



ROTATEK

PRINTING AND PACKAGING TECHNOLOGIES

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OUR COMPANY



ROTATEK, founded in 1970, is a leading international manufacturer of printing and finishing machinery for the market of flexible packaging, folding carton, security printing, commercial printing, pharmaceutical leaflets, among others. Located in Barcelona, **ROTATEK** designs, manufactures, markets and provides technical service for all its machinery.

Since its inception, **ROTATEK** has made a clear commitment to technological innovation in its products to provide solutions that are more efficient, more productive and of higher value to the printer.

“

**LEADER IN THE
INDUSTRIAL
PRINTING SECTOR**

OUR COMPANY



**KEYS TO SUCCESS:
RELIABILITY,
CUSTOMIZATION,
PROFITABILITY AND
MODULARITY OF OUR
EQUIPMENTS**



ROTATEK offers a wide range of in-line finishing and printing machines: Combined semi-rotary / fully rotary offset, sleeve fully rotary offset, fully rotary offset combined with servomotors and in-line finishing machines.

The modular design of all **ROTATEK** machines offers the printer a large degree of product customization, combining multiple in-line printing finishing units. All kinds of materials can be printed and finished in a single pass.

ROTATEK follows a strict quality procedure, covering the purchase of raw material to the manufacturing, assembling and delivery of the final product. In 1996 we were awarded the ISO9001 Quality Standard, which since then has been successfully renewed on an annual basis to the present day.

Its team of highly qualified professionals and their passion for our product and service have enabled us to become a brand that is renowned worldwide.

There are over 1,700 **ROTATEK** presses installed in over 70 countries, this is the best endorsement of the quality of ROTATEK's products and services.

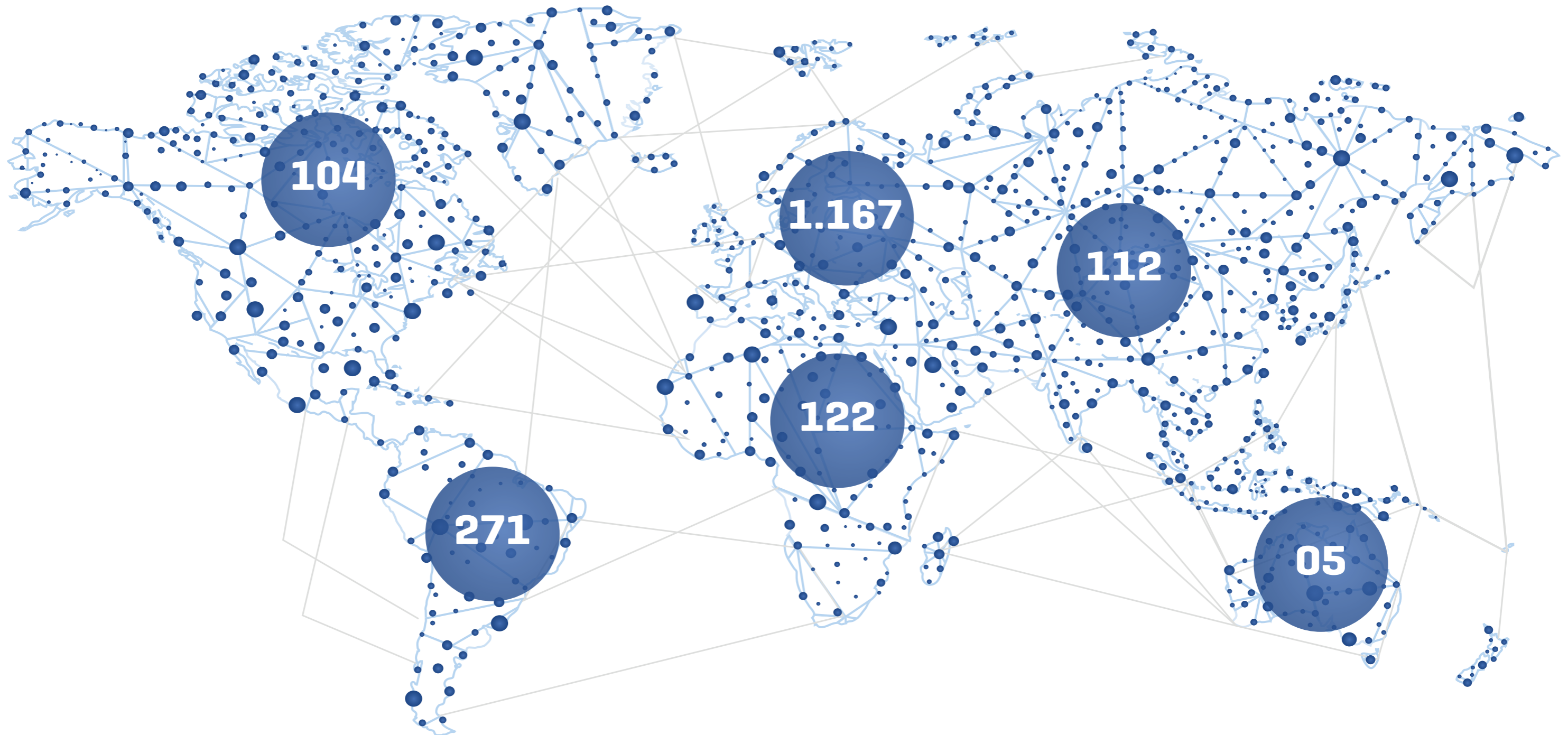
Rotatek's name is today synonymous with professionalism, innovation, technology and personalized service to the customer.



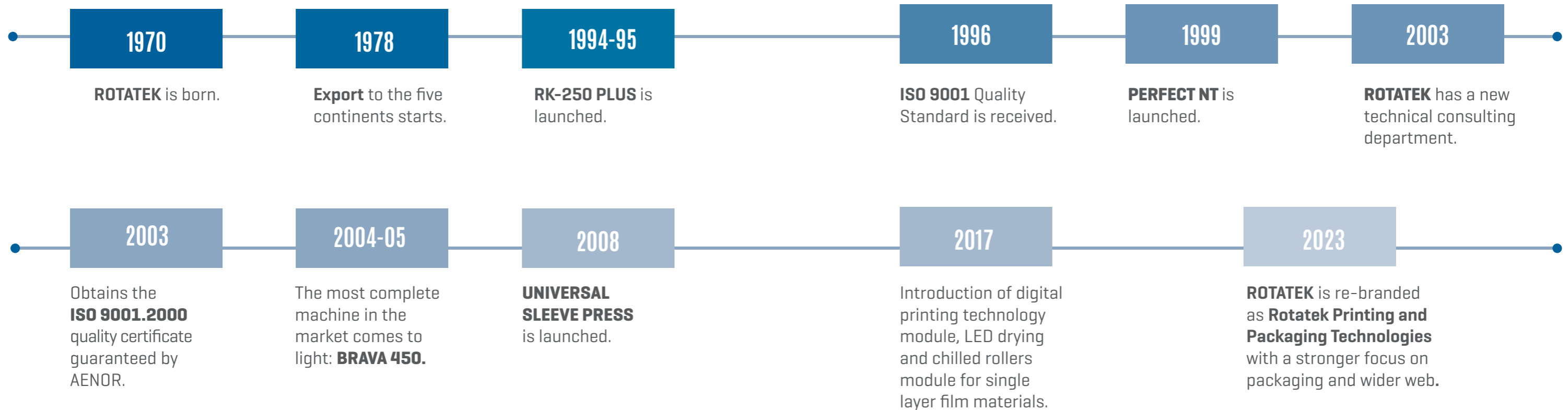
The company today is synonymous with professionalism and delivery, **its key to success is the customization of its machinery to the specific needs of each market**, all thanks to its vast product knowledge.

INTERNATIONAL PRESENCE

1.781 Worldwide machines



HISTORY



Applications

Markets



Self-adhesive labels

Heat shrink labels

Flexible packaging

Laminated tube



In-mould

Aluminum

Folding carton

Commercial Printing



Business forms

Pharmaceutical leaflets

Security



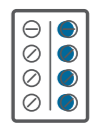
Wine sector



Non-alcoholic beverages



Spirits



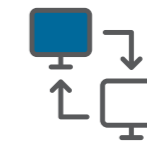
Pharmacy



Cosmetic



Personal care



Electronics



Food



Security



Logistic



Commercial printing

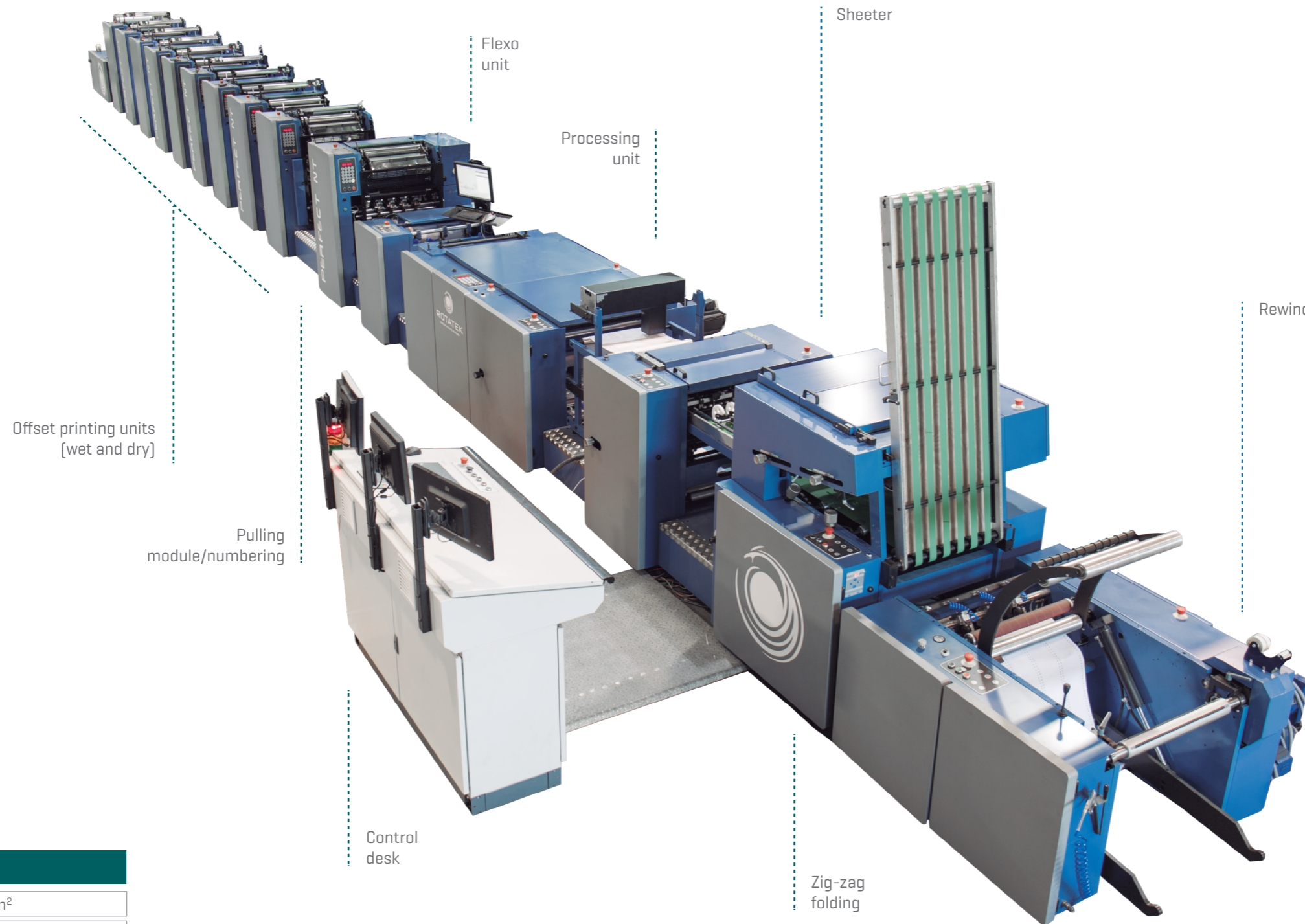


Transactional documents



The perfect reinvention

It incorporates the latest Shaftless technology in all its possible configuration modules, eliminating the cardan shaft transmission and gear boxes.
 FULL ROTARY OFFSET PRESS WITH MODULAR CONFIGURATION ADAPTABLE TO CUSTOMER'S NEEDS.



SPEEDS



ROTARY

Up to **350** m/min
 Sheet **200** m/min
 Zig-Zag **200** m/min

WIDTH



Maximum printing width **505** mm
 Minimum substrate width **150** mm
 Maximum substrate width **520** mm

PRINTING SUBSTRATES:

- Paper from 40-250 gr/m²
- Aluminum
- Film and self-adhesive paper
- Folding carton
- Thermal paper and carbonless
- Films, BOPP, PET, PVC (minimum 15 microns)
- Heat shrink labels, in-mould

Perfect NT

Rotary

Robustness and efficiency

The **Perfect NT** is the most versatile rotary press in the market. The modular design and the shaftless technology allow multiple combinations in-line. This design has been developed mainly to match the requirements of the security printing industry and folding carton. In this respect, the improved and accurate tension control allow, together with the servo drives, to maintain a perfect register to reduce the paper wastage dramatically.

This technology allows individual control of the units for a very fast set up even with the most difficult substrates, and generate a constant and stable offset printing quality.

The **Perfect NT** has demonstrated proven records in the printing manufacture of numerous products which involve mix printing processes in the field of security for bonds, value documents, diplomas, tax labels, stamps, stamped paper, train, bus or airline tickets, museum shows and sports events tickets, cheques but also in the label industry for spirits, wines and liquors, pharmaceutical and cosmetic, and the packaging industry on different foils, aluminium, films and carton board..

These numerous different segments have opened a tremendous range of opportunities for the web offset shaftless technology in the world of printing.



ONLINE COMBINATIONS

Offset Units	Totally Inspection system 100%
Flexographic Units	Hot stamping
Gravure Units	Injet printing of variable data
Screen Printing Units	Non- stop unwinding and rewinding
Cold Stamping	Corona treatment
Die cutting Units	UV drying
Reprocessing	EB drying
Automated Ink Control System	Hot air drying
Automated Registration Control System	Sheet outfeed
Video System	Zig zag outfeed

TECHNICAL SPECIFICATIONS

ROTARY SYSTEM

Printing formats 16" to 28"	Non-printing zone 3 mm approx.	Unwinding diameter 1.270 mm (700 kg)
Folding Formats 5 1/2" to 17"	Offset plate thickness 0'15 / 0'20 / 0'30 with mechanized locking	Shaft diameter 70 mm / 76 mm / 150 mm
Cutting Formats 6" to 28"	Blanket thickness 0'90 / 1'05 mm adhesive blanket	

APPLICATIONS



Labels
Folding carton
Security documents
In-mould

Pharmaceutical leaflets
Flexible packaging
Laminated tube

MARKETS

Pharmaceutical leaflets



Security



Transactional documents



Tickets



Logistic



Commercial printing



SPECIALLY DESIGNED FOR THE MOST DEMANDING MARKETS OF BUSINESS FORMS PRINTING, SAFETY AND FOLDING CARTONS



Versatility and flexibility in-line

The unique model in the market wet offset semi-rotary and fully rotary.
 PATENTED TECHNOLOGY PCT / ES2005 / 000481



SPEEDS



SEMI-ROTARY

Up to **12.000** cycles / hour

ROTARY

Up to **150** m/min

WIDTH



Maximum printing width **420 mm**

Minimum substrate width **150 mm**

Maximum substrate width **450 mm**

PRINTING SUBSTRATES:

- Film from 12 microns
- Self-adhesive material
- Paper
- Structured paper
- Folding carton
- Polyester
- PVC

Brava 450

Fully rotary and semi-rotary

The most ductile solution

Brava is the only offset machine in the market which is able to print in-line, offering both web handling systems for the infinite repeats: semi.rotary system for short and medium runs and fully rotary system for long runs. The semi-rotary system allows you to change repeats fully automatically from the machine's touch screen panel, there is no need to change format cylinder or use tools, which is critical for short runs in order to keep job costs to a minimum.

Thanks to the latest servo technology (independent motors) and to its modular concept, Brava brings absolute flexibility and a combination of many printing processes, finishing and processing in-line (Offset, flexography, hot foil stamping, embossing, silk screen, cold foil stamping lamination), and gives the printer a high value added product.

The servo-driven machine is fully controlled and motorised from the main control desk. Thanks to the complete, integrated system with register control, automatic inking system and video inspection, the printer has the opportunity to reach the best reliability in the printing quality and obtain consistent results, also for repeats orders.

In addition, the possibility to memorise printed jobs, to pre-set the press enabling short set ups and very low waste, together with the possibility to manage automatically the colour matching from Cip4, are other main advantages of Brava. Remote diagnostics control assistance is standard in all Rotatek printing machines.



ONLINE COMBINATIONS

Offset units
Flexographic Units
Semi-rotary screen unit
Hot and cold stamping
Embossing unit
Die Cutting Unit
Lamination
Flat Screen unit
UV drying
UV LED drying

Reprocessing
Automatic inking and register control
Video system
100% total inspection
Corona Treatment
Chilled rollers
Sheet outfeed
Inkjet Solution
Quality Control Video

TECHNICAL SPECIFICATIONS

FULL ROTARY SYSTEM	SEMI-ROTARY SYSTEM	GENERAL
Full rotary production 4.050 m ² /h	Semi-rotary production 2.160 m ² /h with maximum advance of 400 mm	Non printing zone (full rotary system) 3 mm with cylinders for adhesive blankets
Print formats Variable between 13 "and 25"	Printing formats Variable between 200 mm and 400 mm	Shaft diameter 70 mm / 3" or 6" Grammage Between 60 -250 g/m ²
Die-cutting 1/6 " steps	Die-cutting 0.1 mm steps	Maximum Diameter unwind reel 1.000 mm

APPLICATIONS



Self-adhesive labels
Laminated tube
Aluminum
Heat shrink labels
Paper

MARKETS

Wine sector



Food



Personal care



Pharmacy



Cosmetics



Spirits



Non-alcoholic beverages



Electronics

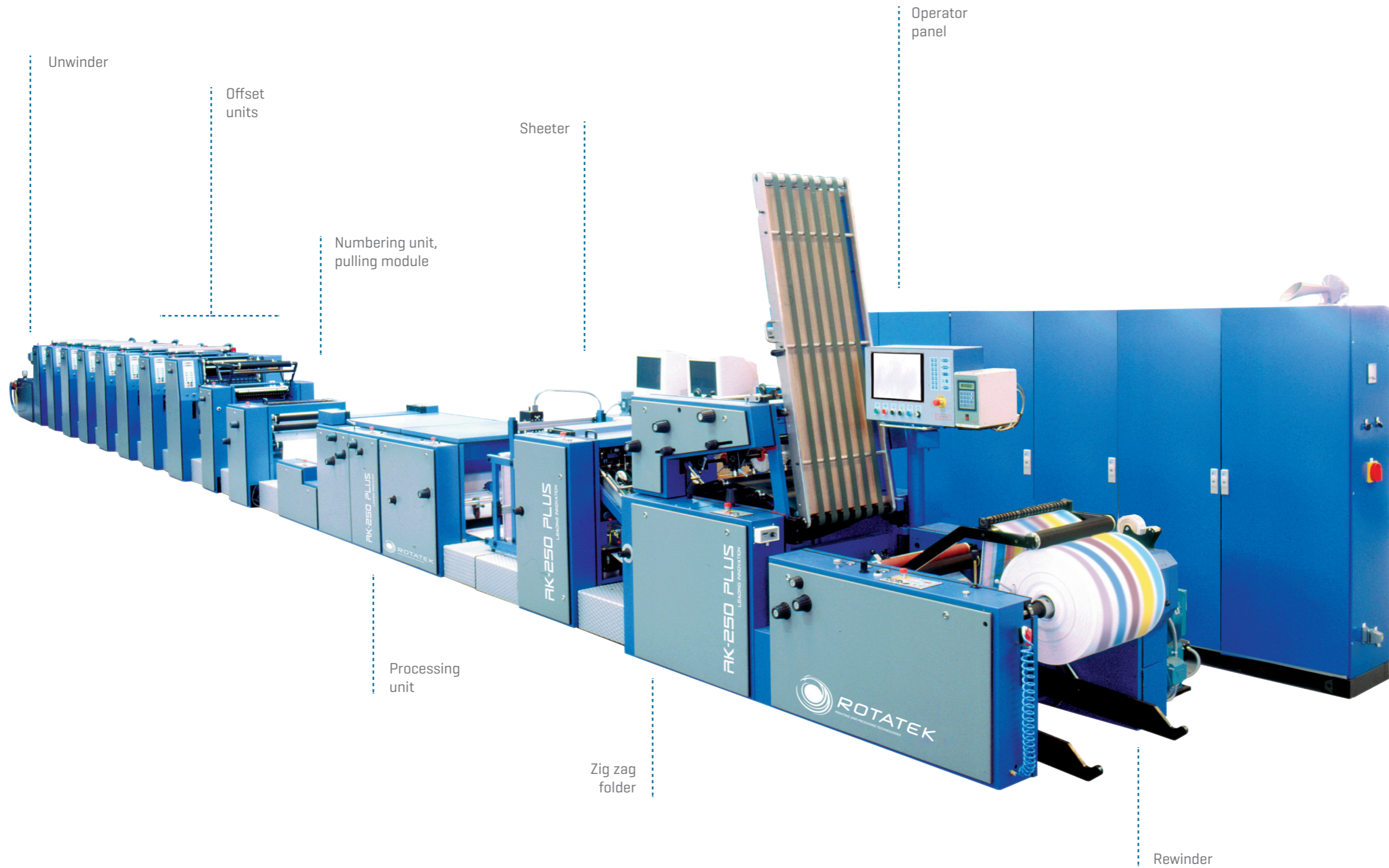


“**BRAVA, THE UNIQUE SEMI-ROTARY / FULL ROTARY WET OFFSET PRESS WITH VARIABLE FORMAT AND SHAFTLESS TECHNOLOGY IN THE MARKET. SEMI-ROTARY FOR SHORT AND MEDIUM RUNS AND FULLY ROTARY FOR LONG ONES**”



Functionality, quality and profitability

The full rotary offset press of variable format, specially designed for the pharmaceutical market business forms and security, admitting low-grammage and reaching high speeds.



SPEEDS



ROTARY

- 250**
m/min Roll to Roll
- 200**
m/min Roll to sheet
- 200**
m/min Roll-Zig zag

WIDTH



Maximum printing width
480 mm

Minimum substrate width
150 mm

Maximum substrate width
500 mm

PRINTING SUBSTRATES:

- Auto-adhesive paper
- Paper 35/180gr x m²
- Folding box
- Aluminium
- Folding carton

RK-250 Plus

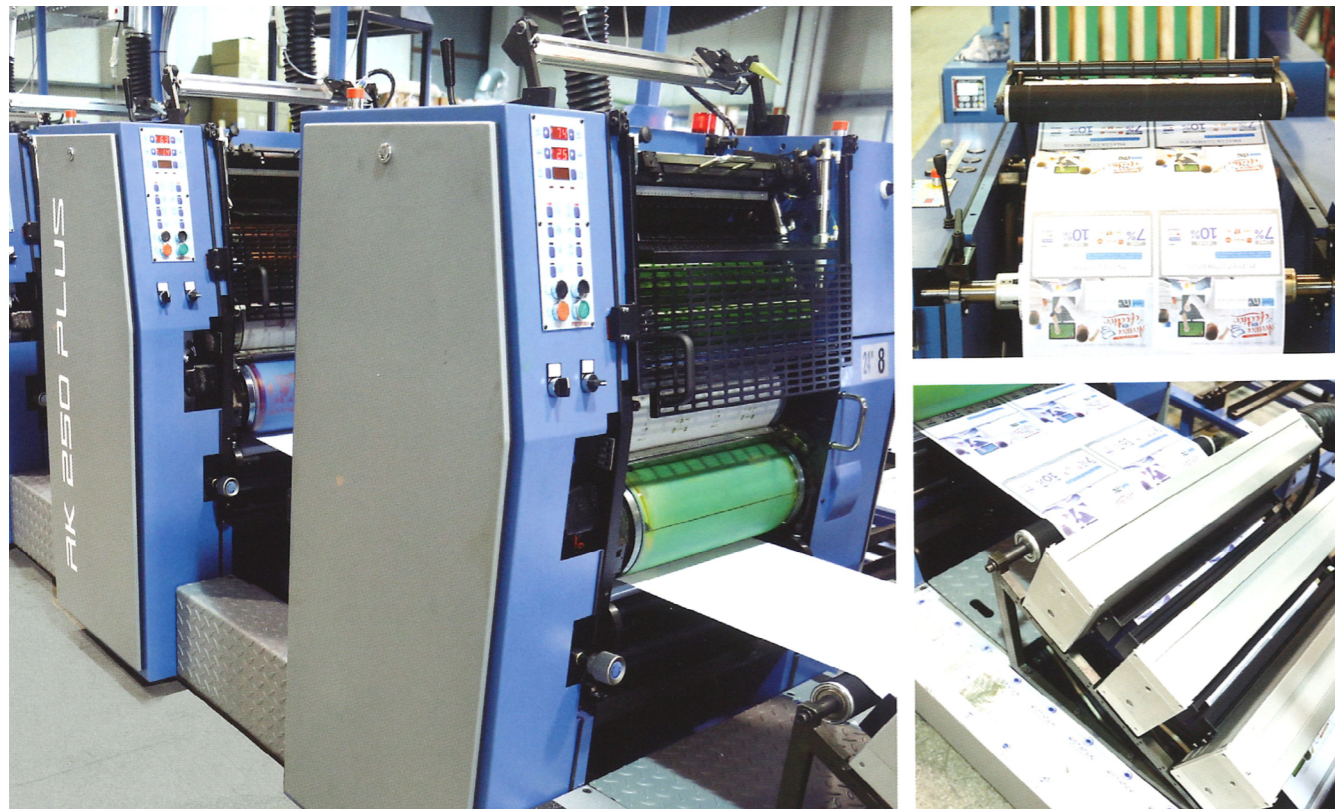
Rotary

Printing and finishing

The **RK-250 Plus** Variable Format Rotary Offset Press is purpose-designed for full colour printing, security and commercial documents.

Its high-quality printing, simplicity in the preparation of the work, together with its mechanical speed of 250 m/min, make RK-plus Shaftless the ideal rotary press for print runs of any size.

If you add to this the quick change of format and the offset printing units, with 16 roller batteries, inkwells located at the front, automatic zero positioning and the remote control longitudinal register, you have a versatile and highly productive rotary press, unbeatable for its speed and print quality. Its modular system and wide range of options allow you to set up the press according to the various products required.



ONLINE COMBINATIONS

Additional positions for cross-perforation	Plate Position Corrector
Motorized side register	Ink striker
Automatic washing	Second File Position
Motorized inking system adjustment	Metric Option
Production management system	Battery Reinforcement
Battery Declutch	Die cutting unit with magnetic cylinder
Numbering unit	Batcher/stacker
Letterpress unit	Screen units
Flexographic units	Sheet outfeed
UV / IR / hot air drying	In-jet head
Batteries motorization	

TECHNICAL SPECIFICATIONS

ROTARY SYSTEM

Offset cassettes variables between 11" and 26"	Non-printing zone 3-4 mm with adhesive blankets 8 mm with non-adhesive blankets	Maximum coil diameter 1270 mm
Sheet format variables between 6" and 25"	Plate thickness 0'15 o 0'20 mm with quick fastening system	Shaft Diameter 70 mm
Folding format 5 1/2" to 17"	Blanket thickness 1'05 mm with adhesive blanket	
Printing format 16" to 28"	Maximum rewinder diameter 1270 mm	

APPLICATIONS



Pharmaceutical leaflets

Business forms

Transactional documents

Security documents

MARKETS

Pharmaceutical leaflets



Security



Transactional documents



Commercial printing



**ESPECIALLY DESIGNED FOR FULL COLOR PRINTING.
IT CONTAINS A MODULAR SYSTEM THAT ALLOWS
THE PRINTING OF ANY TYPE OF JOB.**



Patented offset sleeve technology

Variable Offset / Flexo interchangeable light weight sleeve press with quick and easy sleeve's change, less than 1 minute.



SPEED



Up to **350** m/min
Roll to Sheets **250**
m/min

WIDTH



Maximum
substrate width
520 mm | 680 mm |

Minimum
substrate width
220 mm

Maximum
printing width
500 mm | 660 mm |

PRINTING SUBSTRATES:

Films
BOPP
PET
PVC [from 15 to 400 microns]
Heat shrinkable material
Self-adhesive paper
Self-adhesive paper [150 to 400gr/m ²]
Aluminium
Paper [40 to 300 gr/m ²]

Universal

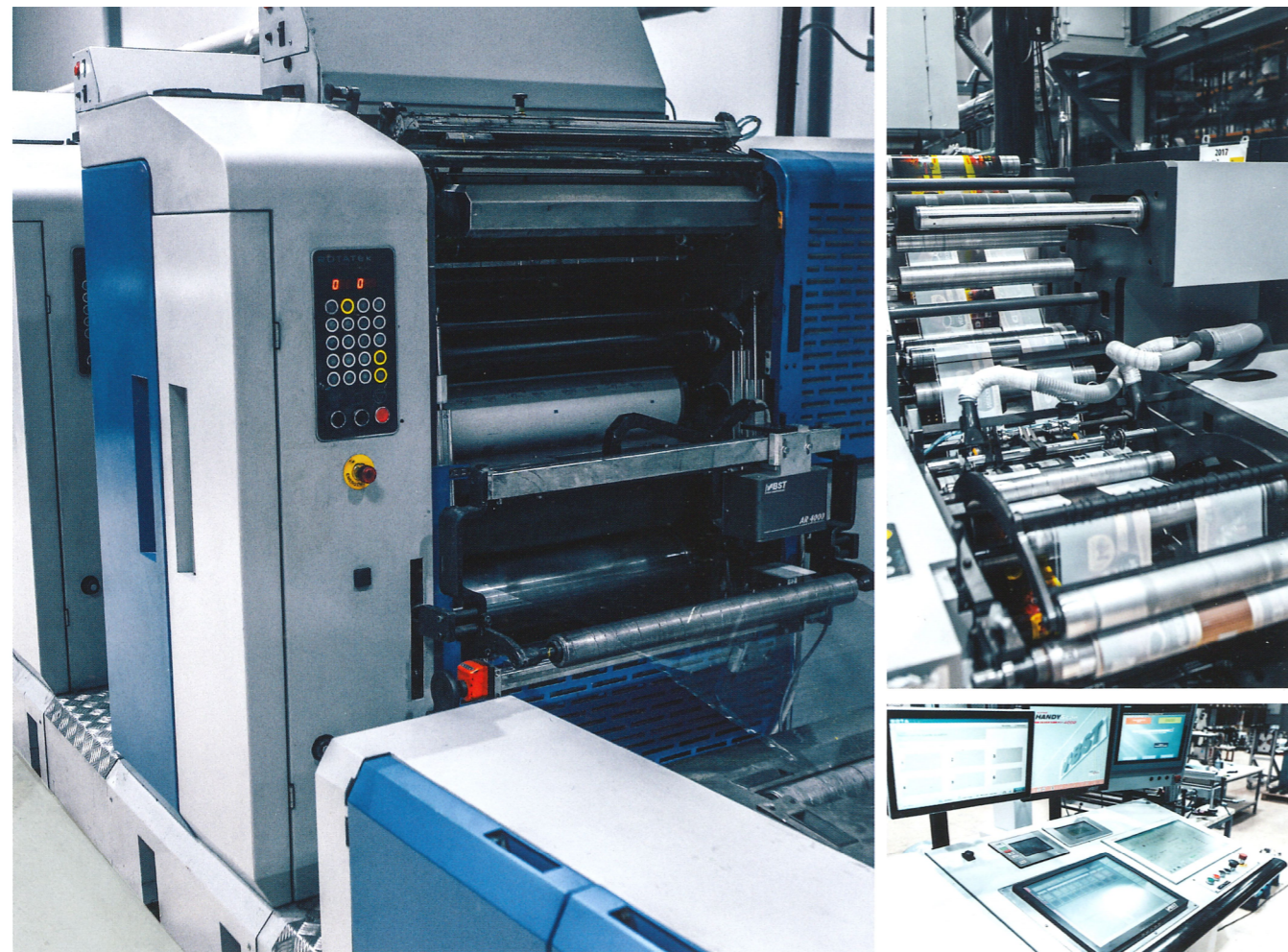
Rotary

Wide variety of printing substrates

Universal has a system of interchangeable light offset sleeves which are patented by Rotatek worldwide. The sleeve technology gives unbeteable ease and simplicity in changing multiple formats. Whereas changing jobs merely requires removing the sleeves, which avoids the material breaking.

Not only is it easier and faster, but it is also a much more cost-effective way of printing in different formats, because, using this technology, you only need to change two light sleeves. Sleeve technology, which has contributed greatly to the development of flexo printing, is now also a reality in the offset world.

Apart from Universal's very high offset quality, and flexibility of changing formats and speed of changing jobs, it has the advantage of a lower pre-printing cost [offset plates are cheaper than flexo plates or rotogravure rollers].



ONLINE COMBINATIONS

Flexographic units	Video system
Rotogravure units	Totally inspection system 100%
Screen printing units	Hot stamping
Cold stamping	Injet printing of variable data
Die cutting units	Non-stop unwinding and rewinding
Reprocessing	Corona treatment
Automatic inking system	UV / EV / Hot air drying
Automatic register control system	Sheet outfeed

TECHNICAL SPECIFICATIONS

GENERAL SYSTEM

Formats
variable between 400 and 800 mm

Sheeter
0'15 / 0'20 mm

Shaft Diameter
70 mm, 76 mm, 150 mm

Die cutting formats
variable between 400 and 800 mm

Plate thickness
0'90/1'05 mm mm with adhesive blanket

Blade cutting
variable between 175 and 711 mm

Unwinding diameter
maximum 1500 mm (maximum 800 kg)

APPLICATIONS



Labels

Business forms

Flexible packaging

Security documents

Folding carton

MARKETS

Food



Pharmacy



Cosmetic



Non alcoholic beverages



**IT ALLOWS A LOT OF CONFIGURATIONS AND COMBINATIONS
IN PRINTING, PROCESSES AND FINISHINGS.**

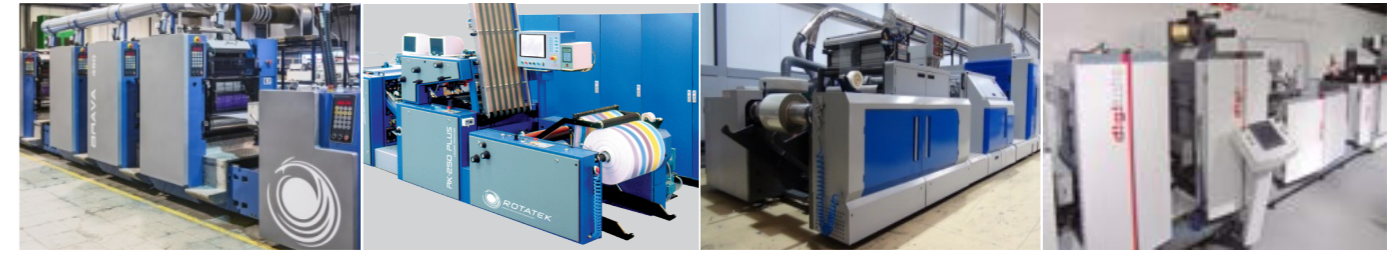


ROTATEK MACHINE'S COMPARISON

COMBINATION OF IN-LINE FINISHINGS				
	BRAVA 450	UNIVERSAL 520 / 680	PERFECT NT	RK-250
HOT STAMPING				
Rotary	✓	✓	✓	✓
Semi-rotary	✓	-	-	-
COLD STAMPING				
Rotary	✓	✓	✓	✓
Semi-rotary	✓	-	-	-
EMBOSSING				
Rotary	✓	✓	✓	✓
Semi-rotary	✓	-	-	-
DIE CUTTING				
Rotary	✓	✓	✓	✓
Semi-rotary	✓	✓	-	-
LAMINATION				
Rotary	✓	✓	✓	✓
Semi-rotary	✓	-	-	-
SILKSCREEN				
Rotary	✓	✓	✓	✓
Semi-rotary	✓	-	-	-
Flat	✓	-	-	-
ROTOGRAVURE				
Rotary		✓	✓	✓
FLEXO				
Rotary	✓	✓	✓	✓
Semi-rotary	✓	-	-	-

BASIC EQUIPMENT				
	BRAVA 450	UNIVERSAL 520 / 680	PERFECT NT	RK-250
Main Power Supply 400 V, 50Hz, 3 phases + N + TT	✓	✓	✓	✓
Shaftless transmission	✓	✓	✓	-
Side & Longitudinal register control from main panel touch screen (desk) and on every unit	✓	✓	✓	✓
Remote longitudinal (360°) register control	-	✓	✓	-
Machine equipped with "0" position	✓	✓	✓	✓
Pre-selection counter/speed indicator	✓	✓	✓	✓
Production counter	✓	✓	✓	✓
Standard gearing in mm	-	✓	-	-
Standard gearing 1/6" - 1/4"	✓	-	✓	✓
Extra set of rubber rollers (inking and dampening) for one offset unit	✓	✓	✓	✓
Web brake detectors	✓	✓	✓	✓
Operator panel with touch screen	✓	✓	✓	✓
Pulling module	✓	✓	✓	✓
Ethernet Modem	✓	✓	✓	✓
Spare parts kit and tools	✓	✓	✓	✓
Automatic central lubrication system	✓	✓	✓	✓
Auto positioning of semi-rotary units when changing sizes	✓	-	-	-
Machine equipped with Security Norms CE	✓	✓	✓	✓

PRODUCT RANGE - OFFSET TECHNOLOGY



TECHNICAL SPECIFICATIONS	Brava 450	Brava 350
Max. Mech. Speed [rotary mode]	150 m/min	×
Max. Mech. Speed [semi-rotary mode]	12.000 cycles / hour [40 a 80 m/min]	12.000 cycles / hour [40 80 m/min]
Max. Production [rotary mode]	3.780 m ² / hour	×
Max. Production [semi-rotary mode]	2.160 m ² / hour [formato 400 mm]	1.680 m ² / hour [formato 400 mm]
Max. printing width	420 mm	320 mm
Max. web width	450 mm	350 mm
Min. substrate width	150 mm	150 mm
Printing size [rotary mode]	From 13" to 25" [1/6" steps]	×
Printing size [semi-rotary mode]	From 200 to 400 mm	From 200 to 400 mm
Die-cutting [rotary mode]	From 13" to 25" [1/6" steps]	×
Die-cutting [semi-rotary mode]	From 200 to 400 mm	From 200 to 400 mm
Folding formats	-	-
Sheeter	¹ Printed format	¹ Printed format
Printing plate thickness	0,15 / 0,20 mm	0,15 / 0,20 mm
Blanket thickness	1,05 mm adhesive	1,05 mm adhesive
Non-printing gap [rotary mode]	3 mm ^[2]	×
Non-printing gap [semi-rotary mode]	0 mm	×
Shaft diameter, unwind	70 mm, 3" or 6"	70 mm, 3" or 6"
Max. Diameter unwind reel	1.000 mm	1.000 mm

PERFECT NT	RK-250 Plus	UNIVERSAL 520/680
350 m / min	250 m / min	350 m / min
×	×	×
7.575 m ² / hour	5.760 m ² / hour	9.000 / 11.880 m ² / hour
×	×	×
505 mm	480 mm	500 / 660 mm
520 mm	500 mm	520 / 680 mm
150 mm	150 mm	220 mm
From 16" to 28"	From 11" to 26"	From 400 to 800 mm
×	×	×
From 16" to 28"	From 11" to 26"	From 400 to 800 mm
×	×	×
From 5 1/2" a 17"	From 5 1/2" a 17"	-
From 6" to 28"	From 6" to 25"	From 200 to 800 mm
0,15/0,20/0,30 ^[2] mm	0,15/0,20/0,30 ^[2] mm	0,15 / 0,20 mm
0,90 / 1,05 mm adhesive	0,90 / 1,05 mm adhesive	0,90 / 1,05 mm adhesive
3 mm ^[1]	3 mm ^[1]	3 mm ^[1]
×	×	×
70, 76, 150 mm	70, 76, 150 mm	70, 76, 150 mm
1.270 mm [700 Kg]	1.270 mm	1.500 mm [máx. 800Kg]

[1] With cylinders for adhesive blankets

[2] With mechanical reel lock

PRODUCT RANGE VS APPLICATIONS				
APPLICATIONS	OFFSET			
	Semi-rotary	Semi-rotary and Rotary	Rotary	
	Shaftless		Mechanical transmission	
	Brava 450	PERFECT NT	UNIVERSAL	RK-250 PLUS
Labels (self-adhesive, wet glue)	✓	-	-	✓
Laminated tube	✓	-	✓	-
Folding carton	-	✓	✓	-
Security printing	-	✓	-	✓
Sleeves labels	✓	-	✓	-
IN-MOULD	-	✓	✓	-
Commercial print	-	✓	✓	✓
Pharma Leaflets	-	✓	✓	✓
Flexible Packaging	✓	✓	✓	-
Aluminium foil	-	✓	✓	-
Business forms	-	✓	-	✓



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