

# DFCC PRO 3C

SHORT RUN ERGONOMIC  
DIE CUTTING SOLUTION  
FOR THE PROFESSIONAL

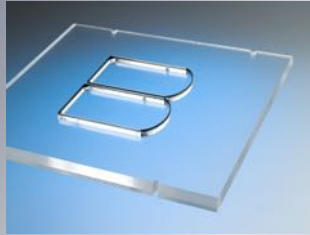


**Die cutters**

# 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

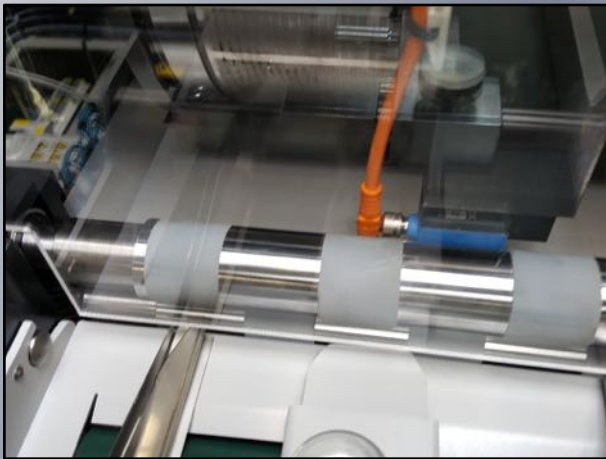
Die cutting technology	die cutting only	results with board	results double laminated material	cutting and creasing	result in general
<b>Traditional flatbed die cutting</b>	Wooden die against soft counterplate	Excellent result however long make ready time	Good result but long make ready time	Wooden die with self adhesive counterline	Excellent result wide range of parameters however long make ready time
<b>Rotary die cutting with magnetic cylinder against hardened anvil</b>	Flexible die against anvil	Excellent result short make ready time	Good result short make ready time	Flexible die with self adhesive counterline	Poor result limited range of parameters and long make ready
<b>Rotary die cutting with magnetic cylinder against magnetic anvil</b>	Flexible die against thin counterplate	Good result but <b>limited die life</b>	<b>Bad result</b>	Double flexible die	Excellent result wide range of parameters and very short make ready time
<b>Rotary die cutting with magnetic cylinder against double anvil, magnetic and hardened</b>	Flexible die against anvil	Excellent result short make ready time	Good result short make ready time	Double flexible die	Excellent result wide range of parameters and very short make ready time



Short run pack feeder



High performance pile feeder



infeed with print-mark sensor

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



Triple cylinder technology with hydraulic pressure gauges

## TECHNICAL SPECIFICATION DFCC PRO 3C

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

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

## PRODUCT SAMPLES



Booklet



A 4 folder



Business cards



**BN Graphic Service b.v.**  
**Loohorst 14**  
**NL-7207 BM Zutphen**  
**Tel. +31 575 51 36 12**  
**Fax +31 575 51 70 83**  
**E-mail: info@bngraphic.com**