

Kern DFD Solutions

in the Environment of Digital Printing

dynamics in
TECHNOLOGY

kern
document output management

Digital print processing

Printing

The printing process involves the electronic processing of mailing data, preparation of the requisite physical materials, and the printing operation itself. Most of this “print-stream” is handled by the printing vendor.

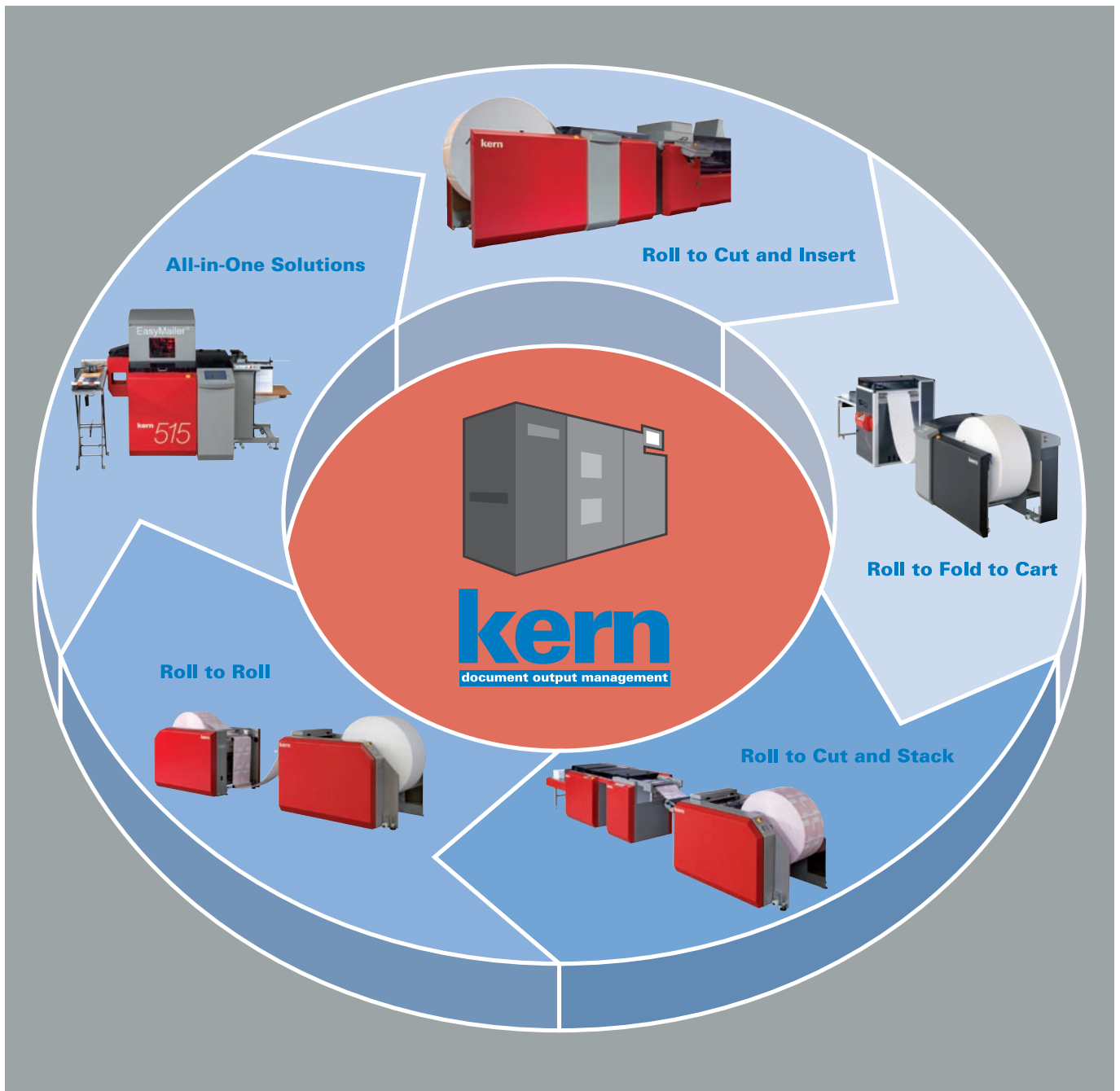
In the fields of pre- and post-processing, Kern offers specialized solutions for handling the physical printed product. Kern has designed special equipment to rewind and unwind, cut, fold, stack, sort and perforate printed material. Kern works together with all printer manufacturers currently active on the market.

Mail finishing and logistics

Mail finishing and logistics involve preparing the printed documents for mailing. The documents can undergo additional finishing in that, prior to insertion, they are cut to size, collated, folded and stapled or bound. The documents are inserted into paper envelopes or wrapped in plastic film. Optional finishing steps may, for instance, include the labeling and/or addressing of envelopes by means of an inkjet printer. Finally, in preparation for dispatch, the mail pieces are stacked into groups, bundled or placed in mail trays.

Kern offers virtually complete solutions for this entire process. Intelligent software applications guarantee superb quality during this critical production phase. Automated reprint management appellations ensure that mail production processes are carried out to completion.

Kern Document Finishing on Demand: Products for digital printing solution



Today's business world is constantly changing. Customers demand more value at a lower cost, and organizations are looking for efficient productivity and lower cost in order to improve their bottom line. At the core of a company's revenue stream is its ability to print and distribute valuable information in the form of manuals, booklets and other computer printed output. One proven way to

increase productivity and reduce cost is to upgrade to higher speed printers. However, printers are only as efficient as their pre- and post-processing equipment. That's where Kern DFD comes in – we offer high-speed, high-quality solutions that enable today's advanced printers to provide optimal efficiency and productivity.

Roll to roll



Kern's "roll to roll" solutions enable operators to load and unload rolls of paper quickly and easily. The threading of paper through the modules is accomplished automatically.

Kern's "roll to roll" modules are capable of unwinding and rewinding rolls up to 54" in diameter – instead of the standard 52". The additional 2 inches in roll diameter provide room for up to 10,000 more

sheets per roll. This means that rolls do not have to be changed as frequently during printing and finishing processes – a fact which translates into increased productivity and reduced costs.

Besides the high-speed Kern 100 Unwinder and Kern 110 Rewinder for digital printers, Kern also makes roll unwinders for finishing machines such as high-performance inserting systems.

Roll to cut and stack



Kern offers a new medium-speed "roll to cut and stack" solution that enables today's advanced printers to achieve optimal efficiency and productivity. The Kern 105XR Roll Unwinder, Kern 132 Cutter and Kern 142 Three-up Stacker operate at speeds of up to 40 meters per minute, while providing high cutting and stacking quality for digital print lines.

Working together, printer and finishing equipment manufacturers are responding to the needs of customers by providing a growing number of flexible Print-on-Demand solutions. Kern's "roll to cut and stack" products are easy to set up and use, and can be configured to handle a variety of POD applications. Kern's single-cut and double-cut guillotine cutters are able to separate documents printed on continuous pinfeed or pinless stationery with utmost precision.

DFD Online

It is not all just about speed. Operations managers have to be able to make informed decisions. Our advanced controller, with easy-to-use color touch screen, stores and provides a wealth of information

Roll to fold to cart



Kern's "roll to fold to cart" solutions provide automatic form loading and push-button application changeover for both pinfeed and pinless paper. The gearless folding module accomplishes application changes in a few short minutes, resulting in more up-time, more productivity, and an outstanding return on your investment.

The patented automated Forms Transfer System (FTS) is connected to the folder's output conveyor, which also functions as a cart. The FTS system sees to it that perforated documents are stacked smoothly, neatly and compactly on the output conveyor. The system is designed for high stacking efficiency and operator safety. Once the output conveyor has been filled, it can easily be wheeled over to an inserting system or other finishing machine.

Roll to cut and insert



Kern is a renowned manufacturer of high-performance inserting systems incorporating ultra-fast input modules. The Kern 999 Cutting and Grouping Module, for instance, is capable of processing up to 80,000 A4 documents per hour. To feed this high-speed input module, Kern had to develop a correspondingly fast roll unwinding module. The Kern 100RF is able to feed continuous forms at a rate of up to 240 m/min, a speed that no other unwinder on the market can reach.

The standard roll unwinding module for Kern inserting systems is the Kern 100S. To accommodate various system configurations, the operating panel can be mounted on either side of the module. An interface with the inserting system allows for automatic roll rewinding, a feature that prevents the paper from becoming curled when the system remains stationary for a longer period of time.

concerning the processed print data. This data can be remotely accessed via a network connection called **DFD Online**© so that it can be used by ADF software or evaluated in a spreadsheet. **DFD Online**

capabilities are standard in Kern's Document Finishing on Demand modules for the digital printing industry.

Kern all-in-one solutions



The Kern 515 EasyMailer® provides a unique, turn-key mail-processing solution for personalized mail communication.

The Kern 515 EasyMailer's smart design and engineering make it possible to produce personalized envelopes from A3 or A4 cut sheets. The resulting envelopes are wrapped around A4 or U.S. letters personalized at the same time and in the same fashion. Optical mark matching ensures rigorous data integrity.

The Kern 515 EasyMailer empowers you to connect more personally with potential and existing customers. Revolutionizing the way Direct Mail and transactional mail processing are done these days, the Kern 515 EasyMailer complements the new age of variable digital and offset printing. EasyMailer technology enables any printer to create fully

personalized letters and envelopes all at once. Thus, layout, printing and dispatch can be accomplished in a single operation.

Getting your customers' attention is no easy task considering today's ever-expanding media presence. This is what makes personalized letters and envelopes that go beyond a plain text, name, and address all the more powerful. They get attention. Test results show that when it comes to switching from plain to personalized technology, response rates may jump from 2% to 20%. Obviously, the more information you have on your customers, the better off you are.

Partner solutions and customer service



Your future is what drives us forward.

Unwinding, rewinding, cutting, folding, stacking, as well as the special needs of our partners – these are just some of the areas in which Kern can offer a broad range of solutions and services. Our technology is used to handle a wide variety of materials in the digital printing sector, in the packaging industry, and in special partner dedicated developments. Our products are carefully coordinated and can be combined as required to provide the right solutions for the needs of our partners. Finishing solutions with integrated software, system engineering, and a global customer-service network complete the offer. Our reliability combines with the quality of our products and services to enable us to increase the productivity of our partners and customers.



We offer comprehensive customer service.

At Kern, customer service is defined comprehensively: The installation and maintenance of machines and the ongoing training of service technicians and operators are just as essential as attentive, detailed consulting. It is of utmost importance to us that our customers' employees have the requisite know-how to care for and operate our systems once they have been installed. Our goal is always to provide services that meet the highest standards.

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