

OFC
SHORT RUN
HIGH PERFORMANCE
DIE CUTTING SOLUTIONS

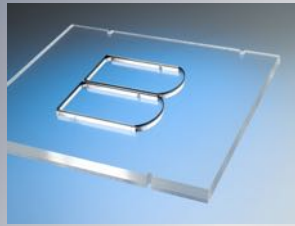


Die cutters

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
- Manual waste stripping or guillotine cutting
- Slow



Advantage:

- Fast set up time
- Low waste
- None skilled operator
- Complex cutting shapes
- Low hourly rate
- Very fast
- No tool operation
- Safe to operate
- Automatic waste stripping

Disadvantage:

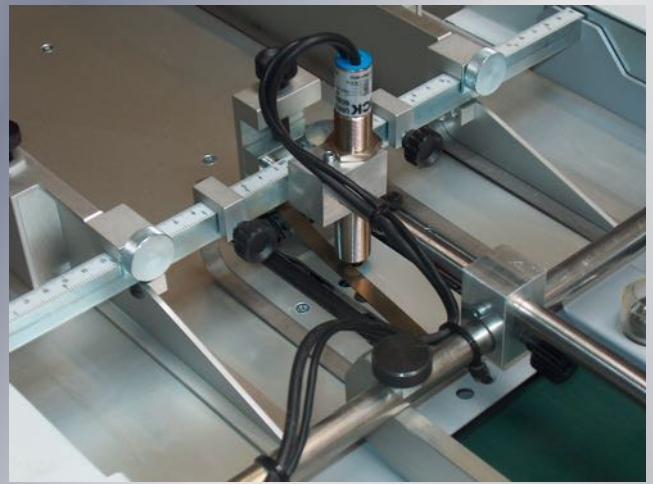
- Thickness of material limited

CUTTING AND CREASING RESULTS DIFFERENT CYLINDER CONFIGURATIONS

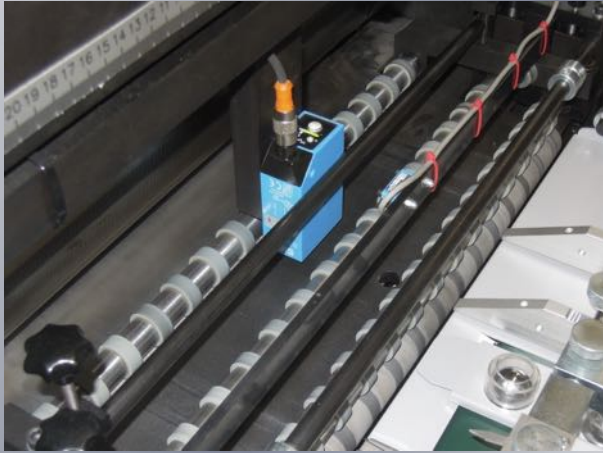
Die cutting technology	die cutting only	results with board	results double laminated material	cutting and creasing	result in general
Traditional flatbed die cutting	Wooden die against soft counterplate	Excellent result however long make ready time	Good result but long make ready time	Wooden die with self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



Standard pile feeder for OFC and OFCX



Double sheet detection



Triple infeed rollers with 2 register sensors

This machine offers you the possibility to

- Cut through
- Cut and crease
- Kiss cut
- Emboss

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

Standard features of the OFC series are:

- High performance pile feeder
- Single die operation for die cutting only
- Male and female die for cut and crease
- Angle cut technology for extended die life
- Magnetic and standard anvil in carroussel for fast make ready
- Registration on sheet edge or printed image
- Automatic waste removal possible
- Double sheet detection
- Hydraulic pressure gauges



Control panel



Anvils in running position



Anvils in changing position

TECHNICAL SPECIFICATION

Parameters	OFC	OFCX
Min. sheet size in mm	160 x 120	160 x 120
Max. sheet size in mm	635 x 430	760 x 610
Min. substrate thickness in micron	50	50
Max. substrate thickness in micron	600	600
Feeder	pile	pile
Pile height in mm	630	630
Standard die thickness in mm	0,8	0,8
Circumferential register	360 °	360 °
Lateral adjustment in mm	5 +/-	5 +/-
Type of anvil	standard and magnetic	standard and magnetic
Circumference die cylinder in mm	647,7	762
Circumference anvil cylinder in mm	647,7	762
Mechanical speed in sheets/hour	8.000**	10.000**
Dimensions in cm (approx.)	300x160x150	330x170x180
Power	3x400V/16A	3x400V/16A
Weight in Kg.	1.200	1.350

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

PRODUCT SAMPLES



Booklet



A4 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