HIGH QUALITY PRINT MADE SIMPLE
MAXIMUM PRODUCTIVITY MINIMUM DOWNTIME

UNWIND > PRINT > FINISHING > REWIND
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.
**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 optimize press performance to the customer application, delivering controlled tension and accurate registration across a wide range of substrates.

**UNiPRINT**

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.

**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 12um PET through to 450um carton.

**SET UP ON-THE-FLY**

Edale’s “On-The-Fly” technology enables color 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.

**GRAPHIUM BAR**

Integration of a UV Inkjet Graphium Printbar technology into the FL3 can add significant value, whilst reducing production costs of equivalent traditional analogue technologies such as screen. Applications include variable text, images, barcodes, tint’s, and more with white, black or clear Fujifilm UV Uvijet Ink.

**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.
**FL3**

**FL3**

**DELAM/RELAM**
For printing on adhesive

**TURNBAR**
For reverse side print

**UNWIND**
1000mm (40”)
With integrated roll lift

**WEB CLEANING & CORONA TREATMENT**
Substrate preparation

**FLEXOGRAPHIC PRINT STATIONS**

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**PERFORMANCE & TECHNOLOGY**

<table>
<thead>
<tr>
<th>SUBSTRATE RANGE</th>
<th>FLEXO SPEED</th>
<th>WEB WIDTH</th>
<th>PRINTING WIDTH</th>
<th>CONTROL SYSTEM</th>
<th>MAX ROLL CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-450 microns</td>
<td>Mechanical speed 5-200 m/min</td>
<td>350mm/430mm</td>
<td>Flexo: 340mm/420mm Inkjet: 330/410mm Screen: 330mm</td>
<td>Shaftless dual servo</td>
<td>Unwind/Rewind: 1000mm</td>
</tr>
</tbody>
</table>
COLD FOIL & LAMINATING
UV OR SELF WOUND LAMINATES

AVT 100% INSPECTION*
PRINT QUALITY CONTROL

BREAKFREE WASTE REWIND*
800MM CAPACITY

HYBRID SEMI-ROTARY & FULL ROTARY DIE CUTTING
PRE-REGISTER, AUTO DIE LOAD/UNLOAD*

AUTOSET BACK SLITTING & SHEER SLITTING*
PRE-SET POSITIONS FROM JOB DATA

REWIND 1000MM (40”)
INTEGRATED ROLL LIFT* & DUAL ROLL*

**PERFORMANCE & TECHNOLOGY**

<table>
<thead>
<tr>
<th>WEB PATH DISTANCE</th>
<th>PRINT STATIONS</th>
<th>DIE STATIONS</th>
<th>AUTO REGISTRATION</th>
<th>PRE REGISTRATION</th>
<th>REMOTE DIAGNOSTICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Between Prints UV: 1.5M</td>
<td>Maximum: 12</td>
<td>Maximum: 3</td>
<td>Standard</td>
<td>Standard</td>
<td>Standard</td>
</tr>
</tbody>
</table>

*Optional Extra
Printers are constantly seeking ways to increase superior output whilst minimizing 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 analyzes 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 analyzes 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 mode 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 reduces operator inputs 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 with 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 sheer 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.

*Optional Extra*
ILLUMINA COLDCURE LED CURING

The patented Illumina COLDCURE LED technology provides the highest dosage, longest dwell times, and lowest temperature.

**UV LED Beam Profiles for Flexo Printing**

Using Illumina COLDCURE

**ULTRA-LOW TEMPERATURE**
- Print heat sensitive films without chill drum rollers
- Eliminates condensation issues
- Lengthens life of LED lights
- Eliminates substrate distortion improving registration
- Improved substrate stability resulting in controlled ramp up speed
- Eliminates post print curl of laminated labels

**HIGH DOSAGE AND DWELL**
- 30% to 50% faster production speeds then conventional UV
- 100% faster then waterbase printing on paper substrates
- Improved adhesion range on variable substrates

**LOW ENERGY REQUIREMENTS**
- 85 - 95% less then conventional UV arc
- 50% less then conventional LED
- Eliminates cost of exhaust system
- Reduces ambient air cooling costs
- Qualifies for energy reduction rebates in many localities

**OTHER SAVINGS AND BENEFITS**
- Slow makeready speeds reduce material waste and labor cost by 60%
- Eliminate noise from exhaust system
- Lower odor ink then UV or waterbase
- Smaller equipment footprint
- Eliminate VOC and mercury as required with conventional UV arc

*Optional Extra*
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 series manufacture, provide sales support and take control of the product where necessary.

CONSULT
Present us with your requirements and our team of skilled mechanical and software designers are on hand to design and execute a tailored solution.

DESIGN
Utilizing highly sophisticated 3D CAD, our specialist designers will create your press based on your specifications.

BUILD
Our 60,000ft2 factory houses our dedicated team of skilled manufacturing engineers who will piece together your press.

COMMISSION
Once your press has been built our in-house commissioning engineers test your new press ensuring it's ready to go when it's installed.

APPROVE
Our experienced team of field engineers will install your new press and train staff. Once your press has been approved, you are ready to go.