



PRINTING PRODUCTIVITY

IDP AB

Subject: **Order confirmation CON151126-REV1A**
Date: December 05, 2015

Dear Mr.

We thank you for your order regarding an **EF-APC Advanced 520/14 colour** converting system.
We herewith have the pleasure to send you our order confirmation.

**ORDER CONFIRMATION
CON151126-REV1A**

**EF-520/14 COLOUR CONVERTING SYSTEM
With APC Advanced automation package**

You will find the scope of supply and price on the next pages.

All our agreements and commands list our terms and conditions of application, as filed under Nr. 09116610 at the Chamber of Commerce in Arnhem, The Netherlands.
These terms and conditions are available upon request.

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1. Scope of Supply and Prices

EF-520/14 colour converting system

1	Base machine platform EF	1
	<ul style="list-style-type: none">- Un- & rewind, 1.270 mm, with integrated reel lift and automatic break system. Un- and rewind shaft for inner core diameter \varnothing 70 mm.- Splicing table and web guider for unwinder- Short web technology- Multi Drive system including with main control panel and iControl<ul style="list-style-type: none">* servo driven in- and out feed systems* automatic pre-register setting* I-stop (no waste at a machine stop: depending on design)* insetting (multiple web pass register system)* Machine automation including Job memory- Converting rail system , for flexible positioning	
2	EF print unit with direct servo drive (come in double and triple units) including	14
	<ul style="list-style-type: none">- Print sleeves are positioned automatically into the print head with the use of an unique spacer technology (for Automated Print-pressure control (see options 300 & 310)- Easy access to print head, quick lock doctorblade assembly (Movable ink tray only for APC options (see option 300 or 310)- Automatic length register control (not for first unit)- Motor for lateral register control- Gearless technology (no gears at tooling)- iControl machine operator interface<ul style="list-style-type: none">* Machine mode indicator* Register length indicator* Register length and lateral fine tune- Metering roller inking system- Chill drums for heat management	
	<ul style="list-style-type: none">- Print sleeve (Repeat size 24"- Z192)- Anilox roller with integrated handles (Apex,NL, standard cell structure)	14 14

Note: Impression roller for print stations in anodize aluminium execution



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3.1	UV drying - Air cooled	
3.1.1	Single UV-drier - GEW, type NUVA2 – 200 W/cm, Rhino powered electronics, including exhaust fan	14
3.4	Hot air systems	
3.4.1	Compressed air drier interstation drying (OEM supplier Flexair), 6 air bars, excluding compressor and extraction fan	6
	Double hot air drier system for print units 4-5-6	
	Hot air drier for <u>water based</u> inks only	

ADDITIONAL SUPPLY

1.	Base frames and web extension	
1.1	Base frame station 740 mm	3
1.2	Base frame station 1480 mm (for web inspection camera)	1
1.4	Drive for above station 740 mm base frame including cooling roller	3
9.1	Multi laminating unit (incl. nip roller assembly for print station)	1
	- Self-adhesive lamination	
	- UV lamination	
	- Self wound lamination (tension regulation arm not included, see option 9.3.5)	
	- Cold foil lamination (thru cure with UV on chill drum)	
9.1.1	Friction shaft (OEM supplier Tidland)	2
	<u>Note:</u> Clutch break on unwind shaft / servo motor on rewind shaft	
14	Web break and splice control	
14.1	Web break detection, in printing or unwinder station (not for rail units)	4
14.3	Web break detector AND splice control in unwinder	1
15.1	Chiller for chill drums (OEM supplier DTE)	
15.1.1	Cool master-indoor (up to 15 colours) for max. 25°C room temperature	1
16	Web turner bar	
16.1	Web turner station, incl. register + support for reverse side printing	1
16.2	Special bars with low torque (set of two)	1
19	Web inspection (OEM supplier BST)	
19.3	Web video BST Super Handy scan, motorised, inclusive reflection plate	2

20	Web cleaning	
20.3	Web cleaning (Teknek type NW Lite) double sided tape roller	1
23	Slitter trimmer type; Scissor	
23.1	Slitter trimmer Scissor slit inclusive two knives (OEM supplier Tidland)	1
30	Washing & transport equipment	
30.1	Anilox holder trolley	1
30.2	Anilox cleaning tray	1
30.3	Meter roller cleaning tray	1
45	Modem	
45.	Remote diagnostic control	1
95.	Packing	
95.1	Packing over road	1
99.	Transport	
99.1	Transport & insurance Europe (Incoterm CIP)	1
100.	Installation, commissioning and training	1
	Exclusive travelling expenses (daily allowance and tickets/car) & accommodation costs. Training up to a maximum of 10 days by 1 instructor.	
310	APC Advanced	14
	- Automatic print control (APC), with direct servo positioning drives	
	* Double servo positioning-motors on print sleeve	
	* Double servo positioning-motors for print gap control (material thickness)	
	* Dynamic print pressure control, advanced	
	- M2M automatic register control camera, after last station (not for rail units and die cutting)	
	* intelligent positioning-motor for lateral register control, needed for M2M auto register camera system	
	- Machine performance	
	* Metering roller inking system with pull out drawer	
	* Metric Print	
	* NPC Nonstop Print Change	

- **iControl machine operator interface**
 - * Print pressure setting
 - * Print gap-pressure setting
- **Advanced Job memory**

Total price of **EF- 520/14** colour converting system with **APC Advanced**

Optional equipment:

3.1	UV drying - Air cooled	
3.1.1	Single UV-drier - GEW, type NUVA2 – 200 W/cm , in stead of 180 W/cm - Rhino powered electronics, including exhaust Fan	14
1.	Base frames and web extension	
1.2	Base frame station 1480 mm (after print station # 14 to improve flow of UV varnish)	1
1.4	Drive for above station 1480 mm base frame including cooling Roller	1
3.	Additional flexo inking meter roller technology	
3.6.1	Ink circulation ink pan plus easy release coating	14
3.6.2	Ink circulation ink pan plus easy release coating	8
3.7	Pump with ink bucket holder	14
3.8	Preparation for ink pump per print station	14
5.	Die cutting	
5.2	Double die QCD single drive including auto length register Control Note 1: suitable for MPS tooling (machine 410 gets adaptor)	1
5.5	iStrip Matrix rewinder	1
8	Rotary die cut options	
8.7	Hoist incl layoff table (in combination with (5.2))	1

2. General technical data

Web width	:	520 mm
Printing width Flexo	:	510 mm
Repeat length Flexo & Die Cut	:	10-25 inch at 1/8 inch increments
<i>Advice: for web width of 520mm: start with 16 inch (z128) repeat length die cutting</i>		
Position of rail units are limited (e.g. not after last print station without the need for additional empty frame)		
Max. mechanical speed	:	5 - 200 m/min
Substrate thickness for printing	:	15 - 450 μ m
<i>(performance of critical unsupported materials, like unsupported PE, only after joint testing)</i>		
Max. reel diameter unwind station	:	1.270 mm
Max. reel diameter rewind station	:	1.270 mm
Max. reel diameter un- & rewind spindles on rail	:	800 mm
Max. reel diameter multi-laminating	:	500 mm
Standard diameter expandable shafts	:	76 mm
UV-drier (GEW NUVA2)	:	200 W/cm per lamp
Altitude	:	max 1.000 m above sea level
Air pressure	:	6-8 bar
Electrical specifications	:	400 Volt, 3 Phase, 50 Hertz
Frequency stability	:	+/- 10%
Voltage fluctuation	:	+/- 10%
Indoor climate conditions:		
Room temperature	:	max. 25°C
Thermal fluctuation (24 h.)	:	max. 10°C
Relative humidity min./max.	:	25% / 60%



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(Flexo) Plate thickness : 1,14 mm
Double sided self-adhesive tape : 0,38 mm
Other plate and tape dimensions : upon request

Max. distance between machine and switchbox(es) : 1 meter
The UV cabinets will be located behind the machine, in the centre of the press. The PLC and Servo cabinets will be located behind the die cutting station.

Machine colour : Crème/Red/Grey (RAL nr 9001/3002/7001)