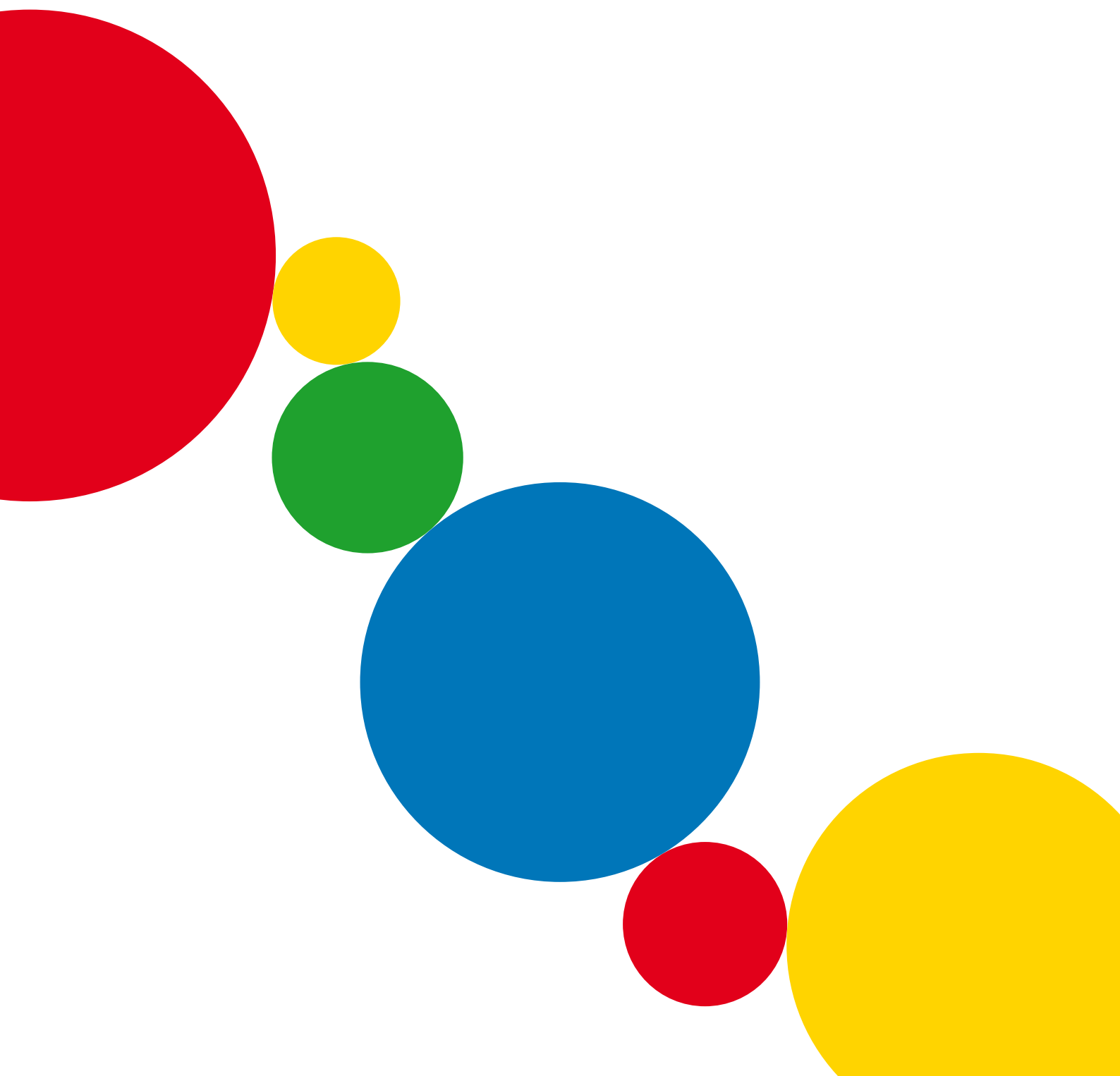




IL MONDO DI CERUTTI



Rotogravure presses for packaging and specialties printing.

An advanced platform of solutions for the whole printers' community.

● R98XEVO

A trolley type gravure press, to minimize machine down-time and personnel required for off-line setting and during job change-over.



Thanks to its special design, the same trolley allows the **semi-automatic** job change-over of:

- The printing cylinder only (no bearings and bearing housings are needed in the "shafted" version)
- The inking system only (including ink tank)
- Both printing cylinder and inking system at the same time (ink tank on board of the trolley)
- Optional: inking system featuring driven inking roller
- Available in both versions: with "shafted" or "air-chucked" hollow printing cylinders
- Fully presettable inking system.
- New ventilation system with Industry 4.0 concept and with improved accessibility and energy saving.
- Cylinder rinsing or full automatic whasing of entire inking system are available as option.
- Full-automatic job change-over available as option.

● R1060

Top performance rotogravure press for packaging material and specialty printing: full automatic job change-over solution for the high-end market.

Designed mainly for customers requiring high performances coupled with quick job change-over, flexibility and very high printing quality.

Trolley type printing press

The printing cylinder is supported during change-over time by the trolley frames, while in working position by bearings fitted to the printing unit side-frames. No need of bearings and bearing housings to be mounted on the printing cylinder.

The displacement of the trolley in the press axis cross direction is servo assisted.

The flexibility of the change-over is such that, independently on each printing unit, only the printing cylinder or both printing cylinder and inking system can be replaced.



● R972

The hi-tech fully automatic flexible press for short production runs.

The printing stations are equipped with on-board wash-up system and feature completely automatic job change-over operations. This press model achieves considerable savings in its relevant running costs, with the advantage of reducing the amount of its non-productive down-time, thanks to:

- Simplified and faster job change-over operations
- Reduction of start-up / running waste
- Reduction of the ink return at the end of each production job
- Lower running costs
- Less personnel required (both on the press and off the press).

The trolley replacement is carried out by one operator only thanks to a servo mechanism, pneumatically operated.

Printing unit model ES972

Each unit is equipped with one two-position trolley, enabling automatic removal and replacement by a single operation of old printing cylinder and/or inking system, with parts ready for new production and namely:

- Removal and replacement of the printing cylinder only
- Removal and replacement of the inking system only
- Simultaneous removal and replacement of inking system and printing cylinder.



● R990

The Cerutti quick job-changeover solution for the narrow web market.

Dedicated to the short run market and specifically designed to satisfy the needs of customers requiring quick job change-over and very high printing quality.

Non-trolley type printing press

The printing cylinder sleeve is mounted on a mandrel permanently fitted to the printing unit side frames. This system gives the printer the possibility of using, on the same press, either a light weight printing cylinder sleeve or a standard one, thanks to the unique printing cylinder sleeves locking solution. The printing cylinder sleeve and the inking system, when in working position, are supported by the printing unit side frames.



● R1081

An off-the-shelf solution for flexible packaging.

A solution “off-the-shelf” to the needs of packaging printers: a modern hi-tech printing press at competitive price, equipped with easy handling trolley system.



Trolley which carries printing cylinder and inking system

The trolley carries both printing cylinder and inking system. Both of them can be loaded-removed from the printing unit side-frames simultaneously.

Full integration of auxiliary equipment

Automatic register control equipment, viscosity controls, camera web viewing system, corona treatment station, lel control system (option) are fully integrated in the press functions and controls. Available also for hollow printing cylinders, in the “air-chuck” version.

● R983

Trolley-type gravure press: the Cerutti answer for the carton board printing world. Quick job change-over thanks to its specialized gravure trolley.

The gravure trolley carries:

- The printing cylinder with bearings and bearing housings
- The complete inking system including ink pan(s), ink splash guards, ink tank with pump
- The trolley replacement is carried out by one operator only, thanks to a servo mechanism, pneumatically driven.



Available versions:

- Reel to reel (with creasing and punching subunits for liquid packing)
- Reel to sheeter
- Reel to die cutter (rotary - flat bed)

● Sheeter UP900

It is the solution for carton board industry, combining the flexibility of an in-line sheeter with the gravure printing quality.

Independently driven and digitally controlled

Suitable both for long and short runs, thanks to its easy and quick setting features.

It handles materials spanning from paper to heavy carton board. Both infeed pulling group and knife cylinder are independently driven allowing for a perfect cut to print register with the highest accuracy.

The sheets, after being cut by the knife cylinder, are accelerated and then slowed down by two successive sections of driven belts, which deliver the sheets as a shingle.

The shingle delivery allows perfect pile formation with the possibility of a diverting system for automatic waste rejection and automatic pile change.



Converting Machines

Performance, innovation, flexibility to be closer to converters.



● Coating and laminating machine for flexible materials

Duplex and Triplex high performance machine featuring multijob coating station capable to use interchangeable coating systems such as:

- Rotogravure trolley
- Flexo trolley
- Semiflexo trolley
- Solventless trolley
- PVDC Coating trolley
- Chamber Doctor Blade system

MAIN JOBS FORESEEN:

Duplex Solvent-based Lamination

- Wet coating weight up to 12 g/m² with a dry coating weight of approximately 4,0 g/m²
- Production speeds up to 400 m/min according to coating weight, dilution and adhesive type

Duplex Solventless Lamination

- Coating weight between 1,3 ÷ 3,5 g/m²
- Production speeds up to 450 m/min

KEY POINTS: REEL HANDLING

- Single axis unwinders and rewinders or double axis fully automatic unwinders and rewinders, according to customer's requirements
- Shafted or shaft-less reel locking
- The shaft-less system is provided with a pneumatic-mechanical expanding chuck system, to assure operator's safety and to avoid core damage (cardboard, plastic or metal)
- The rewinder can be equipped with an innovative no-glue splicing system



PROCESSES

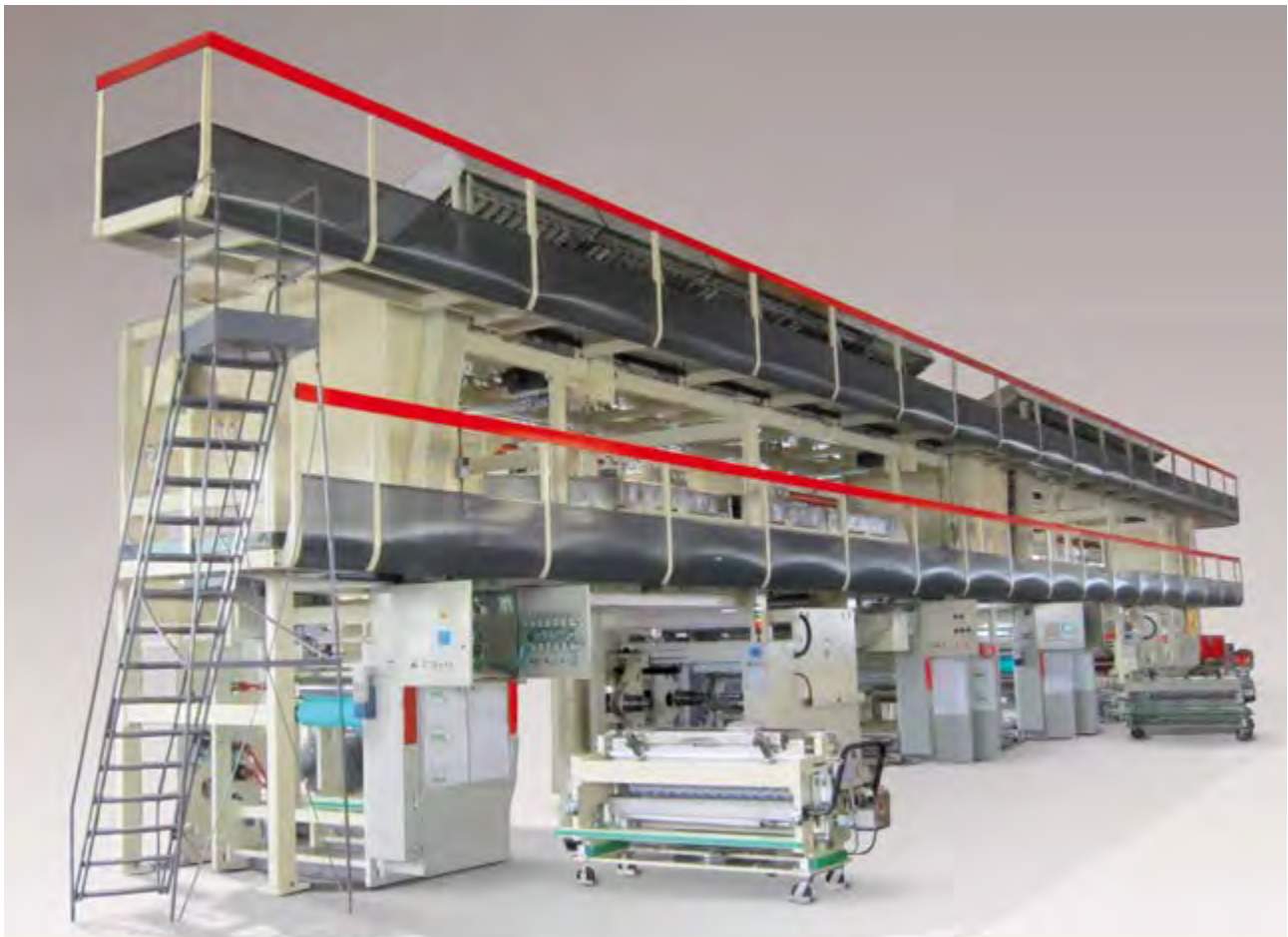
- 1- Solvent base process
- 2- Solventless base process
- 3- Water base process

● Lacquering machine

Unsupported alufoil coating machine for 1, 2, or 3 layers of lacquering, having the versatility to process a wide thickness range of unsupported alufoil and film.

Multijob coating station capable to use interchangeable coating systems such as:

- Rotogravure trolley
- Flexo trolley
- Semiflexo trolley
- Chamber Doctor Blade system
- Direct and reverse coating system



PRODUCTS

- 1- Alufoil for covers and yogurt lids/cups
- 2- Alufoil for melted cheese
- 3- Alufoil for chocolate wrapping
- 4- Alufoil for pharmaceutical blisters
- 5- Alufoil for pet food and tray containers

● Hot-melt / wax coating and laminating machine

It allows to easily change product coating weight from 2 to 35 g/m².

- Surface smoothing system with capability to vary: shiny/mat effects
- Immersion type coating system with capability to modify the coating weight on both sides of the substrate
- Innovative lamination group with the capability of adjusting the laminating nip both in height and wrapping angle
- Very short job change-over time
- User friendly thanks to advanced HMI system



PROCESSES AND PRODUCTS

- 1- Patterned hot-melt for soap wrapping application
- 2- One side application for soap wrapping
- 3- "Banderole" for yogurt labels
- 4- Wax lamination
- 5- Two-side wax coating for candy
- 6- High viscosity hot-melt coating for labels

Rotogravure presses for publication, catalogues, school books and flyers printing.

In 1953, Cerutti delivered its first rotogravure press for publication.
Today, it is world leader in this market segment:
a long journey crowned with great success.

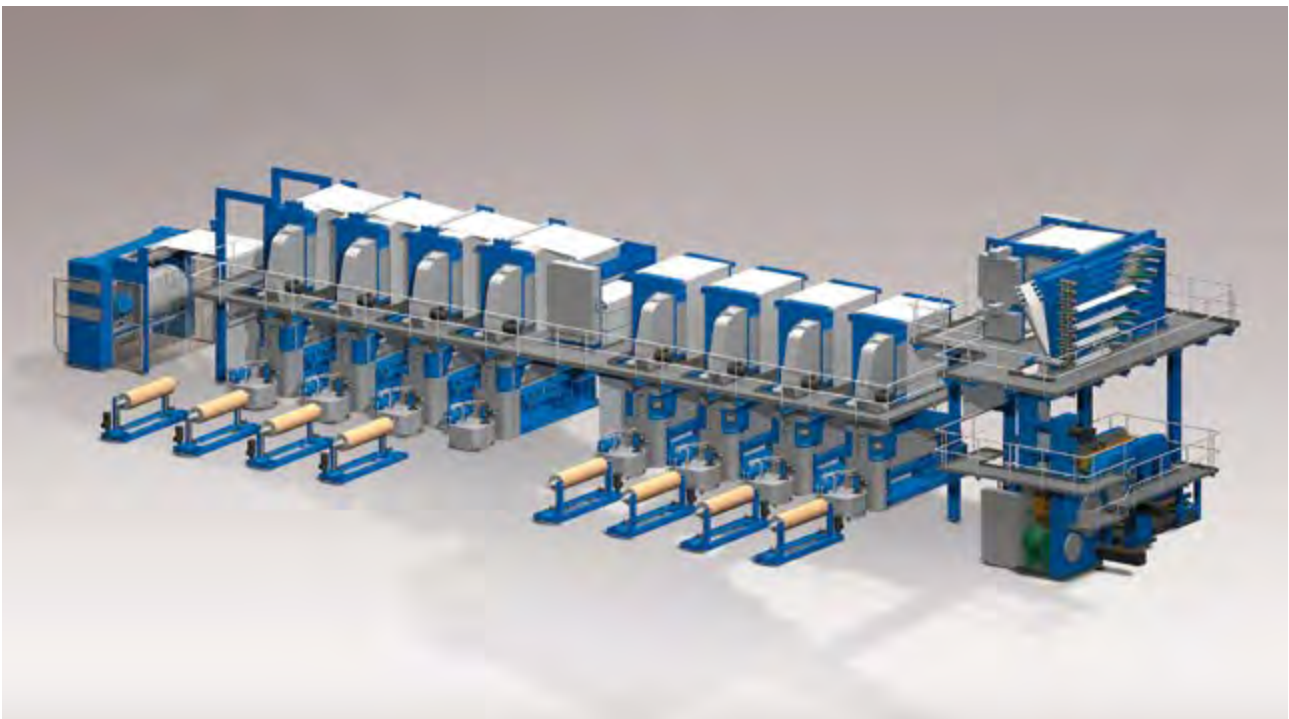
● AURORA

A new generation of rotogravure for publication.

The mid-size rotogravure press for publication printing

With a max. web width between 1.9 and 3.18 meter, it is the most economical solution for publication runs from 200.000 copies, thanks to:

- Energy savings
- Low manning
- Low investment cost
- High productivity



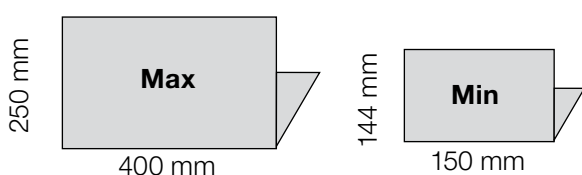
Aurora presses: several models with different web widths

MODEL	R530	R532	R535	R537	R538	R540	R542
meter	2.00	2.20	2.45	2.65	2.75	3.08	3.18

Aurora presses: product range

Folder

Ex.: any product between:



Products from 8 to 132 pages

(stitched in line up to 96 pages)

From 2 to 14 ribbons

Example of the great pagination variability

Number of ribbons	2	4	6	8	10	12	14
6U <<<	24	48	72	96	120		
4U <<	16	32	48	64	80	96	112
8U <<<<	2 x 16	2 x 32	2 x 48	2 x 64	2 x 80	2 x 96	2 x 112
4U <<	2 x 8	2 x 16	2 x 24	2 x 32	2 x 40	2 x 48	2 x 56
6U <<<	3 x 8	3 x 16	3 x 24	3 x 32	3 x 40	3 x 48	3 x 56

Aurora – Productivity gains

SAVINGS CONFIRMED AFTER PRESS INSTALLATION

Productivity gains in respect to a traditional rotogravure press

Net production speed	+21%
Job Changeover time	1 hour
Waste at startup	-33%
Energy consumption	-12%
Manning required on the press	-25%
Investment cost for one press	-23%

● R335

The very wide press for publications.

The market demands:

- More flexibility
- Higher speed
- High volumes
- Minimized waste
- Shorter job change-over
- Reduced manning and maintenance
- Full pre-settable devices
- More automation
- Integrated production and maintenance management

Our answer

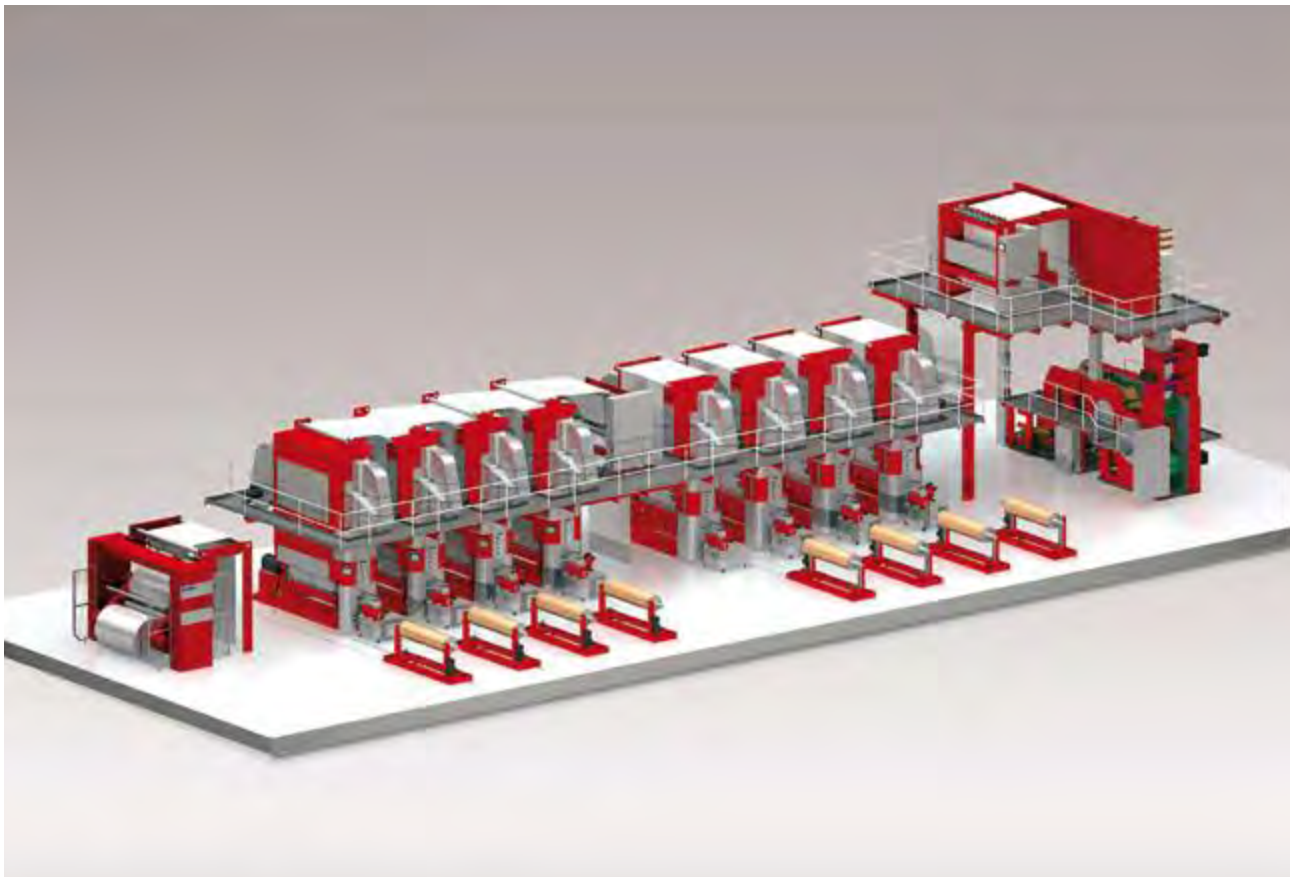
Web width up to 4.320 mm

- Mechanical speed up to : 62000 rph
- Production speed up to : 57000 rph or 16 m/s
- Reel diameter up to 1,5 m
- Fully automatic job change-over on printing units, with motorized cylinder carts and automatic angular preset of printing cylinders by means of short-stroke compensators
- Full automatic preset for: unwinder, printing units, upper and lower folders

- No-splash guard system on printing units
- Full automatic printing cylinder washing during the run and at end of production
- Full automatic impression roller washing at the end of production
- Pulling groups driven by independent motors with automatic tension control
- Lower folders driven by independent motors

Options:

- Pre-conditioning chamber
- Imprinter (flexo)
- Former glueing
- ADD-A-CARD
- Silicon applicator
- Variable cutter-folder
- Folder stitching
- Quarter and double parallel folders
- PICO: Cerutti Production & Maintenance
- Data Server
- Reduction of cost and layout with double ender configuration



● CUTTER

The Cerutti Cutter: more flexibility to rotogravure! A Cutter in line with the press

What is a Cutter?

A Cutter is a “device” that...

- does NOT fold
- it simply CUTS ribbons that have been folded by 1 or more formers installed on the superstructure

Former Folder Cutter

Is the most efficient way of producing low pagination signatures and covers. Very high production speed.

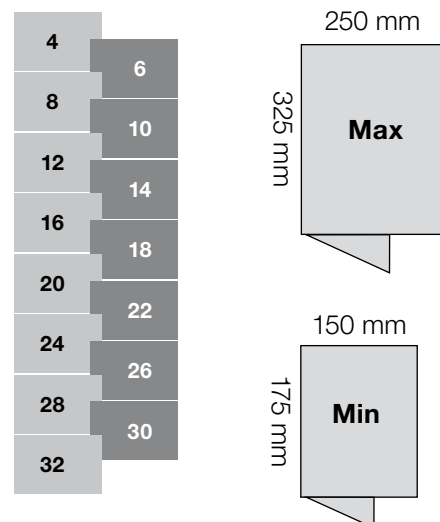
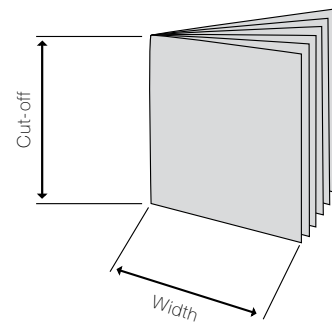
Cutter production possibilities

Production speed will depend on:

- quality, weight, and printability of paper
- size and number of pages
- inks and solvents used
- cylinder preparation
- required printing quality.

To calculate the max. guaranteed speed for each product, speed diagrams and their relevant reduction factors must be consulted.

Pages		A4 format Cut-off: 216-325 mm Width: 150-250 mm	A5 format Cut-off: 175-216 mm Width: 150-250 mm
32	2 FORMERS	140,000 copies / h	100,000 copies / h
28		150,000 copies / h	110,000 copies / h
24		160,000 copies / h	120,000 copies / h
20		164,000 copies / h	124,000 copies / h
16		168,000 copies / h	127,000 copies / h
12	1 FORMER	250,000 copies / h	190,000 copies / h
8		250,000 copies / h	190,000 copies / h
4		250,000 copies / h	190,000 copies / h



Products from 4 to 32 pages (glued in line) with 2-pages stepping! No trimming waste!

Flexographic presses for newspaper printing.

Every day in Italy, about 1.000.000 newspaper copies bear the Cerutti signature, also appeared on the pride of the English press, The Daily Mail.

● S4

The “common impression cylinder” full color flexographic press for newspapers and telephone directories

Main technical features:

- Up to 128 full color pages in collect or straight mode
- Up to 192 full color pages in collect mode
- Max. production speed: 14 m/s (2,755 fpm)
- Web width up to 2,000 mm (~ 79 inches)
- Water-based inks
- CIC compact layout
- 3/3 or 5/5 folder configuration
- Full shaftless technology
- Automatic washing system
- Possible integration with digital printing
- Third cross folder available as option



24/7 Cerutti Service.

A global supplier has to be available to his customers at any time. Our 24/7 remote assistance service is our answer to this market request.

A number of highly qualified specialists in Cerutti are available 24 hours a day, 7 days a week to support customers with Cerutti presses, allowing them to maximise press up-time.

The 24/7 service has been more recently coupled with a preventive maintenance/auditing service in order to anticipate potential issues and eliminate them before they can impair press productivity. Our 24/7 service has been able to support customers all over the world spanning from Australia to the Middle East, to Europe, to Africa and America: the proof that any customer can get benefits from our service.

Our 24/7 service has grown in the number of customers subscribing to it and we believe it will grow more and more.

These are the reasons for success of our initiative:

1. The prompt reply of our technicians day and night has been able to minimize press down-time for fault correction. If spare parts were necessary to solve the problem, the on-line access to the supplier network has allowed our specialists to provide replacements for the damaged items in the shortest time.
2. Those who joined the program were allowed on-line access to the drawings and electronic manuals of the installed presses and they were supplied with comprehensive instructions on how to use manuals to carry out maintenance in the most efficient way.
3. The analysis carried out on a continuous basis by our specialists on the presses under contract and the relevant information provided to the end users, has allowed them to achieve a greater knowledge of press operation, drive details and controls of their presses; thus resulting in optimization of functioning with minimum waste of time.
4. The electronic equipment used by our 24/7 specialists enables them to monitor the origin of press stops and fault history of the presses. This has helped our technicians to identify the recurrent causes of the faults and to eliminate improper usage of press controls by recommending correct electronic set-ups in order to minimize occurrence of problems on the press.
5. Our specialists have prepared a data base of questions and answers to eliminate possible press malfunctioning. This tuition activity for customers enables an exchange of information aiming to supply them with details of the latest available technology on the market and with the possibility of retrofits to improve machine performance.

So, in few words, the 24/7 service is a way to improve efficiency, therefore margins.



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