

# BREAK THE MOULD CREASE & FOLD



*Morgana DigiFold™*

*Morgana*

THE FIRST NAME IN DOCUMENT FINISHING SOLUTIONS



# Morgana DigiFold™

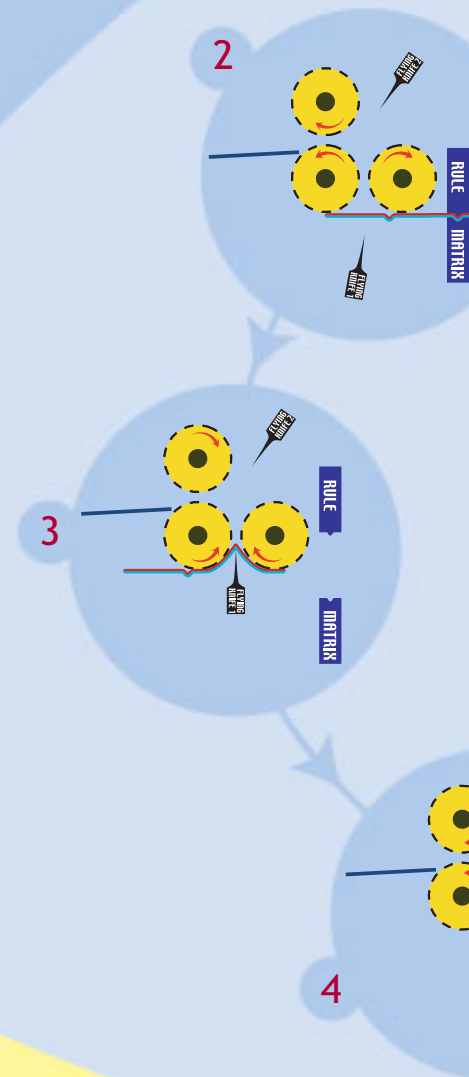
*The first integrated creasing and folding machine -  
confirming Morgana's position as a world leader in digital print finishing*

The revolutionary DigiFold is manufactured in the UK by Morgana Systems Ltd., the company that made an earlier breakthrough in digital finishing technology with the AutoCreaser. The AutoCreaser provided the first fully automated solution to one serious problem inherent in the digital print process - the tendency of output to crack when folded without previously being creased. The DigiFold goes a vital step further by combining this proven creasing technology with a new, patented folding method that will not mark or scratch even the most sensitive materials.

By combining the functions of creasing and folding in a single, compact unit, Morgana has provided the printer with a highly productive, easy to use and mobile finishing centre that is equally effective with digital output or with heavy, cross-grained stocks printed by conventional means.

## *Versatile DigiFold Works in Three Ways*

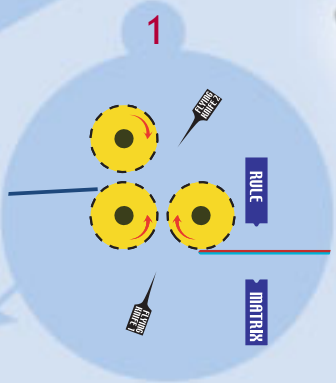
- As an integrated creaser/folder performing both functions in a single pass
  - As a creaser alone, when folding is not required
  - As a folder alone, when creasing is not needed



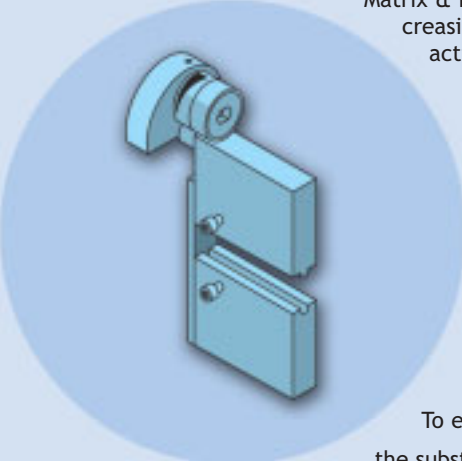
PROFESSIONAL  
CREASING  
& FOLDING  
MACHINES



Most controls are located in a centrally positioned panel

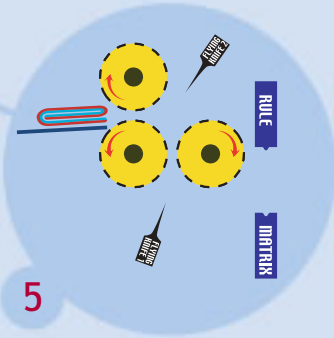
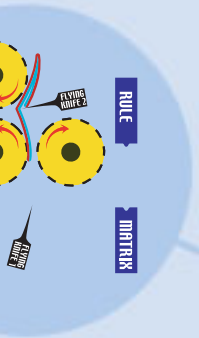


Matrix & rule creasing action



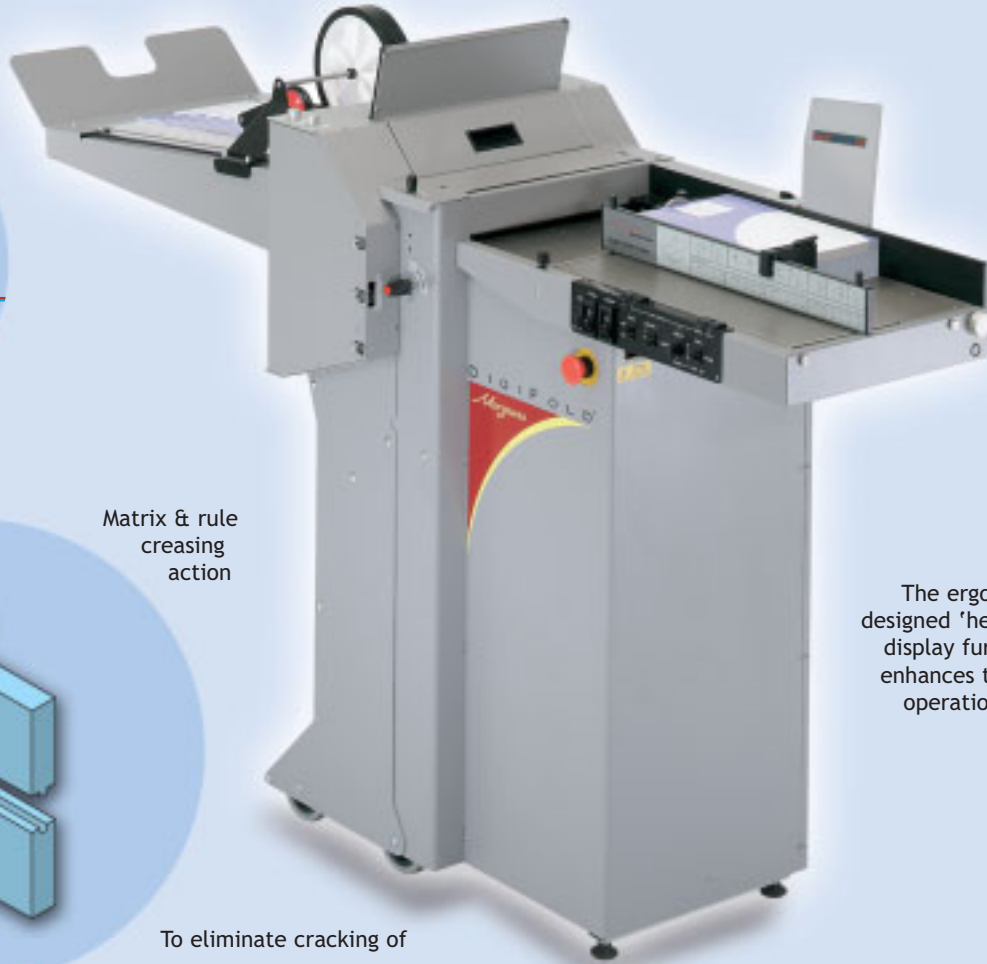
To eliminate cracking of the substrate the AutoCreaser employs a technique by which the fibres are embossed to weaken them.

The creasing mechanism consists of a male creasing rule and a female matrix that come together to perform a superb crease. By embossing the paper in this way, cracking is eliminated.



5

The electronic stacker positions itself automatically for most jobs



The ergonomically designed 'head-up' display further enhances the operation



## ***DigiFold - The Background***

The DigiFold concept is the result of substantial investment and years of research and development work by Morgana Systems.

The unit incorporates the automated creasing technology (using a creasing rule and matrix) that has made the Morgana AutoCreaser a huge success in markets throughout the world.

Morgana is also highly regarded for its folders, such as the best-selling UFO series, but for DigiFold the company has come up with something entirely new. The patented folding system used in the DigiFold dispenses entirely with buckle plates or conventional knives, using instead an electronically controlled 'flying knife' contoured around extra large diameter rollers and moving at the same speed as the material passing through the machine.

Rather than the solid reflector used in most folders, the DigiFold uses another patented device in the form of a dynamic sheet deflector that only comes in contact with the leading edge of the sheet. This allows single or multiple folds to be performed without risk of scratching or marking.

## ***DigiFold - How it Operates***

For standard configurations, DigiFold works in 'Set-to-Fold' mode. Once the required fold and sheet length have been selected, a powerful programme automatically sets the creasing and folding position.

'Set-to-Position' operation is employed when extra creases are needed or difficult configurations have to be programmed. In this mode the operator dials in the creasing and folding positions.

A third method of operation allows the DigiFold to be used as an automated creasing machine or, alternatively, allows creasing to be by-passed and the unit used just as a folder for conventionally printed or lighter stocks.

- Handles sheet sizes to 630 x 330mm
- Will fold and crease substrates in excess of 300 gsm
- Fully automated operation
- Head-up display for easy set-up



*Morgana*

# SET-UP AS EASY AS 1-2-3

The digital print market demands document finishing products that not only overcome the problems associated with new printing technologies but also products which are easy to set-up.

This market very often lends itself to shorter run lengths or variable data. Therefore speed of 'make-ready', minimal wastage and ease of operation are key purchasing criteria.

The Morgana DigiFold matches these criteria by using advanced electronics. A two level menu shown on the 'head-up' display asks whether you want to crease and fold, crease only, or fold only.

Thereafter the operator simply selects the type of job required, dials in the sheet length or crease positions and automation takes over.

With any document finisher it may be necessary to make small adjustments. The DigiFold allows crease or fold positions to be adjusted by increments of 0.1mm. The position of the delivery stacker and fold rollers can also be adjusted to compensate for substrate thickness.

*It really is as simple as that.*



*Single Fold*



*Double Parallel Fold*



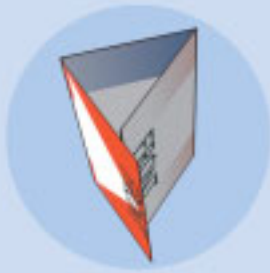
*Engineering Fold*



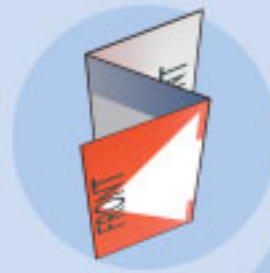
*Gate Fold*



*Closed Gate Fold*

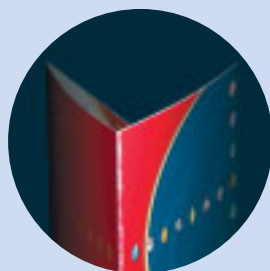


*Letter Fold*



*Concertina Fold*

...all the above whilst using our anti-cracking solution below



*Conventional Folding Machine*



*Morgana DigiFold™*

## Technical Information

### SPECIFICATION

### DIGIFOLD

#### OVERALL DIMENSIONS

Length	1830mm
Width	555mm
Height	1185mm
Weight	180kgs

#### POWER REQUIREMENT

1ph 220/240v

#### MAXIMUM SPEED A4 S.P.H.

1800

#### MAXIMUM SHEET SIZE

Length	630mm
Width	330mm

#### MINIMUM SHEET SIZE

Length	160mm
Width	140mm

#### MAXIMUM PAPER WEIGHT

350gsm+

#### MINIMUM PAPER WEIGHT

90gsm

#### MAXIMUM NUMBER OF CREASES PER SHEET

9

#### MAXIMUM NUMBER OF FOLDS PER SHEET

2

#### MAXIMUM NUMBER OF STORED PROGRAMMES

6

#### MINIMUM REPEAT CREASE DISTANCE

4mm (depending on paper weight)

#### MINIMUM CREASE DISTANCE FROM LEADING EDGE

25mm

#### MINIMUM FOLD DISTANCE FROM LEADING EDGE

25mm (depending on paper weight)

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