

# FLEX

Inkjet single-pass print solutions  
for packaging



 **SMARTJET**

[www.smartjet.it](http://www.smartjet.it)

# A MARKET IN EVOLUTION

## Customisation, but in small batches

In a market demanding more and more customised packaging with sophisticated graphics and a flawless service in terms of lead times and minimum order quantities, it is now becoming crucial for packaging suppliers to have printing systems capable of meeting these needs.

## A solution for every application

Thanks to the consolidated experience in industrial printing, and especially on digital overprinters, SMARTJET has developed a complete range of single-pass inkjet printers with water-based inks that enable packaging manufacturers, printers and distributors to respond effectively to market needs while achieving high profit margins even on small production batches.



# 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!



## 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 signal 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!



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

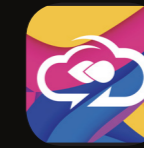
- Monitor daily printed volumes in real time
- Check your print volumes per customer or per application



### 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 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

In recent years, the small-format packaging market has seen consolidation of already known trends and new context-related developments. Now customers increasingly demand **small orders, ultra-fast delivery and customisation of their own packaging**. In addition, the increased complexity related to the availability of raw materials affect procurement times.

In this context, however, it remains an **absolute priority for packaging distributors and printers to respond to the customer with a competitive offer in terms of quality and service**.

For this reason, FLEX printers can play a key role in increasing your competitiveness. On the one hand you can finally offer **customisation even on small orders**, while on the other you can serve your customers with **extremely short delivery times** thanks to the availability of direct printing on **neutral finished products in stock**.



# FLEX 324

## Uncompromising performances



**x2**  
**PRINTING SPEED**  
Up to 46 mt/min

**RESOLUTION**  
Up to 1600dpi

**PRINTING WIDTH**  
324 mm

**SOFTWARE**  
INTEGRA

**APPLICATION THICKNESS**  
Up to 35cm

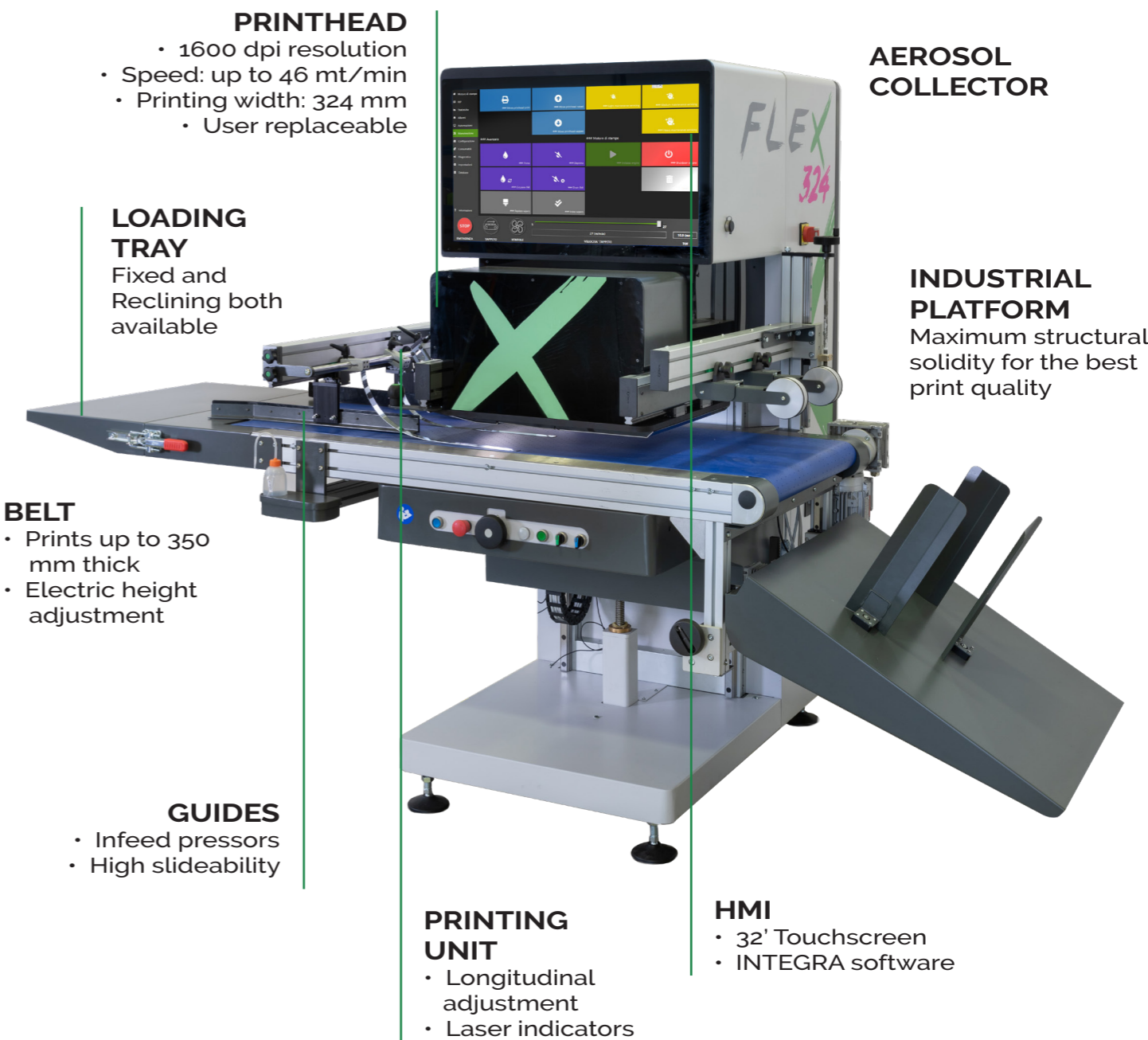
### MATERIALS



### APPLICATIONS



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



**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

### 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



-  **SOFTWARE**  
INTEGRA
-  **PRINTING SPEED**  
Up to 27 mt/min
-  **RESOLUTION**  
Up to 1200dpi
-  **PRINTING WIDTH**  
297 mm
-  **APPLICATION THICKNESS**  
Up to 35cm

### MATERIALS

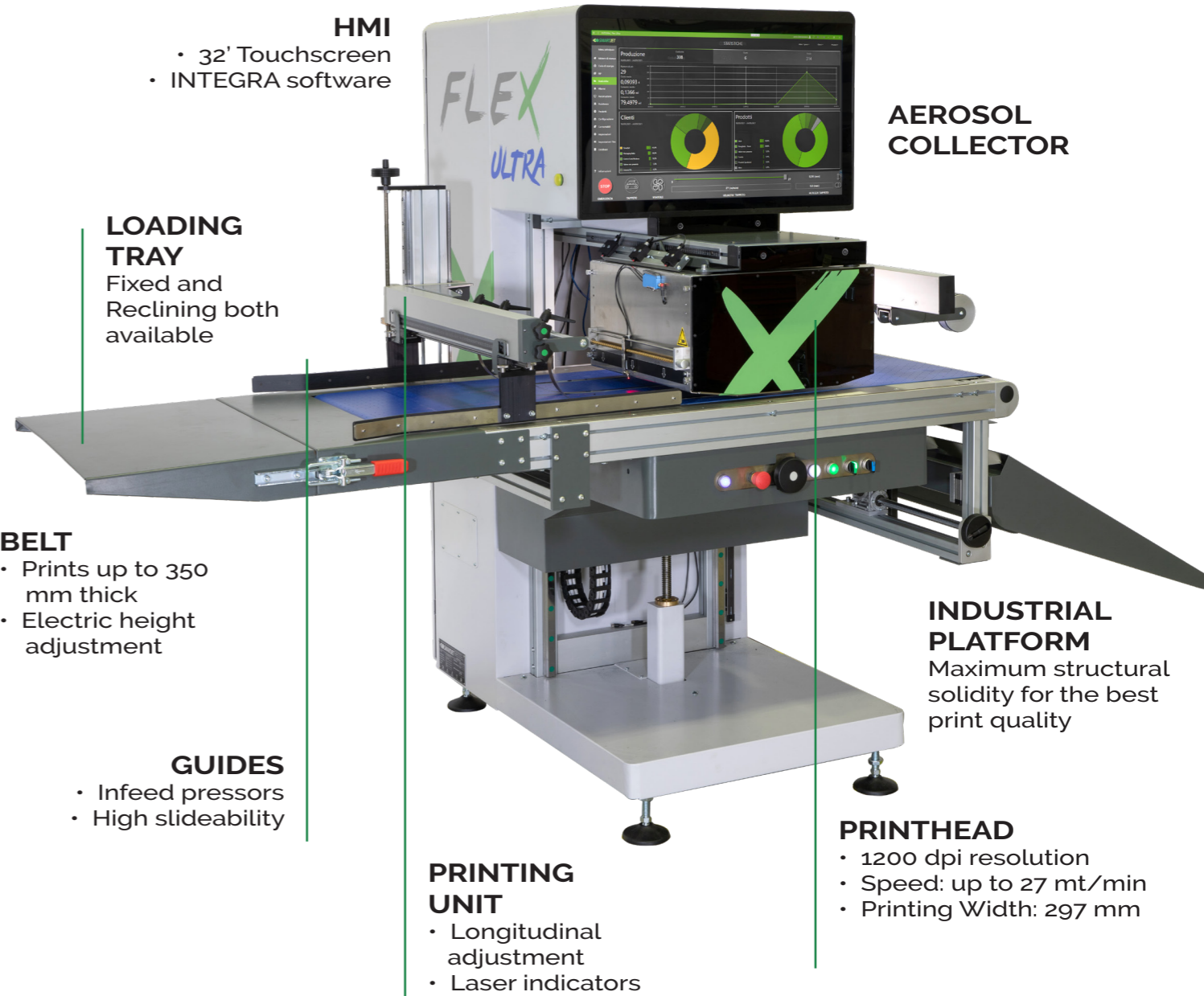
-  PAPER
-  CARDBOARD
-  WOOD
-  COTTON
-  CORK
-  NON WOVEN

### APPLICATIONS

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

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.



### 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)



# The professional, easy-to-use printing solution



-  **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

## 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

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.

**PRINTHEAD**

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

**INDUSTRIAL PLATFORM**

Maximum structural solidity for the best print quality

**AEROSOL COLLECTOR**

**LOADING TRAY**

Fixed and Reclining both available

**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

## TECHNICAL DATA SHEET

Technology	Inkjet Single-Pass
Heads	HP Pagewidth
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)

# FLEX 297

## Single-pass inkjet printing in its essence.



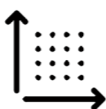
**INDUSTRIAL STRUCTURE**  
Stability and precision during transport



**EFFICIENT INVESTMENT**



**CONFIGURABLE SYSTEM**  
SMARTJET Optionals and Accessories



**RESOLUTION**  
Up to 1200dpi

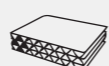


**APPLICATION THICKNESS**  
Up to 35cm

### MATERIALS



PAPER



CARDBOARD



WOOD



COTTON



CORK



NON WOVEN

### APPLICATIONS



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.

#### PRINTHEAD

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

#### LOADING TRAY

Fixed and Reclining both available

#### BELT

- Prints up to 350 mm thick
- Electric height adjustment

#### GUIDES

- Infeed pressors
- High slideability

#### PRINTING UNIT

- Longitudinal adjustment
- Laser indicators

#### AEROSOL COLLECTOR

#### INDUSTRIAL PLATFORM

Maximum structural solidity for the best print quality

### 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	Materiali assorbenti

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

The vacuum belt allows even the lightest applications to remain stable at high printing speeds



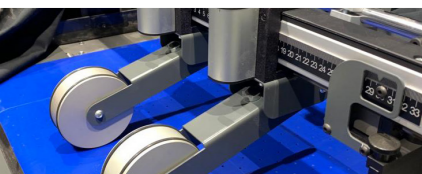
## CRASH PLATE

Ideal for printing on cardboard packaging, this accessory allows the printhead to be protected from substrates that are not always perfectly flat



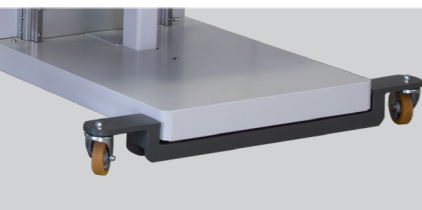
## OUTFEED PRESSORS KIT

Keeps the most rigid applications flat in the post-printing phase. This way you can safeguard the heads and deposit the substrates even more precisely in the collection chute



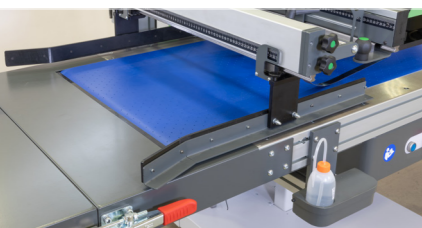
## INFEEED PRESSORS KIT

Get your applications into print even faster and achieve maximum print productivity



## MOVEMENT WHEEL KIT

Ideal for those who need a solution that is easily transportable within the working environment. The set of 4 wheels allows you to move your FLEX easily without the need for a pallet truck or trolley.



## TYPES OF GUIDE

Choose the guides that best suit the applications you intend to print. FLEX allows you to configure the system with bridge guides that accommodate applications up to 950 mm wide, while cantilever guides admit even larger products.



## STOPPERS OF VARIOUS LENGTH

Buy your FLEX with the most suitable set of stoppers for your application. Three types are available: short, medium and long. The choice is yours!!



## SET OF LASER INDICATORS

In addition to the standard equipment that includes a central indicator, the printing system can be upgraded with 2 additional laser indicators. This allows the operator to centre the print quickly.

# ACCESSORIES

Integrate your printing system with original SMARTJET accessories to expand its operational capabilities



## SMARTFEEDER SJ-500

The friction feed module that enables the operator to achieve maximum print productivity



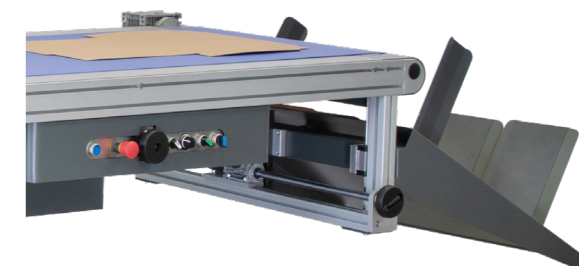
## BELT WITH STACKER FUNCTION

Designed as a complement to the main belt, this accessory facilitates the operator in collecting the finished product



## HEIGHT-ADJUSTABLE COLLECTION CHUTE

By adjusting the magnetic stoppers, entire stacks of material can be collected, thus preparing it for final packaging





# LARGE FORMAT PRINTERS

The significant growth in volumes of folding and corrugated cartons has strongly characterised the development of packaging demand in recent years. In addition to the growth in food packaging, due also to the COVID-19 pandemic, there was a much stronger growth in packaging destined for e-commerce.

On the other hand, the market for these applications increasingly demands **customised products** capable of enriching the experience of the end consumer with increasingly sophisticated visuals. All this while providing an excellent level of service in terms of **fast delivery and minimum order quantities**.



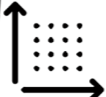
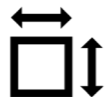

In this regard, FLEX WIDE is the perfect printing solution to serve the customised packaging market in small batches. Thanks to the production flexibility of single-pass inkjet technology, it is finally possible to customise on large formats at extremely low costs, even for small batches.

# FLEX WIDE



## Large format printing in small batches



-  **SOFTWARE INTEGRA**
-  **PRINTING SPEED**  
Up to 46 mt/min
-  **RESOLUTION**  
Up to 1600dpi
-  **PRINTING WIDTH**  
Up to 640 mm
-  **APPLICATION THICKNESS**  
Up to 150mm

### MATERIALS

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

### APPLICATIONS

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

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.



- 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

- PRINTING UNIT**
- Longitudinal adjustment
  - Laser indicators

- HMI**
- 24" Touchscreen
  - INTEGRA software

### 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)

# The complete portfolio



**FLEX 297**

**FLEX PIGMENT**

**FLEX ULTRA**

**FLEX 324**

**FLEX WIDE**

<b>Technology</b>	Inkjet Single-Pass	Inkjet Single-Pass	Inkjet Single-Pass	Inkjet Single-Pass	Inkjet Single-Pass
<b>Print Heads</b>	HP Pagewidth	HP Pagewidth	HP Pagewidth	MEMJET	MEMJET
<b>Print Speed (max)</b>	27 mt/min	27 mt/min	27 mt/min	46 mt/min	46 mt/min
<b>Width (max)</b>	297mm	297mm	297mm	324mm	324mm/640mm
<b>Resolution (max)</b>	1200dpi	1200dpi	1200dpi	1600dpi	1600dpi
<b>Width (max)</b>	over 950mm	over 950mm	over 950mm	over950mm	1200mm
<b>Height (max)</b>	350mm	350mm	350mm	350mm	150mm
<b>Substrate</b>	Absorbent materials	Absorbent materials	Absorbent materials	Absorbent materials	Materiali assorbenti
<b>Ink</b>	Water-based pigment	Water-based pigment	Water-based pigment	Water-based pigment	Water-based pigment
<b>Cartridge</b>	250ml cartridges	250ml cartridges	250ml cartridges	2L Box	2L Box
<b>Interface</b>	PC	15" touchscreen	32" touchscreen	32" touchscreen	24" touchscreen
<b>RIP PRO</b>	Included	Included	Included	Included	Included
<b>Available options</b>	Vacuum belt Crash plate Infeed press roll kit Outfeed press roll kit Movement wheel kit Cantilever guides Long guides Additional laser indicators Advanced INTEGRA modules	Vacuum belt Crash plate Infeed press roll kit Outfeed press roll kit Movement wheel kit Cantilever guides Long guides Additional laser indicators	Vacuum belt Crash plate Infeed press roll kit Outfeed press roll kit Movement wheel kit Cantilever guides Long guides Additional laser indicators Advanced INTEGRA modules	Vacuum belt Crash plate Infeed press roll kit Outfeed press roll kit Movement wheel kit Cantilever guides Long guides Additional laser indicators Advanced INTEGRA modules	CleanBelt vacuum belt Movement wheel kit Long guides Additional Laser Indicators Advanced INTEGRA modules
<b>Accessories</b>	SMART Feeder Additional belt Unloading chute	SMART Feeder Additional belt Unloading chute	SMART Feeder Additional belt Unloading chute	SMART Feeder Additional belt Unloading chute	Additional belt Unloading chute



# 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 digitising the printing process in the manufacturing sector.

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.



## PERFORMA

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

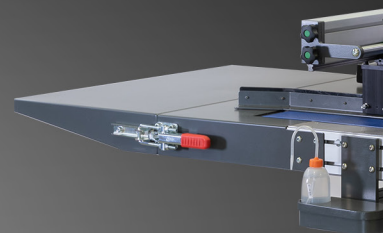
## SMARTLab

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

## RIGENERA

The piezoelectric printhead cleaning solution for industrial solutions.





 **SMARTJET**