KOENIG & BAUER

CutPRO X 106





Tailor-made die-cutting solutions for forward-looking in-house production

The CutPRO X 106 stands for ultimate performance in inline die-cutting. Individually tailored die-cutting solutions bring your printed sheets into shape and guarantee seamless downstream further processing of the final product. Rapida technology makes all this possible.



Developed on the basis of the established Rapidamedium format press series, the rotary die cutter CutPRO X-106 offers you the very latest die cutting technology and a sheer boundless scope of applications. Whether for folding cartons, elegant presentation folders or inmould labels for paint buckets with the CutPRO X-106, you can cut, emboss, crease, perforate and then separate the individual blanks to the highest quality standards in a single-machine pass.

Proven-technical-features-such-as-DriveTronic-system-components, Venturi-sheet-guiding, universal-gripper-systems-and-the-AirTronic-delivery-ensure-maximum-substrate-flexibility-at-die⁴cutting-speeds-up-to-15,000-sheets-per-hour. And handling-becomes intuitive-thanks-to-the-intelligent-TouchTronic-operating-concept-at-the-ErgoTronic-console.

The CutPROX-106 is tailored precisely to your-future oriented in house production needs and will-win-you-over-with-

- Maximum performance thanks to impressive die⁴cutting-speeds-up-to-15,000-sheets/hr-
- Ultimate productivity thanks to state-ofthe⁴art-features-from-the-Rapida-medium⁴ format-press-series
- Unrivalled flexibility thanks to separate process-units-
- Exceptional quality thanks to register accuracy-down-to-15-µm-and-individual-setting-of-the-die⁴cutting-pressure-in-1-µm-steps
- **Significant cost savings** thanks to minimal waste-and-quality-costs



Ready for the next step!

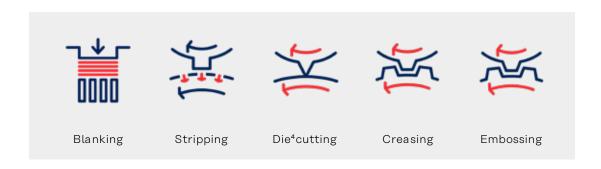
You can choose from a whole range of different configurations and equipment packages. Depending on your market segment, applications and individual requirements — for products of the highest quality, die-cut with absolute precision and care.

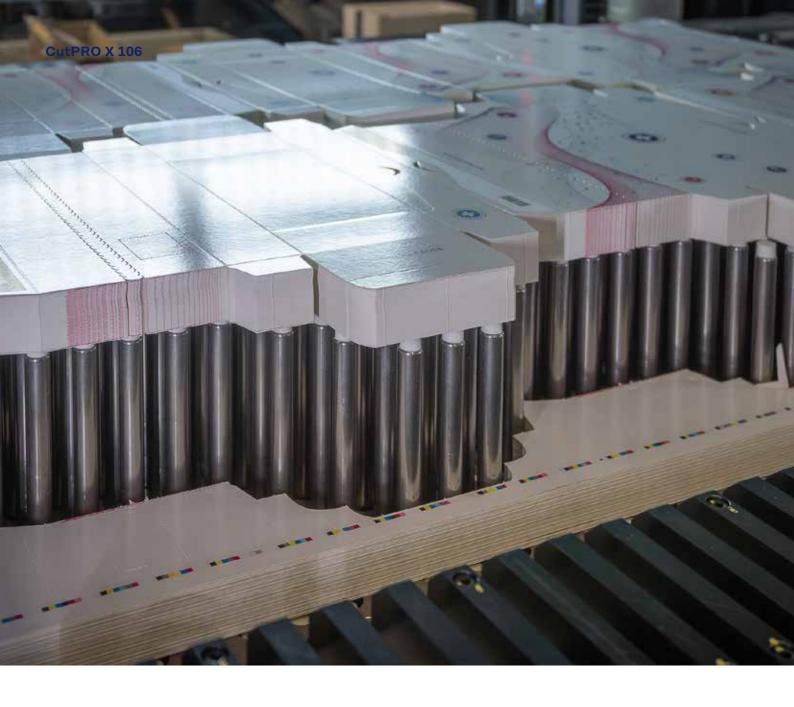
The CutPRO X 106 processes a broad spectrum-of-substrates from-ultra thin-inmould films-up-to-0.6-mm-board. This is made-possible by the-low curvature-sheet-travel-concept-typical-to-Koenig-Bauer-machines, with-double size-back-cylinders and transfer-drums. Aerodynam ically-optimised-sheet-guide-plates-lend-additional reliability-to-sheet-transport. From the-Drive Tronic-feeder through to the delivery-pile.

Depending on your planned application, you canchoose from a range of special performance-

packages. They enable high speed die cutting-production, even on sensitive substrates. Indi vidually tailored, a dapted to specific substrates and designed for outputs of up to 15,000 sheets per hour.

Up-to-four-individual-process-units—in-combi⁴ nation-with-the-fully-automatic-blanking-system-AutoBlank,-should-you-wish—are-the-key-to-maximum-production-flexibility,-ultimate-ease-of-operation-and-uncompromising-quality.





Tailor-made for the packaging market

Modern folding carton production embraces an enormous range of applications and forms. The growing trend towards just-in-time production calls for fast and cost-effective solutions that nonetheless deliver the highest quality. Impress your customers not only with first-class print, but also at all downstream finishing stages.



If you hope to hold your-ground on the market, • Embossing in ultimate quality at the it-is-imperative-to-identify-niches-and-toestablish-unique-selling-points. But-what-makesfolding-cartons-unique?-Exceptional-printingand finishing quality, of course. And yet originalforms-and-special-haptic-or-visual-impressionsalso-catch-the-eye, arouse interest and stickin the mind. Where others may be satisfied toapply-high⁴quality-coatings, you-can-add-thatspecial-something-to-your-customer's products. Die⁴cutting, kiss⁴cutting, perforating, creasing,embossing—give-free-rein-to-your-creativity.-

With a multitude of different configuration var4 iants-and-options-available, the-CutPRO-X-106offers a perfect answer to the challenges of yourfuture⁴oriented folding carton production.

Highlights of the CutPRO X 106

- Die-cutting speeds up to 15,000 sheets/hr for a broad-spectrum-of-substrates-up-to-athickness-of-0.6-mm-
- Full job changeovers in less than 20 minutes
- Saving of all job-specific setting values in the-Koenig-Bauer-LogoTronic-managementsystem-to-ensure-the-fastest-possible-make⁴ ready-for-repeat-jobs-

- maximum-machine-speed-of-15,000-sheets/hr---separate-process-units-also-avoid-any-needfor-a-second-machine-pass
- New possibilities in folding carton design thanks-to-separation-of-the-process-steps-ofdie⁴cutting-and-creasing,-e.g.-tighter-cuttingline radii or intersecting creasing and cuttinglines
- Inline blanking at production speeds up to 15,000-sheets-per-hour-for-a-high-net-sheetoutput-per-shift
- "Click & Cut" register pin system for fast and-exact-forme-positioning-on-the-cylinderwithout-further-manual-intervention
- Register accuracy down to 15 µm for maximum-process-quality
- LiveApp family to assist machine operation and-inventory-management
- Minimised space requirements for tool storage, e.g. die cutting formes

Benefits



Exceptional-productivity-thanks-todie⁴cutting-speeds-up-to-15,000-sheets/hr



Significant-waste-savings-thanks-tocomprehensive-preset-functions-and-DriveTronic-components-



A-wide-range-of-automation-modules-andimplementation-of-the-"click-&cut"principle-provide-for-extremely-fastmakeready-between-jobs-



Maximum-flexibility-in-terms-ofconfigurations and equipment options,which-can-be-perfectly-tailored-to-yourindividual requirements-



Outstanding register accuracy down to-15-µm-guarantees-excellent-process-quality-



Modern-operating-concept-and-intuitive-userinterface-for-maximum-ease-of-operation-

Something special for every need

Appealing and individual print products in the shortest possible time – this is the daily challenge in commercial printing.

From business-stationery-and-forms-to-flyers,catalogues, brochures and calendars, theoptions-are-endless.-

A-broad-diversity-of-materials-must-be-pro4 cessed, and run-lengths are extremely variable. A-real-challenge-for-you-as-a-provider, because • Saving of all job-specific setting values in the-demands-that-customers-place-on-yourideas-and-solutions-have-never-been-greater-interms-of-applications,-performance-and-flexi4 bility.-This-is-not-only-true-of-printing-itself,-butalso the subsequent finishing and post⁴pressstages.-

The rotary-die⁴cutter-CutPRO-X-106-puts-theideal-die⁴cutting-technology-at-your-fingertips,- • "Click & cut" register pin system for exact for-successful-post⁴press-production-thatmeets all the high-demands of the print marketand-your-customers.-

The-CutPRO-X-106-stands-out-with-the-fol4 lowing-highlights-for-commercial-production:

- Die-cutting speeds up to 15,000 sheets/hr for a broad-spectrum-of-substrates-up-to-athickness-of-0.6-mm-
- Full job changeovers in less than ten minutes for the fastest-possible makeready withrepeatjobs
- the Koenig Bauer-Logo Tronic-managementsystem
- · High variability in terms of machine configurations-and-equipment-options-thanks-to-thetypical-unit⁴based-design-principle
- Separate process units remove all limitations on-die⁴cutting-and-creasing-rule-lengths-forgreater-efficiency-and-more-blanks-per-sheet
- forme-positioning-on-the-cylinder-withoutadditional-manual-intervention
- Register accuracy down to 15 µm for maximum-process-quality
- · LiveApp family to assist machine operation and-inventory-management
- Minimised space requirements for forme storage



Benefits



Highest-net-sheet-outputs-per-hour-thanks-to-die⁴cutting-speeds-up-to-15,000-sheets/hr-



Significant-waste-savings-thanks-to comprehensive-preset-functions-and-DriveTronic-components-



A-wide-range-of-automation-modules-and-implementation-of-the-"click-&ut"-principle-provide-for-extremely-fast-makeready-between-jobs-



Separate-process-units-for-maximumflexibility-and-practically-unlimited-designfreedom-



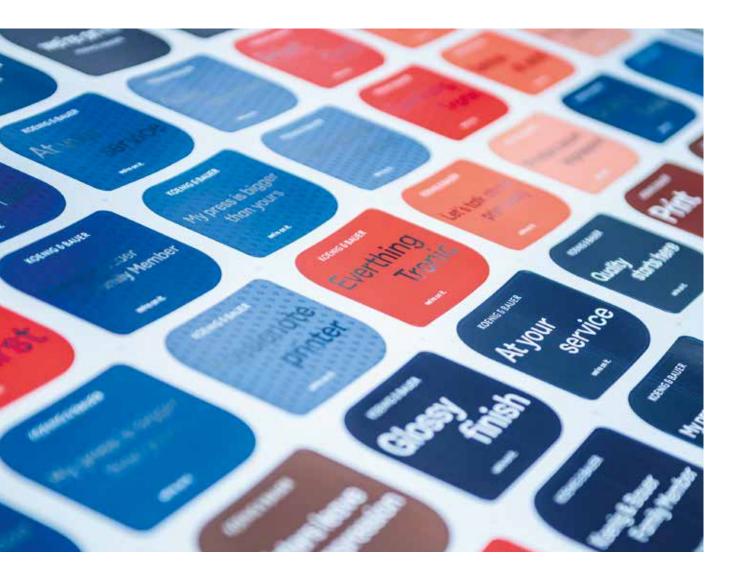
Outstanding register accuracy down to-15 µm-guarantees excellent process quality-



Modern-operating-concept and intuitive user-interface for maximum-ease-of-operation-



Exceptional-productivity-also-for-short-runs-



Superior with ultimate quality

Labels are something special. They lend products a truly unmistakeable appearance.

Despite their usually relatively compact format, labels-carry-all-sorts-of-key-information-on-con⁴ tents,-product-origin,-price-and-sell⁴by-date,-aswell-as-transport-notes-and-hazard-warnings.-As advertising vehicles, they also contribute in-seemingly endless variety of exacting customerno-small-way-to-purchase-decisions-at-the-pointof-sale.-Maximum-performance,-high-quality-

and-flexibility-play-a-decisive-role-in-labelproduction.

Label-printers, in-particular, must-face-up-to-ademands. The high performance rotary die 4 cutter-CutPRO-X-106-will-allow-you-to-masterall-challenges-that-arise-elegantly-and-to-the-highest-quality-standards.-

The-CutPRO-X-106-is-tailored-precisely-to-your-needs-and-puts-you-one-step-ahead-with-the-following-highlights-for-efficient-label-production:

- High performance with die-cutting speeds up-to-15,000-sheets/hr-for-a-broad-spectrumof-label-substrates---from-ultra4thin-inmouldfilms-to-standard-wet4adhesive-labels
- Reel sheeter RS 106 to enable the highly efficient-die⁴cutting-of-labels-printed-in-aweb⁴fed-flexo-process
- Precise cutting of pre-printed reels to an exact-format-for-full-flexibility-up-to-a-sheetlength-of-780-mm
- Register-true sheet alignment and crease⁴free-feeding-of-the-sensitive-sub⁴ strates-with-DriveTronic-SIS-for-fastmakeready,-minimal-waste-and-fewerstoppages-during-production
- Film-handling package with high-performance-antistatic-systems-as-the-basis-for-high-production-speeds, stable-processes-and-precise-pile-formation-when-using-par⁴ ticularly-demanding-materials

- Console-controlled Venturi air-cushion sheet-guiding-for-gentle-and-reliable-sheettransport-through-the-machine
- Makeready times well below five minutes thanks-to-the-"click &ut" register-pin-systemfor-exact-forme-positioning-on-the-cylinderwithout-additional-manual-intervention
- Register accuracy down to 15 µm for maximum-die⁴cutting-quality
- Perfect pile quality and therefore "pictureperfect-pallets" allow-immediate-furtherprocessing-of-the-die⁴cut-sheets-withoutfurther-manual-intervention—a-decisivebenefit-in-the-production-of-inmould-labels
- High process efficiency preparation of-piles-with-up-to-1,000-sheets-permitsseamless-further-processing-at-the-blankerwithout-additional-handling
- Saving of all job-specific setting values in the Koenig Bauer LogoTronic managementsystem
- LiveApp family to assist machine operation and-inventory-management
- Minimised space requirements for forme storage

Benefits



Exceptional-productivity-thanks-to die⁴cutting-speeds-up-to-15,000-sheets/hr



Extended service portfolio thanks to the option of highly efficient processing of labels printed in a web4fed flexo process



A-wide-range-of-automation-modules-andimplementation-of-the-"click-&ut"principle-provide-for-extremely-fastmakeready-between-jobs



High-register-accuracy-down-to-15-µm-guarantees-excellent-process-quality



Film⁴handling-package-ensures-maximumproduction-speeds-and-reduced-waste-whenprocessing-particularly-sensitive-substrates,e.g.-inmould-films-



Perfect-pile-quality---"picture perfect-pallets" — allows-immediate-further-processing-of-the-blank-stacks

CutPRO X 106



Control console – everything in focus

- Clearly structured and intuitive
 TouchTronic operating concept equiv⁴
 alent to the one used for Rapida sheetfed offset presses
- Touchscreen for ergonomic access to-machine-functions
- Screen keys for convenient and intuitive-function-selection
- USB port for fast communication of-job-data
- Job preparation facilitated by loading-all-CIP3-data-via-CIPLinkXor-LogoTronic
- Job-specific saving of all relevant machine-parameters-for-repeat-jobs
- Integration into the Koenig & Bauer production-data-collection-system

AutoBlank blanking system – Koenig & Bauer only

- Fully automatic system for inline blanking-directly-after-the-rotarydie⁴cutting-process
- Blanking is possible without additional-tools
- Simple, convenient handling and high-production-speeds-up-to-15,000-sheets/hr-
- Fastest possible makeready a full job-change-is-completed-in-less-thanten-minutes
- Precise blank stacks with inserted slip-sheets-enable-direct-furtherprocessing-on-the-folder-gluer-orshipping-to-the-customer

AirTronic delivery – full preset capabilities

- Venturi sheet guiding system provides-for-innovative, air cushionedand-therefore-contact free-sheettransport-for-the-broadest-range-ofsubstrates, including-particularlysensitive-materials
- Dynamic sheet brake of the CutPROX-106-ensures-"picture⁴ perfect-pallets"-with-absolutelystraight-pile-edges-for-immediatefurther-processing-without-manualintervention,-even-at-die⁴cuttingspeeds-up-to-15,000-sheets/hr-
- Fastest possible makeready thanks to full-preset-capabilities-for-all-air-andformat-settings



Stripping unit – fast and convenient

- For process optimisation of folding carton-production-within-the-rotarydie⁴cutting-process
- Shorter production times as die⁴cutting and stripping of the-die⁴cutting waste can be completed-in a single machine pass
- Double-size stripping cylinder for secure-fixing-of-the-die⁴cut-blanksand-reliable-waste-separation
- Convenient removal of the die⁴cutting-waste

Die-cutting unit – absolute precision

- Fastest possible makeready and straightforward handling at job-changeovers thanks to a "click & ut" register-pin-system for automated positioning of the process forme on the cylinder
- Maximum process quality with register-accuracy-down-to-15-µm
- High-precision setting of the diecutting-pressure-in-1-µm-steps,-sepa⁴ rately-for-each-side-of-the-cylinder-
- Perfect die-cutting quality from the very-beginning-of-the-shift—the-"ZeroFlex"-die⁴cutting-unit-providesfor-constant-die⁴cutting-pressure-andstable-quality-at-all-times

Creasing unit – always perfectly in line

- Fastest possible makeready and straightforward handling at jobchangeovers thanks to a "click & ut"register-pin-system for automatedpositioning of the process forme onthe cylinder
- Maximum process quality with register-accuracy-down-to-15-µm
- Exceptional precision through exact setting-of-the-die⁴cutting-pressure-in-1-µm-steps,-separately-for-each-sideof-the-cylinder-
- Magnetic back cylinder for mounting creasing formes with registerpunching, making use of the Click & Cut" principle



Embossing unit flexible and user-friendly

- Fastest possible makeready and straightforward-handling-at-jobchangeovers-thanks-to-a-"click-&cut"register-pin-system-for-automatedpositioning-of-the-process-forme-onthe-cylinder-
- · Maximum process quality with register-accuracy-down-to-15-µm-
- Exceptional precision through exact setting-of-the-die⁴cutting-pressure-in- • Convenient, user-friendly mounting 1-µm-steps,-separately-for-each-sideof-the-cylinder-
- Magnetic back cylinder for the mounting-of-
 - 4- embossing-formes-with-registerpunching, making use of the "Click-&ut"-principle-or-
 - 4- individual-embossing-tools-or-diesegments, which can be positionedfreely-within-the-area-of-the-sheetwithout any need for tools

Magnetic cylinder the heart of the process unit

- Precision-ground magnetic cylinder with-permanent-magnets-and-reg4 ister-pin-system-for-fast,-exact-andtool4free-forme-positioning-
- Precise setting of the die-cutting pressure-in-1-µm-steps,-separatelyfor-each-side-of-the-cylinder---gua4 rantees-ultimate-accuracy-and-perfectdie⁴cutting results
- of
 - complete-formes-with-registerpunching, making use of the "Click-&Cut"-principle
- individual-die-segments (e.g. Brailletexts), which can be positionedfreely-within-the-area-of-the-sheetwithout-any-need-for-tools

Sheet travel efficient and reliable

- Maximum performance in the production-process-thanks-to-gentle,air4cushioned-sheet-guiding-withblower-systems-and-Venturi-guideplates-
- All sheet travel functions can be controlled-from-the-machine-console,withfull-preset-capabilities-for-repeatjobs-and-individual-adjustment-to-suitevery-substrate
- Universal gripper systems for reliable sheet-transfer-and-absolute-registeraccuracyatallspeeds-withnoneedfor-adjustments-to-accommodatesubstrate-thickness-changes



Die-cutting unit substructure – Rapida performance

- Unit-design principle with double⁴size-back-cylinders-andheavy⁴duty-bearings-for-ultimatequality-and-a-long-service-life-
- User-friendly clamping and tensioning-mechanism-permits-fastand-convenient-replacement-ofthe-protector-jackets-on-the-backcylinder-

Sidelay-free infeed DriveTronic SIS (Sensoric Infeed System) – simply ingenious

- Koenig & Bauer only
- Significant waste savings thanks to-reliable, marking free-sheetalignment, irrespective of substratethickness-
- Stable production processes and high-availability-thanks-to-fewerstoppages-and-exact-infeed-register

DriveTronic feeder – convenient and time-saving

Absolute-sheet-feeding-precisionand-production-speeds-up-to-15,000sheets/hr-thanks-to-innovative,-dedi⁴ cated-DriveTronic-drive-technologiesfrom-the-makeready-world-champion-Rapida-106-X

- Process reliability and maximum flexibility, even-when-working-withdemanding-substrates
- Fastest possible makeready for repeat-jobs-thanks-to-full-presetcapabilities-for-all-air-and-formatsettings

Technology at a glance





CutPRO X 106 blanking system AutoBlank

Ultimate efficiency in folding carton production with blanking at speeds up to 15,000 sheets per hour

Satisfied-customers are the goal of your daily-business. You cater to their specific needs and wishes, identify the best technology for their print products, optimise the production-process, and thereby ensure the fastest pos sible processing from order receipt through to shipping of the final product. With the integrated blanking system AutoBlank, the Cutprox-106 is precisely the machine you need when faced with challenges like this.

The fully automatic system-separates the-blanks-directly-after-the-rotary-die⁴ cutting-process—inline-and-at-production-speeds-up-to-15,000-sheets/hr. You-save-additional-work-steps-and-gain-valuable-production-time,-because-the-result-is-a-pallet-of-exact-blank-stacks-with-inserted-slip-sheets—ready-to-be-passed-on-to-the-folder gluer-or-sent-directly-to-the-customer.

Fastjob-changeovers and straightforward han dling of the blanking system are the key to-maximum-performance. A wide range of folding carton-substrates can be processed up to a thickness of 0.6 mm for layouts with separating or intermediate cuts—the system can be per fectly adapted to the blank size and guarantees the highest quality of each individual blank.

Are-you-using-a-flat⁴bed-die⁴cutter-without-blanking-facilities?-Then-the-offline-variant-of-the-AutoBlank-is-ideal-for-you.-With-its-excep⁴ tional-production-speed-and-full-job-change⁴ overs-in-less-than-five-minutes,-the-system-is-capable-of-handling-the-output-of-several-flat⁴bed-die⁴cutters.-

Logistics systems for increased productivity

When printing on heavier substrates, pile changes are especially frequent. That means stopping the machine, switching the full and empty pallets, restarting the machine – just think of how much valuable production time is lost. Non-stop pile changing facilities are the obvious solution.

Non⁴stop-systems-at-the-feeder-and-deliveryallowfor-uninterrupted-production and smooth • Non-stop pile changes possible at full pile-changes. Naturally at full production speed. Still-not-enough? Logistics-installations-tailored • Lowerable non-stop roller rack automatically to-your-individual-production-environment-arechild's-play-with-PileTronic.-

Non-stop operation at the feeder

- Non-stop system with individual rods for uninterrupted production during pile
- Fully automatic non-stop system with a sensor-monitored rake for pile transport
- Pile insertion and removal possible from all three sides

Non-stop operation at the delivery

- production speed
- extends above the pile
- · Sensor monitoring for lifting/lowering of the main and auxiliary piles

PileTronic

- Networking of machine control, non-stop pile changing systems and pallet supply for maximum efficiency in die-cutting
- Tried-and-tested logistics modules available
- Elaboration of customer-specific solutions
- Pallet-free paper supply possible







Digital services at the touch of a button New application experience

The customer portal myKyana represents the central interface between users and customer service. All digital services are pooled in one place. Users and the manufacturer can access an identical information database, meaning that they are all on the same page when working together.



PressCall-improves-communication-during-remote-maintenance. The hotline-technicians-are-presented-with-all-the-information-they-require-at-the-touch-of-a-button-on-the-control-console. Communication-is-optimised-while-lan4 guage-barriers-are-removed. A-customer-ticket-is-automatically-created-in-CRM. This-enables-solutions-to-be-found-more-quickly-and-effi4 ciently, which-in-turn-reduces-downtime-and-increases-availability.

Visual ServiceSupport-is-an-additional-means-of-optimising-communication-during-remote-maintenance. By-using-the-functions-that-today's-mobile-devices-provide,-remote-main4 tenance-issues-can-be-communicated-easily-and-directly-using-photos-and-videos,-audio-transmission-and-comment-functions. This-has-allowed-Visual-ServiceSupport-to-extend-the-remote-maintenance-functionality-to-aid-process-technology-and-mechanical-support.

Users-with a remote-maintenance-contract-receive a regular **Performance Report**. Perfor mance-data and key performance-indicators-for-presses are-shown in an easy 4to 4under stand-graphic-form. This allows performance-data to be compared and maintenance work-to be planned in advance, as well as revealing optimisation-potential and reducing unsche duled downtime. Performance and availability-increase accordingly.

The Press Inspection Report-provides assummary of the results of press inspections in an equally easy 4 to 4 understand format. You can instantly identify potential technical impro4 vements and the reasons for maintenance work, as well as its duration. It also lists the required interventions in order of priority according to impact on the productivity of the press as well as the urgency of replacing individual parts.



Perfectly harmonised for maximum performance

The sheer diversity of potential applications places enormous demands on the die-cutting formes. To assist you in your search for the ideal forme, we have tested the products made by established manufacturers with regard to their quality and performance in production on the CutPRO X 106.



The-ideal formes for a given application are not only prerequisites for perfect die dutting results, but also help to shorten makeready and reduce waste. They are manufactured from high quality materials on modern CNC machines and guarantee the trouble free die cutting, kiss cutting, perforating, creasing, embossing or stripping of substrates from 0.03-to 0.6 mm. The heights and angles of the tools harmonise precisely with the substrates in use.

Whether-die⁴cutting,-creasing-or-embossing-formes—our-specialists-have-subjected-all-tools-to-comprehensive-performance-tests.-On-this-basis,-and-working-together-with-our-

tooling-partner, they have been optimised-for-use-on-our-high-performance rotary-die-detector-CutPRO-X-106. This is always done-with-the-objective-of-further-perfection in terms-of-die-decutting-quality-and-machine-performance, so that your-production runs-stably-and-with-maximum-efficiency-at-all-times.

If you are interested in more detailed infor a mation about die cutting technologies and tools, please feel free to tap the comprehensive know how of our experienced application engi neers and specialists. We and our partners would be glad to offer you our support and advice.



CutPRO X 106 Technical data

Sheet format		
Maximum (standard)-	740-×-1,060	mm
Maximum (option)-	750-x-1,060- 780-x-1,060-	
Minimum-cardboard Minimum-IML	340-×-480 480-×-480	mm
Gripper-margin-	10±-1	mm
Suitable substrates		
Standard	0.030.6	mm
Pile heights		
Feeder	1,300	mm
Delivery	1,200	mm
Production speed		
Maximum ¹	15,000	sheets/h
Dimensions and weights		
Length ²	7,250-to-8,250	mm
Width	4,020	mm
Height	2,000	mm
Net-weight-	approx12,000 to-18,000	kg
Die-cutting margin		
Die⁴cutting-margin-(standard)-	17	mm
Die⁴cutting-margin-(optional)-	13	mm

¹Dependent-on-material-properties-and-job-layouts

²Dependent-on-number-of-die⁴cutting-units

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