

HIGH QUALITY PRINT MADE SIMPLE

MAXIMUM PRODUCTIVITY MINIMUM DOWNTIME



FL3

MODULAR FLEXOGRAPHIC LABEL & PACKAGING PRESS

UNWIND > PRINT > FINISHING > REWIND

edale

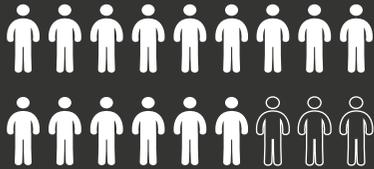
FL3

FL3 - HIGH QUALITY PRINT MADE SIMPLE

The FL3 has been designed with our customers in mind. Market demands for high quality products and swift production meant the need to build a flexible press that permitted minimal downtime whilst retaining superior print quality. Edale designed a modular flexopress to handle a wide range of substrates enabling our customers to keep on top of growing trends without the continual need to invest in new machinery.

With full servo driven technology (no line shaft), the FL3 boasts features such as Edale's unique UniPrint technology, which delivers industry leading print quality and with pre-registration, jobs can be set up in just one web length of material. Further innovations such as the open architecture of the inking system enables rapid changeovers and our market-leading web transportation system offers an extensive substrate range of 12-450 microns.

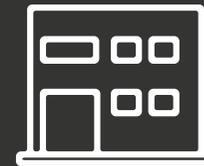
WHY EDALE?



15
Mechanical & Software Engineers

60

60 YEARS
Experience



60,000
sq ft. factory



SOFTWARE DEVELOPED IN-HOUSE
(PLC, Motion control and HMI)



AFTERCARE
(Service, Support, Spares)



**FLEXIBLE
APPROACH**



**HYBRID
TECHNOLOGY**



**PACKAGING
EXPERTS**



INTEGRATION



FL3 - INNOVATIVE TECHNOLOGY

SHAFTLESS DUAL SERVO

Independent servo motors drive both the print and web transport ensuring high precision, control and quality. The FL3's "Shaftless" technology enables Edale's engineers to optimise press performance to the customer application, delivering controlled tension and accurate registration across a wide range of substrates.

SET UP ON-THE-FLY

Edale's "On-The-Fly" technology enables colour changes to be made on redundant print stations whilst the machine is in production. The technology significantly increases productivity and eliminates wasted time when setting up the next job.

UNIiPRINT

Edale's unique "UniPrint" technology ensures optimal and consistent geometry whatever the print repeat. Maintaining an optimal relationship between the anilox, plate and impression roll means the FL3 delivers consistent high quality and uniform dots whatever the print repeat.

XAAR BAR

Integration of Xaar's UV Inkjet Print Bar technology into the FL3 can add significant value, whilst reducing production costs of equivalent traditional analogue technologies such as screen. As an authorised Xaar reseller Edale offers a turnkey solution including the supply of maintenance and consumables.

GEARLESS IMPRESSION

Edale's "Gearless Impression" technology means the FL3 delivers unrivalled substrate flexibility without the need for any adjustment. The technology ensures the same optimal print quality and performance is achieved from 12 micron PET through to 450 micron carton.

SET & FORGET IMPRESSION

This technology pre-sets the print impression and inking settings eliminating need for any more than just fine tuning when changing from one format to another.

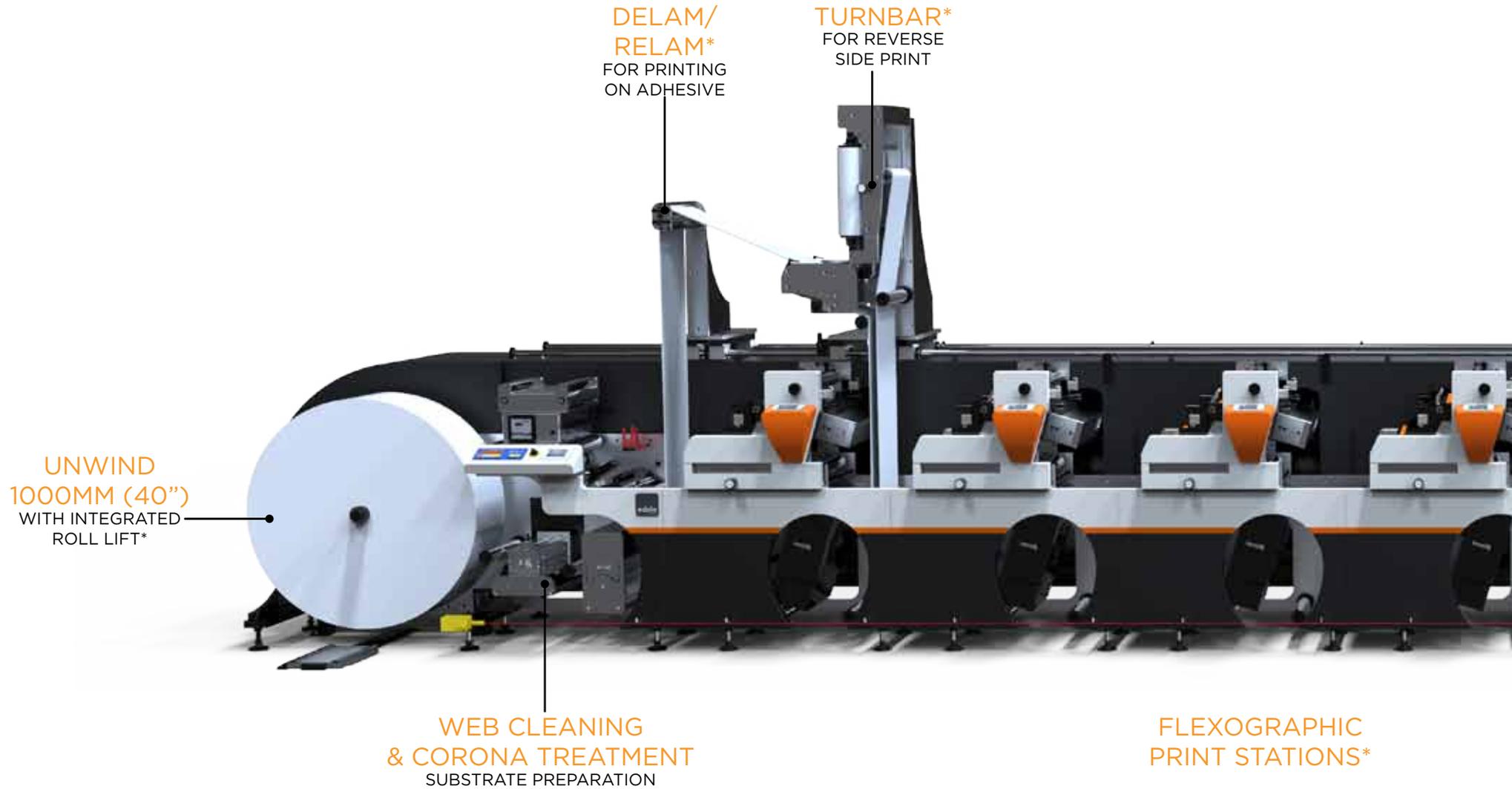
STRIKE

Edale's unique "Strike" technology enables both inking and print impression to be accurately set without running substrate through the machine. Working in combination with the pre-register system it is feasible to set a complete new job in a single press length of material.

SHORT WEB PATH

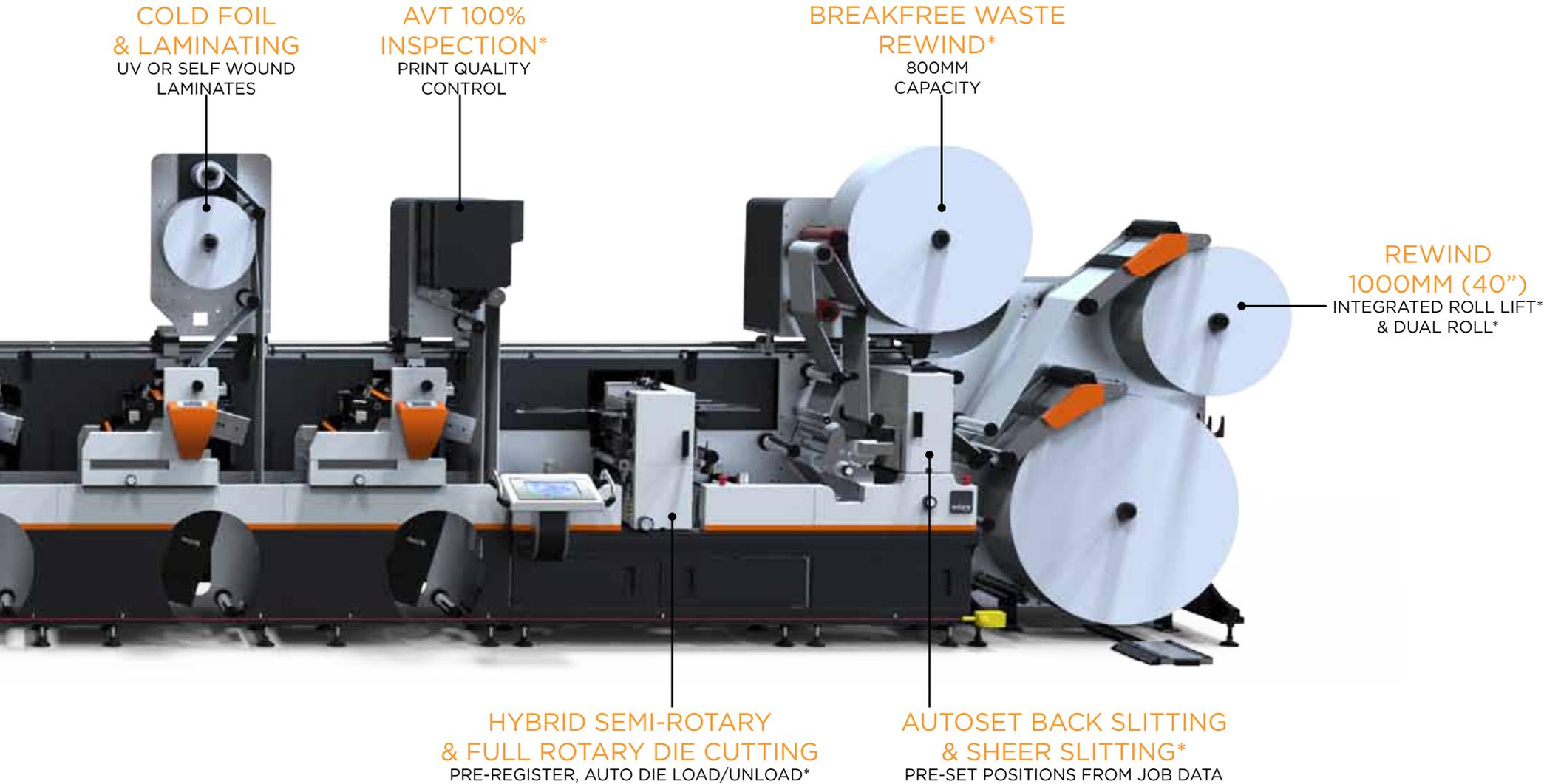
An ultra-short web path of 1.5m between print stations ensures minimal waste and maximum efficiency during print setup and on the run.





PERFORMANCE & TECHNOLOGY

SUBSTRATE RANGE	FLEXO SPEED	WEB WIDTH	PRINTING WIDTH	CONTROL SYSTEM	MAX ROLL CAPACITY
12-450 microns	Mechanical speed 5-200 m/min	350mm/430mm	Flexo: 340mm/420mm Inkjet: 330/410mm Screen: 330mm	Shaftless dual servo	Unwind/Rewind: 1000mm



PERFORMANCE & TECHNOLOGY

WEB PATH DISTANCE	FINISHING	DIE STATIONS	AUTO REGISTRATION	PRE REGISTRATION	REMOTE DIAGNOSTICS
Between Prints UV: 1.5M	Standard or Automated*	Maximum: 3*	Standard	Standard	Standard

*Optional Extra

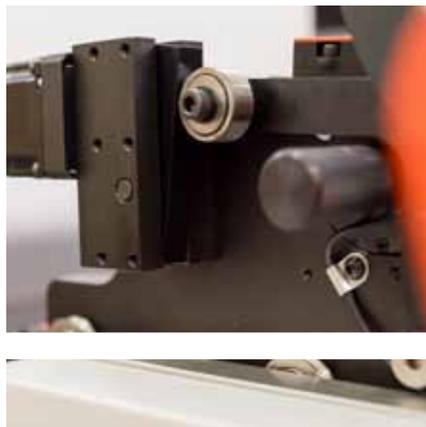
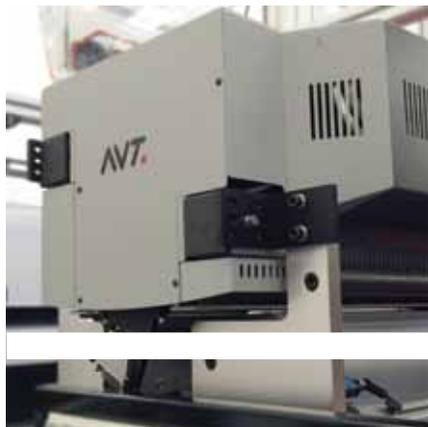


Autonomous Inking, Impression & Registration*

Printers are constantly seeking ways to increase superior output whilst minimising costs. By fully automating print and registration processes, the level of operator intervention can be reduced leading to fewer errors and a higher quality final product. Edale have teamed up with press control system specialist AVT, to integrate their camera based technology, guaranteeing a level of registration not yet seen in a single pass.

Registration marks are printed on each station which is then fed through the AVT Helios S camera which analyses the relative positions of the marks and sends necessary corrections to the respective print stations. Sophisticated tracking software developed by Edale ensures that no additional corrections are made until the initial corrections have passed the camera, overcoming the common problem of an over enthusiastic operator.

The fully automatic image based pressure control technology analyses all the print stations during make ready and adjusts the plate and anilox rollers automatically to bring the press to perfect print pressure which further reduces the reliance on operator input by automating the initial setting of inking and print pressure at the start of each new job.



*Optional Extra



A partnership with AB Graphic International means that highly automated label finishing technology, widely used in digital label finishing, is available on the FL3 and Graphium. This technology serves to reduce setup times and waste whilst reducing tooling cost and reliance on the operator. Furthermore the reduction in tool handling serves to create a safer working environment.

Hybrid Rotary & Semi-Rotary Die Cutting*

A single die cassette that operates in full rotary for high speed converting and semi-rotary mode for quick change provides ultimate flexibility for the converter. In semi-rotary mode the automatic die load/unload reduce operator input whilst increasing accuracy of die plate mounting. The cut position is automatically pre-registered to the print eliminating waste. Semi-rotary technology eliminates the need to change magnetic cylinders, further reducing setup times making converting smarter and safer.

Break Free Waste Rewind*

A hybrid “Break Free” waste matrix rewind system combines both conventional and contact waste stripping technologies. This flexible approach increases productivity when stripping more complex shapes. “Break Free” working in combination with Automated Finishing enables automatic matrix pick-up, further enhancing productivity.

Auto Slit & I-Score*

“AutoSlit” fully automates the setting of the shear slitting and back scoring by positioning the blades based on pre-programmed positions. A higher level of accuracy can be achieved first time whilst significantly reducing setup time and reliance on operator skill.

HYBRID TECHNOLOGY - COMBINING PRINTING AND FINISHING

The Graphium integrated workflow allows digital printing combined with flexographic technologies and automated finishing techniques to provide a one pass solution for multi-faceted labels and packaging.



INTEGRATED WORKFLOW

- Adobe PDF Print Engine
- FFEI/Fujifilm colourpath technology
- Inks database with ink aliasing & spot colour matching tools
- MIS integration support
- Full end to end automation with intelligent job planning for labels
- Dynamic marks
- Automatic matching of job to die tool inventory
- True Hybrid workflow support
- Inkjet barcode optimisation
- Dynamic page splitting

DIGITAL PRINT

- Xaar 1002 print heads with TF technology
- High opacity over and under white*
- Exceptional colour consistency and repeatability
- Wide colour gamut with CMYK
- Durable and lightfast inks with strong adhesion across most substrates
- Decorative and tactile effects that replicate screen print
- High accurate dot placement via inter colour LED pinning, creating sharper more vibrant images

FLEXO PRINT

- Quick set flexographic print stations with pre-register, auto register and automated pressure control* synchronise seamlessly with digital workflow
- Flexo can be positioned pre or post digital to enable digital over printing and printing on the adhesive
- Laminating, foiling or varnishing combined with print in a single process*
- Substrate range from 12-450um

AUTOMATED FINISHING

- Hybrid semi-rotary & full rotary die cutting system*
- Pre-register of print to die cut minimises set up waste
- Automatic die load and unload increases productivity and safety as well as reducing skill levels*
- Automatic setting of back slitting and shear slitting reduces set up time*
- MIS integration and job data storage.
- Jobs finished in a single pass of the machine

DESIGN & CONSULTANCY

With a vast amount of know-how in packaging applications, Edale have a specialist team to not only design and consult but also to manufacture the product – as a one off or as a series manufacture, provide sales support and take control of the product where necessary.



edale



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Manufactured in the UK