

Ultimate productivity and unmatched quality

with Inside Outside Printing



FLEXO PRINTER & ROTARY DIE-CUTTER

MASTERLINE DRO


At a glance

Powering performance

The ultimate productivity and unmatched quality with inside outside printing in one pass, designed for easy operations and optimised resources usage. The most versatile, the most automated, the most ergonomic solution of the market. More than 600 DRO machines installed worldwide over 30 years.



MASTERLINE DRO

- > At a glance
- > Packaging market
- > Agility and quality
- > Benefits and features
 - > Ultimate productivity
 - > Unmatched quality
 - > Easy operations
 - > Optimised resources usage
- > OneRegister 
- > Specifications
- > Related products
- > Speedpal
- > Benefits and features
 - > Ultimate productivity
 - > Safe and easy operations
- > Services

Ultimate productivity

Unmatched quality with inside printing

Safe & Easy operations

Optimised resources usage

REQUEST CONSULTING

 Print responsibly

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Agility and quality

Wide range of packaging

BOBST innovations
are driven by customer
and brand owner needs.

[> READ MORE](#)

Agility and quality

- Shipping box, shelf ready packaging, trays, heavy duty, consumer packaging
- From one side to inside outside printing
 - Up to nine colors
 - From simple block printing to high graphics
 - From E-flute to double wall
 - From simple tray to complex die cut
 - From the smallest box to the biggest



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Ultimate productivity



High uptime

Full converting solution from prefeeder to palletizer

- Quick order changeover on the full line
- Fully automated settings
- Connected machine



More than 40 million of m² per year*

Rated speed 12.000 F/h of the complete line

- Optimized productivity with large blank on the complete line
- Multi-out production
- Zero feed interrupt at any speed

*430 million of Square Feet




No limit of production

In one pass

- Switch from inside outside printing job to outside printing job without impacting productivity
- From long to small order sizes

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Unmatched quality with inside outside printing



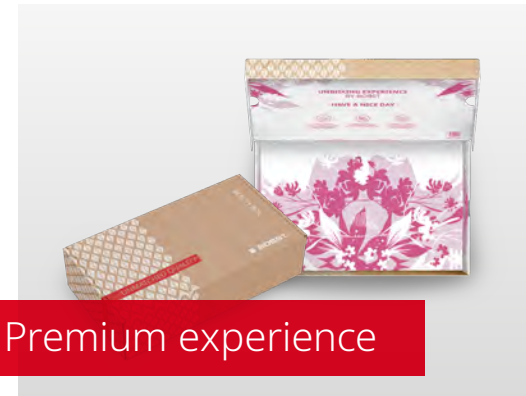
Added value packaging

- Up to 15% improvement of BCT with BOBST no crush feeder technology
- Over 99,9% die-cut waste ejection
- Consistent quality for each item, bundle and pile



High accuracy

- Efficient dust collection system for perfect printing quality on both sides
- Motorized skewing
- High register accuracy, print to print and print to cut
- Area for dryers & quality control system



E-commerce solution in one pass

- MASTERLINE DRO is inline with the fast acceleration of e-commerce offering 'Unboxing experience'
- Inside print with top flexo unit, patented solution
- No printing limit: up to 9 flexos units on the converting line

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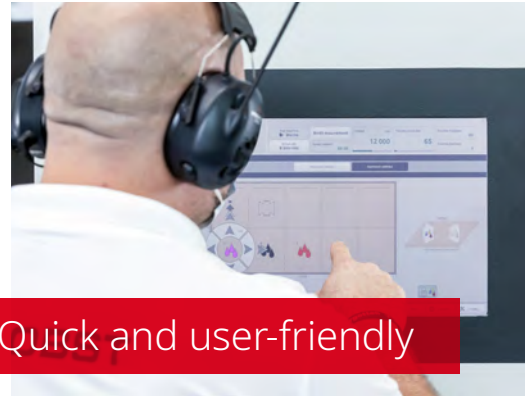
Safe and Easy operations



Intuitive set-ups

Easy to set

- Time-saving ergonomic: maximum uptime, minimum effort
- Fully automatic trolley: 4 anilox rolls changed in less than 10 min
- Posilock®, quick positioning and locking system



Quick and user-friendly

Easy to operate

- The highest safety level solution on the market
- Intuitive and user-friendly interface with easy menu
- Easy sampling for quality control
- Carbon fiber doctor blade chamber for an easy and safe handling



Standardized spare parts

Easy to maintain

- Heavy duty design with standardized spare parts
- Maintenance free vacuum transfer
- All parts of the machine easily accessible

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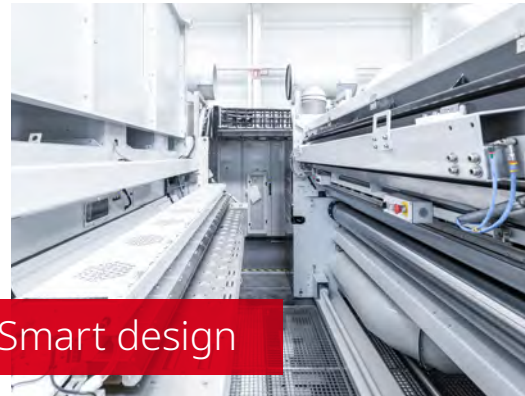
Optimised resources usage



Waste reduction

Optimised use of natural resources

- Drastic reduction of cardboard waste during set-ups & during production
- Sheet by sheet register control and correction minimizing waste
- Vacuum power automatically adapted to the sheet size
- New design of ink circuits to minimize ink waste during wash-up



Smart design

Sustainable operations

- Reduction of claims thanks inline control and ejection systems
- Machine resilience to cardboard quality variations
- No hydraulics



Made to last

BOBST Design expertise

- Designed in France, heavy duty engineering, high-quality manufacturing
- Robust, reliable solution made with more than 30 years of experience in rotary die-cutting
- Evolutive conception for future market needs

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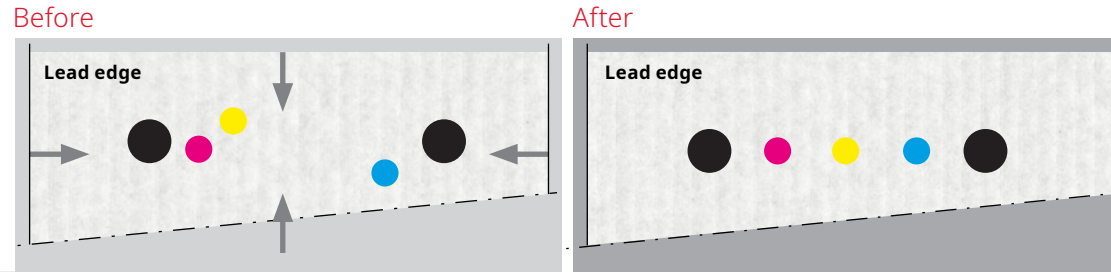
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OneRegister

Three quality control systems for perfect printing register consistency during set-up or during production.

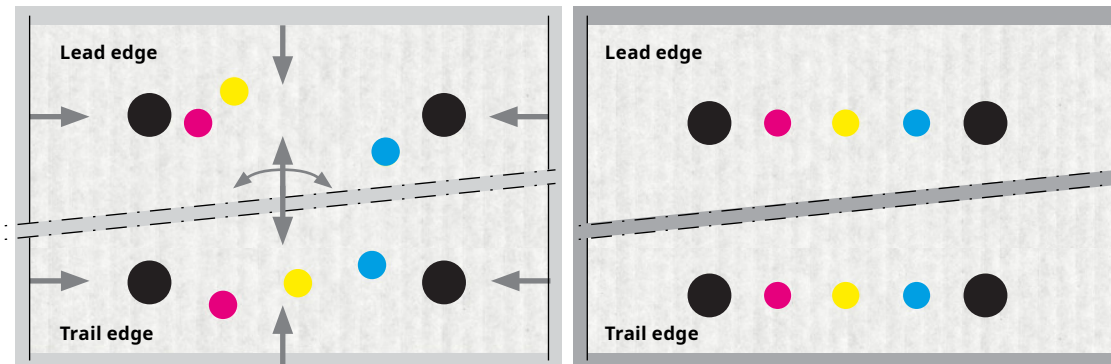
Set & Check

Quick print register set-up: registration and centering



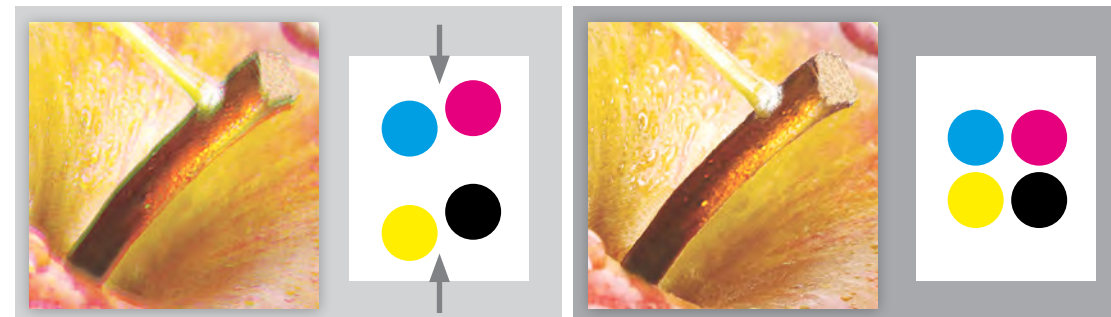
Start & Go

Fully automatic set-up of print register: registration, centering, elongation and skewing



Lead & Print

1. Proactive compensation of cardboard irregularity during production
2. Guaranteed print to print and print to cut consistency



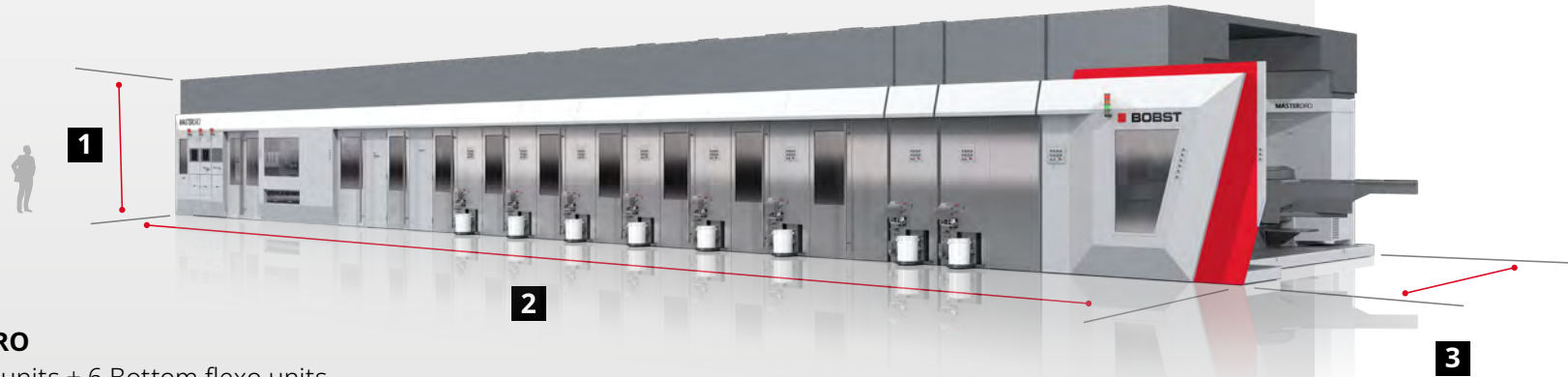
Ejection of non-conforming sheets

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MASTERDRO

2 Top flexo units + 6 Bottom flexo units
+ 1 Final transfer unit + 1 Speedstack

1

MASTERDRO	3.8 m	12.4 ft*
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2

MASTERDRO	29.3 m	95 ft*
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3

MASTERDRO 2.4	8.0 m	26.2 ft
MASTERDRO 2.8	8.4 m	27.6 ft
MASTERDRO 3.2	8.8 m	28.8 ft

* Values may vary according to the configuration.

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Materials processed

Corrugated board.
Single wall and double wall, thickness from 1.4 to 10 mm (0.055 to 0.393 inches).

Sheets sizes

	Min. / mm With Speedstack	Min. / mm Without Speedstack	Max./mm	Min./ inch With Speedstack	Min./ inch Without Speedstack	Max./ inch
MASTERDRO 2.4						
L Sheet width	735	600	2 490	29	24	98.0
l Sheet length (in running direction)	450	450	1 540	17.8	17.8	60.6
Die-cut and printed sheet width	735	600	2 400	29	24	94.4
MASTERDRO 2.8						
L Sheet width	735	600	2 890	29	24	113.8
l Sheet length (in running direction)	450	450	1 540	17.8	17.8	60.6
Die-cut and printed sheet width	735	600	2 800	29	24	110.2
MASTERDRO 3.2						
L Sheet width	735	600	3 290	29	24	129.5
l Sheet length (in running direction)	450	450	1 540	17.8	17.8	60.6
Die-cut and printed sheet width	735	600	3 200	29	24	126.0

Machine specifications

Production speed - High Speed MASTERDRO 2.4 / 2.8 / 3.2	12,000 s/h
Production speed - MASTERDRO 2.4 / 2.8	11,000 s/h
Production speed - MASTERDRO 3.2	10,000 s/h
Nominal circumference of print cylinder	1 675 mm 66 in
Board infeed height	1200 mm 47.25 in
Power supply capacity - 6 colors and Speedstack	460 kVA*
Air consumption - 6 colors and Speedstack	196 Nm ³ /h*

* Value may vary according to configuration.

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Related products



MULTILOADER

Reliable and easy to use

This fully automatic prefeeder ensures optimum production line capacity. Sheets are fed accurately and evenly. It feeds MASTERDRO and runs with all types of flutes.



SPEEDPAL

High performance, intuitive and safe

The fully automated palletizer can handle any product mix the MASTERDRO can deliver at high speeds, levels of quality and flexibility.

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At a glance



Ultimate productivity

Safe and easy operations



PERIPHERAL EQUIPMENT

SPEEDPAL

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Ultimate productivity



Breaker

Electrical Breakers with rotating table

- Optimize breaking process thanks independent electrical pressing devices batch up to 400mm high
- Smooth and fast electrical breaking action preserve packaging integrity
- Blanks size from 2.8m x 1.6m to 0.2m x 0.2m



Layer arrangement

Flat transport of batches

- Smooth transfer, perfect layer consistency and breaking efficiency
- Squaring table with double batches mode
- Stability of piles thanks bundle inverter and tie sheet inserter



Pile Stacker

Double pile perfectly squared and centered

- Perfect pile quality thanks independent jogging frame
- Flexible solution with multiple possibilities on pile evacuation
- Pallet inserter and protection sheets to preserve packaging integrity

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Safe and easy operations



Breaker

Ergonomic design and unrivaled level of safety

- Fully compliant with the latest safety regulation



Easy menu

HMI Sphere

- High definition touch screens
- Intuitive navigation
- Simple step-by-step procedure guides the operator through the job set-up process



Safe and ergonomic

Easy access for maintenance

- User friendly jam-up procedure for quick machine start

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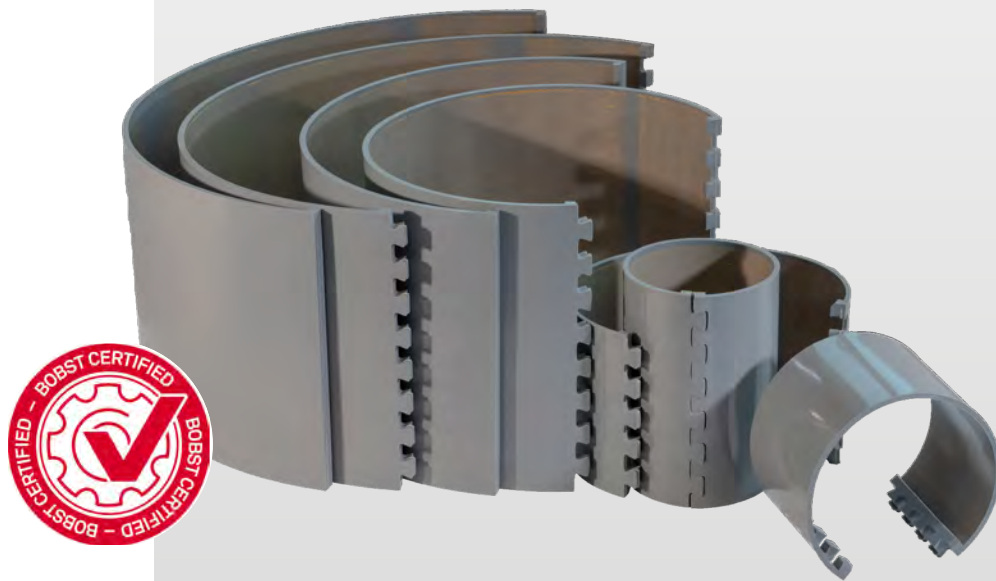
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Maintaining excellence

Expert services for all your equipment.
Improve your processes, boost your productivity and enhance your expertise with a complete range of services from BOBST.



Maintenance Plus

- Scheduled maintenance with BOBST certified technicians
- Preventative intervention, maximizing machine uptime
- Optimum performance over the equipment lifetime

[> WATCH VIDEO](#)

Approved parts and logistics

- BOBST Original and Certified parts, and consumables
- Quality assurance, and extended maintenance intervals
- Worldwide distribution, and full availability where and when you need it

[> LEARN MORE](#)


Machine upgrades

- Additional features, configured for your machine
- Enhanced functionality, connectivity and capability
- Future-proofing your investment, maintaining competitive advantage

[> LEARN MORE](#)

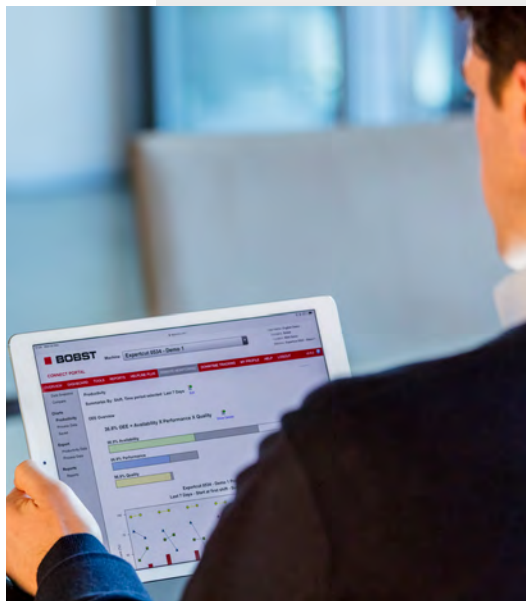
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Switch on digital transformation

BOBST Connected Services ensures your business is ready for the changing world of digital manufacturing. Our range of apps and technical support brings full connectivity to your equipment and processes – providing you with a wealth of real-time data, analytical tools and expertise – helping you work smarter and more productively.



Helpline Plus & Premium*

- Remote access intervention, with BOBST technicians
- Expert support, eight hours a day, five days a week
- Maintain production, reduce callouts by 80%

Helpline Plus & Premium* AR

- Enhanced remote assistance with Augmented Reality
- Visual instructions right in front of you
- Available for internal use

*24/7 support in selected areas.

Connect Portal

- User friendly web portal containing equipment data, reports and analysis
- Access insights on the go with Mobile Portal from your smartphone

Remote Monitoring

- Real-time production KPIs
- Alerts and notifications
- Enabling control and decision making

Downtime Tracking

- Track downtime and understand the root causes
- Enabling continuous improvement in productivity MES / ERP interface
- Web-based API for simple equipment data interface
- Data link and ERP Interface protocols for on-site direct integration

[> WATCH VIDEO](#)

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