATERIALS

PAPER		CARDBOARD	
WOOD		COTTON	
CORK		NON WOVEN	

APPLICATIONS

CARRIER BAGS · FOOD DELIVERY · DISPOSABLE CATERING · DELIVERY BOX · WINE PACKAGING · WOOD PACKAGING · E-COMMERCE · INDUSTRIAL PACKAGING · MAILING

TECHNICAL DATA SHEET

Technology	Inkjet Single-Pass
Heads	HP Pagewide
Print Speed (max)	27 mt/min
Printing Width (max)	297mm
Resolution (max)	1200dpi

Medium Width (max)	oltre 950mm
Average Height (max)	350mm
Substrate	Absorbent materials

Interface	PC
RIP PRO	Included

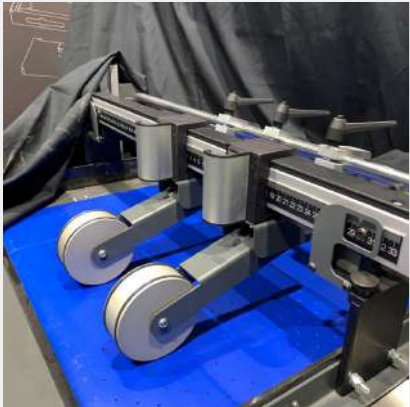| Dimensions (mm)	2930x1400x1900 (h)
Weight (kg)	550
Power Consumption (max)	3kW
Power Supply	230V AC -50Hz
Operating Conditions	Temperature from 15° to 30° and humidity from 20% to 80% (no condensation)

OPTIONALS

VACUUM BELT
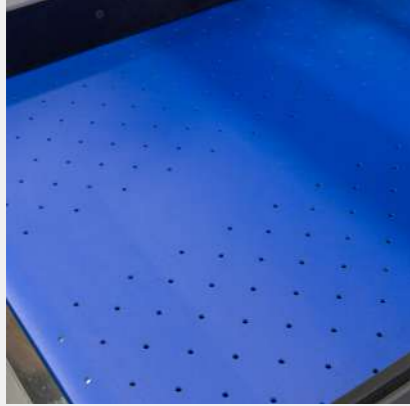
INTEGRATED RIP

OUTLET PRESSURE ROLLERS
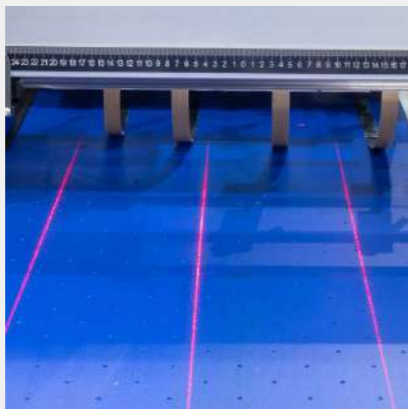

INLET PRESSURE ROLLERS

WHEELS KIT

TYPES OF GUIDE

VISION SYSTEM

SET OF LASER INDICATORS

BARCODE READER

ACCESSORIES

SMARTFEEDER SJ-500

SMARTFEEDER C-600

BELT WITH STACKER FUNCTION

FLEX WIDE

WATER-BASED INK

Large format printing in small batches

FLEX WIDE is the ideal printing system for customisation of large-scale packaging. Along with the width of the belt, the ability to print even on very thick objects makes this solution perfect for both sheet-fed and finished product printing. In addition, the innovative single-pass inkjet technology integrated into the FLEX WIDE combines outstanding hourly productivity with extremely high four-colour print quality.

SOFTWARE
INTEGRA

PRINTING SPEED
Up to 46 mt/min

RESOLUTION
Up to 1600dpi

PRINTING WIDTH
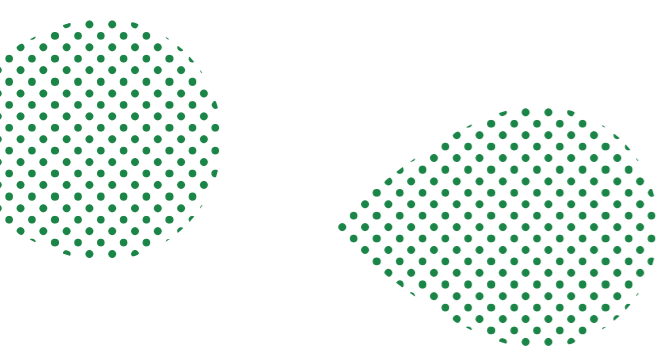Up to 640 mm

APPLICATION THICKNESS
Up to 150mm

PRINTHEAD
- 1600 dpi resolution
- Speed: up to 46 mt/min
- Printing width: 640 mm
- User replaceable

BELT
- Prints up to 150 mm thick
- Electric height adjustment

SMARTJET

PRINTING UNIT
- Longitudinal adjustment
- Laser indicators

HMI
- 24'Touchscreen
- INTEGRA software

MATERIALS

- PAPER
- CARDBOARD
- WOOD
- COTTON
- CORK
- NON WOVEN

TECHNICAL DATA SHEET

Technology	Inkjet Single-Pass
Heads	MEMJET
Print Speed (max)	46 mt/min
Printing Width (max)	324mm - 640mm (FLEX 640)
Resolution (max)	1600dpi
Medium Width (max)	1200mm
Average Height (max)	150mm
Substrate	Absorbent materials

Interface	24" touchscreen
RIP PRO	Included
Dimensions (mm)	2500x2300x1500
Weight (kg)	750
Power Consumption (max)	3kW
Power Supply	230V AC 50HZ 32A
Operating Conditions	Temperature from 15° to 30° and humidity from 20% to 80% (no condensation)

APPLICATIONS

- CARRIER BAGS
- CARDBOARD SHEETS
- CORRUGATED CARDBOARD SHEETS
- DELIVERY BOX
- WINE PACKAGING
- WOOD PACKAGING
- E-COMMERCE
- INDUSTRIAL PACKAGING

The complete portfolio

	FLEX 297	FLEX PIGMENT	FLEX ULTRA	FLEX 324	FLEX UV	FLEX WIDE
Technology	Inkjet Single-Pass	Inkjet Single-Pass	Inkjet Single-Pass	Inkjet Single-Pass	Inkjet Single-Pass	Inkjet Single-Pass
Print Heads	HP Pagewide	HP Pagewide	HP Pagewide	MEMJET	DoD Piezo	MEMJET
Print Speed (max)	27 m/min	27 m/min	27 m/min	46 m/min	30 m/min	46 m/min
Width (max)	297mm	297mm	297mm	324mm	238 mm	324mm/640mm
Resolution (max)	1200dpi	1200dpi	1200dpi	1600dpi	600x1200dpi	1600dpi
Width (max)	over 950mm	over 950mm	over 950mm	over 950mm	over 950mm	1200mm
Height (max)	350mm	350mm	350mm	350mm	150mm	150mm
Substrate	Absorbent materials	Absorbent materials	Absorbent materials	Absorbent materials	Non-absorbent	Absorbent materials
Ink	Water-based pigment	Water-based pigment	Water-based pigment	Water-based pigment	UV	Water-based pigment
Cartridge	250ml cartridges	250ml cartridges	250ml cartridges	2L tanks	5L tanks	2L tanks
Interface	PC	15' touchscreen	32' touchscreen	32' touchscreen	32' touchscreen	24' touchscreen
RIP PRO	Included	Included	Included	Included	Included	Included
Available optionals	Integrated Rip Vacuum belt Vision system Inlet pressure rollers Outlet pressure rollers Wheels kit Types of guide Barcode reader Set of laser indicators Advanced INTEGRA modules	Vacuum belt Vision system Inlet pressure rollers Outlet pressure rollers Wheels kit Types of guide Barcode reader Set of laser indicators	Vacuum belt Vision system Inlet pressure rollers Outlet pressure rollers Wheels kit Types of guide Barcode reader Set of laser indicators Advanced INTEGRA modules	Vacuum belt Vision system Inlet pressure rollers Outlet pressure rollers Wheels kit Types of guide Barcode reader Set of laser indicators Advanced INTEGRA modules	Vacuum belt Vision system Inlet pressure rollers Outlet pressure rollers Wheels kit Types of guide Barcode reader Set of laser indicators Advanced INTEGRA modules	CleanBelt vacuum belt Wheels kit Long guides Additional Laser Indicators Advanced INTEGRA modules
Accessories	SJ-500 C-600 Delivery table End stacker	SJ-500 C-600 Delivery table End stacker	SJ-500 C-600 Delivery table End stacker	SJ-500 C-600 Delivery table End stacker	SJ-500 C-600 Delivery table End stacker	Delivery table End stacker