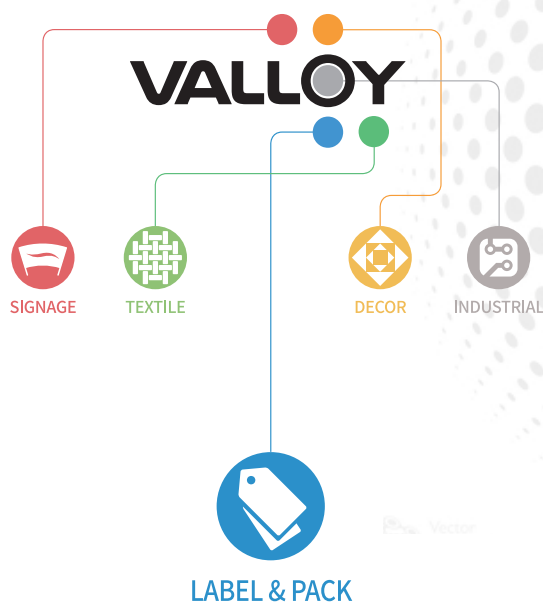


PRODUCT INFORMATION

VALLOY'S DIGITAL LABEL & PACKAGING SOLUTION GUIDE





ON-DEMAND PRODUCTION OF LABEL & PACKAGE
IN RIGHT TIME, RIGHT PLACE & RIGHT QUANTITY



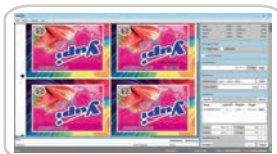
ROLLIO X PRESS

Most economic solution of 13" professional digital roll label 4 color press in the market for prevalence!
WIDE RANGE OF COMPATIBLE SUBSTRATE / 7.26M/MIN SPEED @ 1200x2400 DPI / FREE WIDTH BTW 210-330MM



FEATURES

Practical digital label press for quick and short runs



INTUITIVE S/W

Simultaneous processing of several orders. Advanced features like color control and calculation of costs. Option for professional rip, ICC profiler and variable data available.



PERFECT QUALITY

The special IReCt technology corrects a imprecise print image alignment with highest precision and avoids quality problems in printing.



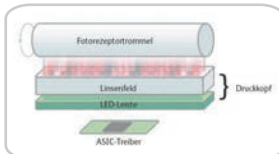
WIDE RANGE OF MEDIA

BIZPRESS can also print on heat sensitive materials like Thermopapers, PE, PVC, PP, TYVEK and on static sensitive materials like gold paper and silver film.



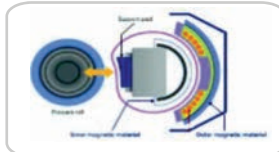
COMPACT SIZE

The label printer available for attractive price. Ideal for small and medium orders. Small footprint and therefore also suitable for office environments.



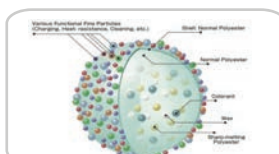
1200 x 2400 DPI

The best quality in LED toner systems by applying the most advanced S-LED and DELCIS technologies onto each of 14.592 LEDs.



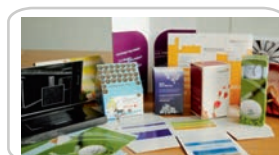
IH-FUSER TECHNOLOGY

Thanks to this new highly efficient fusing technology, it operates at low temperature without need of preheating.



EA ECO-TONER

Special toner containing low-temp. sharp-melting polyester and wax for photo-quality glossy output in strong bonding power.



PACKAGING FILM PRINTING

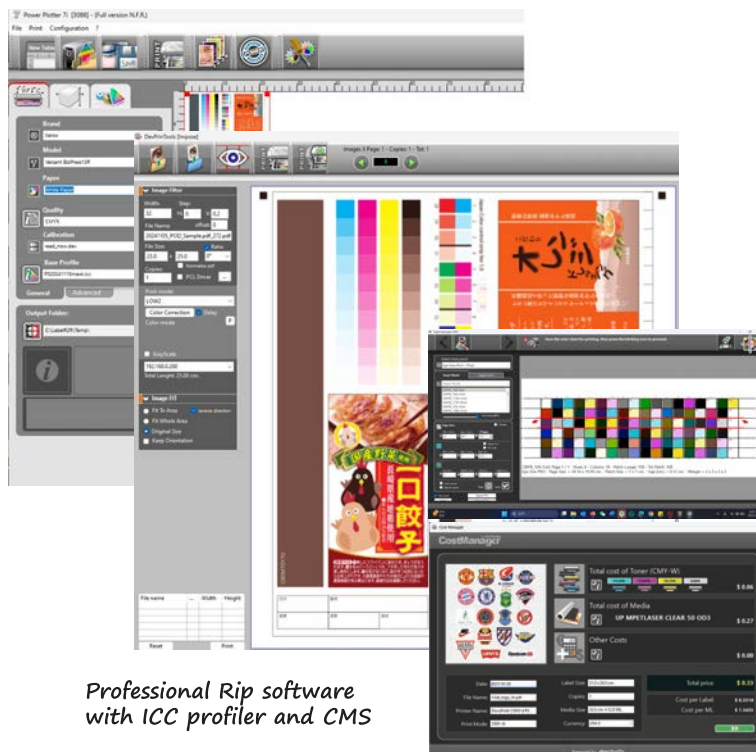
BIZPRESS can print on thin BOPP films, aluminium deposited pouches or thin glassine papers for bread wrapping without wrinkles.



ON-DEMAND PRODUCTION OF LABEL & PACKAGE
IN RIGHT TIME, RIGHT PLACE & RIGHT QUANTITY



White Conversion Kit
(CMYK <-> CMYW)



Professional Rip software
with ICC profiler and CMS

SPECIFICATIONS

Max. media roll diameter	450mm (about 1,000 meters of artpaper label roll, 47.2 KG)
Roll media width	210-320mm
Max. printing width	304mm
Max. print image length	1200mm
Printing speed	7.26m/min at all resolutions (600x600, 1200x1200, 1200x2400 dpi)
Printing Technology	4 color (CMYK or CMYW) dry toner LED printing system
Warming up time	less than 28 seconds
Gap between repeats	min. 2mm
Compatible substrate	50~300micron / Paper, PET, PP, Tyvek, Aluminum composite film, Metallic paper, PE...
Consumable Capacity	Toner : CMY 18.5K / K 26K, Drum : 100K (A4 pages @ 5% coverage)
Monthly cycle	Max. 20K sqm (recommended)
Printing Environment	20~23°C, 45~55% (RH)
Machine size (L x W x H)	1400 x 855 x 1400mm
Machine weight	Approx. 423 kgs
Power supply	110-127 or 220-240 VAC, 50-60HZ, 2800WATTS
Included	LPU SW, anti-static ionizer, color sensor for overprinting, servo-driven rewinder, pneumatic bobbin, electro-magnetic tension control system
Warranty	13 month after shipment (except for consumables parts)
Options	Web guide system / White conversion kit / Professional RIP software / Variable data



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ON-DEMAND PRODUCTION OF LABEL & PACKAGE
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EMBELLIO Xpress

Game Changer in roll to roll digital embellishment market - new singlepass inkjet varnishing & foiling!
4-5 HEAD UV-INKJET SINGLE PASS PRINT BAR / 3~25M/MIN SPEED / UV LED LAMP CURING SYSTEM / CORONA PRETREATMENT / OVERPRINTING SENSOR / INLINE FOILING / INK THICKNESS CONTROL



Single color Single pass
UV inkjet & inline foiling

Ink layer thickness	Line thickness	Font size	Print Speed
0.03mm	0.1mm	3 pt	25m/min
0.05mm	0.2mm	5 pt	12m/min
0.07mm	0.4mm	7 pt	6m/min

FEATURES

Compact singlepass UV inkjet press for Digital Embellishment



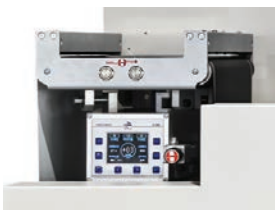
Using 4 ~5 ea of XAAR 2002 heads which can jet upto 100 cPs thick ink with continuous recirculation for single-pass UV LED inkjet



Corona pretreatment system to print UV curable ink on any kind of printed layer and uncoated substrate



Cold foiling system to adhere on pin-cured varnish ink layer during full-curing process
Sharp edges achievable



Web guide system to assure straight feeding



Embedded PC and Rip software to print single color in different ink thickness and speed



ON-DEMAND PRODUCTION OF LABEL & PACKAGE
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Glossy Varnishing
Matte Varnishing
Braille / Semi-3D
Metallic Foiling



SPECIFICATIONS

Max. media roll diameter	480mm (3" core, 47.2kgs)
Printing speed	3 - 25m/min (depending on ink layer thickness)
Max. label width	70 - 360mm
Max. printing width	280mm default, 350mm optional (adding additional head)
Printing method	Piezo DoD Inkjet
Printing resolution	720 x 720, 720 x 1440, 720 x 2880 DPI
Printing Accuracy	± 0.15mm for overprinting
Substrate thickness	60 ~ 350 micron
Ink layer thickness	15~100 micron
Foiling method	Cold-foiling with UV LED curing
Pretreatment	Corona
Cooling system	Water cooling
Software	Intuitive Rip software on embedded PC
Tracking	Panasonic color sensor (detecting Gap, Mark and Color)
Color	Varnish, White, Black
Machine size (L x W x H)	1800 x 1380 x 1460mm
Machine weight	Approx. 750kgs
Power supply	380 VAC, 3 Phase, 20A
Room condition	20~23°C, 45~55% (RH)
Warranty	13 month after shipment (except for consumables parts)
Included	Embedded PC with SW / Color sensor / Tension control system / Foiling system / UV-LED lamps / Unwinder - Rewinder / Water cooler / Corona pretreatment
Options	Web guide / Air compressor



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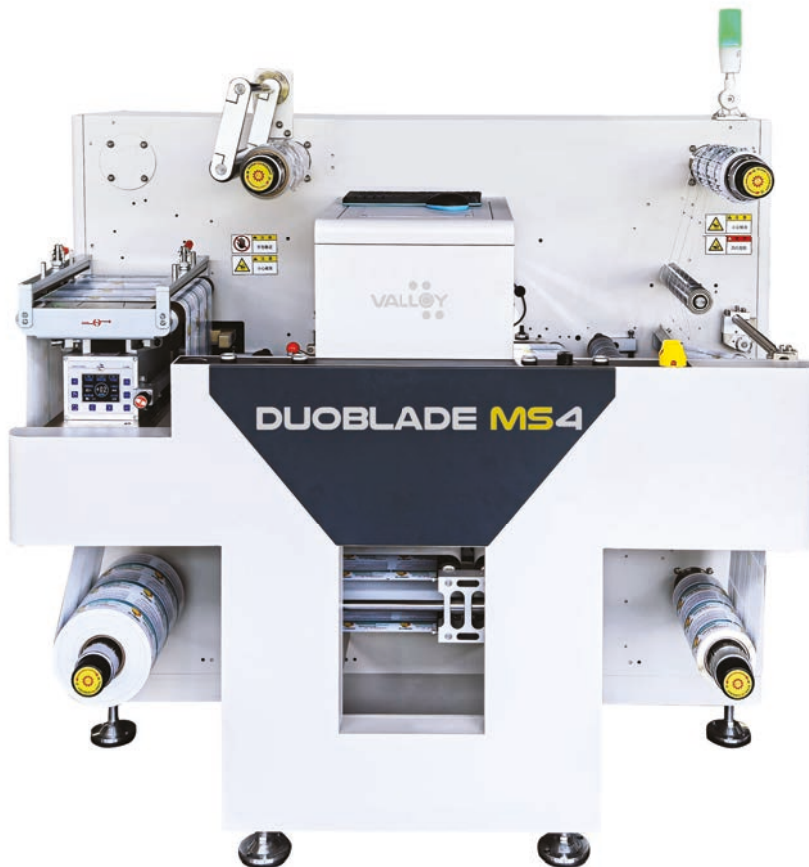


ON-DEMAND PRODUCTION OF LABEL & PACKAGE
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DUOBLADE MS4

Easy to use entry level 13" roll to roll digital label finisher - automatic job change by CCD vision system
FOUR CUTTING HEADS / SOLENOID CUTTING HEAD / CCD CAMERA FOR QR DRIVEN JOB CHANGE

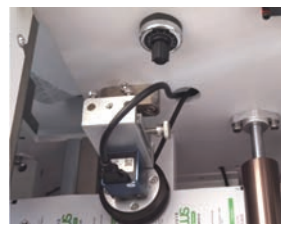


FEATURES

Successor of DUOBLADE WS with Same functions but Different Design



4-head system with automatic job-dependent head-distance control



CCD camera with brightness control for automatic job change by QR code sensing



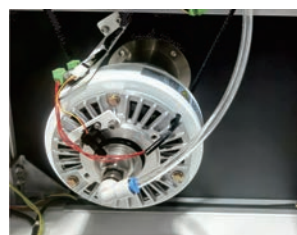
Data communication port for inline operation with Chopin-350 sheet cutter



Web-guide system for assuring straight feeding of substrate



Strong X-Y driving by using thick lead screw actuators for heavy duty fast driving



Fully automatic magnetic powder tension break for all unwinders and rewinders



Semi-rotary slider type tension control system



Mini AI-Cut software for automatic head distance control, job change and hot-folder



ON-DEMAND PRODUCTION OF LABEL & PACKAGE
IN RIGHT TIME, RIGHT PLACE & RIGHT QUANTITY

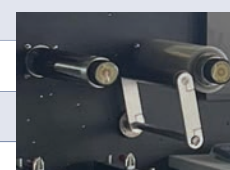
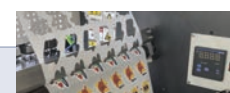


DUOBLADE MS4



SPECIFICATIONS

Max. media roll diameter	500mm
Substrate roll width	40-350mm
Max. label width	330mm
Label length	Min. 10mm ~ Max. 500mm (4000mm length by multi-cut option)
Min. distance between heads	42mm
Laminating roll diameter	Max. 300mm
Waste roll diameter	Max. 460mm
Compatible file format	PDF, PLT, DXF (Driven by MINI AI CUT S/W)
Cutting speed	8m/min (7cm x 15cm x 4 rows of rectangles)
Qty of heads	4 heads (10U knives and holders)
Data connection	TCP/IP with outer computer (no embedded PC)
Die-cutting technology	Non-contacting type with tungsten steel rotary blades, Solenoid head
Cutting precision	± 0.1mm
Cutting tracking	Eye mark / QR by CCD or Black cut (Detection in 0.4s)
Slitting system	10~340mm interval, 5 units default (max. 15 units), 0.1mm accuracy
Machine size (L x W x H)	1540 x 1005 x 1636mm
Machine weight	Approx. 980kgs
Power supply	110-127 or 220-240 VAC, 50-60HZ, 2000WATTS
Warranty	13 month after shipment (except for consumables parts)
Included * No need of air compressor	Laminator / Waste Removal / Job Counter / Slitting system / Web guide / CCD Camera / Automatic Tension Control / Mini-AI cut SW
Options	Chopin-350 sheet cutter / Laminating backliner rewinder / Heated waste strip roller / Auto-stop by detecting labels on matrix / EPSON-Memjet inline connection module



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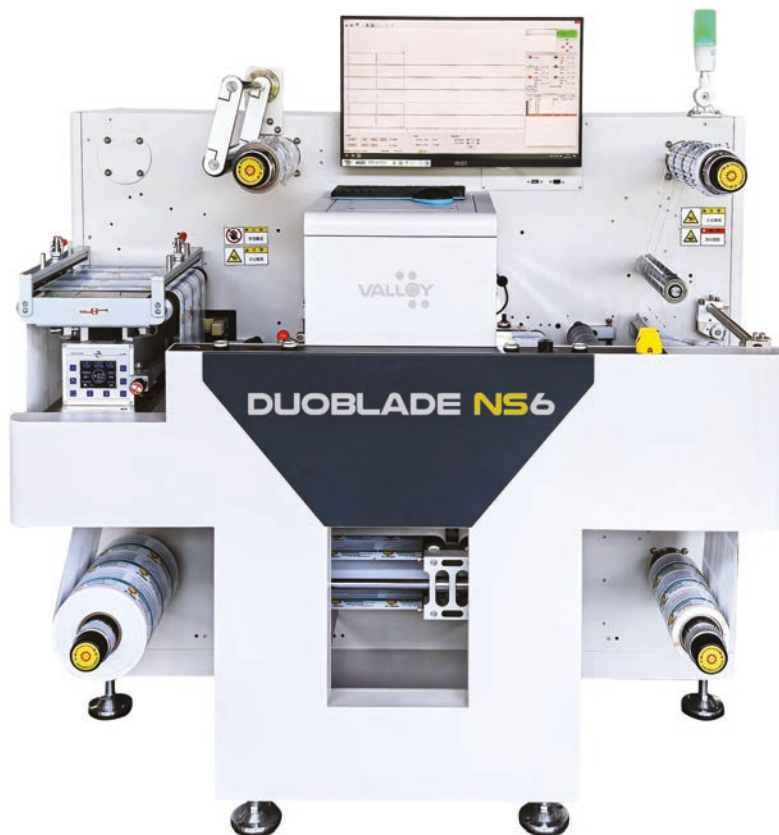


ON-DEMAND PRODUCTION OF LABEL & PACKAGE
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DUOBLADE NS6

Innovative revolution in digital knife die-cutter once again - electric knife depth control of each 6 heads!
SIX CUTTING HEADS / KNIFE DEPTH MOTOR CONTROL / 30% FASTER THAN DUOBLADE WS CUTTER / FASTER CCD MARK TRACKING / EMBEDDED PC WITH SOFTWARE / AUTOMATIC JOB CHANGE BY CCD



FEATURES

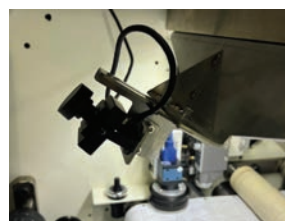
Successor of DUOBLADE WS but much more powerful and Intelligent



6-head system with automatic head-distance control by job detection of QR code using CCD camera



Individual servo-motor driven head height control for self-adjustment of knife depth



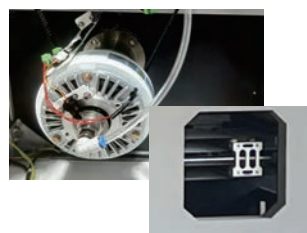
Matrix vision monitoring system to detect parts of weaker depth and adjust knife depth of each head automatically



Web-guide system for assuring straight feeding of substrate



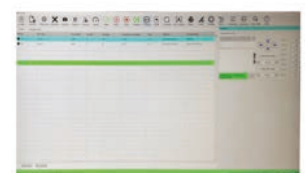
Strong X-Y driving by using thick lead screw actuators for heavy duty fast driving



Fully automatic magnetic-powder tension break and semi-rotary slider type tension control system



Embedded PC and monitor to ensure pre-setting of SW and related resources



New V.4.0 AI-Cut software is installed for automatic workflow with head distance/depth control, job change and hot-folder. (Customizable for other workflow)



ON-DEMAND PRODUCTION OF LABEL & PACKAGE
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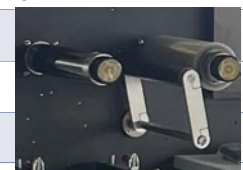
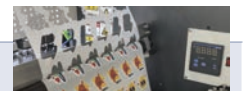


DUOBLADE NS6



SPECIFICATIONS

Max. media roll diameter	500mm
Substrate roll width	40-350mm
Max. label width	330mm
Label length	Min. 10mm ~ Max. 500mm (4000mm length by multi-cut option)
Min. distance between heads	32.5mm
Laminating roll diameter	Max. 300mm
Waste roll diameter	Max. 460mm
Compatible file format	PDF, PLT, DXF (Driven by V4.0 AI CUT S/W)
Cutting speed	10m/min (7cm x 15cm x 4 rows of rectangles)
Qty of heads	6 heads (10U knives and holders)
Data connection	TCP/IP with dual-lan card of embedded PC
Die-cutting technology	Non-contacting type with tungsten steel rotary blades, Servo motor head
Cutting precision	± 0.1mm
Cutting tracking	Eye mark / QR by CCD or Black cut (Detection in 0.03s)
Slitting system	10~340mm interval, 7 units default (max. 15 units), 0.1mm accuracy, max. 70m/min
Machine size (L x W x H)	1540 x 1005 x 1636mm
Machine weight	Approx. 990kgs
Power supply	110-127 or 220-240 VAC, 50-60HZ, 2000WATTS
Warranty	13 month after shipment (except for consumables parts)
Included * No need of air compressor	Embedded PC with SW / Laminator / Waste Removal / Counting of jobs and length / Slitter / Web guide / CCD Camera / Automatic Tension Control
Options	Chopin-350 sheet cutter / Laminating backliner rewinder / Heated waste strip roller / Vision system for automatic knife depth control / Auto-stop by detecting labels on matrix / EPSON-Memjet inline connection module



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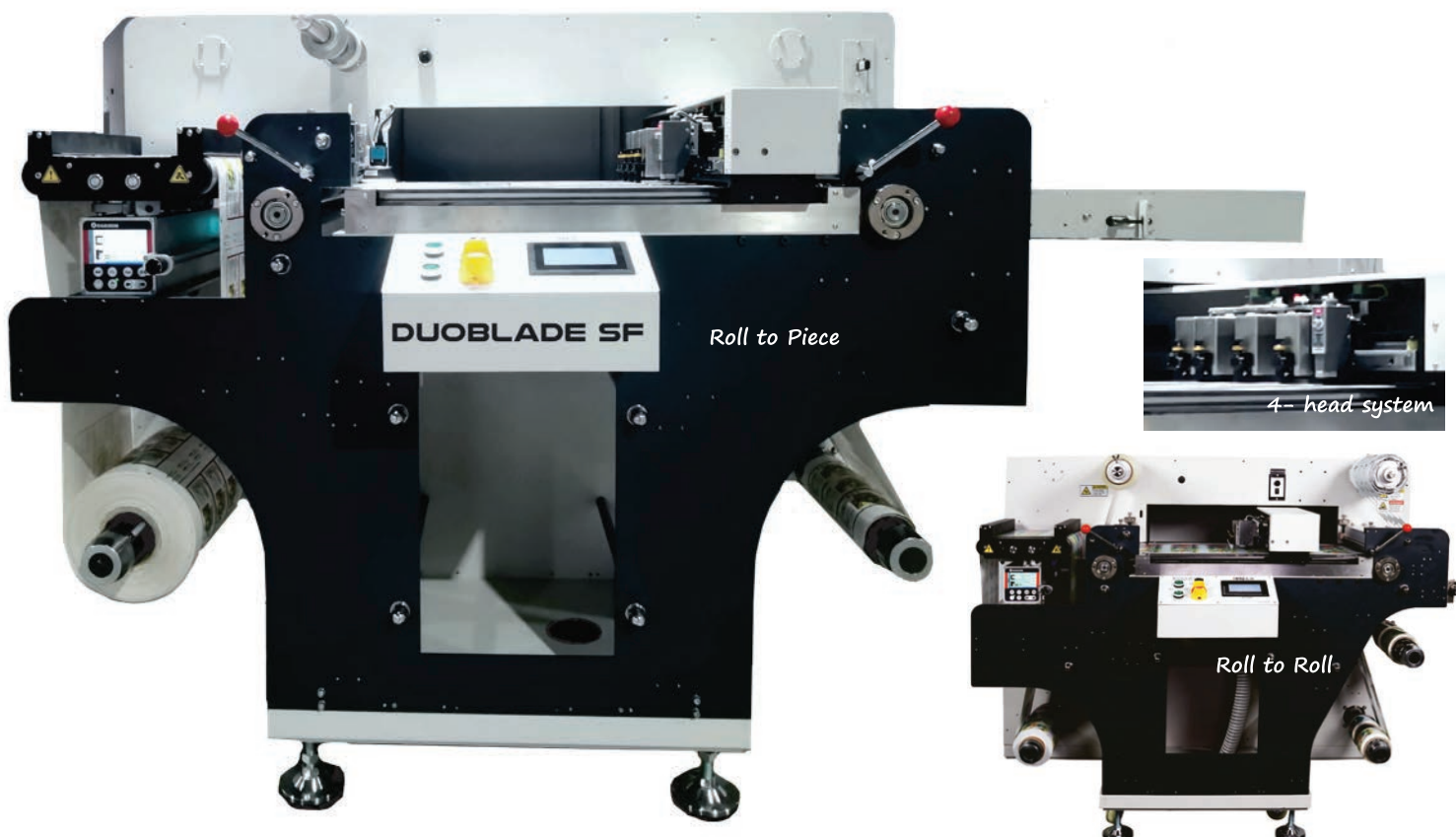


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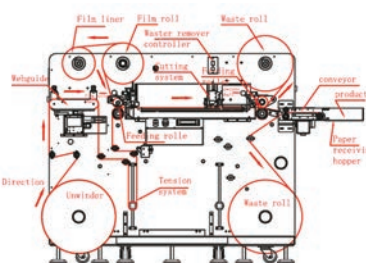
DUOBLADE SF4

Ultimate multi-purpose Digital label finisher for roll to roll, roll to piece and roll to sheet processes
HALF-CUT / FULL-CUT / CREASING / PIECE COLLECTION / LAMINATION / SEPARATE REWINDING



FEATURES

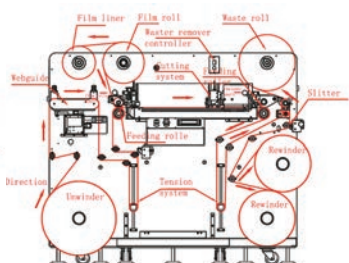
One Solution for R2R, R2Piece and R2Sheet!



Unique flat-bed system for roll to piece process.



Conveyor belt system to carry and collect full cut pieces



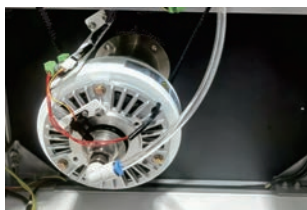
Roll to roll process can be done by quick conversion



Optional roller + matrix separator set and slitting system for roll to roll process



Tension-controlled cold laminating system is included as default.



Fully automatic magnetic-powder tension control system is applied on all unwinders and rewinders.



Web-guide system for assuring straight feeding of substrate



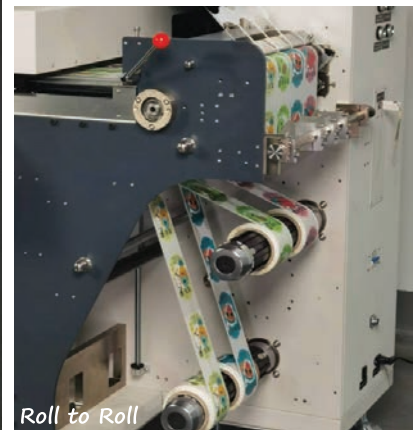
Mini AI-Cut software for automatic head distance control, job change and hot-folder



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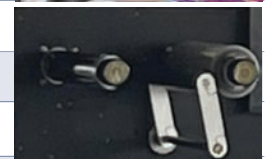
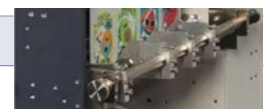


Various applications



SPECIFICATIONS

Max. media roll diameter	450mm
Substrate roll width	40-340mm
Max. label width	310mm
Label length	Min. 10mm ~ Max. 400mm (1200mm length by multi-cut opt.)
Compatible file format	PDF, PLT, DXF
Cutting speed	Max. 6m/min (15cm length rectangles)
Qty of heads	4 heads (various tools for fullcut, halfcut & creasing)
Data connection	TCP/IP
Die-cutting technology	Contacting type with tungsten steel rotary blades, Solenoid head
Cutting precision	± 0.1mm
Cutting tracking	Single eye mark/double eye marks/ QR by CCD
Slitting system	10~310mm interval, default 4 units (max. 15 units), 0.1mm
Machine size (L x W x H)	1600 x 1000 x 1360mm (1920mm L including conveyer system)
Machine weight	Approx. 520kgs
Power supply	110-127 or 220-240 VAC, 50-60HZ, 1000WATTS
Warranty	13 month after shipment (except for consumables parts)
Included	Web guide, Laminator, Waste removal, Collecting conveyer
Options	Chopin-350 roll to sheet inline cutter Laminating film back-liner rewinder Slitting system with rollers + waste separator / 2nd rewinder CCD Camera vision system / Backscoring system for easy-peel



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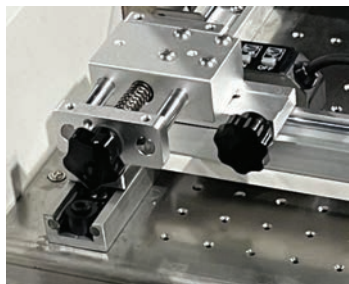
CHOPIN - 350

Compact Roll to Sheet Cutter for DUOBLADE SX, DUOBLADE SF, DUOBLADE WS and DUOBLADE NS
Stand-alone operation is possible with optional big roll unwinder module (CHOPIN-350L model).

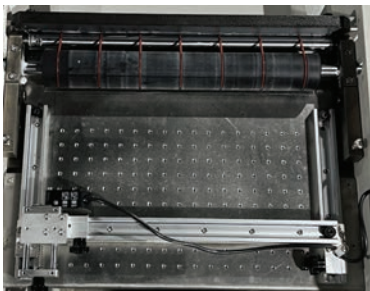


FEATURES

Specially designed compact sheet cutter for DUOBLADE series label finishers



Chopin-350 supports gap sensing, mark sensing, color sensing and no mark modes (repeat length). Panasonic LX101 sensor enables accurate measuring of color for high speed cutting.



Vacuum plate holds the paper during cutting to prevent curling or wrinkling problems. X-Y position of sensor can be easily adjusted and additional precise Y position control knob is available to adjust cutting position during cutting.



Paper edge guide holds the paper for straight feeding without tilting.



Inline communication cable gives signal between DUOBLADE cutter and Chopin-350 for synchronization of cutting speed each other.



Offline roll to sheet cutting can be done with optional big unwinder unit (Chopin-350L model).



ON-DEMAND PRODUCTION OF LABEL & PACKAGE
IN RIGHT TIME, RIGHT PLACE & RIGHT QUANTITY



SPECIFICATIONS

Max. media roll diameter	450mm
Cutting media width	40-350mm
Max. cutting length	700mm
Max. cutting speed	150 sheets / min (for 5cm length labels)
Registration control	Mark/Color/Gap measurement by Panasonic LX101 sensor, No-mark Repeat length
Grouping	Define cut number for a group and buzzer will be alarmed in each group finishing
Cutting technology	With tungsten steel guillotine blade
Cutting precision	± 0.1mm
Skipping of tracking	Possible with adjusting repeat length and mark area to determin where to watch
Automation	Speed synchronization between die cutter and sheet cutter by communication cable
Machine size	670 x 460 x 915mm (W x D x H)
Machine weight	Approx. 100kgs
Power supply	100-240V AC 50-60HZ, 500WATTS
Warranty	13 month after shipment (except for consumables parts)
Options	Big roll unwinder (Chopin-350L model)



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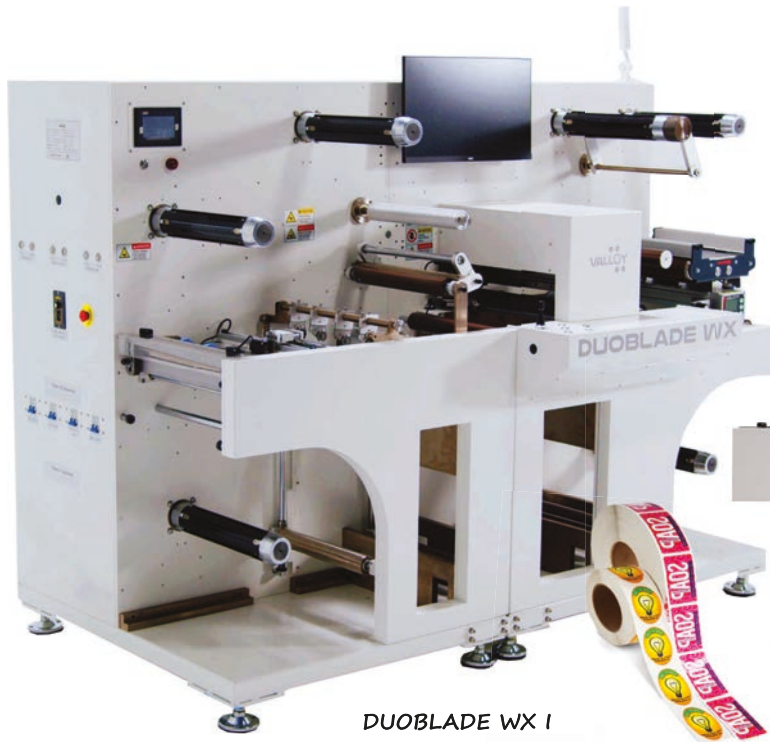
ON-DEMAND PRODUCTION OF LABEL & PACKAGE
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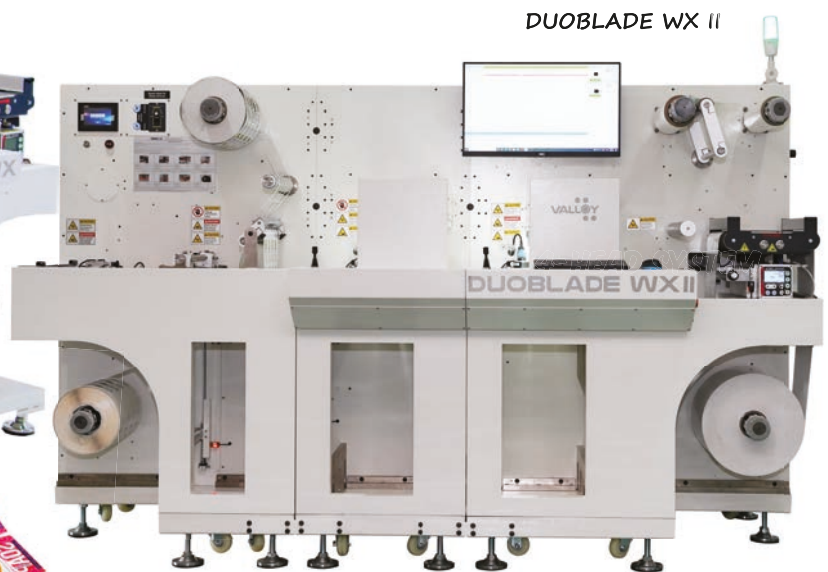
BEST SUBSTITUTION FOR LASER CUTTER TO SATISFY BOTH OF QUALITY & SPEED

DUOBLADE WX I / WX II

Digital label finishing market leader with serving hundreds of digital label press users world wide now
**4 - 12 CUTTING HEADS / 1 OR 2 STATIONS / AUTOMATIC JOB CHANGE BY CCD / ALL IN ONE SYSTEM
/ SUPPORTING ROLL TO ROLL AND ROLL TO SHEET / HIGH LEVEL AUTOMATION WITH INTELLIGENCE**



DUOBLADE WX I



DUOBLADE WX II

FEATURES

Chosen by Digital Label Press Vendors for the Best Package of Finishing Process



Multi-head system with automatic head-distance control by CCD QR detection, fast speed movement by non-contacting type actuator



Embedded inline sheet cutting control system with vacuum plate, guillotine blade and collecting tray



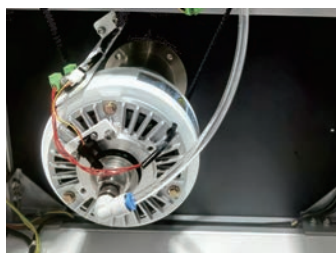
Heated matrix removal roller system with temperature control for easy separation of strong-glued labels



Matrix removal system with roll and blade separator with angle arm for stable operation



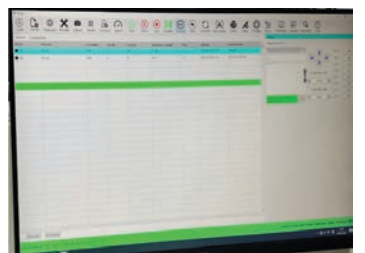
Strong X-Y driving by using thick lead screw actuators for heavy duty fast driving



Fully automatic magnetic-powder tension break and magnetic rodless cylinder type pneumatic tension control system



Embedded PC and monitor to ensure pre-setting of SW and related resources



AI-Cut software is installed for automatic job change with head distance control and hot-folder (job counting and time estimation)



ON-DEMAND PRODUCTION OF LABEL & PACKAGE
IN RIGHT TIME, RIGHT PLACE & RIGHT QUANTITY



ROLL TO SHEET



ROLL TO ROLL



SPECIFICATIONS

Max. media roll diameter	450mm	MODEL	WX I	WX I MAX	WX II	WX II MAX
Cutting media width	210-350mm	NO. OF STATION	1	1	2	2
Max. label width	330mm	NO. OF HEADS	4	6	8	12
Label length	Min. 10mm ~ Max. 600mm (1.2m length by extension, 4m length by multi-cut option)					
Min. distance between heads	42mm					
Laminating roll diameter	Max. 250mm					
Waste roll diameter	Max. 300mm					
Compatible file format	PDF, PLT, DXF (Driven by AI CUT S/W)					
Cutting speed	10m/min (7cm x 15cm x 4 rows of rectangles) for WX I, 20m/min for WX II					
Qty of heads	4 or 6 heads (10U knives and holders) for WX I, 8 or 12 heads for WX II					
Data connection	TCP/IP via internally embeded PC					
Die-cutting technology	Non-contacting type with tungsten steel rotary blades, Solenoid head					
Cutting precision	± 0.1mm					
Cutting tracking	Eye mark with job code (0000~9999) / QR by CCD or Black cut (Detection in 0.4s)					
Slitting system	10~330mm interval, 4 units default (max. 15 units), 0.1mm accuracy, max. 30m/min					
Machine size (L x W x H)	2080 x 1300 x 1640mm for WX I, 2510 x 1300 x 1640mm for WX II					
Machine weigth	Approx. 1200kgs for WX I, 1500kgs for WX II					
Power supply	110-127 or 220-240 VAC, 50-60HZ, 2000WATT					
Warranty	13 month after shipment (except for consumables parts)					
Included	Embedded PC with SW / Cold Laminator / Waste Removal / Job Counter / Slitter / Web guide / CCD Camera / Automatic Tension Control					
Options	Embedded sheet cutter / Laminating backliner rewinder / Heated waste strip roller / 2nd (UP) rewinder / Additional Slitters / Air compressor					



VALLOY Incorporated
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ON-DEMAND PRODUCTION OF LABEL & PACKAGE
IN RIGHT TIME, RIGHT PLACE & RIGHT QUANTITY



DUOBLADE NX8

Innovative revolution in digital knife die-cutter once again - auto-control of knife depth for each 8 head!
8 CUTTING HEADS / VISION DRIVEN KNIFE DEPTH SELF-CONTROL / 30% FASTER THAN DUOBLADE WX / FASTER CCD TRACKING SPEED / EMBEDDED PC WITH SOFTWARE / AUTOMATIC JOB CHANGE BY CCD

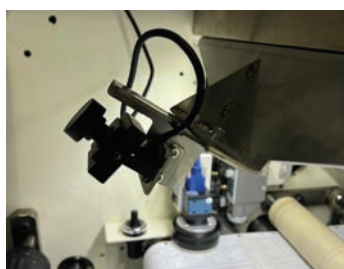


FEATURES

Successor of DUOBLADE WX but much more powerful and Intelligent



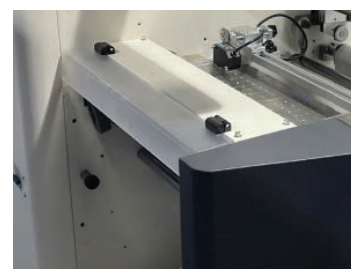
8-head system with automatic head-distance and knife depth control by CCD QR detection and matrix vision monitoring system



Matrix vision monitoring system to detect parts of weaker depth and adjust knife depth of each head automatically



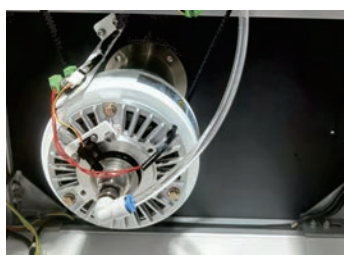
Heated matrix removal roller system with temperature control for easy separation of strong-glued labels



Embedded inline sheet cutting control system with vacuum plate, guillotine blade and collecting tray



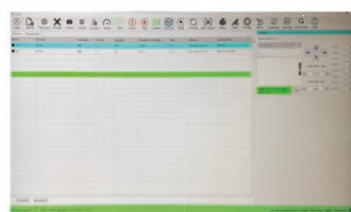
Strong X-Y driving by using thick lead screw actuators for heavy duty fast driving



Fully automatic magnetic-powder tension break and magnetic rodless cylinder type pneumatic tension control system



Embedded PC and monitor to ensure pre-setting of SW and related resources



New V.4.0 AI-Cut software is installed for automatic workflow with head distance/depth control, job change and hot-folder. (Customizable for other workflow)



ON-DEMAND PRODUCTION OF LABEL & PACKAGE
IN RIGHT TIME, RIGHT PLACE & RIGHT QUANTITY



DUOBLADE NX8



SPECIFICATIONS

Max. media roll diameter	470mm
Cutting media width	210-360mm
Max. label width	330mm
Label length	Min. 10mm ~ Max. 700mm (6000mm length by multi-cut option)
Min. distance between heads	32.5mm (new head)
Laminating roll diameter	Max. 290mm
Waste roll diameter	Max. 460mm
Compatible file format	PDF, PLT, DXF (Driven by V4.0 AI CUT S/W)
Cutting speed	12m/min (7cm x 15cm x 4 rows of rectangles)
Qty of heads	8 heads (10U knives and holders)
Data connection	TCP/IP with dual-lan card of embedded PC
Die-cutting technology	Non-contacting type with tungsten steel rotary blades, Servo motor head
Cutting precision	± 0.1mm
Cutting tracking	Eye mark / QR by CCD or Black cut (Detection in 0.03s)
Slitting system	10~350mm interval, 9 units default (max. 15 units), 0.1mm accuracy, max. 70m/min
Machine size (L x W x H)	2035 x 1340 x 1695mm
Machine weight	Approx. 1300kgs
Power supply	110-127 or 220-240 VAC, 50-60HZ, 2500WATTS
Warranty	13 month after shipment (except for consumables parts)
Included * air compressor is optional	Embedded PC with SW / Laminator / Waste Removal / Counting of jobs and length / Slitter / Web guide / CCD Camera / Automatic Tension Control
Options	Embedded sheet cutter / Laminating backliner rewinder / Heated waste strip roller / 2nd (UP) rewinder / Vision system for automatic knife depth control / Auto-stop by detecting labels on matrix



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ON-DEMAND PRODUCTION OF LABEL & PACKAGE
IN RIGHT TIME, RIGHT PLACE & RIGHT QUANTITY



DUOBLADE PETIT PRO

Compact but Powerful Table-Top Digital Roll Finisher, supporting Inline Printing with Automatic Job Change
DUAL CUTTING HEADS / ALL-IN-ONE SYSTEM / CCD CAMERA FOR AUTOMATION / INLINE PROCESS



FEATURES

Fully automatic inline printing and finishing in table-top scale



All-in-one complete solution with lamination, die-cutting, matrix removal, slitting and rewinding together



CCD camera enables fast mark detection for accurate registration and automatic job change by reading job code or QR code.



Automatic head distance adjustment by lead screw according to different designs



Automatic tension control for unwinder and rewinder with dancing arms



Dual-head system for doubled speed of multi-column designs.



Laminating unit for anti-scratch and better quality of labels



Inline slitting system with round blades - max. 8 units installable



Mini AI-Cut software for automatic head distance control, job change and hot-folder function



ON-DEMAND PRODUCTION OF LABEL & PACKAGE
IN RIGHT TIME, RIGHT PLACE & RIGHT QUANTITY



SPECIFICATIONS

Max. media roll diameter	290mm
Substrate roll width	80-240mm
Max. label width	230mm
Label length	Min. 10mm ~ Max. 300mm (2000mm length by multi-cut option)
Min. distance between heads	30mm
Laminating roll diameter	Max. 230mm
Waste roll diameter	Max. 300mm
Compatible file format	PDF, PLT, DXF (Driven by MINI-AI CUT S/W)
Cutting speed	8m/min (15cm length x 2 rows of rectangles)
Qty of heads	2 heads (09U knives and holders)
Data connection	TCP/IP with outer PC
Die-cutting technology	Non-contacting type with tungsten steel rotary blades, Solenoid head
Cutting precision	± 0.1mm
Cutting tracking	Eye mark / QR by CCD or Black cut (Detection in 0.4s)
Slitting system	10~240mm interval, 4 units default (max. 8 units), 0.1mm accuracy, max. 12m/min
Machine size (L x W x H)	910 x 630 x 740mm
Machine weight	Approx. 120kgs
Power supply	110-127 or 220-240 VAC, 50-60HZ, 1000WATTS
Warranty	13 month after shipment (except for consumables parts)
Included * No need of air compressor	Cutting Software / Laminator / Waste Removal / Counting of jobs / Slitter / CCD Camera / Automatic Tension Control
Options	Chopin-350 sheet cutter / Laminating backliner rewinder / EPSON-Memjet inline connection module



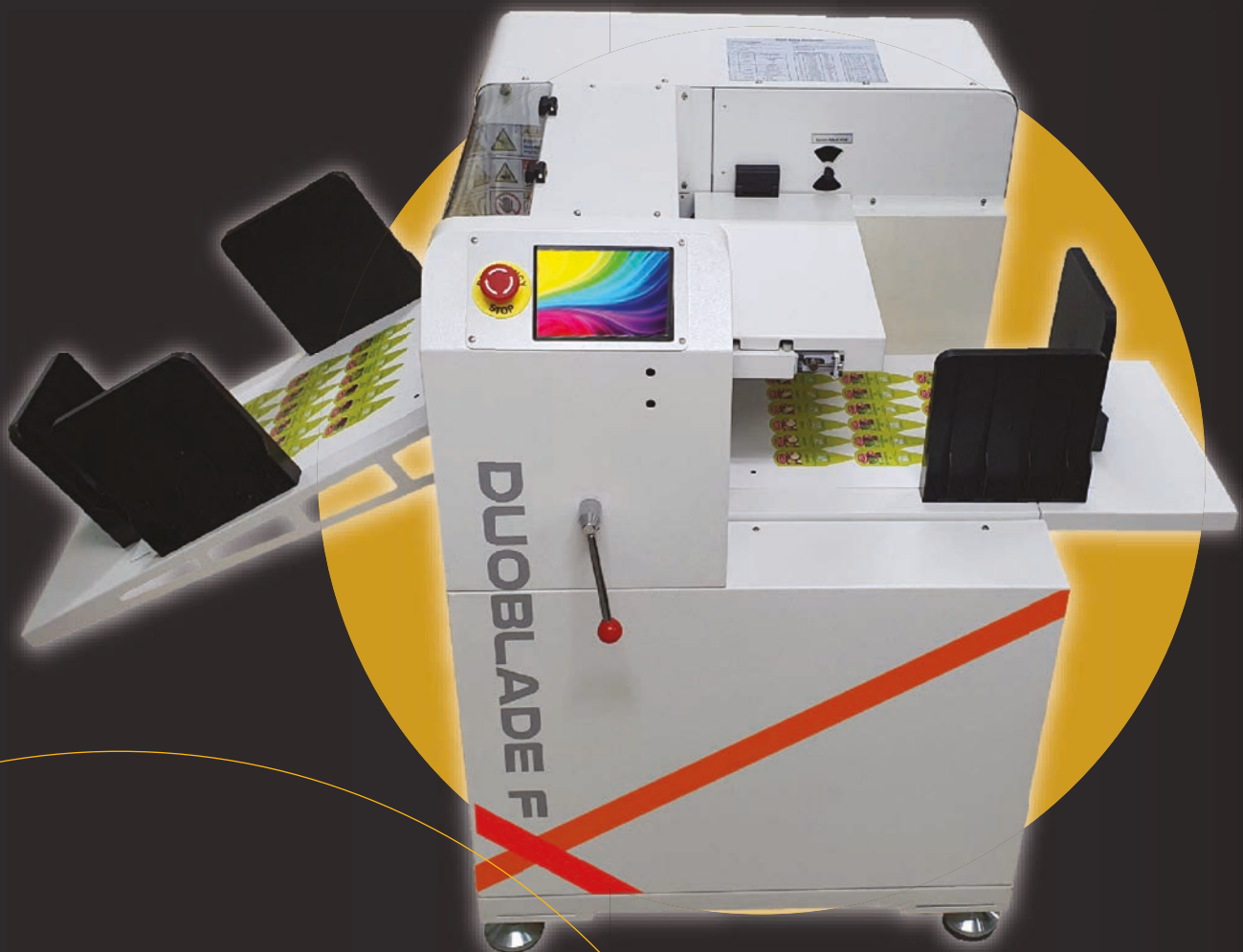
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Digital Sheet-Craft Experiancer

DUOBLADE **FX**

Booting it up and feel dynamic motion in GUI with a sound. Make your design to be printable with automatic inserting of marks and QR codes - Cutting files will be synchronized with the machine in real time, without limitation of numbers. Hooray, just stack the sheets then it cuts and creases in auto! It feeds, senses marks, identifies, select tools, adjust by itself. Your stickers, tags, toppers and boxes will be instantly ready.



SHORTCUT FOR DESIGN TO PRODUCT



Tiny stickers for nail, diary,
notebook or suitcases.
Folding boxes and tags
with creasing or perforation.
Toppers for travels or cakes.
Your creativity comes true...

- ✓ RICH MULTIMEDIA
- ✓ AUTO JOB CHANGE
- ✓ AUTO OPTIMIZATION
- ✓ 1000+ JOB STORAGE
- ✓ FULL/HALF AT ONCE
- ✓ FULL/CREASE AT ONCE
- ✓ 2X SPEED DUAL-HEAD
- ✓ AUTO PREFLIGHT
- ✓ 1000 SHEETS STACK
- ✓ QR/MARK INSERT
- ✓ DASHES AND NICKS
- ✓ BLACK-CUT BACK-CUT
- ✓ WIFI CONNECTION
- ✓ PERFECT-CUT PATENT
- ✓ PREDICT KNIFE LIFE
- ✓ TUNE KNIFE ANGLE
- ✓ TRUE SIMULATION
- ✓ REMOTE CONTROL

PERFORMANCE	FUNCTION
Max. paper size up to 340mm x 630mm	Different or same tools installable to double heads
Stacking 200mm thick papers (30KGS weight)	Supporting Full-cut, Half-cut, Full-cut, Creasing, Pen
Importing PDF and AI design files	Felt type cutting Pad
Output cut file as VDF - Dynamic Velocity Bezier Curves	Ball-point pen type creasing tool
Max. Speed is 1000mm/s	Simultaneous Half + Full cutting
Max. cut thickness is 350μm (09U knife), 450μm (15U)	Simultaneous Full-cut + Crease
Mark + QR scan time takes 7 seconds	Adjustable repeats of creasing for deeper fold line
Margin Loss is 15mm top/bottom, 5mm left/right	Double speed by dual cutting (fullcut or halfcut)
Auto mode and manual mode available	Automatic conversion of dash lines
AUTOMATION	Automatic insertion of nicks in full-cut lines
CCD camera vision system for automatic job change	Advanced cutting quality by dynamic pressure curves
QR code recognition by CCD camera	QUALITY
4-Mark detection by CCD camera	±0.025mm cut repeat accuracy
Edge and corner detection by both of sensor and CCD	Computing of true simulation for real moving path
Automatic calibration by CCD camera	Keeping same knife drag angle at each starting point
Connection by LAN or WIFI	Forced starting angle adjustment by temporary cut
Automatic data synchronization with PC	Uring 4 marks or 4 corners for registration mapping
Supporting offline USB data without PC	Segmentized control of dynamic velocity/acceleration
MECHANICS	Optimization of sequence, starting point, orientation
X motion driven by double full-pressing rollers	CONVENIENCE
Y motion driven by Megadyne belt and pulley	Preflight to detect and correct design errors
X motion driven by solenoid head (Max.1000 gf)	Accurate operation time estimation by simulation
Feeding up driven by elevator and height sensor	Multiple function in a job by layer separation
Feeding in driven by vacuum belt and paper sensor	Accurate knife lifetime calculation practically
Preventing double-feeding by air and silicon stopper	Embedded help menu is available in multimedia
Air blowing power and vacuum power are adjustable	Self-diagnosis mode is available
Paper Jogging setting for advanced feeding control	Foldable and angle-adjustable collection tray
Automatic print PDF creation with inserting Mark + QR	Seamless brightness control of camera LED light
SPECIAL FEATURE	INTERFACE
No mark mode for blank cut	No additional cabling is required for live cam view
Automatic cut file generation for backscoring	Rich MMI with Touch Screen (7") + Stereo Sound
Remote control by PC and mobile	Movie guides and motion effect are playable
Corner sensing instead of mark sensing when required	Virtual keyboard is available in GUI
Backward belt movement at run to prevent wrinkles	Different GUI themes are available in option
* Size and weight : 1080*900*1280mm 1,244 CBM / GW: 230 (Approx.) NW: 210 (Approx.)	

Valloy's unique patent registered PERFECT-CUT algorithm is world first and best simulation for true path of dragging knife with handling huge data of each segmentized bezier curve and generating dynamic curves of pressure, speed and acceleration in each inflection point at 2048dpi resolution in virtual digital twin.

Just bring your design PDF and DUOCONV™ software will map layers for different jobs like fullcut, halfcut, creasing, perforation and pen. Preflight will correct source to generate error-free output.

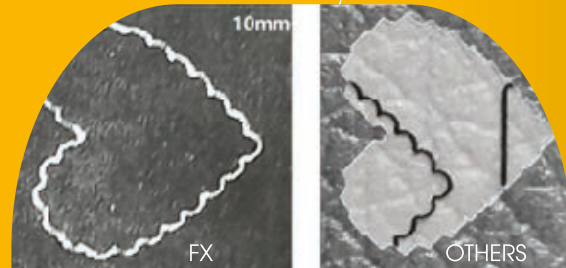
Print PDF file is generated with QR and marks automatically and cut files are synchronized with the cutter in 50GB storage.

Optimize cutting sequence and it finds where to start cutting by analysing current knife angle in each object. If there's no point of the same knife angle in next object, it jumps and drags in blank to adjust angle.

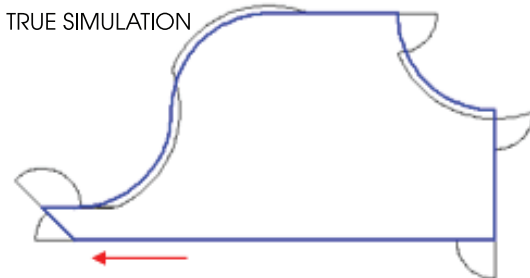
Simply stack your prints then it starts vacuum belt feeding with jogging to prevent jams. Camera scans marks and QR in 7 seconds to start production. Computer inside guarantees the best output by optimizing pressure, speed, knife angle...

There's no mark? Don't worry. It uses paper corners instead. Change tools following the guide message on the screen.

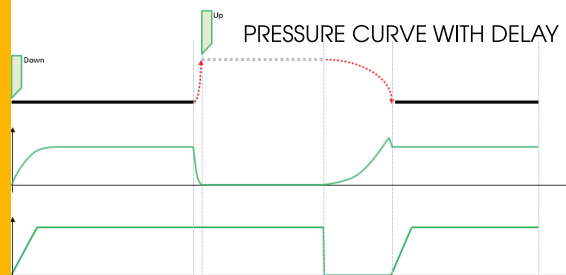
PERFECTCUT®



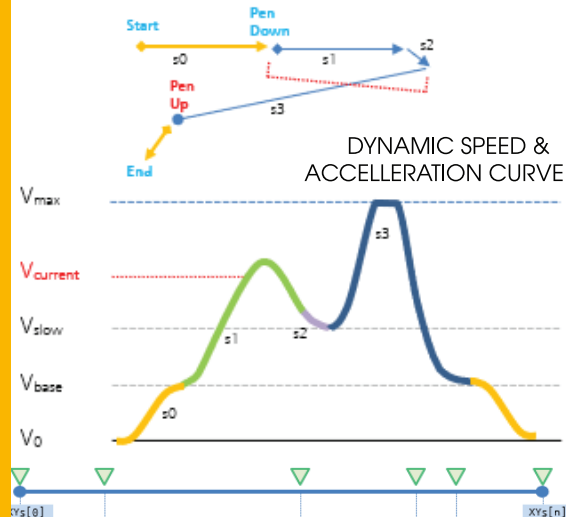
TRUE SIMULATION



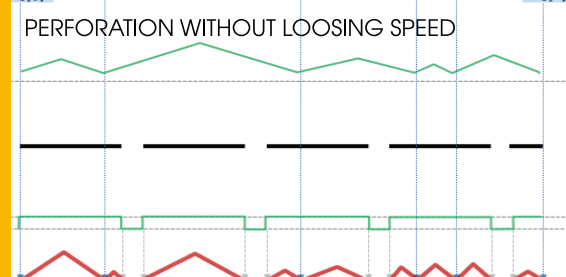
PRESSURE CURVE WITH DELAY

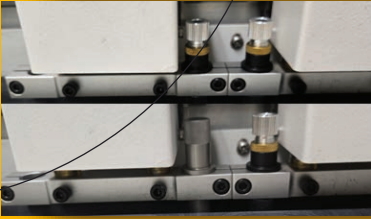


DYNAMIC SPEED & ACCELERATION CURVE

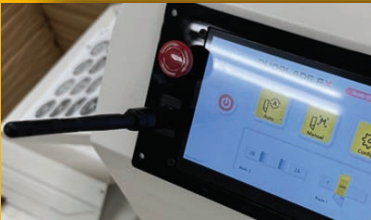


PERFORATION WITHOUT LOOSING SPEED





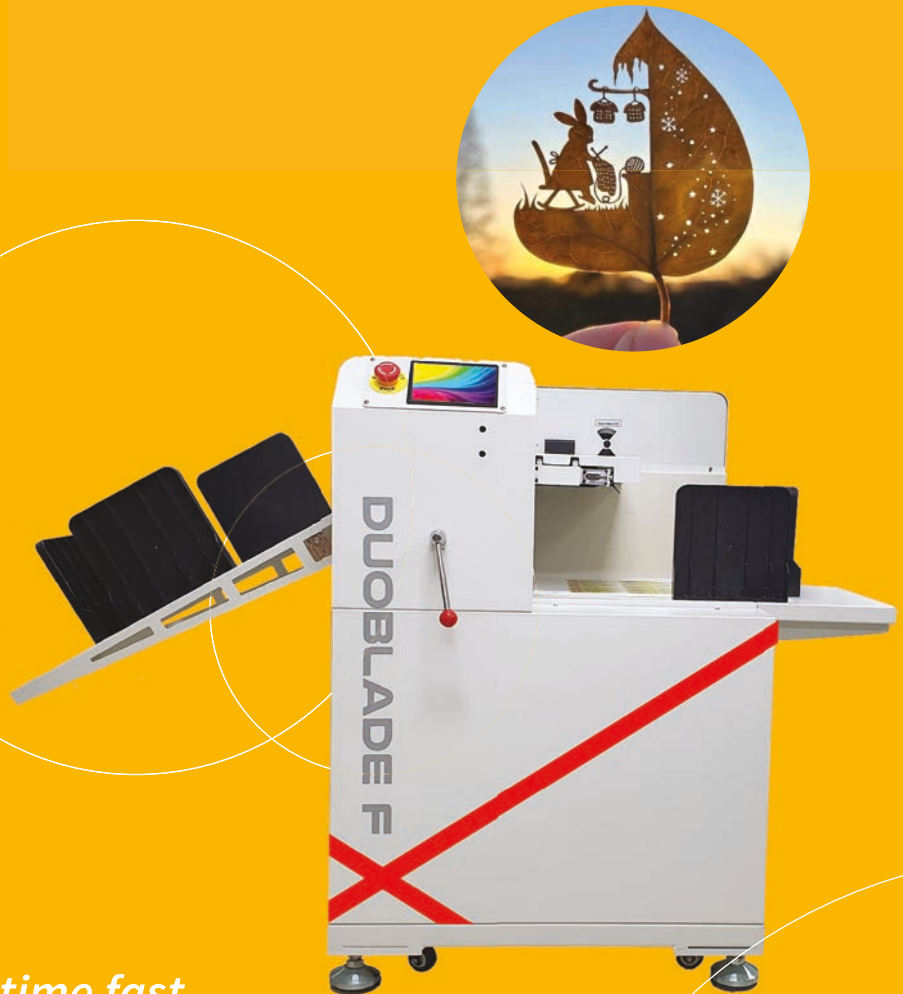
DUAL HEAD FOR DOUBLE SPEED
OR DIFFERENT PROCESSES AT ONCE



WIFI CONNECTION AND RICH GUI
WITH MOTION GRAPHICS & SOUNDS



REMOTE ACCESS AND CONTROL FROM
COMPUTER OR MOBILE ANYWHERE ON NET



*Everytime correct, Anytime fast.
It calibrates registration in 3D mapping by 4 marks or corners.
It adjusts optimal setting for the best performance by dual-head.
Find difference in details and expand your expression.*



Make your sticker with halfcut inside and fullcut outside without using additional die cut process. Make blank labels accurately without any printing. Make back-scoring for easy-peel labels. Crease deeper. Perforate denser. And feel how easy it can be...

DUOBLADE FX aims to give
Fun eXperience in your craft

Contact Us

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Website: www.valloy.com

 youtube.com/supportvalloy



F&P

FAPER, *Gathering the advantages of paper and film*



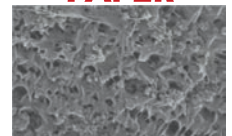
Feature of **FAPER**

- **FAPER** is a new material with 65% microporous porosity which is a composite of polyofin matrix and silica.
- **FAPER** is used for Passports in more than 50 countries and driver's license in more than 25 countries
 - ▶ It can be written by pen or fountain pen and it does not be erased by water or alcohol and scratch.
 - ▶ It can be printed by any printer types like inkjet, laser, offset, screen printing, etc. High UV stability.
 - ▶ It cannot be erased easily and even though it is creased, it does not be damaged.

Polymer Network + Silica



FAPER



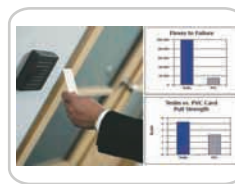
- ▶ Thanks to very good bondability, it is easy to make cards of the size and shapes as required.
- ▶ You can make name cards, ID cards, key holder, etc. as many as you want on the spot.
- ▶ It is excellent to use as name label because it can be washed and also put in microwave or can be stored in refrigerator or freezer.

Advantages of **FAPER**



Outstanding printability

Thanks to great ink absorptiveness, it can be printed on double side with inkjet, laser, offset and screen printing machines with high printing quality.



Strong bondability

When laminating by bonding, it can make 9 times stronger cards than PVC cards, and it can do hot gluing on synthetic material without bonding.



Physical durability

It does not tear easily and it is strong in scratch and printing data is protected even it is wet. It is stable when keeping material for longer time in stock.



Excellent processability

It has an excellent processability in various ways such as die-cutting, punching, heat-coating, folding, bonding, sewing, embossing, painting etc. And it is easy to produce In-mold.



Chemical durability

It does not damage the material or erase its contents, even with water, alcohol, acetone and other strong acidity and alkalinity. BS5609 certified (3 month saltwater durability).



Other specifics

It can be used safely in electronic or electric products by anti static function. When producing RFID inlay, it protects chip and antenna by cushion effect. It is used also for perfume and air freshener.



Thermal durability

It can be used in low and high temperature environment from -70 °C to 180°C. In 200°C it can withdraw for 30 minutes. When the Media is burned it leaves only ashes without smoke.

Specifications BS5609 / EN71 / FDA

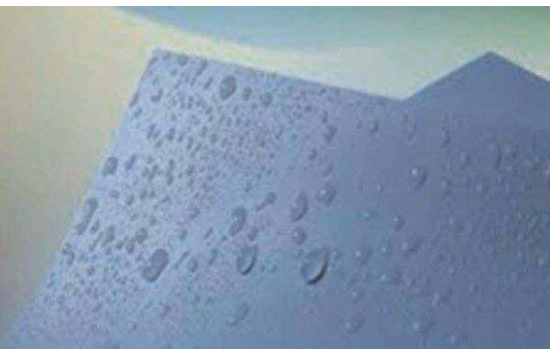
- SP1000 : 0.254 mm, 167g/m²
- SP700 : 0.178 mm, 115g/m²
- SP700 Label : bs5609 certified
- Possession of FDA certified item, biodegradability item



ZIO FAPER

Eco-friendly alternative paper to protect the forest and water resources of our world

WATERPROOF - SCRATCH & TEAR RESISTANT - ENVIRONMENTALLY FRIENDLY



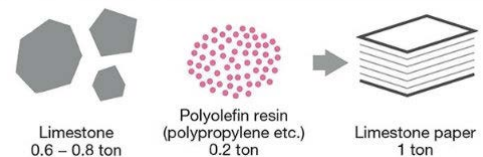
Characteristics of ZIO FAPER

- **ZIO FAPER** is a new material made mainly from limestone, that be used as an alternative to paper or plastic.
- **ZIO FAPER** requires almost no water and no trees, and therefore is able to contribute to saving precious natural resources. And it has high water resistance and tear resistance, enabling comfortable use in outdoor conditions.

PRODUCTION OF 1 TON PAPER



PRODUCTION OF 1 TON **ZIO FAPER**



Strength of ZIO FAPER



RECYCLE & UPCYCLE

The main ingredient, limestone, is a highly sustainable resource commonly found anywhere in the world and can replace paper or plastic.



SUSTAINABILITY

Used **ZIO FAPER** -products can be pulverized, pelletized and upcycled into products of higher value (unlike recycling paper into recycled paper). This upcycle process can be easily performed at local plant.



ECO FRIENDLINESS

ZIO FAPER has high water resistance and tear resistance, enabling comfortable use in outdoor conditions. It is safe when keeping the printing longer or using it in poor environment.



EXEPTIONAL DURABILITY

While conventional paper requires massive amounts of water and trees to produce, production of **ZIO FAPER** uses no water or fiber -based pulp, and emits less CO2.



EXCELLENT PRINTABILITY

ZIO FAPER is produced in various thickness from 80mic to 400mic. It is divided into soft grade, hard grade and translucent grade. It is produced as roll or sheet.



VARIOUS GRADES

ZIO FAPER is compatible with laser toner, UV and Latex inkjet printer. It is also suitable for UV offset printing. There is also a model for Indigo aqueous toner. It is possible to write down in pencil or pen.



ZIO FAPER
is free of microplastics and helps to keep the seas clean!

SPECIFICATIONS

- * White soft: 0.08mm, 0.15mm, 0.20mm, 0.30mm, 0.40mm,
- * White hard: 0.40mm
- * Semi translucent: 0.20mm
- * Adhesive for labelproduction



VALLOY INCORPORATED

WE COLOR DIGITAL

We lead innovations in digital visualizations and industrial inkjet applications

1 COVER
0.5 LITER

BY ONE COVER SHEET OF THIS CATALOG USING ZIO-PAPER
WE COULD SAVE ABOUT 0.5 LITERS OF WATER EVENTUALLY

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