



Technical features such as the DriveTronic feeder and infeed, Venturi sheet guiding, universal gripper systems and the AirTronic delivery lay the foundations for maximum substrate flexibility and die-cutting speeds up to 15,000 sheets per hour. Handling becomes a pleasure thanks to the intelligent and intuitive TouchTronic operating concept at the ErgoTronic operator panel. And best of all: You can choose from a whole range of different configurations and equipment packages. Depending on your individual needs and requirements – for products in the highest quality, die-cut with absolute precision and care.

#### Rapida RDC 106 – Benefits at a glance:

- High level of automation for fast job changes and makeready savings in case of repeat jobs
- Significantly enhanced efficiency for short runs thanks to extremely fast makeready compared to flat-bed die-cutters, paired with high production speeds for long runs
- Modern sheet transport concept of the Rapida sheetfed offset presses is the key to high substrate flexibility and a broad production spectrum
- Minimal foundation loads of the die-cutting process have a positive effect on die-cutting quality, provide for a quieter working environment for the operator and significantly reduce the level of vibration transferred to the building
- Simple handling of the die-cutting formes and minimum storage space requirements
- Intuitive operating concept of the Rapida platform permits flexible personnel assignment
- Integration into a company workflow (production data acquisition)
- “365 / 7 / 24” service hotline and remote maintenance



# Features of the Rapida RDC 106

## Innovative technology for perfect results

### Everything under control: Operator panel

- Touchscreen based on the TouchTronic operating concept: All job-relevant information and machine functions can be selected intuitively with a maximum of two taps on the screen buttons
- Job data transfer via USB port or data loading via CIPLinkX or LogoTronic Professional
- Electrical adjustment of lateral, circumferential and diagonal register for simple and fast makeready
- Precise fine adjustment of the die-cutting pressure via the touchscreen, separately for each side in steps of 1 µm
- All job-specific machine parameters can be saved for repeat jobs
- Possibility for integration into MIS systems to enable continuous production data acquisition

### Designed for high-performance production: AirTronic delivery

- Sheet guide plates with Venturi nozzles for reliable sheet transport and a stable air cushion
- Perfect sheet deceleration by way of a suction roller with suction wheels or a dynamic sheet brake with speed-compensated suction belts
- Speed-compensated gripper opening cam provides for gentle sheet delivery and exact pile formation
- All relevant air and format settings can be saved at the ErgoTronic operator panel and recalled for repeat jobs

### Still on makeready or already cutting? – Automatic forme changing

- Tool-free die-cutting forme change requires approx. 2 minutes per unit
- Use of CNC-manufactured dies for absolute accuracy and minimum tolerances even with the smallest radii and contours
- Laser sensor scans the die-cutting forme to enable automatic presetting of the forme thickness
- All relevant air and format settings can be saved at the ErgoTronic operator panel and recalled for repeat jobs

### With ultimate precision: Die-cutting unit

- Based on the platform concept of the Rapida sheetfed offset presses
- Precision-ground magnetic cylinder running in play-free bearings, with permanent magnets and register pin system for fast and exact forme positioning



- Lateral, circumferential and diagonal register functions for fine adjustment of the die positions
- Protector jackets on the back cylinder to protect the cylinder surface and to provide a counter-die for creasing and embossing
- Simple clamping and tensioning mechanism permits fast and convenient replacement of the protector jackets
- Convenient remote setting and adjustment of register and die-cutting pressure from the ErgoTronic operator panel
- Longer service life of die-cutting formes and protector jackets thanks to the inherently reduced die-cutting pressure

**When the correct position is decisive: Sheet infeed**

- Sheet alignment with ultimate precision – with pneumatic side lay or the patented system KBA DriveTronic SIS, depending on the chosen equipment package
- Pneumatic side lay with multi-chamber vacuum system for marking-free alignment and perfect adaptation to different materials
- Sidelay-free KBA DriveTronic SIS (Sensoric Infeed System) realises lateral alignment on the feed drum and eliminates all need for manual settings
- Smooth and stable sheet infeed for fast makeready and low start-up waste after job changeovers
- Remote adjustment of all settings – convenient, intuitive and reliable via direct function keys at the infeed touchscreen or ErgoTronic operator panel

**Dedicated drive technology for perfect ease of operation: DriveTronic feeder**

- Four independent servo motors control all motions relating to the feeder head, suction belt and pile lift
- Antistatic treatment of the loosening and separating air ensures reliable separation of an individual sheet, irrespective of whether paper, board or film
- Smooth sheet transport into the infeed via a compact suction-belt feed table with either one central suction belt or two separate belts on the left and right sides
- Electronically controlled sheet deceleration ensures optimum sheet arrival speeds at the front lays
- Format and air settings saved at the ErgoTronic operator panel for repeat jobs

# Superior through ultimate quality

## Labels are something special ...

... because they lend your products a truly unmistakable appearance.

Despite their usually relatively compact format, they carry a whole host of important information on contents, price and sell-by date, as well as transport notes and hazard warnings. But labels are at the same time advertising media and contribute in no small way to purchase decisions at the point of sale. Demanding tasks and thus a challenge for the producer, because constant high quality from start to finish is an absolute must.

Alongside the widely used wet-adhesive process, more and more users are today choosing self-adhesive and inmould labels. Shorter runs, greater individuality and enhanced durability are typical reasons.

Inmould labelling is presently all the rage for the finishing of injection-

moulded plastic packaging. Ultra-thin films in thicknesses between 50 and 100 µm are printed in an offset process and subsequently die-cut. Technical and technological state of the art – and thus an ideal domain for innovative KBA printing and die-cutting technology!

The Rapida RDC 106 incorporates the latest die-cutting technology for label production. Features developed not only for the processing of inmould films from 50 µm, but also for many other label materials, provide for

- ✓ significantly reduced make-ready at job changeovers
- ✓ high substrate flexibility
- ✓ maximum ease of operation
- ✓ perfect die-cutting results
- ✓ fastest possible throughput

### Configuration of the Rapida RDC 106 for label/inmould applications

DriveTronic feeder	■
Infeed with pneumatic side lay	□
DriveTronic SIS	■
Extended antistatic package	■
Additional assortment of blower nozzles and sheet hold-downs	■
Die-cutting unit with magnetic cylinder	■
Automated die-cutting forme change in approx. 2 min	■
Venturi sheet guiding	■
Suction roller	□
Dynamic sheet brake	■
ErgoTronic operator panel with TouchTronic operating concept	■
Non-stop package	◐

- Legend
- Standard
  - ◐ Option
  - not available







## Something special for every need Commercial print is unbelievably diverse ...

... and covers an enormous range of print products: From business stationery and forms, via flyers, catalogues, brochures and calendars, though to folding cartons – to name just a few of the possibilities. The spectrum of materials used is equally broad. Short to medium runs prevail, and the competition is hard. Just-in-time production calls for fast and cost-effective solutions, but at the same time tolerates no compromises when it comes to quality. Neither in the print nor at the downstream finishing stages.

If you hope to hold your ground on the market, it is imperative to identify niches and to establish unique selling points. But what makes your print products unique?

The print and finishing quality, of course. But original forms and special haptic or visual impressions also catch the eye, rouse interest and stick in the mind.

Where others may be satisfied to apply high-quality coatings, you can add that something special to your customers' print products. Die-cutting, kiss-cutting, perforating, creasing, embossing – give free rein to your creativity. With a multitude of configuration variants and available options, the Rapida RDC 106 always holds an ideal solution in store – also for your needs

With the Rapida RDC 106, we offer die-cutting technology geared to greater diversity and cost-aware finishing in the commercial sector. Our solutions stand out by way of

- ✓ extremely fast makeready and thus ideal prerequisites for economical short-run production
- ✓ perfect die-cutting quality for substrate thicknesses from 0.03 to 0.7 mm
- ✓ even greater productivity with a performance package for die-cutting speeds up to 15,000 sheets per hour
- ✓ exceptional flexibility thanks to the diversity of configuration variants based on the unit design principle typical of Rapida offset presses



### Configuration of the Rapida RDC 106 for commercial/short-run packaging applications

DriveTronic feeder	■
Infeed with pneumatic side lay	■
DriveTronic SIS	◻
Extended antistatic package	◻
Additional assortment of blower nozzles and sheet hold-downs	◻
Die-cutting unit with magnetic cylinder	■
Automated die-cutting forme change in approx. 2 min	■
Venturi sheet guiding	■
Suction roller	■
Dynamic sheet brake	◻
ErgoTronic operator panel with TouchTronic operating concept	■
Non-stop package	◻

#### Legend

- Standard
- ◻ Option
- not available



## KBA Sheetfed Service – for maximum performance

### Economical and individually tailored

KBA Sheetfed Service stands for a comprehensive spectrum of individual service solutions, each of which is geared to maximising the productivity and efficiency of your high-performance machine. From one-off relocations through to regular service calls and even visits with a technician spending several days on site – KBA defines a service programme tailored to your specific needs. Cost-intensive downtimes can be reduced to an absolute minimum. In this way, it is possible to raise production outputs (sheets/hour) by up to 30% and to cut makeready times by up to 40%.

Our most important service products and your benefits at a glance:

#### **Training**

- Regular staff training to the highest standards
- Broad range of training offers, from print technology and maintenance through to special and advanced seminars on individual topics
- Trained staff acquire the know-how necessary to optimise the production process and thus exploit the full potential of your machine