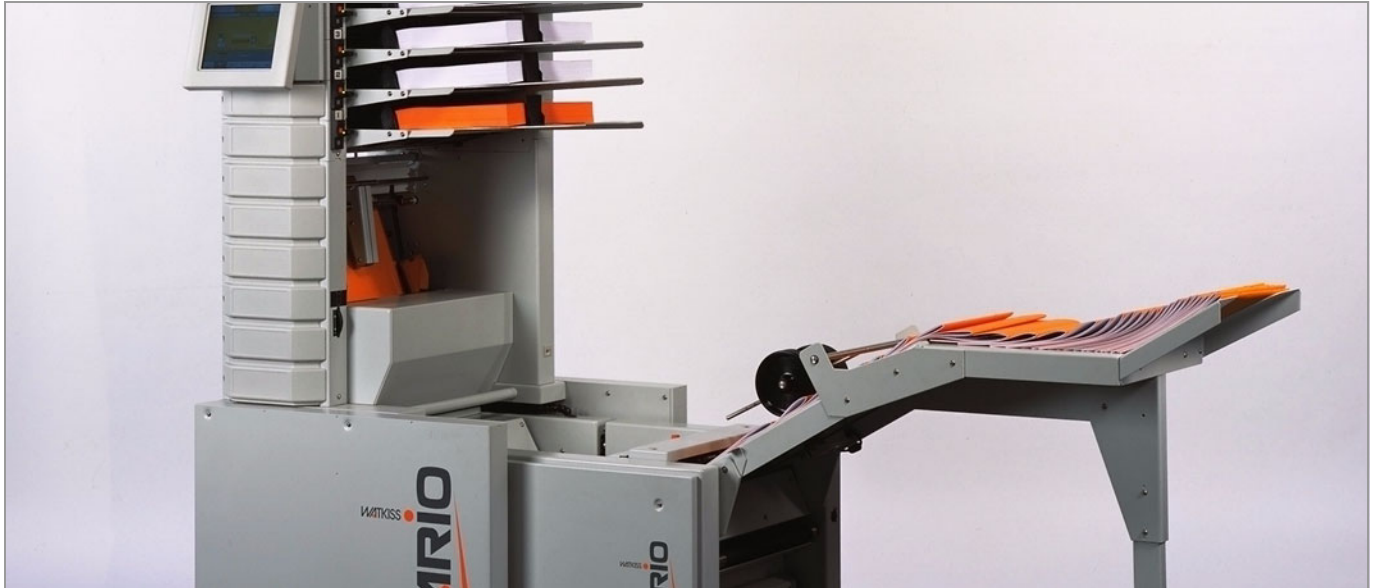




CREATIVITY • ACCURACY • EFFICIENCY

## Watkiss Barcode Reader

for the Watkiss Document Finishing System



The optional barcode reader module fully integrates into the control system of the Document Finishing System. It is configured through the colour touch-screen user interface.

### Security verification and control

Where verifiable integrity is needed, the barcode reader provides multi-level security verification at sheet, set and document level. It can also control the insertion of covers and multiple additional sheets for customized sets. Users can configure the system to inter-

pret the barcode characters as required, and save the configurations in easy recall job memories.

This means that every sheet can be guaranteed accurate; and every set or document can be customized. It extends variable data beyond the printer to the finisher; with the potential for each set or document to include a different combination of additional inserted sheets.

For security verification, elements include job, document and sheet identifiers, a sheet counter and sequence check. Controls for sheet

feeding and insertion include insert and specified feed and read commands.

The barcode position is flexible ~ when booklet making, it can be positioned in the trim margin so that it is trimmed off the finished booklet. Alternatively, it can be positioned in the centre of the sheet, so that it is in the gutter (spine) of the finished booklet.



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## Barcode Specifications

<b>Minimum Height</b>	3.5mm preferred, 2mm possible
<b>Length</b>	2 - 22 characters
<b>Type</b>	Code 128 is the preferred format. Code 39 may be used.
<b>Resolution</b>	The print should have a minimum resolution of 0.3mm. This applies to the line width and line separation.
<b>Colour</b>	Black barcode on a white background is recommended. Other colour combinations should be tested for reliable performance prior to proceeding.
<b>Position</b>	The barcode reads across the width of the sheet (i.e. a picket fence barcode). The barcode can be positioned anywhere across the width of the feed edge of the sheet. Minimum distance from feed edge of sheet: 2mm. Minimum distance from trailing edge of sheet: 130mm. When booklet making, this means that the barcode can be positioned in the trim margin, so that it is trimmed off the finished booklet. Alternatively it can be positioned in the centre of the sheet, so that it is in the gutter (spine) of the finished booklet.
<b>Orientation</b>	When the printed sheets are loaded into the Watkiss feed bin, the barcode will be on the underside of the sheet. When booklet making, the barcode should therefore be printed on the outside face of each sheet - i.e. facing the cover of the booklet and on the outside of the cover.

## Barcode Elements

<b>- Undefined</b>	This character of the barcode is not used.
<b>J Job ID</b>	This ID is a static job identification code and is fixed at the start of a Job. All sheets of the Job must have the same ID.
<b>Q seQuential</b>	This is a sequential sheet identification number running through whole job. This may count up or down; it is initialised at the start of the job.
<b>D Document ID</b>	This is a document/set identification code. All sheets of the document/set must have the same ID. This is initialised on the first sheet of a set.
<b>Z siZe of set</b>	This is the number of sheets in the set. It is used in conjunction with the Sheet counter.
<b>S Sheet counter</b>	This is the sheet number within the set. If used together with siZe, no First or Last mark is needed. It may count up or down. If siZe is not used, either a First or Last mark must be used. If a First marker is used, the counter must count down. If a Last marker is used, the counter must count up.
<b>F First sheet of the set</b>	This marks the first sheet of a set and must be used in conjunction with the Sheet counter (counting downwards).
<b>L Last sheet of the set</b>	This marks the last sheet of a set. It is not necessary to use a Last marker if both S and Z are used.
<b>T sTop</b>	Terminates operation of the machine after this sheet.
<b>I Insert</b>	Inserts a sheet from the relevant feeder. e.g. If I = 3, a sheet will be inserted from bin 3. This character can be used as many times as required within the barcode to give multiple inserts.
<b>R Read</b>	Feed a sheet and Read the Barcode from a specified feeder. e.g. If R=3 the next feed will be from Bin 3 and the Barcode on that sheet will be used to control the subsequent actions. NB. If R=0 then subsequent feed and control will pass back to the master (test set) bin