

## Technical Information

Specification	DigiFold™
<b>OVERALL DIMENSIONS</b>	
Length	1830mm
Width	555mm
Height	1185mm
Weight	180kgs
<b>POWER REQUIREMENT</b>	
	1ph 220/240v
<b>MAXIMUM SPEED A4 S.P.H.</b>	
	1500
<b>MAXIMUM SHEET SIZE</b>	
Length	648mm
Width	330mm
<b>MINIMUM SHEET SIZE</b>	
Length	160mm
Width	140mm
<b>MAXIMUM PAPER WEIGHT</b>	
	400gsm+
<b>MINIMUM PAPER WEIGHT</b>	
	120gsm
<b>MAXIMUM NUMBER OF CREASES PER SHEET</b>	
	9
<b>MAXIMUM NUMBER OF FOLDS PER SHEET</b>	
	2
<b>MAXIMUM NUMBER OF STORED PROGRAMMES</b>	
	6
<b>MINIMUM REPEAT CREASE DISTANCE</b>	
	4mm (depending on paper weight)
<b>MINIMUM CREASE DISTANCE FROM LEADING EDGE</b>	
	25mm
<b>MINIMUM FOLD DISTANCE FROM LEADING EDGE</b>	
	25mm (depending on paper weight)

*Morgana*

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**Number 1** in  
Digital  
Print  
Finishing

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Manufactured in the U.K.

*Morgana*

**A GUARANTEED UPGRADE PATH**

**TO THE FINEST  
IN CREASING TECHNOLOGY  
WITH GUARANTEED BUY-BACK!**

From the entry level Docu-Crease through to the DocuMaster total finishing system, Morgana offers efficient and cost effective solutions to all digital finishing requirements. And to ensure that customers have a clear UPGRADE PATH to meet future finishing needs, Morgana also operates a guaranteed buy-back scheme on all creasing products.

**Docu-Crease™**  
Quality hand creasing  
in 35cm & 52cm sizes



**Electro-Creaser™**  
Semi-automatic for  
single or multiple  
crease. Also 35  
& 52cm sizes

**DigiCreaser™**  
Brand new creaser filling  
the gap between semi  
and fully automatic  
systems



**AutoCreaser™**  
Now in AutoCreaser 33  
and AutoCreaser 50  
versions - the latter  
taking larger sizes  
and operating faster  
than the original  
best-seller

**DigiFold™**  
Morgana's unique  
combination of  
patented creasing  
& folding  
techniques in  
one unit



**DocuMaster**  
A fully  
intelligent  
feeder, creaser &  
bookletmaker  
taking work direct  
from the digital  
printer

**BREAK THE MOLD  
CREASE &  
FOLD**



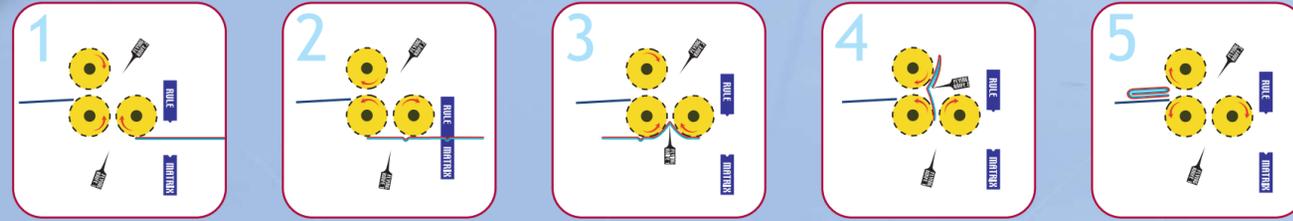
**MORGANA  
DigiFold™**

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THE FIRST NAME IN DOCUMENT FINISHING SOLUTIONS

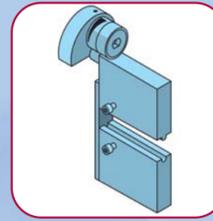


# The first integrated creasing and folding machine - the versatile DigiFold



The heart of the success of the DigiFold™ is the creasing rule and matrix.

Morgana use stepping motor technology to accurately position the substrate before creasing and we use the same technology with the creasing action. This gives total and consistent accuracy during operation. With thousands of mechanism's installed throughout the world our creasing technology is unparalleled in both performance and longevity which is why we offer a life long guarantee on the rule and matrix.



### Head Up Display

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



### Control Panel

Most controls are located in a centrally positioned panel



### Adjustable Rollers.

The rollers can be adjusted to compensate for varying weights of stock and to eliminate any possible marking on sensitive materials.



### Electronic Stacker

The electronic stacker positions itself automatically for most jobs.



### 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.

- Handles sheet sizes to 630 x 330mm
- Will fold and crease substrates in excess of 400gsm+
- Fully automated operation
- Head-up display for easy set-up



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 reduces the possibility of marking or scratching 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 Two Ways

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

### 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.

# 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.

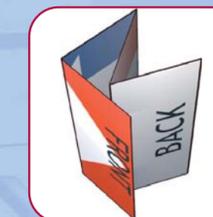
The Morgana DigiFold matches these criteria by using advanced electronics. A two level menu shown on the 'head-up' display asks whether you want to crease and fold, crease only, or fold only. Thereafter the operator simply selects the type of job required, dials in the sheet length or crease positions 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 (0.004"). The position of the delivery stacker and fold rollers can also be adjusted to compensate for substrate thickness.

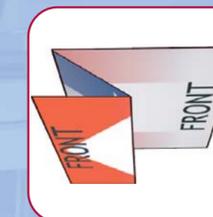
It really is as simple as that.



Single Fold



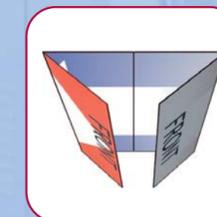
Double Parallel Fold



Engineering Fold



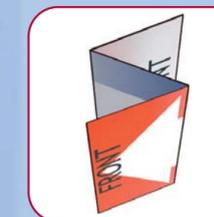
Gate Fold



Closed Gate Fold



Letter Fold



Concertina Fold

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

### Creasing versus Scoring

Traditional rotary scoring machines use circular blades that are in constant motion as the stock passes through them. This creates a ploughing action that actually cuts through the top fibres of the paper or card in order to create a score. Inevitably this weakens the paper and encourages cracking.

In contrast, the Morgana DigiFold employs a unique creasing rule and matrix - as illustrated - that eliminates tearing and, therefore, cracking.



Number 1 in Digital Print Finishing

Morgana