



POWERING PERFORMANCE

INLINE NARROW- AND MID-WEB MULTI-PROCESS
PRINTING & CONVERTING PRESSES

INNOVATION, LEADERSHIP, AND THE POWER OF SYNERGY

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The breadth of the BOBST web-fed printing and converting product range for the flexible materials and folding carton industries is truly comprehensive and has no match in the industry. Since first entering the flexible materials packaging arena in 1987, BOBST has brought into the Group some of the industry's most innovative, technology-driven machine manufacturing companies, each of which has brought with them world-leading technologies for their specialized sectors of the industry.

Assimilated into the BOBST brand in September 2015, and now operating as Bobst Firenze, Nuova GIDUE adds to the rich BOBST heritage, bringing with it know-how and experience in providing exclusive press technology for the inline narrow- and mid-web printing and converting of labels and packaging.

Converters in these industries now benefit from the unbeatable technology and innovation synergies of the Bobst Group, as well as from its multidisciplinary know-how, which ranges from R&D and project engineering to customer service. The result is leading-edge solutions designed to create maximum value and profitability for their users.

INNOVATION MILESTONES

BOBST FIRENZE'S REMARKABLE HISTORY
INCLUDES MANY TECHNOLOGY BREAK-
THROUGHS THAT HAVE SET NEW STANDARDS
IN THE LABEL AND PACKAGING INDUSTRIES



1981	1995	2002	2004	2006	2007	2009	2011	2012	2013	2014	2016
MiniPrint , offset printing press for business forms with variable format cassettes	VS 760 , the first offset mid-web press for the flexible packaging market	READY , drop-in silk screen and hot stamping heads movable on each Flower™ head	Intelligent Combat™ , the flexo press with automatic print pressure adjustment	Intelligent Camera™ , the first register control operated by individual HD cameras	Xpannd™ , the first lean offset press with press-integrated cassette storage	Universal Platform™ , interchangeable process heads movable on a platform	Digital Flexo™ , print set-up and production are "digitally" operated by the press	DigiGap™ , automated die-cutting pre-register, register and pressure control	M9 Line , heavy-duty multi-process line featuring Digital Automation™ for luxury cartons	REVO , bringing together the leaders in the flexo industry for the Digital Flexo Revolution	Smart DigiMount™ , automated, digitally controlled flexo plate mounting solely dedicated to sleeves
	1999	2003	2005		2008	2010					
	Flower™ , the most successful flexographic print unit in the narrow web industry	Unipro™ , the first mid-web press with print sleeves	Nemo™ , the first HD camera-operated register system with PC integrated navigation system		S Magnesium plates , hot stamping tools at up to 15-20 times lower cost	Master™ , the universal flexographic press for all substrates used in labels and packaging	M7 Offset Cube™ , featuring Mini-Cassette™ superlean technology "digitally"		Excellence™ , automated exchange of print cylinders, die-cutting units, magnetic plates	DigiGold™ , fully automated digital set-up for hot stamping print units	
						Snow Ball™ , after 60 years the revolution in waste matrix stripping			Digital Flexo™ 4.0 , closed loop, fully digital, automated quality control	Infinite Flower , the revolution in ink control, digitally adjustable color density	2017
									Metronome™ , high speed semi-rotary die-cutting		
										2015	
										V-Flower , automated print sleeve exchange, without stopping the press	

HIGHLY EFFECTIVE TECHNOLOGY IMPLEMENTATIONS

THE HUB FOR BOBST'S COMPETENCES IN WEB-FED
INLINE NARROW- AND MID-WEB PRINTING AND
CONVERTING PRODUCTION LINES IS LOCATED IN ITALY
AT BOBST FIRENZE'S PRODUCTION FACILITY



Team members receive the Label Industry Global Award, in Chicago, USA, September 2014.



Accepting the FTA Technical Innovation Award in Nashville, USA, May 2015.

Formerly Nuova GIDUE, the company has built a strong reputation as a solutions provider offering innovative, cutting-edge technologies in all the market sectors it serves.

Bobst Firenze and its many converting customers world-wide have been honored with numerous awards, reflecting the quality, efficiency and originality of technology that delivers genuine product and business value.

The latest major international recognitions to be received include the 2014 Label Industry Global Award for Innovation, given for technologies that digitize and automate the workflow, set-up and running of a flexo label press, and the 2015 Technical Innovation Award by the American FTA for the Digital Flexo Excellence Project™.



A WIDE RANGE OF SOLUTIONS

BOBST OFFERS INLINE NARROW- AND MID-WEB PRINTING AND CONVERTING PRESSES FOR THE LABELS AND PACKAGING INDUSTRIES, PROVIDING EXCLUSIVE SOLUTIONS AND BEST VALUE FOR QUALITY AND INNOVATION

Equipment overview

- All press lines include:
- Servo driven rewind shaft
 - Touch screen panel on each print unit
 - Main touch screen with PC operated HMI
 - Remote internet technical service
 - Organizer for lean handling and storage of magnetic cylinders.

Applications

BOBST inline narrow- and mid-web printing and converting presses address and satisfy the needs of manufacturers in the following market segments:

- Linerless labels
- Coupons
- Flexible packaging
- Stand-up pouches
- Alu-foil
- Cartons
- PS labels
- Wrap-around labels
- In-mold labels
- Sleeves
- Laminated tubes
- Lottery tickets
- Pre-paid phone cards
- Wet glue labels.



Model	Substrates	Drive	360° Pre-register automatic register	Max print units	Dies	Hot air IR dryers	UV on chilled drum	Hot air IR dryers on chilled drum	Delam Relam	Cold foil	Rail	Flexo cylinder sleeve	Offset	Gravure	Silk screen Easy Fit 12-18 in width 370 or 430 mm	Silk screen New RSI 12-25 in width 370 or 430 mm	Hot foil	Inkjet	Coupons (number of layers)	Metronome DigiGap Easy Bambi	Digital Flexo	Excellence ExcelPrint ExcelDie ExcelCut	Web width	
																							mm	in
MX	PS labels, paper	HB belt		8	1				1K	•					•								370	14.5
MX2	PS labels, paper	HP belt		8	2				1K	•					•								370	14.5
M1	PS labels, paper	HP line shaft		10	1-2-3	•	•		2K	•	•				•		•	•	2-3	•		(•)	370 430 530	14.5 17 21
M3	From 20 µ BOPP to 300 gsm carton (PS labels, paper, unsupported film, light carton)	Full servo	•	10+	2-3+	•	•	•	2K	•	•					•	•	•	2-3-4-5	•	•	(•)	370 430 530	14.5 17 21
M4L Labels	PS labels, paper, light carton	Servo	•	10+	2-3+	•	•	•	2K	•	•			•		•	•	•	2-3-4-5	•	•	•	370 430 530	14.5 17 21
M4 Labels & film	PS labels, paper, unsupported film, alu foil, light carton, lami-tubes	Servo	•	10+	2-3+	•	•	•	2K	•	•			•		•	•	•	2-3-4-5	•	•	•	370 430 530	14.5 17 21
M5	Unlimited	Full servo	•	10+	3+	•	•	•	3K	•	•	•	•	•		•	•	•	2-3-4-5	•	•	•	370 430 530	14.5 17 21
M5X	Unlimited	Full servo	•	8-10-12	1-2		•	•	3K	•	•					•	•		2-3	DigiGap and Easy Bambi only	•		370 430	14.5 17
M6	Unlimited	Full servo	•	10+	3+	•	•	•	3K	•	•	•	•	•		•		•	2-3-4-5	•	•	•	430 530 670	17 21 26
M7	PS labels, paper, light carton	Full servo	•	10+	3+	•	•	•	3K	•	•		•	•		•	•	•	2-3-4-5	•	•	(•)	370 430	14.5 17
M8	Film, light and heavy carton	Full servo	•	10+	3+	•	•	•	3K	•	•	•		•		•		•	2-3-4-5	•	•	•	870 1070	34.5 42
M9	PS labels, paper, light and heavy carton	Full servo	•	10+	3+	•	•	•	3K	•	•	•	•	•		•	•	•	2-3-4-5	•	•	(•)	530	21

MX LINE



TOP LABEL QUALITY,
SUPERB RELIABILITY

The perfect press to produce top-quality PS labels, year after year, with minimum waste

The MX Line is an evolution of the S-Combat, one of the most commercially successful press models in the industry. The line integrates the latest electronic and software advances from the top of the range M1 and M3 models, and makes good use of the experience from hundreds of installations worldwide. A modern press with the highest reliability in the market, the MX Line produces high quality labels with minimum waste and superb Flower™ print quality.

- Identical mechanical and electrical components to the M1 and M3 lines
- Touch panel on each print unit and main touch panel for PC operated MMI
- Equipped with the acclaimed Flower™ flexo head
- "Close to zero" maintenance for the whole lifetime of the press
- Consistent performance in quality and productivity year after year
- Very short web path with minimal waste during set-up
- Choice between single and double die-cutting unit
- Reliability, reliability, reliability: 99% up time!
- Perfect register stability at any speed
- Ideal for unskilled operators.

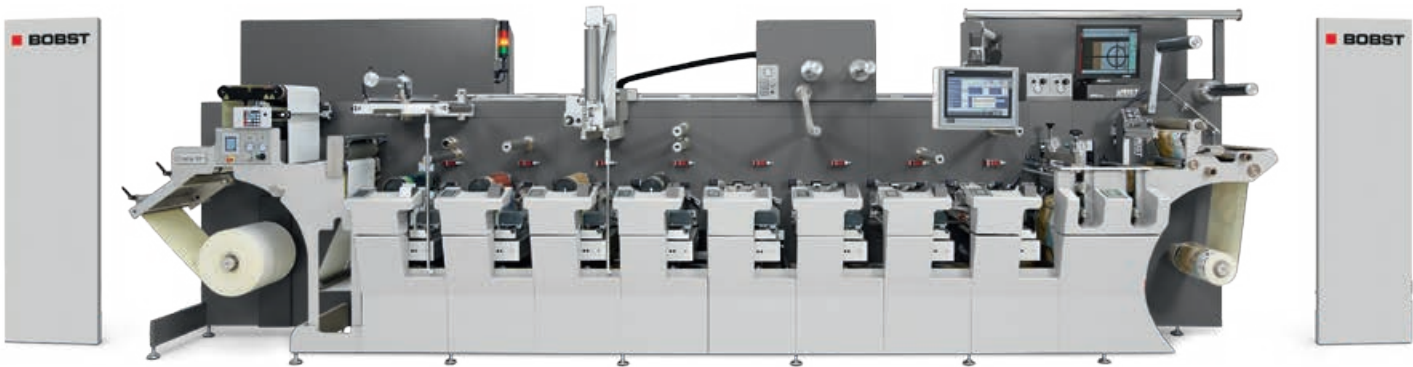
The MX Line is offered with fixed configuration and a limited number of options to reduce the cost of investment, whilst providing a high level of quality.

Substrates	PS labels, paper
Drive	HP belt
Gear pitch	3.175 mm - 1/8 in
Press speed, max	180 m/min - 591 ft/min
Print units, max	8
Repeat, min-max - Flexo	165.1 - 609.6 mm - 6.5 - 24 in
Web width (print width: less 10 mm)	370 mm - 14.5 in
Unwind diameter, max	1000 mm - 39 in
Rewind diameter, max	1000 mm - 39 in
Total web path through the press	12260 mm (8k 1 die) - 12760 mm (8k 2 dies)

Die-cutting	
Die-cutting units	1 - 2
Repeat, min-max	279.4 - 609.6 mm - 11 - 24 in (370)
SnowBall™	No
Matrix roll diameter, max	700 mm - 27.5 in
Easy Bambi™	No

Accessories	
Rail	No
Delam Relam	1 color on adhesive
Cold foil	Yes
Lamination	Yes

M1 LINE



THE ULTIMATE PRESS FOR LABEL CONVERTERS

Profitability and repeatable quality over the years

The M1 Line is a top of the range model producing the highest print quality in the label industry. Its excellent performance is continuously upgraded. Its latest configuration with mechanical line shaft drive and pre-register system combines with a short web path to allow for even shorter set-up times, less waste, and faster register correction. A host of accessories gives the M1 high flexibility for multiple press configurations, producing labels of the highest added value at cost-effective investment levels.

- Equipped with the acclaimed Flower™ flexo head
- Dedicated to the production of labels, the M1 has an open architecture to simplify access to the Flower™ flexographic print unit and offers the shortest web path in the label market
- LaserSet, the laser-assisted pre-register system allows minimum start-up substrate waste
- PrintTutor™ Eco, the camera based system for automatic register control, provides extremely accurate register quality during set-up and in production
- The M1, also in manual mode, guarantees exceptional register stability at speed changes and in production

- Choice between two or three die-cutting units
- Exceptionally stable production quality over many years of operation
- Low maintenance and running costs
- User-friendly Ready™ drop-in technology for fast interchangeability of flexo, screen and hot foil
- DigiGap™ for digitally automated print and die-cutting pressure control, providing the shortest digital set-up time, minimal waste and consistent quality during production
- SnowBall™ and Bambi™: exclusive technologies for high speed waste matrix rewinding and difficult label shapes.

Substrates	Self-adhesive stock (paper, PET, BOPP, PVC), unsupported paper 80 gsm min, light carton 280 gsm max
Drive	Mechanical line shaft
Gear pitch	3.175 mm - 1/8 in
Press speed, max	180 m/min - 591 ft/min
Print units, max	10
Flexo print cylinder - Repeat, min-max	165.1 - 605.6 mm - 6.5 - 24 in
Web width (print width: less 10 mm)	370 mm - 14.5 in 430 mm - 17 in 530 mm - 21 in
Unwind diameter, max	1000 mm - 39 in
Rewind diameter, max	1000 mm - 39 in
Total web path through the press	14410 mm - (8k 3 dies)
PrintTutor™ Eco	Yes
Pre-registration with LaserSet	Yes

Die-cutting

Die-cutting units	1 - 2 - 3
Repeat, min-max	279.4 - 609.6 mm - 11 - 24 in (370) 304.8 - 609.6 mm - 12 - 24 in (430) 355.6 - 609.6 mm - 14 - 24 in (530)
SnowBall™	Yes (available only with 3 die-cutting stations)
Matrix roll diameter, max	700 mm - 27.5 in
Easy Bambi™	Yes
Metronome™	Yes (available only with 3 die-cutting stations)
DigiGap™	Yes

Dryers

UV on chilled drum	Yes
UV LED	Yes
Hot air/IR dryers	Yes

Accessories

Rail	Yes
Delam Relam	1/2 colors on adhesive
Cold foil	Yes
Lamination	Yes
Coupon: QN3/5™	3 - 4 - 5 layers (only for 370 - 430 models)

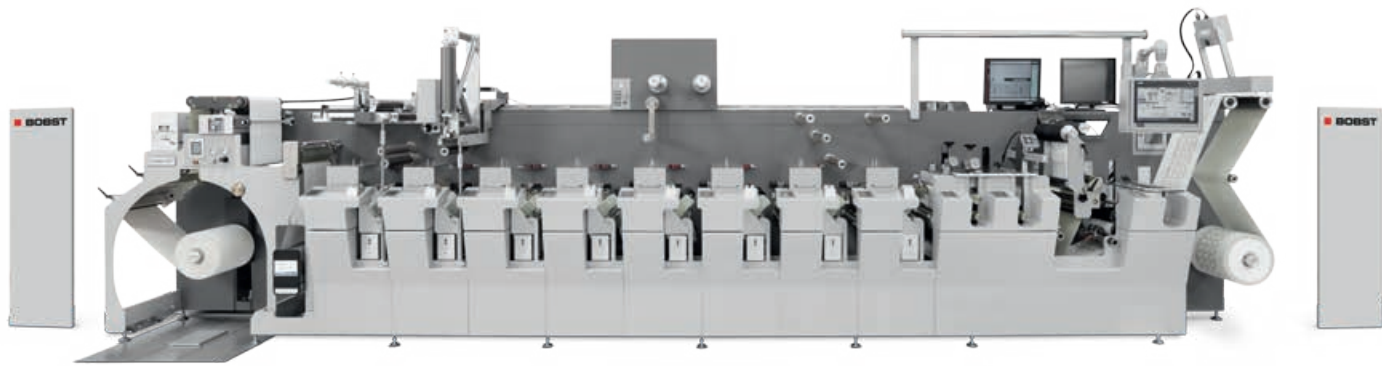
Printing

Hot foil stamping - Print repeat, min-max	304.8 - 609.6 mm - 12 - 24 in
Silk screen - available only for 370-430 models	
Stork Easy fit - Repeat, min-max	304.8 - 457.2 mm - 12 - 18 in



Watch the M1 video

M3 LINE



TOTAL FLEXIBILITY FOR LABELS AND PACKAGING

Digital Automation™ for controlled quality, high profits and vast flexibility

Flexible packaging, PS labels, special substrates, the most complex coupon labels, multi-process: the full servo technology and Digital Automation™ of the M3 Line makes flexibility easy and digitally assisted. Delivering the best in quality and reliability, the M3 provides total digital flexibility.

The M3 is a full servo press. Thanks to its fully automated assets and the wide range of substrates and applications it handles, the M3 is the perfect solution for packaging printers producing both short and long run production, and for printers producing labels, shrinkable sleeves and wrap-arounds. Fast set-up times and reduced waste make it a very reliable and highly productive machine.

The M3 and BOBST Digital Flexo technology together generate only around 15-20 meters of waste during print set-up, and provide a register accuracy of better than 50 microns. PS Labels, wrap-around labels, laminated lids and stand-up pouches can be printed on different substrates during each shift.

- Full servo technology for web tension flexibility between the print units means this press can process a wide range of substrates. It also allows multiple web printing of sophisticated coupon labels and inline lamination of multiple substrates
- User-friendly Ready™ drop-in technology for fast interchangeability of flexo, screen and hot foil
- Chilled drums and accurate temperature control for perfect web transportation
- DigiGap™ for digitally automated print and die-cutting pressure control, providing the shortest digital set-up time, minimal waste and consistent quality during production
- Metronome™ high-speed semi-rotary die-cutting to reduce the cost of flexible dies
- SnowBall™ and Bambi™: exclusive technologies for high speed waste matrix rewinding and difficult label shapes.
- Exceptionally stable production quality over many years of operation.

Substrates	Self-adhesive stock (paper, PET, BOPP, PVC), unsupported glossy paper from 60 to 100 gsm, unsupported film from 20 µ BOPP, 35 µ shrink sleeve, lamitube, light cardboard up to 280 gsm
Drive	Full servo
Gear pitch	3.175 mm - 1/8 in
Press speed, max	180 m/min - 591 ft/min
Print units, max	Unlimited
Flexo print cylinder - Repeat, min-max	165.1 - 609.6 mm - 6.5 - 24 in
Web width (print width: less 10 mm)	370 mm - 14.5 in 430 mm - 17 in 530 mm - 21 in
Unwind diameter, max	1000 mm - 39 in
Rewind diameter, max	1000 mm - 39 in
Total web path through the press	16330 mm (8k 3 Dies)

Die-cutting

Die-cutting units	3
Repeat, min-max	279.4 - 609.6 mm - 11 - 24 in (370) 304.8 - 609.6 mm - 12 - 24 in (430) 355.6 - 609.6 mm - 14 - 24 in (530)
SnowBall™	Yes
Matrix roll diameter max	700 mm - 27.5 in
Easy Bambi™	Yes
Metronome™	Yes

Automation

360° pre-register	Standard
Automatic register Control	Standard
Digital Flexo™	Yes
DigiGap™	Yes

Dryers

UV on chilled drum	Standard
UV LED	Yes
Hot air /IR dryers	Yes

Accessories

Rail	Yes
Delam Relam	Up to 2 colors on adhesive
Cold foil	Yes
Lamination	Yes
Coupon: Combo Kit™	2 layers
Coupon: QN3/5™ (only for 370 - 430 models)	3 - 4 - 5 layers

Printing

Hot foil stamping - Repeat, min-max	304.8 - 609.6 mm - 12 - 24 in
Silk screen - available only for 370 - 430 models	
Stork New RSI - Repeat, min-max	304.8 - 609.6 mm - 12 - 24 in
Ink jet	Digital variable data printing, 1 color, 1200 dpi / 80 m/min UV and water-based inks

M4 LINE



PRINT WITH EXCELLENT REGISTER QUALITY

The perfect press for reducing the effects of speed change during production

This most efficient of printing presses combines the advantages of Digital Flexo™ and Excellence™ technologies with the simplest and most durable semi-servo electronic drive. The M4 Line introduces new standards of accuracy in servo control and manufacturing, giving it the excellent register quality and stability needed to print extended seven-color gamut with perfect registration, and at all speeds. The M4, M5 and M6 presses share the same technology platform to deliver the full Digital Automation™ program.

Dedicated to the printing of both labels and flexible packaging, the M4 is available in two configurations:

- M4 Labels & film
- M4L PS Labels

- Short web path
- Over-dimensioned chilled drums for positive web transportation on the most critical substrates
- User-friendly Ready™ drop-in technology for fast interchangeability of flexo, screen and hot foil
- Digital Flexo™ and DigiGap™ for digitally automated print and die-cutting pressure control, providing the shortest digital set-up time, minimal waste and consistent quality during production
- Digital Flexo 4.0™ for closed loop pro-active print quality/PDF control at all speeds
- DigiMount™ for true Digital Work Flow from plate mounting to the press
- 5.5 inch minimum print repeat reduces the cost of flexo plates
- Metronome™ high-speed semi-rotary die-cutting reduces the cost of flexible dies
- ExcelCut™ and ExcelDie™ for the automated exchange of flexible dies and magnetic cylinders
- ExcelPrint™ for automated exchange of flexo print cylinder
- Digital Automation™ ready for REVO Standards.

Substrates - **M4 Labels & Film** Self-adhesive stock (paper, PET, BOPP, PVC), unsupported glossy paper from 60 to 100 gsm, unsupported film from 20 µ BOPP, 35 µ shrink sleeve, alu-foil from 20 µ, lamitube, light cardboard up to 300 gsm

Substrates - **M4L Labels** Self-adhesive stock (paper, PET, BOPP, PVC), unsupported paper 80 gsm min, light carton 300 gsm max

Drive	Servo
Gear pitch	3.175 mm - 1/8 in
Press speed, max	200 m/min - 660 ft/min
Print units, max	Unlimited
Flexo print cylinder - Repeat, min-max	139.7 - 609.6 mm - 5.5 - 24 in
Web width (print width: less 10 mm)	370 mm - 14.5 in 430 mm - 17 in 530 mm - 21 in
Unwind diameter, max	1000 mm - 39 in
Rewind diameter, max	1000 mm - 39 in
Total web path through the press - M4	18720 mm (8K 2 dies)
Total web path through the press - M4L	20040 mm (8K 2 dies)

Die-cutting

Die-cutting units	2 +
Repeat, min-max	279.4 - 609.6 mm - 11 - 24 in (370) 304.8 - 609.6 mm - 12 - 24 in (430) 355.6 - 609.6 mm - 14 - 24 in (530)
SnowBall™	Yes
Matrix roll diameter, max	700 mm - 27.5 in
Easy Bambi™	Yes
Metronome™	Yes (only with 3 die-cutting stations)

Automation

360° pre-register	Standard
Automatic register	Standard
Digital Flexo™	Yes
Excellence™	Yes
DigiGap™	Yes

Dryers

UV on 27 inches chilled drum - M4	Standard
UV on 27 inches chilled drum - M4L	No
UV LED	Yes
Hot air/IR dryers	Yes
Multiple drying options for UV, water-based inks	UV, IR, impinged air

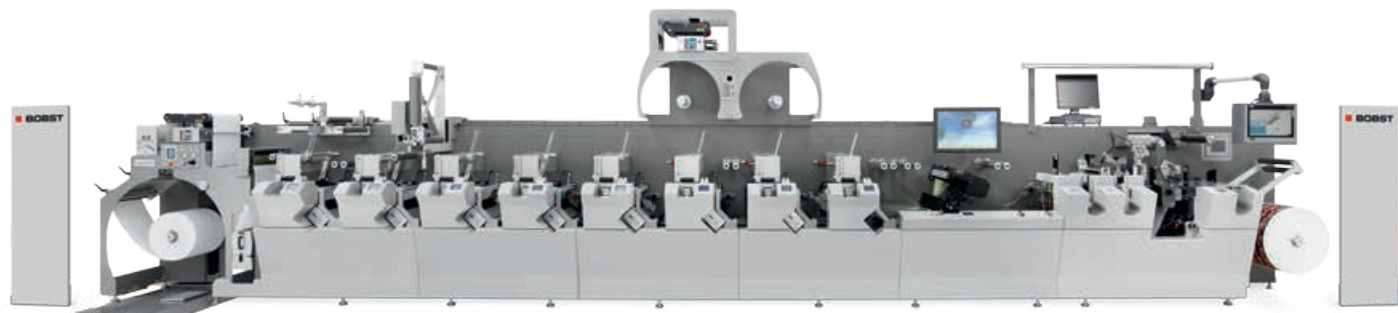
Accessories

Rail	Yes
Delam Relam	Up to 2 colors on adhesive
Cold foil	Yes
Lamination	Yes
Coupon: Combo Kit™	2 layers
Coupon: QN3/5™	3 - 4 - 5 layers (only for 370 - 430 models)

Printing

Hot foil stamping - Repeat, min-max	304.8 - 609.6 mm - 12 - 24 in
Gravure - Repeat, min-max	304.8 - 609.6 mm - 12 - 24 in
Silk screen - available only for 370 - 430 models	
Stork New RSI - Repeat, min-max	304.8 - 609.6 mm - 12 - 24 in
Ink jet	Digital variable data printing, 1 color, 1200 dpi / 80 m/min UV and water-based inks

M5 LINE



DIGITAL FLEXO REVOLUTION, FOR UNLIMITED SUBSTRATE TYPES

Digital micro-runs, long runs, profit, quality, all-in-one press

The Digital Automation™ concept transforms flexo printing and die-cutting into a digital process. A digital work flow, integrating printing and converting technologies, cuts job changeover to as little as a minute and generates only 20 meters of waste, yet delivers the highest quality and lowest operating costs. It is a true digital revolution for the labels and packaging industries.

- Short web path
- Over-dimensioned chilled drums for positive web transportation on the most critical substrates
- Full servo technology for web tension flexibility between the print units means this press can process a wide range of substrates. It also allows multiple web printing of sophisticated coupon labels and inline lamination of multiple substrates
- Digital Flexo™ and DigiGap™ for digitally automated print and die-cutting pressure control, providing the shortest digital set-up time, minimal waste and consistent quality during production
- Digital Flexo 4.0™ for closed loop pro-active print quality/ PDF control at all speeds

- ExcelCut™ and ExcelDie™ for the automated exchange of flexible dies and magnetic cylinders
- ExcelPrint™ for automated exchange of flexo print cylinders
- DigiMount™ for true Digital Work Flow from plate mounting to the press
- Digital Automation ready for REVO Standards
- Infinite Flower™: controls print density changes at speed variations, monitoring ink temperature
- User-friendly Ready™ drop-in technology for fast interchangeability of flexo, screen and hot foil
- 5.5 inch minimum print repeat reduces the cost of flexo plates
- Metronome™ high-speed semi-rotary die-cutting reduces the cost of flexible dies.

Benefits of DIGITAL AUTOMATION™ For every flexo + die-cut job change:

20 M OF WASTE
1 MIN OF TIME
HALF OPERATING
COSTS

Substrates	Self-adhesive stock (paper, PET, BOPP, PVC), glossy paper 60 to 100 gsm, unsupported film from 12 µ (PVC, BOPP, PET, PA), alu-foil from 20 µ, lamitubes, light cardboard 300 gsm
Drive	Full servo
Gear pitch	3.175 mm - 1/8 in
Press speed, max	200 m/min - 660 ft/min
Print units, max	Unlimited
Flexo print cylinder - Repeat, min-max	139.7 - 609.6 mm - 5.5 - 24 in
Flexo sleeve print cylinder - Repeat, min-max	304.8 - 609.6 mm - 12 - 24 in
Web width (print width: less 10 mm)	370 mm - 14.5 in 430 mm - 17 in 530 mm - 21 in
Unwind diameter max	1000 mm - 39 in
Rewind diameter max	1000 mm - 39 in
Total web path through the press	22000 mm (8k 3 Dies)

Die-cutting

Die-cutting units	3 +
Repeat, min-max	279.4 - 609.6 mm - 11 - 24 in (370) 304.8 - 609.6 mm - 12 - 24 in (430) 355.6 - 609.6 mm - 14 - 24 in (530)
SnowBall™	Yes
Matrix roll diameter max	700 mm - 27.5 in
Easy Bambj™	Yes
Metronome™	Yes

Automation

360° pre-register	Standard
Automatic register	Standard
Digital Flexo™	Yes
Excellence™	Yes
DigiGap™	Yes

Dryers

UV on 27 in chilled drum	Standard
UV LED	Yes
Hot air/IR dryers	Yes
Multiple drying options for UV, water-based inks	UV, IR, impinging air

Accessories

Rail	Yes
Delam Relam	Up to 3 colors on adhesive
Cold foil	Yes
Lamination	Yes
Coupon: Combo Kit™	2 layers
Coupon: QN3/5™	3 - 4 - 5 layers (only for 370 - 430 models)

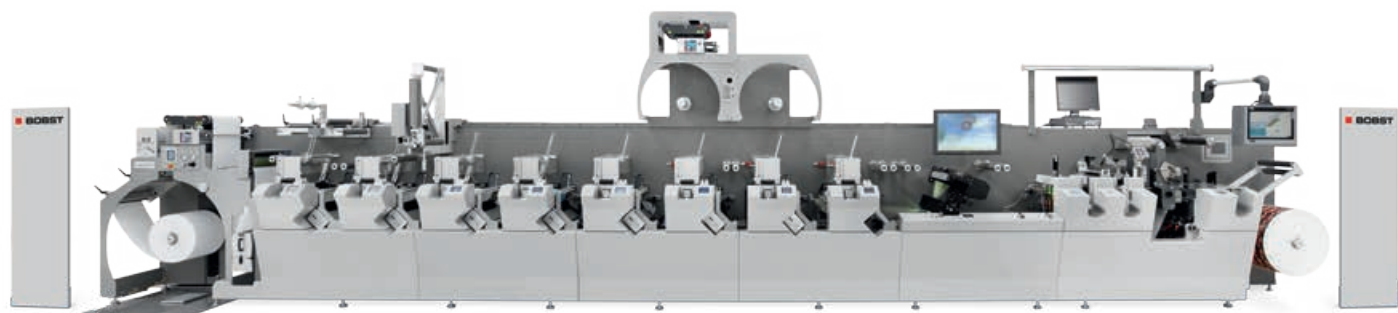
Printing

Hot foil stamping - Repeat, min-max	304.8 - 609.6 mm - 12 - 24 in
Gravure - Repeat, min-max	304.8 - 609.6 mm - 12 - 24 in
Silk screen - available only for 370 - 430 models	
Stork New RSI - Repeat, min-max	304.8 - 609.6 mm - 12 - 24 in
Ink jet	Digital variable data printing, 1 color, 1200 dpi / 80 m/min UV and water-based inks



Watch the M5 video

M5X LINE



A fixed optimized configuration of the M5 Line with the added benefits of short delivery time and competitive cost of investment

The M5X Line encompasses the technologies and performance of the M5 Line in terms of output quality and press efficiency, albeit with a limited number of options. Available in 370 and 430 mm web widths and 8, 10 and 12 colors, the M5X full servo press is suitable for processing all types of substrates used for the production of reel-to-reel labels and packaging.

- Short web path
- Over-dimensioned chilled drums for positive web transportation on the most critical substrates
- Full servo technology for web tension flexibility between the print units means this press can process a wide range of substrates. It also allows printing of coupon labels up to 3 layers
- DigiGap™ for digitally automated print and die-cutting pressure control, providing the shortest digital set-up time, minimal waste and consistent quality during production

- Digital Automation ready for REVO Standards
- Infinite Flower™: controls print density changes at speed variations, monitoring ink temperature
- User-friendly Ready™ drop-in technology for fast interchangeability of flexo, screen and hot foil
- 5.5 inch minimum print repeat reduces the cost of flexo plates
- SnowBall™ Lite and Easy Bambi™ technologies for high speed waste matrix rewinding and difficult label shapes.

Benefits of DIGITAL AUTOMATION™
For every flexo + die-cut job change:

20 M OF WASTE
1 MIN OF TIME
HALF OPERATING
COSTS

Substrates	Self-adhesive stock (paper, PET, BOPP, PVC), glossy paper 60 to 100 gsm, unsupported film from 12 µ (PVC, BOPP, PET, PA), alu-foil from 20 µ, lamitubes, light cardboard 300 gsm
Drive	Full servo
Gear pitch	3.175 mm - 1/8 in
Press speed, max	200 m/min - 660 ft/min
Print units	8, 10 or 12
Flexo print cylinder - Repeat, min-max	139.7 - 609.6 mm - 5.5 - 24 in
Web width (print width: less 10 mm)	370 mm - 14.5 in 430 mm - 17 in
Unwind diameter max	1000 mm - 39 in
Rewind diameter max	1000 mm - 39 in
Total web path through the press	22000 mm (8k 3 Dies)

Die-cutting

Die-cutting units	2
Repeat, min-max	279.4 - 609.6 mm - 11 - 24 in (370) 304.8 - 609.6 mm - 12 - 24 in (430)
SnowBall™ Lite	Yes
Matrix roll diameter max	700 mm - 27.5 in
Easy Bambi™	Yes

Automation

360° pre-register	Standard
Automatic register	Standard
Digital Flexo™	Yes
DigiGap™	Yes

Dryers

UV on 27 in chilled drum	Standard
UV LED	Yes
Hot air/IR dryers	Yes
Multiple drying options for UV, water-based inks	UV, IR, impinging air,

Accessories

Rail	Yes
Delam Relam	Up to 3 colors on adhesive
Cold foil	Yes
Lamination	Yes
Coupon: Combo Kit™	2 layers
Coupon: QN3/5™	3 layers

Printing

Hot foil stamping - Repeat, min-max	304.8 - 609.6 mm - 12 - 24 in
Silk screen - available only for 370 - 430 models	
Stork New RSI - Repeat, min-max	304.8 - 609.6 mm - 12 - 24 in

M6 LINE



THE UV DIGITAL FLEXO PRESS FOR SAFE AND EASY FOOD PACKAGING

The modularity of the M6 Line makes it suitable to be configured for printing and converting substrates for flexible packaging, folding carton or label production. A combination of inline UV flexo, REVO Digital Flexo and the new V-Flower print unit, allows for job changeovers to be performed in one minute, on-the-fly, without stopping the press, and with up to 95% press up-time. This makes the M6 the profitable press for ultra-short to medium runs.

Digital flexibility with total food safety

The M6 Line is poised to change the future of flexible packaging. Production of a new flexible packaging job can start in just a minute, with the highest print quality and meeting food safety standards. BOBST UV Track™ is the first automated system in the industry which tests and tracks ink curing safety on the substrate, during printing not after. Ink safety of each printed meter is certified in real time and the printed roll's certificate is immediately available.

High productivity at low running cost for folding carton production

Carton converters can also take advantage of all the benefits of the M6 features and Digital Automation™. The inline sheeter with high-pile stacker allows users to benefit from Digital Flexo advantages and then use existing die-cutting and converting equipment without any additional investment costs. The productivity and cost efficiency of the M6 on folding cartons is higher than any printing press available today.

M6 and UV inks: Main benefits

The short web path on over-dimensioned chilled drums benefits web transportation and accurate temperature control on the most demanding substrates. 15 µ BOPP, alu-foil and cartons are printed with excellent register stability.

Print quality is exceptional, up to 90 lines per cm/228 lines per inch, and consistent irrespective of run length. PMS colors are easily repeatable. As ink does not dry on plate or evaporate in the pan there is no need to wash the print units at shift changes. There is no risk of fire or explosions on press due to hazardous consumables. No solvent recovery systems are required to best advantage of a clean, VOC free workplace. A user-friendly press not requiring highly skilled operators, the M6 is also fast to install and easy to relocate.

Combined benefits of inline REVO Digital Flexo and BOBST Digital Automation™

- Full servo technology for web tension flexibility enabling processing of the widest range of substrates
- In-line processes: non-stop solventless lamination, cold foil, multi-process flexo and gravure
- Digital Flexo™ for automated print pressure control
- Digital Flexo 4.0™ for closed loop pro-active print quality/PDF control at all speeds
- New V-Flower™ print unit for changing flexo print sleeves on-the-fly
- Non-stop universal compact turret unwinder/rewinder for all substrates, including alu-foil
- Smart DigiMount™, plate positioning, mounting and adjustment with minimal operator intervention - a true digital workflow
- Infinite Flower™ controls color density changes at speed variations
- Non-stop productivity, with up to 95% press up time. Total flexibility, "digital" job scheduling with up to four printed jobs/hr, and much lower running costs than standard digital processes (no clicks, no high ink costs).

Substrates carton	Paper and lightboard from 60 to 350 gsm
Substrates flexible packaging	Unsupported glossy paper 60 to 100 g, unsupported film from 12 µ PET, 15 µ BOPP, 35 µ shrink sleeve, alu-foil from 20 µ, lamitube
Drive	Full servo
Press speed, max	250 m/min - 820 ft/min
Print units, max	Unlimited
Flexo sleeve print cylinder - Repeat, min-max	254 - 609.6 mm - 10 - 24 in
Web width (<i>print width: less 10 mm</i>)	430 mm - 17 in 530 mm - 21 in 670 mm - 26 in (<i>sleeve version only</i>)
Unwind diameter max	1270 mm - 39 in (<i>automatic rewinder available as optional</i>)
Rewind diameter max	1270 mm - 39 in (<i>automatic rewinder available as optional</i>)
Total web path through the press	22000 mm (8k)

Automation

360° pre-register	Standard
Automatic register	Standard
Digital Flexo™	Yes
Excellence™	Yes
DigiGap™	Yes

Dryers

UV on 27 in chilled drum	Standard
UV LED	Yes
Hot air/IR dryers	Yes
Multiple drying options for UV, water-based inks	UV, IR, impinged air

Accessories

Rail	Yes
Web turn bar	Yes
Cold foil	Yes
Lamination	Yes
QN3/5™	3-4-5 layers (<i>only for 430 model</i>)

Printing

Gravure - Repeat, min-max	254 - 609.6 mm - 10 - 24 in
Ink jet	Digital variable data printing, 1 color, 1200 dpi / 80 m/min UV and water-based inks



Watch the M6 video

M7 LINE

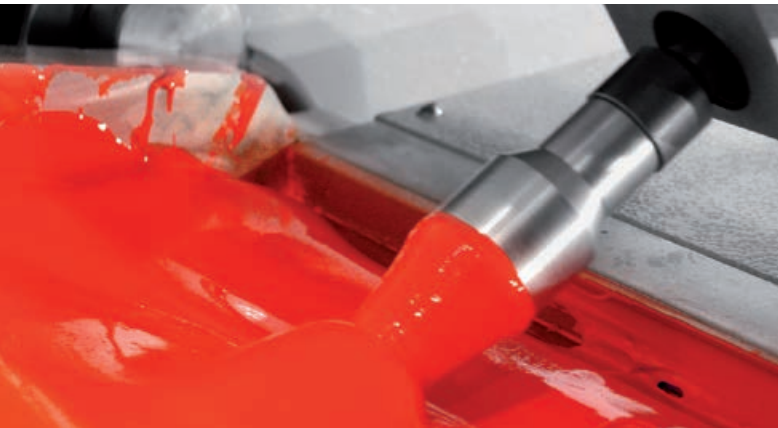


EXCLUSIVE QUALITY OFFSET

Heavy-duty multi-process Cubes™ can be interchanged across multiple M7 presses

The M7 is a revolutionary, fully modular, concept. The heavy-duty M7 Cubes™ - offset, flexo, etc. - move freely inside the open M7 Universal Platform™, accepting all printing and converting process. M7 Cubes™ process heads plug in and can create new configurations for dream multi-process labels every day. It provides flexible quality today, and in the future, with robust Cubes™ without frames.

- Chilled drums and accurate temperature control for perfect web transportation
- Offset Xpannd™ Cube™, benefit from the experience of over 1,000 offset print units installed
- Offset Mini-Cassette™ technology, for fast, economic, integrated and safe format changes
- Flexo Flower™ Cube™, benefit from the experience of over 4,000 flexo print units installed
- M7 Cube™, fully independent, self-standing, servo-driven module, for free press configuration which can be interchanged and plugged into any position, on any M7 press. Currently available: offset, flexo, screen, gravure, die-cutting, hot-foil, ink jet
- Multi-process, experience of multiple installations in the security, wine, and cosmetics label industries
- Digital Automation™, digital multi-process register, print and die-cutting set-up
- M7 Universal Platform™, featuring a robust base for long service life and making Cube™ process heads interchangeable in minutes
- Interchanging M7 Cubes™ is fast, linked to the press, and safe for the operator.



Substrates	PS labels, paper, light carton
Drive	Full servo
Gear pitch	3.175 mm - 1/8 in
Press speed, max	180 m/min - 591 ft/min
Print units, max	Unlimited
Flexo print cylinder - Repeat, min-max	139.7 - 609.6 mm - 5.5 - 24 in
Web width	370 mm - 14.5 in
(print width: less 10 mm)	430 mm - 17 in
Unwind diameter max	1000 mm - 39 in
Rewind diameter max	1000 mm - 39 in

Die-cutting

Die-cutting units	3 - 5
Repeat, min-max	304.8 - 609.6 mm - 12 - 24 in (430)
SnowBall™	Yes
Matrix roll diameter max	700 mm - 27.5 in
Easy Bambi™	Yes
Metronome™	Yes

Automation

360° pre-register	Standard
Automatic register	Standard
Digital Flexo™	Yes
DigiGap™	Yes

Dryers

UV on chilled drum	Standard
Hot air/IR dryers	Yes

Accessories

Rail	Yes
Delam Relam	Up to 5 colors on adhesive
Cold foil	Yes
Coupon: Combo Kit™	2 layers
Coupon: QN3/5™	3 - 4 - 5 layers

Printing

Universal Platform	Yes
Offset Cassette - Repeat, min-max	457.2 - 635 mm - 18 - 25 in
Gravure - Repeat, min-max	304.8 - 609.6 mm - 12 - 24 in
Silk screen	Yes
Stork New RSI - Repeat, min-max	304.8 - 609.6 mm - 12 - 24 in
Ink jet	Digital variable data printing, 1 color, 1200 dpi / 80 m/min UV and water-based inks

M8 LINE



THE BEST OPTION FOR PACKAGING PRODUCTION WITH DIGITAL FLEXO QUALITY AND EFFICIENCY

The new M8 Line adds to the range of BOBST inline printing & converting lines a new high speed, highly automated and flexible production line. The M8 offers the advantages of the new X-Flower™ automated print sleeve exchange and of the REVO (Extended Color Gamut) and unique Digital Flexo technology on a machine featuring web widths up to 1070 mm and speeds up to 400 m/min, with option of ink types, drying systems, and reel-to-reel or reel-to-sheet delivery.

Total flexibility in processes, inks and substrates

The M8 Line is uniquely suited to companies wanting to diversify and/or move into the flexible packaging market in a way that opens up a compelling opportunity and growth potential in a wide variety of market segments. The M8 enables multi-process printing in one pass and owing to its flexibility, can also handle printing using UV, water-based and solvent-based inks so as to provide the best fit with diverse application requirements and/or converters preferred process technology. To printers moving into the growing market of UV ink printing for food flexible packaging BOBST offers the unique UV Track™, the first automated system in the industry that tests and tracks ink curing safety on the substrate, during printing, not after. Packaging health safety of each printed meter is certified in real time and the printed roll's certificate is immediately available.

High print quality and general folding carton production up to 600 gsm

Carton converters can also take advantage of all the benefits of the M8 features, Digital Automation™ and flexibility in terms of application of multiple processes and inline converting in one pass, as well as multiple ink types.

The inline sheeter with high-pile stacker allows users to benefit from Digital Flexo advantages using existing die-cutting and converting equipment without any additional investment costs. The productivity and cost efficiency of the M8 on folding cartons is higher than any printing press available today.

Combined benefits of inline REVO Digital Flexo and BOBST Digital Automation™

- Full servo technology for web tension flexibility enabling processing of the widest range of substrates
- In-line processes: non-stop solventless lamination, cold foil, multi-process flexo and gravure
- Digital Flexo™ for automated print pressure control
- Digital Flexo 4.0™ for closed loop pro-active print quality at all speeds
- New X-Flower™ print unit for changing flexo print sleeves on the fly, allowing the unique feature of 1 minute changeover time in 7 colors REVO Extended Color Gamut mode.

Unique features

- New 3Lock™ backlash-free, patent pending, three bearing locking system to enhance exceptional print quality by reducing vibrations in the printing shafts
- Smart DigiMount™ plate positioning, mounting and adjustment with minimal operator intervention - a true digital workflow
- Infinite Flower™ controls color density changes at speed variations
- Non-stop productivity, with up to 95% press up time. Total flexibility, digital job scheduling with up to four printed jobs/hr and much lower running costs than standard digital processes (no clicks, no high ink costs).

Substrates carton	Paper and board from 60 to 600 gsm
Substrates flexible packaging	Unsupported glossy paper 60 to 100 g, unsupported film from 12 µ PET, 15 µ BOPP, 35 µ shrink sleeve, alu-foil from 20 µ, lamitube
Drive	Full servo
Press speed, max mechanical speed	Up to 400 m/min 1312 ft/min
Print units, max	Unlimited
Flexo sleeve print cylinder - Repeat, min-max	Film 304.8 – 1066.8 mm - 12 – 42 in (870) Carton 406 – 1066.8 mm – 16 – 42 in (870) Film 355.6 – 1066.8 mm – 14 – 42 in (1070) Carton 457.2 – 1066 mm – 18 – 42 in (1070)
Web width (<i>print width: less 10 mm</i>)	870 mm - 34.2 in 1070 mm - 42.1 in (<i>sleeve version only</i>)
Unwind diameter max	1270 mm - 39 in (<i>automatic rewinder available as optional</i>)
Rewind diameter max	1270 mm - 39 in (<i>automatic rewinder available as optional</i>)

Automation

360° pre-register	Standard
Automatic register	Standard
Digital Flexo™	Yes
Excellence™	Yes

Dryers

UV on 27 in chilled drum	Standard
UV LED	Yes
Hot air/IR dryers	Yes
Multiple drying options for UV, water-based inks	UV, IR, impinged air

Accessories

Web turn bar	Yes
Cold foil	Yes
Lamination	Solventless, solvent-based, UV

Printing

Gravure - Repeat, min-max	406.4 - 1066.8 mm - 16 - 42 in (304.8 - 1066.8 mm - 12 - 42 in as variant)
Ink jet	Digital variable data printing, 1 color, 1200 dpi / 80 m/min UV and water-based inks

M9 LINE



EXCLUSIVE QUALITY FOR MULTI-PROCESS, DREAM CARTONS

Minimum set-up, best multi-process carton quality

The M9 is built for cartons and packaging. Its new heavy duty, high quality, multi-process heads are designed for high print quality and for durability on thick carton substrates. Multi-process technologies are operated by Digital Automation™ technology. The most complex carton box formats - multi-color/multi-process - are in production in minutes. M9 delivers digitally automated, highly flexible and exclusive carton quality at the lowest production costs and with the highest speeds.



Heavy-duty

- M9 Gravure head, for water- and solvent-based inks, quick change of print cylinder and ink
- M9 Offset head, seven servo motors for fast, automated register set-up and ink management
- M9 Offset cassettes, the highest most consistent quality on the heaviest carton substrates
- M9 Flexo Flower head, available with metal sleeves and Digital Flexo™ automation
- M9 Hot foil head, digitally automated, the highest production speeds, the fastest set-up
- Stork RSI™ Screen head, for surprising graphic effects on cartons
- M9 Universal Platform™, for fast exchange of flexo, screen and hot foil process heads
- M9 Converting section, with modular carton cassettes for embossing, creasing, die-cutting
- M9 Sheeter, servo-driven for infinite repeat cutting length and accurate register (+/- 0.1 mm)
- High Pile Stacker for non-stop sheet delivery at high speed (150 m/min).

Digital Automation™, processes working together for fast set-up and multi-process quality consistency.

Substrates	PS labels, paper, light carton, heavy carton up to 600 gsm
Drive	Full servo
Gear pitch	3175 mm - 1/8 in
Press speed, max	180 m/min - 591 ft/min
Print units, max	Unlimited
Flexo print cylinder - Repeat, min-max	165.1 - 609.6 mm - 6.5 - 24 in
Flexo sleeve print cylinder - Repeat, min-max	304.8 - 609.6 mm - 12 - 24 in
Web width (<i>print width: less 10 mm</i>)	530 mm - 21 in
Unwind diameter max	1250 mm - 49 in
Rewind diameter max	1250 mm - 49 in

Die-cutting

Die-cutting units	3 - 5 - 8 (for heavy duty carton)
Repeat, min-max	12 - 24 in
SnowBall™	Yes
Matrix roll diameter max	700 mm - 27.5 in
Easy Bambi™	Yes

Automation

360° pre-register	Standard
Automatic register	Standard
Digital Flexo™	Yes
DigiGap™	Yes

Dryers

UV on chilled drum	Standard
Hot air/IR dryers	Yes

Accessories

Rail	Yes
Delam Relam	Up to 5 colors on adhesive
Cold foil	Yes

Printing

Universal Platform	Yes
Offset cassette - Repeat, min-max	457.2 - 635 mm - 18 - 25 in
Gravure - Repeat, min-max	304.8 - 609.6 mm - 12 - 24 in (<i>print cylinder</i>)
Ink jet	Digital variable data printing, 1 color, 1200 dpi / 80 m/min UV and water-based inks



DIGITAL AUTOMATION™

A FORERUNNER OF DIGITAL TECHNOLOGY

Benefits of DIGITAL AUTOMATION™
For every flexo + die-cut job change:

20 M OF WASTE
1 MIN OF TIME
HALF OPERATING
COSTS

Product	Benefit	Press model
Digital Flexo 3.1	Dynamic control of print pressures and register	M3-M4-M5-M5X-M6-M7-M8-M9
Digital Flexo 4.0	Closed loop control	M3-M4-M5-M6-M7-M8-M9
DigiGap 3.0™	Dynamic control of die-cutting pressures, with substrate thickness reading	M1-M3-M4-M5-M5X-M6-M7-M9
Excellence™		
– ExcelPrint™	Automatic exchange of print cylinders, without stopping the press	M4-M5-M6-M8
– ExcelDie™	Automatic die-cutting exchange between two die-cutting sections	M1-M3-M4-M5-M6-M7-M9
– ExcelCut™	Automatic flexible die exchange (with Metronome™ and DigiGap™)	M1-M3-M4-M5-M6-M7-M9

The digital revolution started at Bobst Firenze, then called GIDUE, back in 2000, when the company launched E-Combat™, the very first full servo flexo press in the narrow web market. Automatic print pressure adjustment - Intelligent Combat™ - and the first register system fully operated by a digital camera - Nemo™ - were introduced in 2005. This was followed by the first offset/flexo combination press fully operated by digital cameras on every print unit - PrintTutor™ - in 2007 and by the introduction of the Digital Flexo™ concept in 2011.

This technology has been continuously upgraded to reach a new level of fully integrated automation, and has been extended to new concepts in the automation of printing and converting, leading to the Digital Automation project.

The Digital Automation Project is a revolution in engineering and in the way a label and packaging press operates. It considers all the possible operations and makes them fully digitally checked, adjusted and controlled.

It features:

- The minimum possible waste - 20 meters - in the production of labels and packaging
- The most consistent printing and converting quality – digitally controlled and adjusted at any speed
- The lowest cost per job using analog plates - half of the print and flexible die plate cost for most jobs
- User-friendly operation not requiring highly skilled operators because Digital Automation™ performs most of set-up and running operations
- Consistency in quality and performance between operators as all operations are digital and repeatable
- Comparable costs with digital printing over 300/400 linear meters of printing and die-cutting
- Comparable flexibility with digital printing: one minute for a full job change, printing + die-cutting.

Digital Flexo 3.1

The first step to Digital Automation™. Eight servo motors on each print unit, and the high definition digital camera PrintTutor™, make print pressure and register adjustments fully automated.

This technology has been continuously upgraded to a different level of fully integrated automation, and extended to new concepts in the automation of printing and converting, leading to the Digital Automation project.

- Fully automated lateral and length register control during the job run. No manual register intervention
- Automated digital reading of the lateral printed PT marks, with automated print pressure adjustment
- Repeatable minimum level of waste during set-up, being digitally operated and not dependent on operator skills and other variables
- Reduced waste during set-up, particularly with multi-color jobs
- Consistent print quality during production with PrintTutor™ cameras constantly reading PT marks.

The digital eye of the PrintTutor™ camera recognizes incorrect print pressure. The digital fingers of the servo motors on the print unit correct print pressures.

Digital Flexo 4.0

By reading 100% of the full printed output, pressure and register (and in conjunction with AVT™), quality is constantly adjusted by digital fingers. This system closes the digital loop to the press.

- Closed loop operations: fully automated quality control and press adjustment of pressure and register
- Reduced waste during production due to plate wear and tear, change of substrate thickness, etc.
- High production speeds, the operator being confident that quality is being controlled and adjusted.

DigiGap™ 3.0

Special version of DigiGap™ with the opportunity to measure the thickness of the substrate prior to die-cutting.

- Pre-adjustment of die-cutting pressure without manual setting by the operator
- Continuous feedback on substrate thickness during production
- Automatic pressure setting with all self-adhesive substrates
- Consistent die-cutting quality during production.

DIGITAL AUTOMATION™

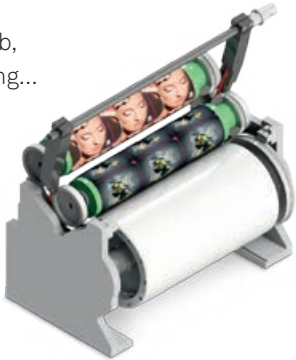


ExcelPrint™ Application on M4 and M5 lines with Flower™ unit for print cylinders exchange

1. Print job runs...



2. On press preparation of the new job, while the previous job is still running...



3. Printing the new job starts...



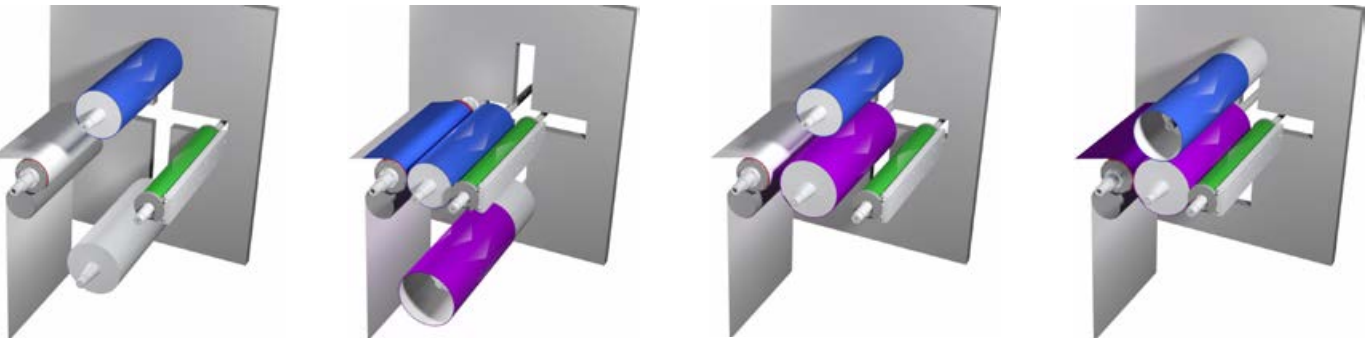
4. Automatic exchange of all printing tools, during printing, without operator intervention.



ExcelPrint™ Application on M6 line with V-Flower™ unit for print sleeve exchange



ExcelPrint™ Application on M8 Line with X-Flower™ unit for print sleeve exchange



Benefits of EXCELLENCE™

For every flexo + die-cut job change:

PREPARE

a new job on the press, while the press is running.

CLICK

a button to start Digital Automation™ and exchange jobs.

RUN

with digital quality, and prepare the next job while the press is running.

Excellence™

The Excellence™ project takes the flexographic process to its ultimate efficiency and productivity with the fastest changeover times and the minimum waste ever seen in the label and packaging industries.

- Prepare new printing and die-cutting jobs on press while the machine is printing the previous job
- Automatic exchange of all printing tools - cylinders and sleeves, dies - without operator intervention
- On-the-fly exchange, without stopping the press, to avoid start and stop waste
- The lowest waste ever: less than a machine length - 10 meters or less
- The lowest press downtime ever: the press is in full production, set-up time is just one minute.

Product	Benefit	Press model
ExcelPrint™	Automatic "swing" exchange of all print cylinders. Exchange limited to 6 - 12 inch repeats. Includes CleanUp™ manual plate cleaner on each print station	M4-M5-M6-M8
ExcelDie™	Automatic switch exchange of two die-cutting units using DigiGap™ technology engage/disengage/pre-pressure/pre-register, for immediate run of the new job	M1-M3-M4-M5-M6-M7-M9
ExcelCut™	Automated "swap" exchange of two flexible dies using Metronome™ technology	M1-M3-M4-M5-M6-M7-M9

DIGITAL AUTOMATION™



DigiMount™
Automated plate mounter with digitally assisted operation.
Digimount™ version, suitable for print cylinders.
Smart DigiMount™ version, suitable for print sleeves.
Closing the loop of Digital Automation™: top print quality and productivity with accurate and consistent plate mounting, digitally controlled, independent from operator's skills.
Flexo plate mounting operations are fully automated, with digital quality and consistency.

- Automated plate positioning with unique gripping solution, digitally assisted by two servo motors
- Automated plate mounting with rubber rollers for accurate and consistent mounting pressure on plates
- Automated quality control, with HD cameras and servo assisted plate mounting adjustment
- Plate mounting accuracy (top and bottom reference marks) up to 0.02 +/- mm. Repeatable and consistent on each print cylinder
- New algorithms and HD cameras and HW for extended plate recognition
- The Smart DigiMount™ version also displays fully chambered workspace for ambient light variation isolation and consistent plate recognition.

		DigiMount™
Print cylinder repeat	139.7 - 609.6 mm 5.5 - 24 in	
		Smart DigiMount™
Print sleeve repeat	254 - 812.8 mm (optional 1066.8 mm) 10 - 32 in (optional 42 in)	

RECOMMENDATION TABLE

Digital Automation™ uses a wide range of new digital technologies to make printing and converting operations:

- Repeatable
- Quality-driven
- Highly efficient
- Consistent.

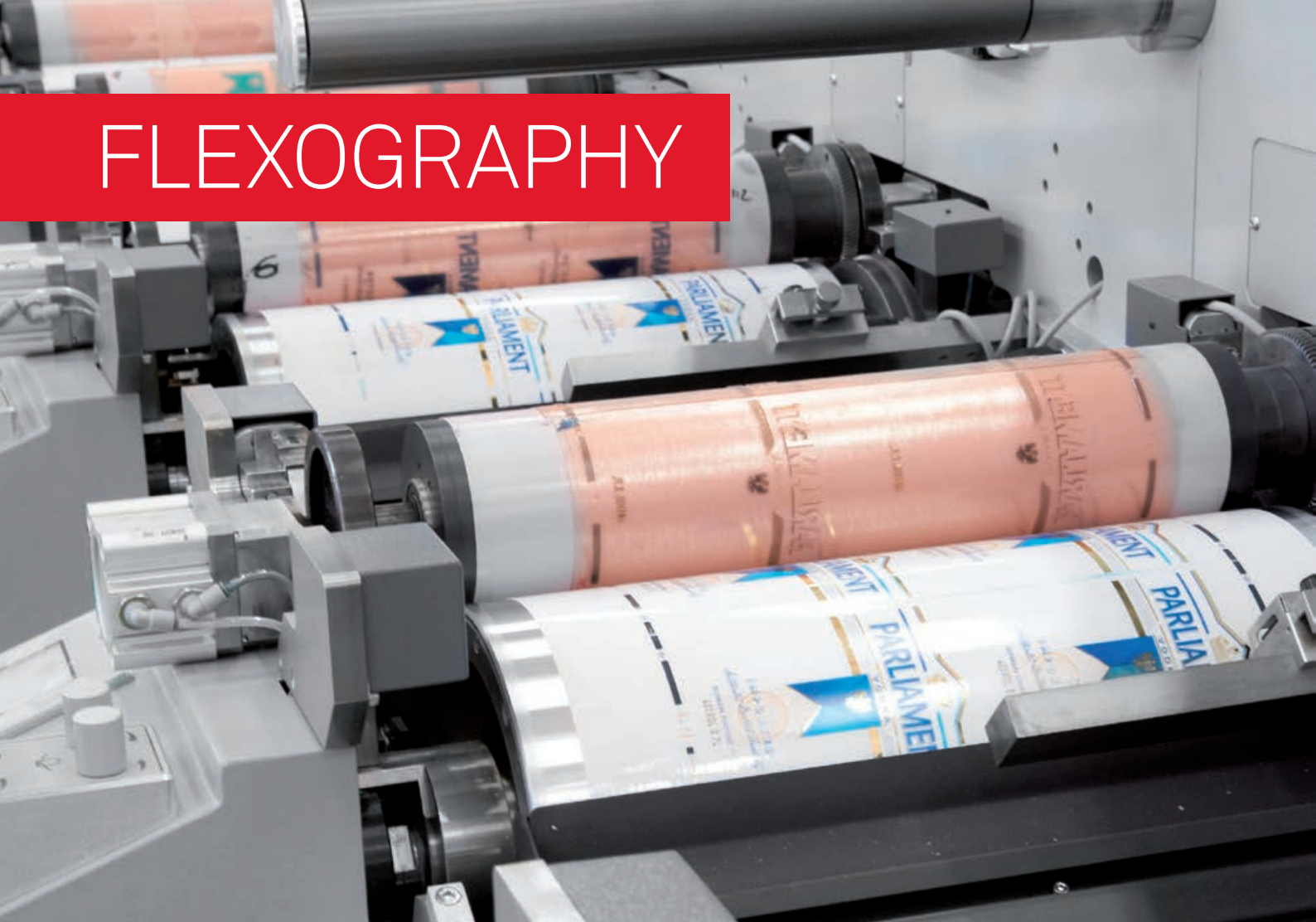
Various levels of Digital Automation™ are available for different production needs. The recommendation table indicates BOBST suggested press configurations, based on different run lengths of label and packaging jobs.

Product	Benefit
ARC Automatic Register Control	Print-to-cylinder register control <ul style="list-style-type: none">- Automatic pre-register and register- Manual set-up of register.
Digital Flexo™	Print-to-print register control <ul style="list-style-type: none">- Digital pre-register and register- Digital register set-up. Print-to-camera print pressure control <ul style="list-style-type: none">- Digital print pressure control (3.0)- Closed loop quality control (4.0).
DigiGap™	"Digital" die-cutting pressure control <ul style="list-style-type: none">- Automatic pre-register- Automatic set-up of die-cutting pressure.
Excellence™	Prepare the next job directly on the press, changing all the tools in one go ExcelPrint™ exchange all print cylinders with one "click". ExcelDie™ exchange the die-cutting stations. ExcelCut™ exchange the flexible dies.
Metronome™	High speed semi-rotary die-cutting <ul style="list-style-type: none">- Only one magnetic cylinder for most die-cutting repeats- In most cases, halves costs for flexible dies.

Labels and packaging	Average run length					
	Linear meters	300/1000 +	500/2000 +	1000/3000 +	1500/4000 +	2000/5000 +
Recommended Digital Automation™ Technology	Recommended press model	M4 - M5 - M6 Excellence	M4 - M5 - M6 Excellence	M4 - M5 - M6 Excellence	M4 - M5 - M6 Excellence	M4 - M5 - M6 Excellence
	MetroNome™	•	•			
	ExcelCut™	•	•			
	ExcelDie™	•	•	(•)		
	ExcelPrint™	•	(•)	(•)		
	DF 4.0	•	•	(•)	(•)	(•)
	DF 3.1	•	•	•	(•)	(•)
	DigiGap™			•	•	(•)
	ARC				•	•

Legend: • = highly recommended (•)= recommended

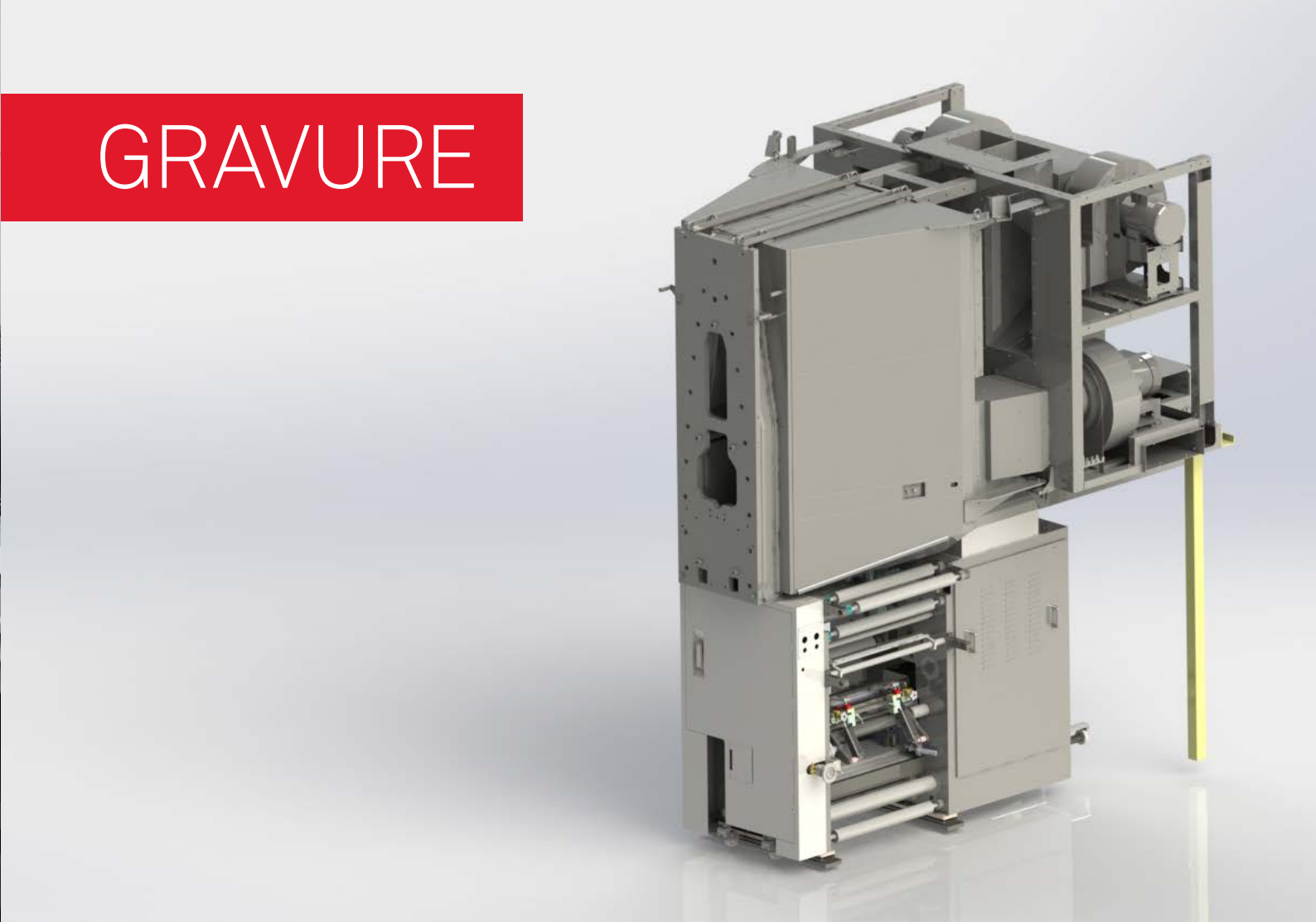
Note:
The recommendations table is based on BOBST's Profitability Program, a software program which allows cross linked data comparison of press performance and profitability to suggest accurate press configurations for converters' needs. All assumptions refer to BOBST press models only.



FLEXOGRAPHY

Flower™, leading the way in quality for the labels and packaging industries since 1999.
The easiest, most accurate, most reliable flexo print unit ever.

Patented print cylinder side-bearers	Drop-in system for immediate cylinder changeover Vibration-free, offset-like top printing quality
Patented Pitagora™ pressure adjusting system	<ul style="list-style-type: none"> – No guides, no maintenance – Consistent quality at any speed for many years – Simple and easy adjustments for unskilled operators – Easy pressure set-up at substrate change
Patented opening of Flower™ ink unit	<ul style="list-style-type: none"> – Effortless change of all print elements – Fast and easy ink changeover – No adjustment of meter roller and doctor blade – No difference in print quality by different operators
Patented Flower™ sleeve version	Ideal accuracy, consistent stability, high quality and reliability
Chambered doctor blade (optional)	Flexibility for varnishes, high densities, reverse printing



GRAVURE

RotoFlower™ is a heavy-duty gravure unit, developed in cooperation with the BOBST Gravure Team, to reach the highest print quality and for the specific needs of mid-web converters. It allows fast and easy removal of each element of the printing station and is the most suitable gravure print unit to produce short and long run production, for inline upstream or downstream integration on BOBST flexographic mid-web presses.

RotoFlower™ cassette	Each element of the print unit is lightweight and designed for easy access and fast removal
Slide-in/Slide-out system	A permanent slide-in/slide-out structure allows easy and fast extraction of the print unit, for fast removal and insertion of all the elements without adjustments to the ground or to the main frames
Wide choice of dryers	RotoFlower™ takes advantage of BOBST's leadership in gravure technology, with several drying possibilities adaptable to the needs of speed, coverage, substrate etc. Drying tunnels up to 10m long are available, for high speed cold seal applications, special coatings and lacquers
Wide choice of inks	Metallic effects, whites, cold seals, special coatings and lacquers can all be printed using most inks available on the market (solvent- and water-based) with no limitations in speed or quality

MULTI-PROCESS

Ready™
Multi-process for the Flower™ head.
Ready™ to drop in, print, and stand-up.

- New process ready in a few minutes
- Same adjustments as Flower™ unit
- Automatic electronic and SW plug in
- Ready™ cart on wheels:
 - Easy drop-in
 - Easy move
 - Easy storage
- Safe, light, easy.



HOT FOIL STAMPING

Ready
The hot stamping head can be located either on the Ready™ cart for easy positioning and storage, or in a fixed position. The foil unwinder and rewinder devices are positioned on the double deck upper rail system, which moves along the press, to allow process integration on print heads. The accuracy of the web tension control avoids the formation of wrinkles and inconsistencies in foil management. Both electrical and oil heating devices are available.

- Movable on any Flower™ print unit
- Magnesium plates for low cost tooling
- Heavy duty pressure adjustment for fast hot stamping speeds
- High pressure oil heating for high speed and quality.

DigiGold™
Digitalized hot stamping unit movable on each Flower™ head. DigiGold™ uses servo adjustment technology such as DigiGap™ to match the hot stamping pressure to the job, substrate thickness, surface etc. The DigiGold™ unit can store and recall pressure data. It can also automatically increase the pressure when the speed increases. The hot stamping set-up is extremely fast, easy and repeatable. Production speed and print quality consistency are also dramatically improved. DigiGold™ is a very flexible, compact, robust and efficient hot stamping unit which is easily fitted to each Flower™ head.

- Organizer™ for easy, safe handling and storage of hot stamping cylinders
- Magnesium plates for low cost toolings
- Front removal of hot stamping sleeves for fast job change
- Digital pre-setting of job pressures for fast set-up.

Press models	MX-M1-M3-M4-M5-M5X-M7-M9
Print width	360 mm - 14 in 420 mm - 16.5 in
Print repeat	304.8 - 609.6 mm - 12 - 24 in
	Driven by Flower™ head

M1-M3-M4-M5-M6-M7-M9
360 mm - 14 in 420 mm - 16.5 in
304.8 - 609.6 mm - 12 - 24 in
Driven by Flower™ head

SCREEN PRINTING

Stork Print™ for exclusive screen security and decoration effects.

- Stork RotaMesh™**

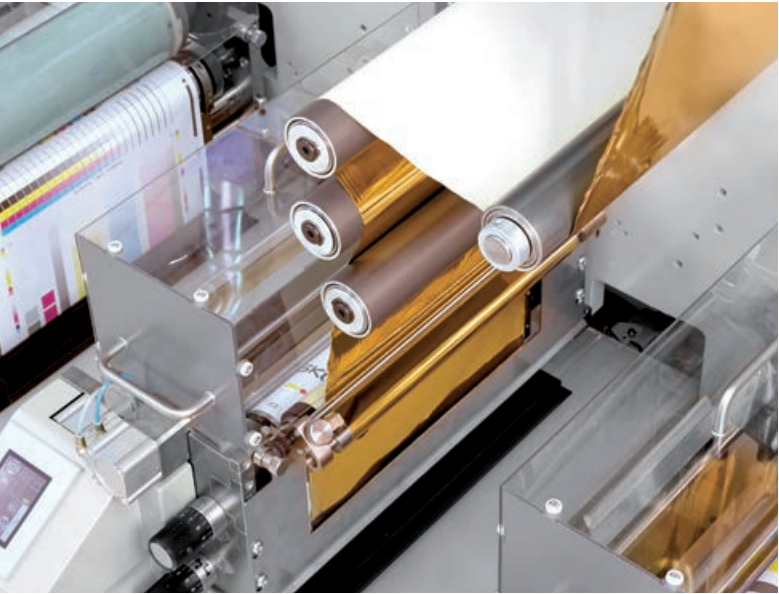
 - Long-term single mesh durability
 - Multiple reusability of the same mesh
 - Robust mesh, easy to set-up
 - Unique 3D effects - Braille etc.
- Stork RotaPlate™**

 - Low plate cost
 - Single reusability of the same plate
 - Fast pre-press time.



	RSI	EASY-FIT
Press model	M3-M4-M5-M5X-M7-M8-M9	MX-M1
Print width	360 mm - 14 in 420 mm - 16.5 in	360 mm - 14 in 420 mm - 16.5 in
Print repeat	304.8 - 609.6 mm - 12 - 24 in	304.8 - 457.2 mm - 12 - 18 in
RotaMesh™	Yes	Yes
RotaPlate™	Yes (14 and 16 in width only)	No

COLD FOIL STAMPING



Hot stamping glossy metallic effects with lower plate costs and higher speeds, using a Flower™ head.

- Highly accurate control of foil tension on unwind and rewind shaft
- High precision adjustment of laminating pressure
- Multiple foils on the same shafts
- Available on every BOBST press line
- Movable on each Flower™ flexographic head.

INLINE SLF LAMINATION

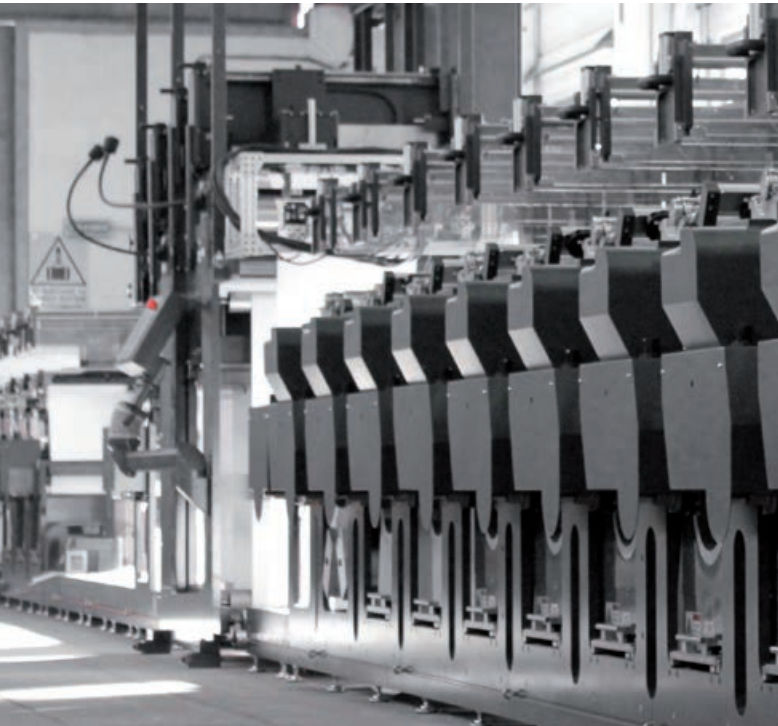
Developed in cooperation with the BOBST Coating and Lamination Team, the SLF lamination unit enables inline lamination using solventless adhesives with the highest quality due to multiple servo driven rollers, independent temperature control circuits and an accurate adhesive dosing system.

- Easy extraction of coating sleeve
- Accurate adhesive thickness control
- Wide choice of substrates (BOPP, PA, PE, Alufoil etc.)
- Non-Stop Turret Unwinder at 90° for best press layout.



	RotoFlower™ gravure unit	SLF lamination unit
Press models	M5-M6-M8	M5-M6-M8
Print repeat	406.4 - 1066.8 mm - 16 - 42 in	
	Independent servo drive	
Speed max	Defined by the specific applications	Max press speed

DIGITAL



For security applications or direct marketing on packaging. Ink-jet digital printing using Ready™ cart allows customized numbering or identifiers to be applied with UV, solvent or water-based inks. This can be either movable on each Flower™ head or in a fixed position.

- UV ink jet on Ready™ cart, movable on each Flower™ head, plug-in digital printing, ready to go in minutes
- High speed water-based ink jet unit with inline 100% data inspection for lottery tickets and security applications.

FLEXIBLE PACKAGING

WIDE CHOICE OF FLEXIBLE PACKAGING SUBSTRATES

Label converters are extending their scope of supply to a vast range of products in the flexible packaging industry. Wide-web converters are looking for flexible solutions to produce efficient short and mid-run production. BOBST supports the growth of labels and packaging converters offering the widest range of technologies and press configurations available in the market.

- Flexible packaging for the food and non-food industry
- In-mold labels
- Laminated substrates
- Shrinkable sleeves
- Aluminium foil



LABELS

SELF-ADHESIVE LABELS

BOBST has developed an integrated mix of revolutionary technologies to enhance productivity in the self-adhesive label industries, allowing users to create new functional labels and break the bottle-necks of die-cutting and waste stripping.

- New functionalities for self-adhesive labels
- Short set-up times
- Low waste
- Up to 200% higher production speeds.

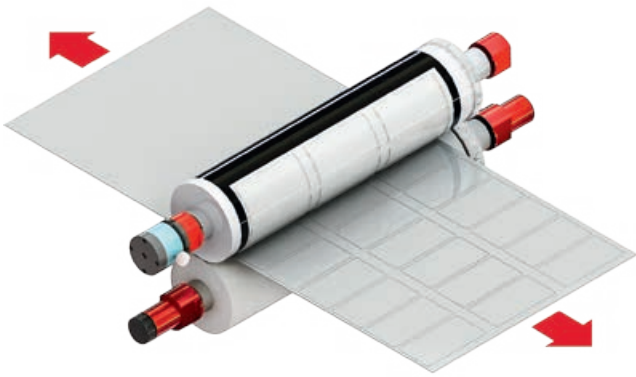
Technology	Press model	Advantage
Metronome™	M1-M3-M4-M5-M6-M7-M9	Low cost dies
Coupons	M1-M3-M4-M5-M5X-M6-M7-M9	Promotional labels
Booklets	M1-M3-M4-M5-M5X-M6-M7-M9	Multiple layer labels
SnowBall™	M1-M3-M4-M5-M5X-M6-M7-M9	High speed in labels
Bambi™	M1-M3-M4-M5-M5X-M6-M7-M9	High speed in labels
DigiGap™	M1-M3-M4-M5-M5X-M6-M7-M9	Less waste, more quality
Organizer™	MX-M1-M3-M4-M5-M5X-M6-M7-M9	Lean manufacturing



Metronome™

High-speed semi-rotary die-cutting. A servo operated web-buffer allows for intermittent speed of the web and the use of only a part of the magnetic cylinder for die-cutting. A revolution for short runs productivity.

- Half or less cost of flexible magnetic dies
- Lower cost of magnetic cylinders - two cylinders make it all!
- Superfast set-up time - in combination with DigiGap™ and ExcelCut™
- Metronome™ allows for millimeter die-cutting
- High production speed - up to 80 m/min - 262 ft/min.



SPECIAL LABELS

BOBST technologies for multiple web handling - multiple tension areas, multiple web unwinding and laminating, multiple web special paths, special die-cutting - allow for a wide range of possible multi-layer label configurations.

Coupon labels - 2 or 3 layers.
Booklet labels - 3 to 5 layers.

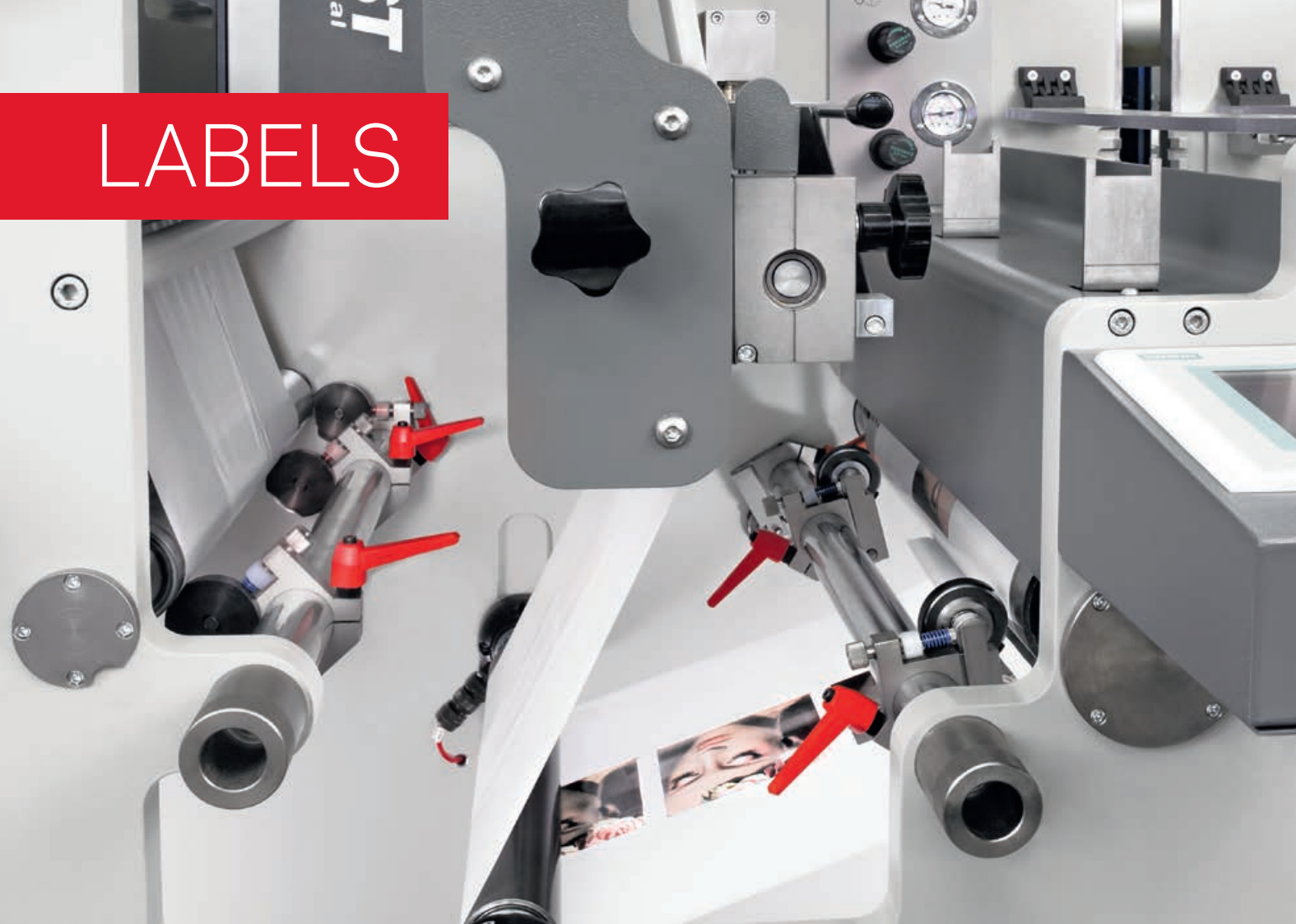
- Peel-and-reseal coupon labels
- Peel-and-tear-and-stick coupon labels
- Multipage peel-and-read booklet labels - QN35™ Technology
- Labels combining all methods.



Technology	Press model
Coupons - 2 layers with 2 webs	M1-M3-M4-M5-M5X-M6-M7-M9
Coupons - 3 layers with 3 webs	M1-M3-M4-M5-M5X-M6-M7-M9
Booklets - up to 5 layers with 1 web	M1-M3-M4-M5-M5X-M6-M7-M9



LABELS



SnowBall™

A revolution in the self-adhesive industry, providing the fastest waste stripping technology.

- Short distance between stripping point and rewinding point: less risk of matrix break
- Servo-driven stripping cylinder: perfectly accurate stripping tension
- Stripping cylinder in contact with rewinding web: less risk of irregular rewind of waste
- Waste roll diameter does not affect matrix tension: consistent productivity
- 20% to 50% higher stripping speeds on all label shapes
- Consistent productivity without waste breaks.

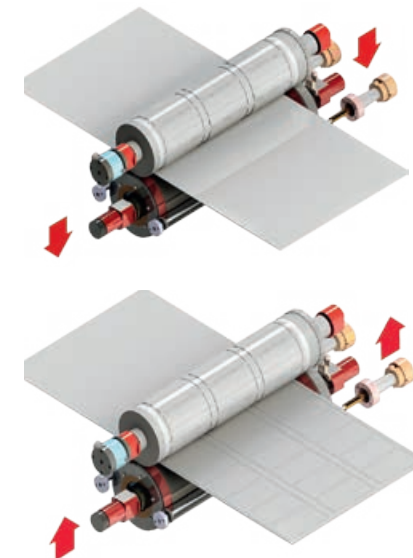
Bambi™

The true productivity booster for difficult label shapes, adhesives etc. The glue tack of the self-adhesive substrate is temporarily softened to achieve higher stripping speeds on any substrate - paper, film etc. - and any label shape.

- 20% to 100% higher stripping speeds on special labels, substrates, adhesives
- Consistent productivity without waste breaks.



SPECIAL TECHNOLOGIES FOR HIGH-SPEED SELF-ADHESIVE LABEL PRODUCTION



DigiGap™

Digitally controlled die-cutting pressure, independent on both sides. Two servo motors control the gap between the blade of the die-cutting tool and the substrate, for accurate die-cutting pressure at any speed and on any substrate.

- Automatic lift of die-cutting pressure for pre-register operations - lift-turn in register die-cut
- Digitally operated die-cutting pressure adjustment at speed change
- Automatic set-up of die-cutting pressure, based on paper thickness
- Digital storage of optimized die-cutting pressures, for repeat jobs
- Accurate die-cutting on any substrate
- Extremely short set-up time with minimal waste - pre-register and automatic pressure adjustment
- Consistent cutting quality on any substrate and at any speed
- Long life of die-cutting tools
- Higher production speeds.



Organizer™

First developed in 1999, Organizer™ is lean technology for handling and storing magnetic cylinders. A three-axis motorized structure inserts/extracts the heavy cylinders from the die-cutting section and stores them in front of the press.

- Organized lean working environment: cylinders are all in front of the press, ready to be used
- Easy and effort-free insertion and extraction of magnetic cylinders
- No risks to the operator from handling heavy cylinders.

FOLDING CARTON



Folding carton and paper packaging

Heavy-duty manufacturing and multi-process technology allow for the production of added-value cartons and paper labels in short and long runs, all in one pass.

- Heavy-duty manufacturing for all carton substrates up to 600 gsm
- Integration of all-in-one-pass printing processes - offset, flexo, gravure, digital, embossing etc.
- Digital Automation™ for short set-up times and low waste in multi-process converting
- High-speed productivity up to 400 m/min, 1300 ft/min
- Flexibility to convert paper and carton.

Product	Press model
Lottery Tickets	M5-M6-M8-M9
Beer Labels	M1-M3-M4-M5-M5X-M6-M7-M8
Chewing gum wraps	M1-M3-M4-M5-M5X-M6-M7-M8
Folding carton (up to 300 gsm)	M5-M5X-M6-M8-M9
Folding carton (up to 600 gsm)	M8-M9

Lottery tickets and security products

Integration of multi-process technologies for security applications such as lottery tickets and pre-paid phone cards, with practically an unlimited number of colors, printing processes and security technologies.

- BOBST technology for long-run productivity without stopping the press, using water-based ink applications
- Unlimited number of printing units for scratch-off effects, exclusive security functions
- Successful integration of high-speed ink-jet printing heads for security printing
- All printing technologies available for all-in-one-pass productivity
- Second and third pass possibility for special applications.



Beer labels - Chewing gum wraps

BOBST technology allows for printing and sheeting on low gauge papers, and for printing heavy solids with water-based inks. Specially developed anti-warping technologies allow for sheeting and stacking at high speeds.

- Special drying technology for water-based inks on low gauge papers
- High speed servo-driven sheeting up to 150 m/min - 500 ft/min
- Optional high-pile stacker for non-stop productivity
- Unlimited servo-controlled cutting length without changing tools
- Dedicated anti-warping technologies for ultra-light sheets and water-based inks.



Folding cartons

All-in-one-pass multi-process productivity, using Digital Automation™ to coordinate and integrate multiple printing heads and processes. Reduced waste and short set-up times to produce smart cartons.

- Technology for registering multiple cartons on the same plate, using different printing processes
- Heavy duty multi-process converting section for embossing, creasing, die-cutting, sheeting
- Heavy-duty manufacturing for long press durability on heavy folding carton substrates
- Wide choice of printing processes - offset, flexo, gravure, screen, digital etc.
- All-in-one-pass multi-process technology for exclusive graphic effects
- High speed, high-pile stacker for the efficient off-line die-cutting of short runs
- Digital Automation™ for low waste and fast set-up times of multi-process.

UNIQUE SOLUTION PROVIDER

REVO Academy

BOBST cooperates with leading technology suppliers across the print supply chain and provides additional unique services and solutions to the printing, laminating and converting industry. A group of main industry drivers has set up and made available to converters and suppliers worldwide the REVO Academy housed in the Competence Center of Bobst Firenze in Italy. The Academy is a highly-specialized printing technology excellence center for hands-on testing, live plate manufacturing and R&D joint developments.

- REVO Extended Color Gamut (ECG) Center of Excellence
- Full flexographic manufacturing cycle, from file to plate to print in less than 2 hours.



More information on
the REVO Technology Team

LEADING INNOVATION WORLDWIDE



BOBST has production facilities on three continents, as well as a sales and services network with facilities in more than fifty individual countries. This worldwide coverage is one of the key factors behind BOBST's position of leadership in its industry. By delivering support close to its customers, in their language and with respect to their customs, BOBST helps customers achieve higher quality, improved productivity and reduced operating costs.

- Group production sites with sales and services
 - Number of Group production sites in the country
 - Group companies and representative offices for sales and services
 - Agencies and representatives for sales and services
- Reconditioning :**
Brazil
- Strategic partner:**
BHS Group, Germany
- Other subsidiary:**
Gordon Ltd, China

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