Digitizing Line

DL 3000

4DigitalBooks™

i2S LAND OF VISION

Automatic Page Turning and Scanning of Books

The Digitizing Line is a unique automated solution for fast turning pages and digitizing of all types of books, magazines and newspapers, featuring unattended operation up to 2500 pages per hour.

Designed by **4DigitalBooks**, The Digitizing Line integrates **i2S** scanner technology allying breath taking productivity and exceptional image quality.

Optical resolutions at 200 and 300 dpi are available for OCR applications of page formats ranging from DIN A5 (148x210 mm) to DIN A2 (420x594 mm).

TECHNOLOGY

The Digitizing Line is a scaning solution, that integrates innovative and reliable technologies for page turning and image capture, that respect the safety of document and operator's ergonomics and labor safety.

The Digitizing Line has an automatic book cradle that ensures optimal book placement to present pages for repeatable image positioning. Associated with automatic detection of book parameters it contributes to optimum digitizing of the largest variety of materials.

The Digitizing Line is a powerful scanner offering exceptional image quality, using a non-aggressive light and two SnapShot cameras capturing left and right pages of bound documents.

FEATURES

- automatic detection and adapting to parameters of the book
- flexible algorithm finds the best way to separate pages
- incomparable performance versus manual operator
- no human error or fluctuations in productivity
- suitable for recent and ancient books
- handles softly the pages and the binding
- one operator may drive 4 units at the same time
- ensured one page turn at a time, no missing of pages
- storage of book parameters as presets for faster operation
- lifetime and reliability suitable for 24 hours - 7 days operation
- higher quality images as pages are presented under a glass
- accepts books with mixed paper thickness, texture and porosity
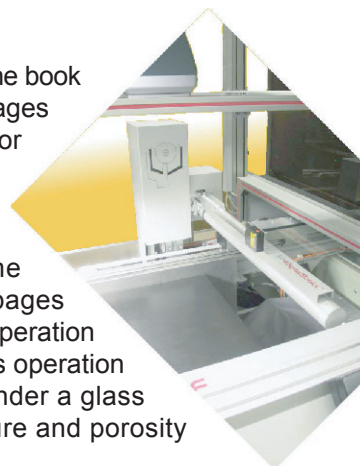
Dimensions LxWxH : 3.1 x 1.5 x 2.2 m
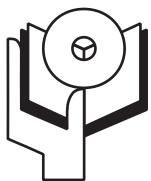**Height of Book Holder :** 1 m

Weight : 1200 kg
Power : 400 V - 3 phase - 10 kVA

www.4digitalbooks.com

www.i2s-bookscanner.com

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DOCUMENTS ACCEPTED

document types :	books, magazines and bound newspapers
book weight :	max. 20 kg
book thickness :	max. 150 mm
book covers :	soft and rigid
page size :	min. A6 (105 x 148 mm), max. A2 (420 x 594 mm)
scanning surface :	max. 860 x 600 mm
paper weight :	min. 20 g/m^2, max. 200 g/m^2
wavy pages or covers :	max. amplitude 25 mm
pages opening angle :	180°
behaviour when opened :	remains open or closes spontaneously
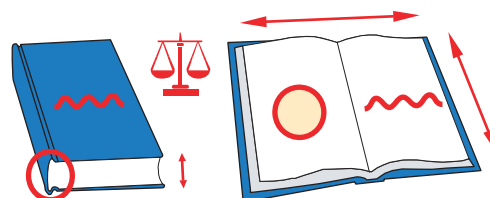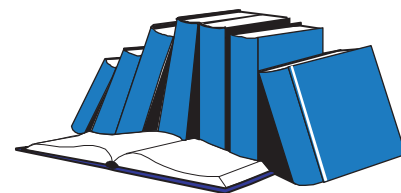
PROCESS

book centering :	automatic by book cradle
book holding :	by distributed vacuum platines
page pickup :	by distributed vacuum arm
page turn :	pushed by air cushion
page flattening :	none, partial, pressed
automatic detection :	book weight & thickness, page width, single page
safety measures :	checking page pickup & release, page being bend
automatic retry :	if multiple pages or no pages are picked up
lose pages detection :	(optional)
page turn cycle time :	2.2 sec to 5 sec depends on page fragility and size

SCANNER FEATURES

Technology SnapShot	Equivalent Matrix	Image Colors	Bits / Pixel	Resolution (dpi) min	Resolution (dpi) max
2x35 RGB	70 million	16M colors	24	200	300
2x35 BW	70 million	256 gray	8	200	300

MAXIMUM PRODUCTIVITY

10 speed settings are available from 1 slowest to 10 fastest, to allow proper manipulation of the document depending on its fragility. Maximum productivity is reached for books that are in good condition.

* (benchmarks 2006/11/01) **done with none page flattening**

Resolution (dpi)	2x35 BW (p/h)	2x35 RGB (p/h)
200	2500*	900*
300	1500*	650*