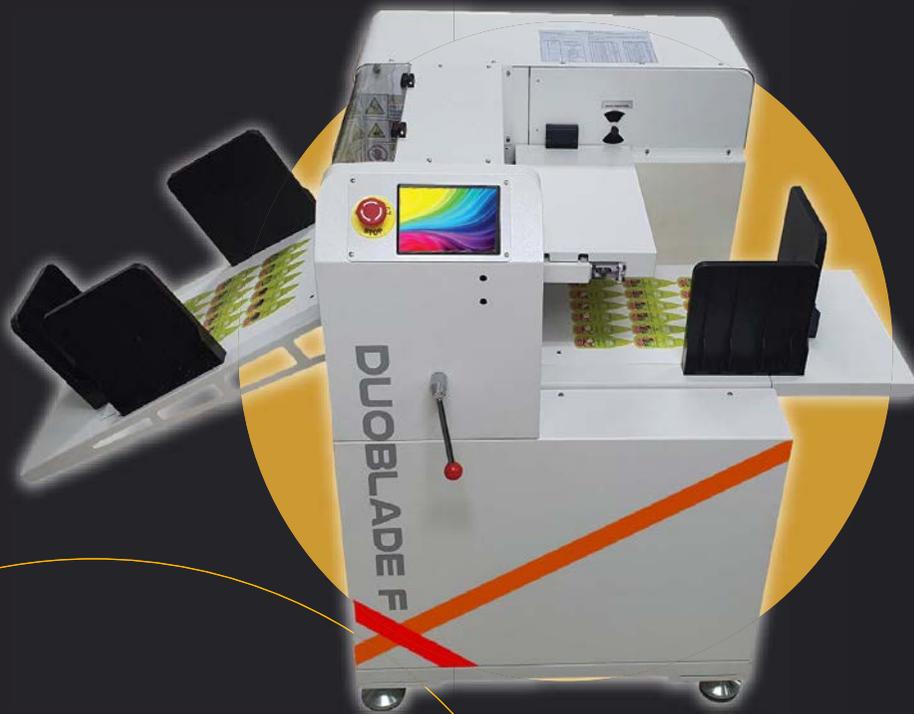


Digital Sheet-Craft Experiancer

# 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, selects tools, adjusts by itself. Your stickers, tags, toppers and boxes will be instantly ready.



## SHORTCUT FOR DESIGN TO PRODUCT

- ✓ 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



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...



PERFORMANCE	FUNCTION
Paper Size 340mm x 630mm	Head 2 tools in double heads
Capacity 200mm thick stack (30KGS)	Tools Half-cut, Full-cut, Creasing, Pen
Cut file format Dynamic Velocity Bezier Curve	Full-cut Yes
Max. Speed 1000mm/s	Cutting Pad felt
Max. Thickness 350µm (09U knife), 450µm (15U)	Creasing ball-pen type
Mark scan time 7 sec	Half + Full cutting Yes with self-driven 2nd head
Margin Loss 15mm top/bottom, 5mm left/right	Full-cut + Crease Yes
Operation mode Auto/Manual	Dual Cut (full/half) Yes with self-driven 2nd head
Job management Task list (selected) & data list (all)	Dash line Auto-convertable in S/W
<b>AUTOMATION</b>	Nick for full-cut Independent setting in S/W
CCD camera Yes	Dash/Nick driving Dynamic pressure control
QR code File name (no limitation)	<b>QUALITY</b>
Variable job Yes	Accuracy ±0.025mm
Calibration Automatic by Camera	knife drag angle forced angle adjustment
Connection Lan / WIFI	Starting point knife-angle adaptive position
Data sync with PC Automatic Synchronization	Marks 4 rectangle marks (4x4mm)
Offline USB data Yes	Mapping 3D distortion mapping
<b>MECHANICS</b>	Acceleration Different curve in each segment
X motion Double full-pressing rollers	Path Optimization Sequence, Start pt., Orient., Acc.
Y motion Thick Megadyne belt and pulley	<b>CONVENIENCE</b>
Z motion Elevator + Static vacuum belt	Preflight Powerful pre-flight in editor S/W
Airblade blowing adjustable	Time estimation Yes
Feeder trigger adjustable	Job separation by layer
Vacuum power adjustable	Lifetime estimation Auto-tracing of knife lifetime
Paper Jogging Yes	Embedded help Embedded Help and Movie guide
Insert Mark/QR Automatic in Editor program	Self Diagnosis Yes
Max. Pressure 1000 gf	Correction tray Foldable, angle adjustable
<b>SPECIAL FEATURE</b>	Camera light Seamless brightness control
Blank cut Registration by sensing 4 corners	<b>INTERFACE</b>
Upside-down N/A	Camera live view No additional connection
Backside cut Registration by sensing 4 corners	MMI Touch Screen (7") + Stereo Sound
Remote control by PC and Mobile	Movie Player Movie guides and motion effect
Facing error Try sensing corners before abort	Virtual Keyboard Available on LCD
Anti-wrinkle Belt-backward moving at cutting	GUI Themes available

\* 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.

## PERFECTCUT®

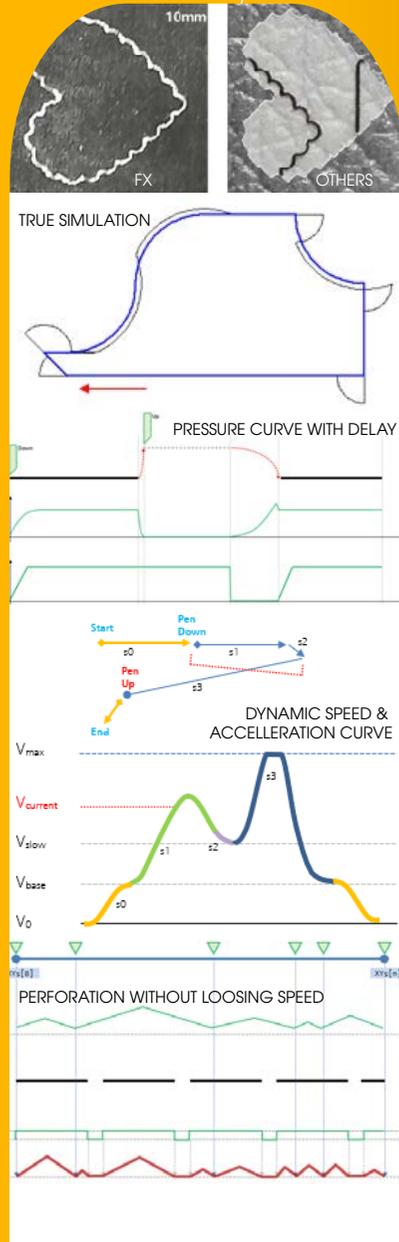
Just bring your design PDF and DUOCONV™ software will map layers for different jobs like fullcut, halfcut, creasing, perforation and pen. Preflight will correct source to generate error-free output.

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

Optimize cutting sequence and it finds where to start cut 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 6 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.



WE COLOR DIGITAL



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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