DYSS Apollo UV series & X7 digital cutting series..

Seamless print & cut solutions....

Apollo RF250	Apollo Hybrid 160/220/260	X7 digital cutter
		

Production systems borne out of years of experience in the digital printing, signage and screenprint industries.
Printer and Cutter can be installed as a complete matched DYSS turnkey solution.
As separate units to enhance and streamline existing installations.

Efficient solutions drive the market and increase profitability

Instore signage	PET, PEP (polypropylene), display card and shelf cling window displays, contour cutting, drilling holes and fixing points.
Floor graphics	From heavy duty outdoor tarmac graphics to plastic floor mats or laminated and adhesive backed vinyls, through cut or kiss cut.
POP-UP displays	Penguins, roll up banners, cut straight consistent edges to exact dimensions.
Vehicle Graphics	SAV and PSV for vehicle warps, decals or fleet graphics, kiss cut and through cut in one simple process.
Cardboard engineering	Brochure holders, boxes, presentation systems, shelf displays, instore or cinema display stands, using the oscillating knife tool, cutting, creasing and scoring tools.
Illuminated displays	Acyclic, plastics, SAV, PSV or backlite materials for high quality, small format static display, scrolling light boxes or large format displays, precision routing, through and kiss cutting all on one machine with no tool changes.
Engineering solutions	Dibond or alluvium displays, composite materials for engineering applications, gasket materials. Specialized applications are approached laterally and with ease.
POS / POP Displays	Lightweight Foamcore, Foamboard, Foamex, Forex, Sintra, display card, heavy duty knife or the 1 Kw router for heavier weights, contour cut, drill holes.
Presentation folders	Printed card and polypropylene, cutting creasing and scoring for prototype and short run.
Textile and flags	Flexible porous fabrics, flags, roll up banner and long rolls can be cut simply using the continuous feed system and i-cut® for fast, precise and accurate finishing.
MDF and wood	laminates, tables, dividers, hard and soft woods, routing, profiling, drilling, bevelling and shaping for structures, prototypes

DYSS

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• All models are subject to change without notice for higher performance and improvement.

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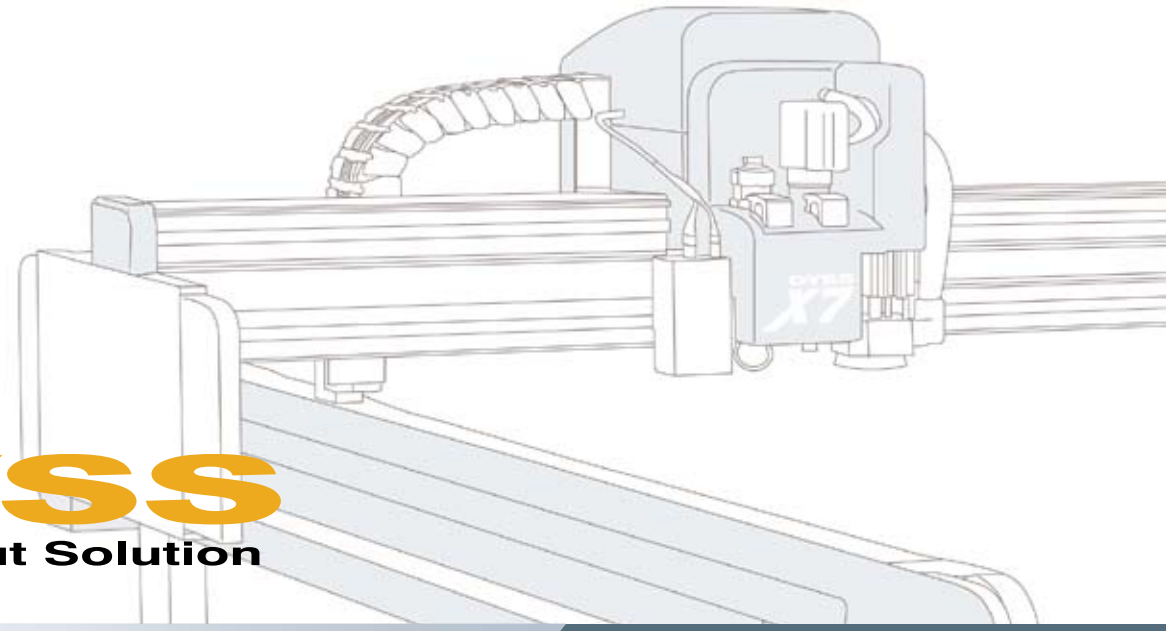
www.dyss.com

Click DYSS to create digital printing and finishing workflow !!



DYSS

Print & Cut Solution

- Printing and Cutting solutions from a top 'Solutions' engineering Company
- Industrial quality and design giving years of reliable service
- Build quality that speaks for itself
- Versatile design and high productivity
- Efficient workflow

Realizing the Spirit of Colour

DYSS Apollo UV Direct to Media printer series

Cutting edge digital finishing for maximum productivity

DYSS X7 cutter series

DYSS
Print & Cut Solution

DYSS are established leaders in the design and manufacture of systems for the Industrial Screenprint Market. With many years experience in designing, installing and supporting industrial production based systems, **DYSS** now bring this experience to the Digital Printing Market.
Two ranges of professional production systems exist where workflow and productivity have been the driving force behind development. UV Direct to Media Printing in two versatile designs and the all new X7 Digital Cutter Series.
Printer and Cutter can be installed as a complete matched turnkey solution or as separate units to enhance and streamline existing installations.

Click DYSS for your digital workflow

Producing high quality rich color prints is simply using either our custom Rip Solutions or ONYX Production House, which is a world leader in Rip solutions for wide format printing. Custom color profiles are specially matched to our tough flexible high color UV inks.

Our **DYSS** digital finishing systems provide the complete package. Both our hardware and software streamlines your digital process and output. We have not only created the most sophisticated and advanced hardware, we also have produced the integral component... the software option that lets all the pieces communicate and work together.

Whether you are using one of the **DYSS** UV Direct to media printers or simply installing the X7 Digital die cutter alongside existing printers, you will find the right workflow solution with **DYSS**.
DYSS DYSS utilises the proven i-cut™ vision registration system or OptiSCOUT™ by EUROSYSTEMS, an established and world leader in optical registration systems.

PREPRESS & RIP

PRINTING

FINISHING

Apollo UV Flat bed **RF250**

DYSS print & cut solution

The right way to integrate quality & productivity

Automating the print process is everybody's ideal; no longer having to manually load and handle boards and print panels. The **RF250** is a one stop solution, automatic loading with optional board feeder and printing consecutive sheets. Following the same proven modular design and stability of the X7 cutter, the **RF250** provides a solid and ergonomically designed platform for your production needs.

Easy and convenient sliding draw construction to access ink and control systems.

Versatile proven design of printing head assembly, easy access

Registration pins to accurately locate rigid sheets time and time again

Register pins are hidden from view when not in use – air driven power

Conveyor belt for continuous feed of material

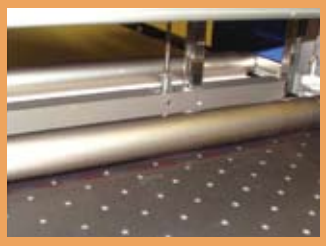
Variable controlled vacuum

Apollo UV Hybrid Series
R160/220/260

Apollo... Realizing the spirit of color
Industrial UV Direct to Media Printing

The Hybrid design of the Apollo series gives a compact and versatile printer available in a range of different widths to suit all needs. Precision indexed belt drive system combined with many years of practical experience in digital printing have all led to an easy to use and extremely well thought out printing system.

One of many features is the use of white print heads which are offset – a very high density white is laid down immediately after the color has been printed. This means white and color are printed at the same time optimizing print time.



Automated multiple bar clamping system for small sheets to the width of printer by almost any length.

Pin Register System for single or step and repeat multiple boards

Heavy duty industrial design with idle bar for continuous roll production

Pop-up extension table for handling small boards and short rolls of flexible materials – no waste on roll media.

Euroblue Spanish Tangerine

Key Features

- Choice of four models, Apollo R160, R220, R260 and flat bed RF250 (R320, 3.2m bed size available according to customer request)
- 10-40 sq mtrs(100-400 sq.fts) an hour printing speed
- Edge to edge, end to end or bleed printing is available
- Step and repeat and multiple board handling
- Optional 4 or 6 color plus white/varnish
- Auto sensing of media thickness
- Print head technology allows for higher head settings-safer
- Precision indexed belt drive system
- Multiple selectable vacuum zones
- Front or rear loading-flexibility
- Offset print heads for white – one operation printing
- High density white
- 2 years warranty on mechanical parts and electrics

Specification (*1)

<table>
<tr><th colspan="2">Model</th><th>Apollo UV R160</th><th>Apollo UV R220</th><th>Apollo UV R260</th><th>Apollo UV RF250</th></tr>
<tr><td colspan="2">Printing Head</td><td colspan="4">Piezo Drop on Demand (15pl)</td></tr>
<tr><td colspan="2">Resolution</td><td colspan="4">Real 300 or 600dpi</td></tr>
<tr><td rowspan="2">Printing Speed(*2)</td><td>Production</td><td>16~33m2/h (160~330sqf/h)</td><td>19~38m2/h (190~380sqf/h)</td><td>20~40m2/h (200~400sqf/h)</td><td>20~40m2/h (200~400sqf/h)</td></tr>
<tr><td>High Quality</td><td>10~20m2/h (100~200sqf/h)</td><td>11~22m2/h (110~220sqf/h)</td><td>12~24m2/h (120~240sqf/h)</td><td>12~24m2/h (120~240sqf/h)</td></tr>
<tr><td rowspan="6">Media</td><td rowspan="2">Roll media</td><td>Max. width
1590mm(62.6inch)</td><td>Max. width
2190mm(86.2inch)</td><td>Max. width
2590mm(102inch)</td><td>Max. width
2500mm(98.4inch)</td></tr>
<tr><td colspan="3">350mm(13.8inch) roll diameter</td><td rowspan="2">No limit</td></tr>
<tr><td>Roll media core</td><td colspan="3">76mm (3inches) core</td></tr>
<tr><td rowspan="2">Rigid media</td><td>Max. width
1600mm(63inch)</td><td>Max. width
2200mm(86.6inch)</td><td>Max. width
2600mm(102.4inch)</td><td>Max. width
2500mm(98.4inch)</td></tr>
<tr><td colspan="3">Max. length 2500mm(98.5inch)
(with extra extendible media table at the rear)</td><td>Max. length
1300mm(51.2inch)</td></tr>
<tr><td>Thickness</td><td colspan="2">MaX. 65mm(2.56inch)</td><td colspan="2">Max. 76mm(3inch)</td></tr>
<tr><td>Load capacity</td><td colspan="4">Max. load capacity 20kg/sq.m</td></tr>
<tr><td colspan="2">Media types</td><td colspan="4">Roll PVC, Banner, SAV sheet, Rigid PVC sheet, Collgated board, Wood, Glass,Foam board,Acrylic,PP, PS, PC etc.</td></tr>
<tr><td colspan="2">Operating System</td><td colspan="4">Window XP Professional, Color Print Rip (Optional Onyx Production House),
PCS with USB 2.0, HMI PLC S/W</td></tr>
<tr><td colspan="2">Image Formats</td><td colspan="4">General graphic format, Post scripts,TIFF, EPS, PDF, JPG etc.</td></tr>
<tr><td colspan="2">Ink</td><td colspan="4">UV cured ink (6color C,M,Y,K,Lc,Lm+ white or varnish)</td></tr>
<tr><td colspan="2">Ink Sypply</td><td colspan="4">5 liter bulk type main ink tank per each color</td></tr>
<tr><td colspan="2" rowspan="2">UV curing system</td><td colspan="2">Dual 700-W UV lamps with shutter</td><td>Dual 1200-W UV lamps with shutter</td><td>Dual 700-W UV lamps with shutter</td></tr>
<tr><td colspan="4">Adjustable UV curing power (Low or High)</td></tr>
<tr><td colspan="2">Environment</td><td colspan="4">Temp 20 - 30°C, Humidity 4 - 60 %</td></tr>
<tr><td colspan="2">Dimension</td><td>W3000xD1200xH1600mm
(W9.84xD3.9xH5.2ft)</td><td>W3600xD1200xH1600mm
(W11.8xD3.9xH5.2ft)</td><td>W4400xD1300xH1780mm
(W14.4xD4.3xH5.7ft)</td><td>W4500xD1500xH1300mm
(W14.7xD4.9xH4.3ft)</td></tr>
<tr><td colspan="2">Net Weight</td><td>1300 kg(2,860lbs)</td><td>1500 kg(3,300lbs)</td><td>2280 kg(5,020lbs)</td><td>2500 kg(5,500lbs)</td></tr>
<tr><td colspan="2">Power supply</td><td colspan="4">1phase x AC 220V (50/60Hz) 30 Amps Max.</td></tr>
<tr><td colspan="2">Compressed air</td><td colspan="4">6 bar (80 psi min) dry air</td></tr>
<tr><td colspan="2">Safety mark</td><td colspan="4">CE approval</td></tr>
</table>

(*1) Above specification subject to change without notification

(*2) Printing speed is measured with 4color x 4heads and high carriage speed and full printing bed width according to model size

X7 Digital Cutter Series

Cutting edge digital finishing for maximum productivity

With the growth of digital printing comes ever shorter production runs and faster delivery times creating bottlenecks in the finishing department. The traditional use of cutters and the 'knife' for trimming and finishing becomes more costly with mistakes and reruns. This is time consuming and expensive; quality control becomes a problem under pressure. Finishing is the final component of the process and for many the last area where investment is made – the industry is changing.

The new DYSS X7 Digital die cutting system will maximize your quality and productivity. Precise, efficient camera guided routing and cutting will automate your finishing, reducing mistakes and keeping labour down to the absolute minimum.

The X7 delivers the ability to handle all varieties of common display and new emerging materials. Whether you are cutting vinyl, textiles, papers, card or undertaking cardboard engineering with complex fold/crease/scoring patterns the X7 offers all effortlessly and efficiently.

The construction of the X7 is fundamental in the handling the 1Kw precision routing tool. It provides a stable base and platform for long-term performance. Without this stability, long-term problems emerge with expensive failed routers and tools. The X7 is world class when it comes to speed and accuracy. It stands alone in construction and strength as a sound investment for today and the future.

X7 Digital Cutter Series

Accomplishing cutting edge digital finishing

Features and Benefits

- Precise high speed cutting of materials up to 2.6 meters wide, including rolls of unlimited length
- Precision cutting of jobs longer than the table with the automatic roll feed and conveyor system.
- Sheet/board feeder and hopper allow for continuous production in a busy working environment.
- Option of an extension conveyor increases work flow by allowing the removal of complex cut shapes whilst cutting continues.
- Printing and media distortions are present in all jobs. i-cut® or OptiSCOUT™ efficiently records these non-uniform distortions and calculates new optimized cut paths thus giving precise results time and time again. This reduces waste and enhances quality.
- The new i-cut® or OptiSCOUT™ software allows the operator to select the material they are cutting and to have the option to visualize recommended tools with optimized cutting speeds. This adds efficiency and support to the operator when testing and working with new and unfamiliar materials.
- DYSS workflow has many features. One uses the latest workflow integration software pioneered by MGE – such as the revolutionary i-script® RIP-to-cut interface tool and the new ai-cut™ plug-in tool developed for adobe illustrator.
- Cutting paths are stored and recalled using bar codes on the printed job resulting in fewer mistakes and time being wasted in production; true work flow designed for today and the future.

Technical Data

Model	X7-1613	X7-1630	X7-2213	X7-2230	X7-2613	X7-2630
Speed	Up to 1000mm/s or 60m/min depending on material and tool options;					
Acceleration	Up to 5.6m/sec^2(0.56G)					
Material clearance	Up to 50mm (1.97 inch)					
Cutting depth	Up to 25mm (1 inch)					
Tool Force	Up to 18kg per tool (40 lbs.)					
Position Accuracy	± ± 150 µ (0.0059 in.)					
Repeatability	± ± 20 µ (0.0008 in.)					
Max.work area (W x L)	1650x1350mm 65x53 in.	1650x3050mm 65x120 in.	2250x1350mm 89x53 in.	2250x3050mm 89x120 in.	2650x1350mm 104x53 in.	2650x3050mm 104x120 in.
Max. sheet size (W x L)	1700x1960mm 67x77 in.	1700x3780mm 67x149 in.	2350x1960mm 93x77 in.	2350x3780mm 93x149 in.	2750x1960mm 108x77 in.	2750x3780mm 108x149 in.
Dimension(WxL)	2500x2150mm 100x85 in.	2500x3890mm 100x153in.	3100x2150mm 122x85in.	3100x3890mm 122x153in.	3500x2150mm 138x85in.	3500x3890mm 138x153in.
Construction	Zero backlash belt drive, low-noise, with dust cover; Welded heavy-duty base with hydraulic industrial honey comb vacuum; High-precision AC servo system with 4 axis synchronous control					
Interface	Standard network connection via i-cut® or OptiSCOUT™ workstation PC; Variable look-ahead vector control to optimize speed; Diagnostic function.					
Options	Sheet/board feeder, conveyor system with roll-off unit					