**DIE CUTTING**

Die cutting is a complex operation requiring stability in machine construction to ensure longevity of the cutting die. Our technology is based on the fast running rotary die cutters used by high performance label web-presses where speeds up to 300 m/min are required (equivalent to 25,000 sheets per hour). Precision bearing construction and temperature control is a critical factor for achieving the very high tolerances demanded as the difference between a good and bad cut is only a few microns. Our standard range of machines is capable of handling a large variety of products and materials. We can offer special creasing solutions for the digital printer avoiding damage to the printed image, a common problem with the traditional creasing methods, special waste removal solutions are also available. The user friendly no tool operation guarantees fast make ready with only a few sheets of waste. The secure and safe design allows the equipment to be used by regular finishing department staff without any specialist press operating skills.

**FLATBED TRADITIONAL DIE CUTTING VERSUS ROTARY DIE CUTTING**

**Advantage:**
- Low investment

**Disadvantage:**
- Long set up time
- High waste
- Qualified operator required
- Simple cutting shapes
- Dangerous to operate
- Slow
- Tools required for operation
- Manual waste stripping or guillotine cutting

**Advantage:**
- Fast set up time
- Low waste
- None skilled operator
- Complex cutting shapes
- Safe to operate
- Fast
- No tool operation
- Automatic waste stripping

**Disadvantage:**
- Thickness of material limited

**CUTTING AND CREASING RESULTS DIFFERENT CYLINDER CONFIGURATIONS**

<table>
<thead>
<tr>
<th>Die cutting technology</th>
<th>die cutting only</th>
<th>results with board</th>
<th>results double laminated material</th>
<th>cutting and creasing</th>
<th>result in general</th>
</tr>
</thead>
<tbody>
<tr>
<td>Traditional flatbed die cutting</td>
<td>Wooden die against soft counterplate</td>
<td>Excellent result however long make ready time</td>
<td>Good result but long make ready time</td>
<td>Wooden die with self adhesive counterline</td>
<td>Excellent result wide range of parameters however long make ready time</td>
</tr>
<tr>
<td>Rotary die cutting with magnetic cylinder against hardened anvil</td>
<td>Flexible die against anvil</td>
<td>Excellent result short make ready time</td>
<td>Good result short make ready time</td>
<td>Flexible die with self adhesive counterline</td>
<td>Poor result limited range of parameters and long make ready</td>
</tr>
<tr>
<td>Rotary die cutting with magnetic cylinder against magnetic anvil</td>
<td>Flexible die against thin counterplate</td>
<td>Good result but limited die life</td>
<td>Bad result</td>
<td>Double flexible die</td>
<td>Excellent result wide range of parameters and very short make ready time</td>
</tr>
<tr>
<td>Rotary die cutting with magnetic cylinder against double anvil, magnetic and hardened</td>
<td>Flexible die against anvil</td>
<td>Excellent result short make ready time</td>
<td>Good result short make ready time</td>
<td>Double flexible die</td>
<td>Excellent result wide range of parameters and very short make ready time</td>
</tr>
</tbody>
</table>
This machine offers you the possibility to
- Cut through
- Kiss cut
- Emboss
- Crease

Simply by putting the die on the magnetic cylinder you can process regular or irregular shaped products with materials such as:
- Paper
- Cardboard
- Pressure sensitive materials of any kind
- Laminated foils
- Plastic materials

Standard features of the DFCC PRO 3C are:
- High performance pile feeder or short run pack feeder
- Triple cylinder technology
- Single die operation for die cutting only
- Male and female die for cut and crease
- Plate mounting assistant for die mounting
- Double sheet detection
- Hydraulic pressure gauges
- Registration on printed image
- Automatic waste removal
- High tech motion control drive
- Job storage function
- Very compact design

Double die technology
### TECHNICAL SPECIFICATION DFCC PRO 3C

<table>
<thead>
<tr>
<th>Parameters DFCC PRO 3C</th>
<th>die cutting only</th>
<th>cutting &amp; creasing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. sheet size in mm</td>
<td>160 x 120</td>
<td>160 x 120</td>
</tr>
<tr>
<td>Max. sheet size in mm</td>
<td>550 x 400</td>
<td>550 x 390</td>
</tr>
<tr>
<td>Min. substrate thickness in micron</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Max. substrate thickness in micron</td>
<td>700*</td>
<td>600</td>
</tr>
<tr>
<td>Feeder</td>
<td>pack or pile</td>
<td>pack or pile</td>
</tr>
<tr>
<td>Stack/pile height in mm</td>
<td>60 or 630</td>
<td>60 or 630</td>
</tr>
<tr>
<td>Standard die thickness in mm</td>
<td>0,8</td>
<td>0,8</td>
</tr>
<tr>
<td>Circumferential register</td>
<td>360 *</td>
<td>360 *</td>
</tr>
<tr>
<td>Lateral adjustment in mm</td>
<td>5 +/-</td>
<td>5 +/-</td>
</tr>
<tr>
<td>Type of anvil</td>
<td>standard or magnetic</td>
<td>magnetic</td>
</tr>
<tr>
<td>Circumference die cylinder in mm</td>
<td>550,3</td>
<td>550,3</td>
</tr>
<tr>
<td>Circumference anvil cylinder in mm</td>
<td>550,3</td>
<td>550,3</td>
</tr>
<tr>
<td>Speed in sheets/hour</td>
<td>6000**</td>
<td>6000**</td>
</tr>
<tr>
<td>Dimensions in cm (approx.)</td>
<td>300 x 80 x 110</td>
<td>300 x 90 x 115</td>
</tr>
<tr>
<td>Power</td>
<td>3x400V/16A</td>
<td>3x400V/16A</td>
</tr>
<tr>
<td>Weight in Kg.</td>
<td>830</td>
<td>830</td>
</tr>
</tbody>
</table>

Remarks:  
* Depending on die thickness  
** Depending on size, substrate and shape of cut

### PRODUCT SAMPLES

- Booklet
- A 4 folder
- Business cards