UNIVERSAL

THE BEST QUALITY OFFSET SLEEVES ON THE MARKET

VARIABLE OFFSET/FLEXO LIGHTWEIGHT SLEEVE PRESS
MULTIPLE SUBSTRATES FROM 15 MICRONS FILM MATERIAL TO 400 MICRONS
CHANGE OF THE PLATE IN LESS THAN 1 MINUTE
TOTALLY MODULAR MACHINE, MULTIPLE COMBINATION PROCESSES IN ONE SINGLE PASS
PATENTED OFFSET SLEEVE TECHNOLOGY
With the latest servo motor technology, the totally modular concept of the UNIVERSAL machine allows for multiple configurations and combination of different printing technologies (offset, flexo for varnishes and spot colours, screen for Braille applications or rotogravure for applications such as gold or silver inks), processing and finishing (cold seals laminations, cold stamping, die cutting, sheeter, etc…) to obtain a top quality finished product in a single pass.

The printing units are equipped with interchangeable lightweight sleeves. The variable repeat is obtained by changing only the plate and blanket sleeve, so the web is not broken and it is an extremely easy and quick system to use.

The sleeves are genuine offset with ring bearers to support high printing pressure and they are designed to work without any need of air for positioning. The simple mechanical locking device allows a very quick sleeve change.

**VARIABLE REPEAT**

**COMBINATION PRESS**

**PRINTING LENGTH**

FORMATS UP TO 32"
The Universal machine is fully automatic regarding the inking system, register, and tension control.

From the PDF of pre-press to the central computer, the machine automatically sets the colour curves into the automated ink fountains of the different printing units. The marks controlled by the automatic register link into the servomotors of the machine, which gives a fully automatic set up in a very few minutes, giving an astonishing result in the minimum waste of printed material.

All modules of the machine are servo-driven. This technology allows individual control of the units to obtain perfect register and size even with the most difficult substrates, giving offset printing quality which is totally constant from the first to the last meter.

Due to the amazing advances made in the technology of 100% solid inks during the last 15 years, these are now capable of being transferred onto non-absorbent substrates such as films, foil, aluminium and polyolefin which has opened a tremendous range of opportunities for Offset Technology in the world of labels and the flexible packaging.

The main advantage is the total absence of solvents in the curable inks therefore of solvents in the curable inks therefore not producing VOC’s (Volatile Organic Components) and the saving of solvent recovery or incinerators costs combined with the lack of production of CO².

The 100% solid UV and EB inks are ideal for transfer in offset printing.
A pioneering company in the manufacture of offset printing presses for the label and flexible packaging industries

Founded in 1970, Rotatek is today a pioneering company in the manufacture of printing machines for the Label and Flexible Packaging industries.

The most outstanding feature that sets it apart is the constant innovation in combining the various in-line printing and processing/finishing Technologies, based always on the wet offset printing processes.

In recent years it has been following a challenging strategic innovation program taking advantage of more than 45 years of history, to manufacture high performance presses for the top market segment providing added value for its customers.

The latest innovations have been focused on combining Offset with different technologies for printing on a wide range of substrates. The Revolutionary Universal machine has been designed to satisfy the most demanding requirements of our customers.

- Outstanding Offset Quality: Recognised worldwide as the highest quality printing process.
- Flexibility: Obtained by changing the format repeat using special genuine offset sleeves with ring bearers, a unique and patented development made by ROTATEK.
- Costs: Offset Plates are much cheaper than Flexo (cliché) and Gravure (cylinder).
- Environmentally friendly: Due to the use of curable UV or EB inks.

### Technical specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Max. speed</td>
<td>350 m/min</td>
</tr>
<tr>
<td>Max. width</td>
<td>520 mm / 680 mm / 850 mm</td>
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<tr>
<td>Min. width</td>
<td>220 mm</td>
</tr>
<tr>
<td>Max. print width</td>
<td>500 mm / 660 mm / 830 mm</td>
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<tr>
<td>Repeats</td>
<td>Variable between 400 and 800 mm</td>
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<tr>
<td>Die cutting repeat</td>
<td>Variable between 400 and 800 mm</td>
</tr>
<tr>
<td>Sheet Cut</td>
<td>Variable between 175 and 711 mm</td>
</tr>
<tr>
<td>Plate Thickness</td>
<td>0,15/0,20 mm</td>
</tr>
<tr>
<td>Blanket Thickness</td>
<td>0,90/1,05 mm adh. blanket</td>
</tr>
<tr>
<td>Unwind diameter</td>
<td>Max 1,500 mm (Max 800 kg)</td>
</tr>
<tr>
<td>Core diameter</td>
<td>70 mm, 76 mm, 150 mm</td>
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</tbody>
</table>

### Optional units

- Flexographic units
- Rotogravure units
- Screen units
- Cold foil stamping
- Die-cutting
- Reprocessing
- Automatic ink control system
- Automatic register control system
- Video system
- 100% inspection system
- Hot stamping
- Laminating stations UV
- Laminating stations hot air
- Variable data inkjet
- Non-stop rewind/unwind
- Corona Treatment
- UV dryer
- EB dryer
- Hot air dryer
- Sheeter
- Others…

### Multiples substrates

- Films, BOPP, PET, PVC (from 12 to 400 microns)
- Shrink Sleeves
- Self Adhesive Labels
- Folding Carton up to 400 gr/m²
- Aluminium
- Paper

*(Please consult us about material thicknesses)*