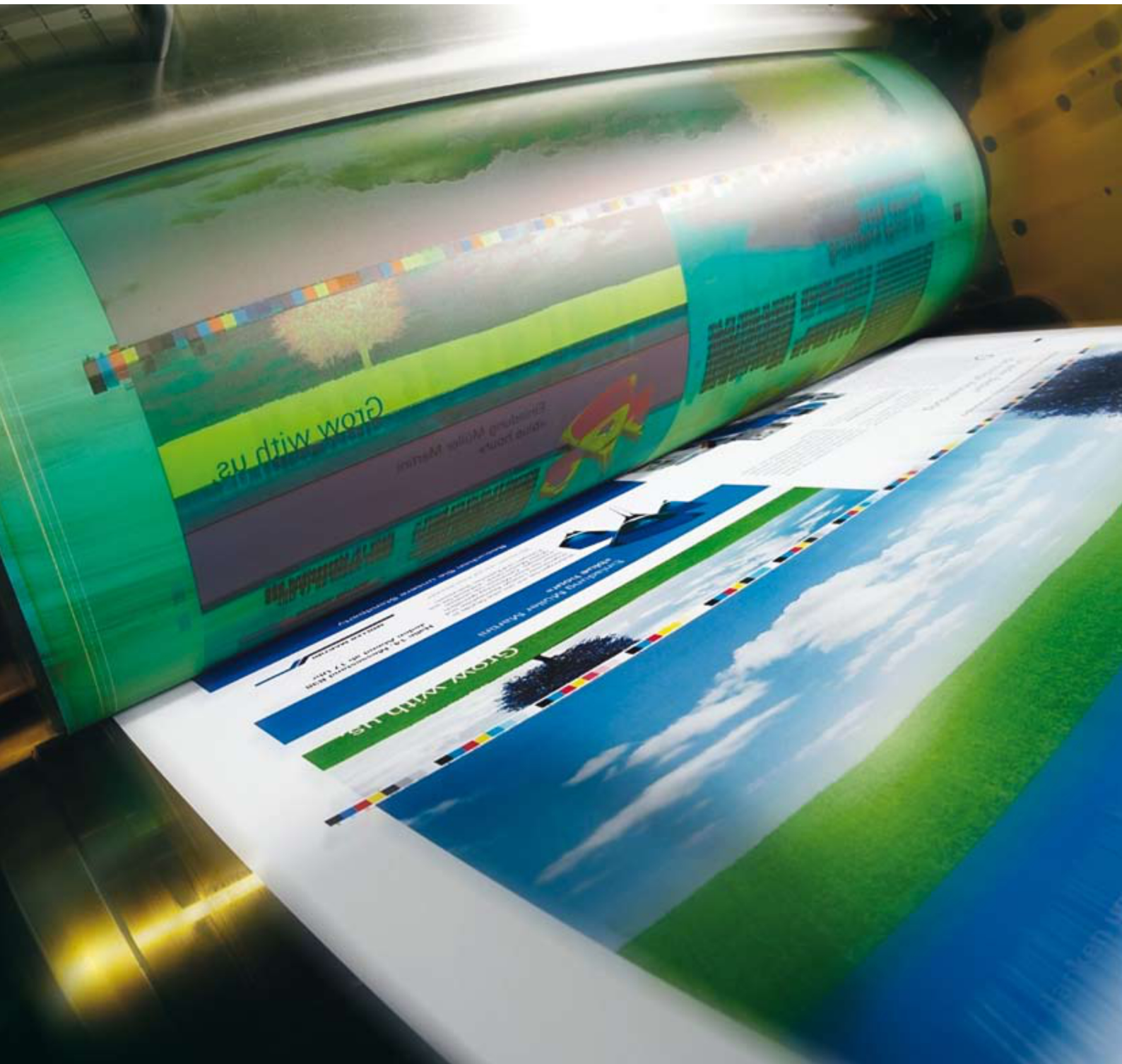# **Alprinta** Web Offset Machine

When quality and productivity have a key role to play

GOEBEL

Alprinta – for commercial web offset products and packaging materials

Printed material is becoming ever more demanding and individual. Declining run sizes and shorter delivery times are additional challenges. This requires printers to differentiate and to depend on modern, flexible equipment. Only in this way can you react quickly and correctly to challenging requirements and produce products of an appropriately high quality. The Alprinta web offset machine was developed for the production of high quality commercial products and mailings, but also for the creation of security printing and pharmaceutical products. It excels through its shaftless technology and fully modular structure and can offer a tailored solution to any printer.
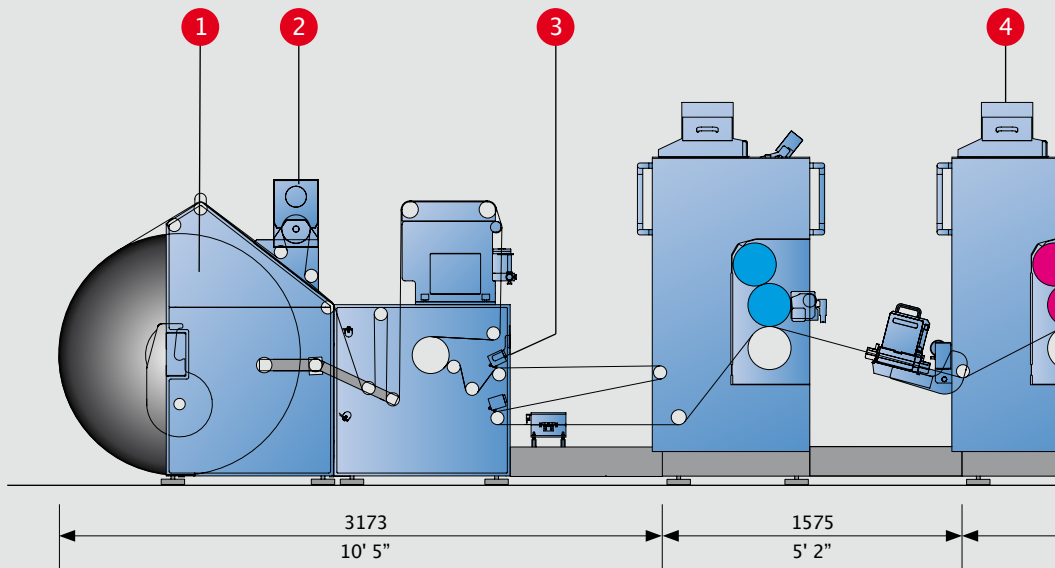
Printing with new standards

With challenging order structures, the Alprinta can offer a great advantage: Depending on the requirements of the different markets, either conventional or infinitely variable inserts can be added. The conventional printing inserts can be replaced very quickly thanks to the rail system. If many different print lengths are required, then infinitely variable inserts are used, as they allow both low investment costs on size parts and rapid change-over.

Highest possible level of automation

If the machine control is integrated in the workflow of the printing plant using the CIP standard, then this reduces the make-ready and the waste significantly. The entered data allows the make-ready system to preset the machine automatically.
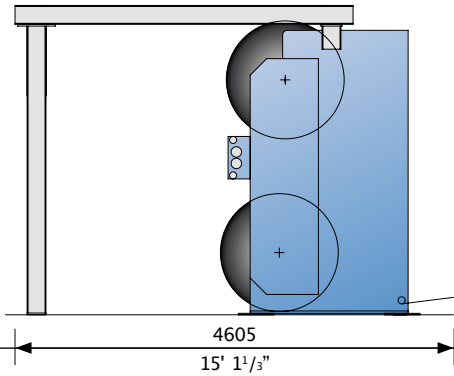
Flexibility thanks to insert technology

E Large size range to 40" (1016 mm)
E Metric sizes (e.g. 630 mm or 594 mm)
E Infinitely variable inserts
E Rail system for
  - Insert change in just three minutes
  - High level of operational safety
  - Toolless handling

Target markets:
E Commercialwork
E Mailings
E Security printing
E Pharmaceutical printing
E Covers
E Labels
E Packaging

Web offset printing on the Alprinta: everything done in a single operation

① ② ③ ④

3173
10' 5"

1575
5' 2"

Option:
Unwind splicer
Non-stop unwinding
for buff and overlap splicing
at full production speed.

4605
15' 1^{1}/$_{3}$"

1 Unwind and infeed unit
For rolls of up to
1270 mm/50" diameter.
A servo drive provides
the correct web tension.

2 Corona treatment
Plastic materials are
pretreated with Corona
to improve the adhesion
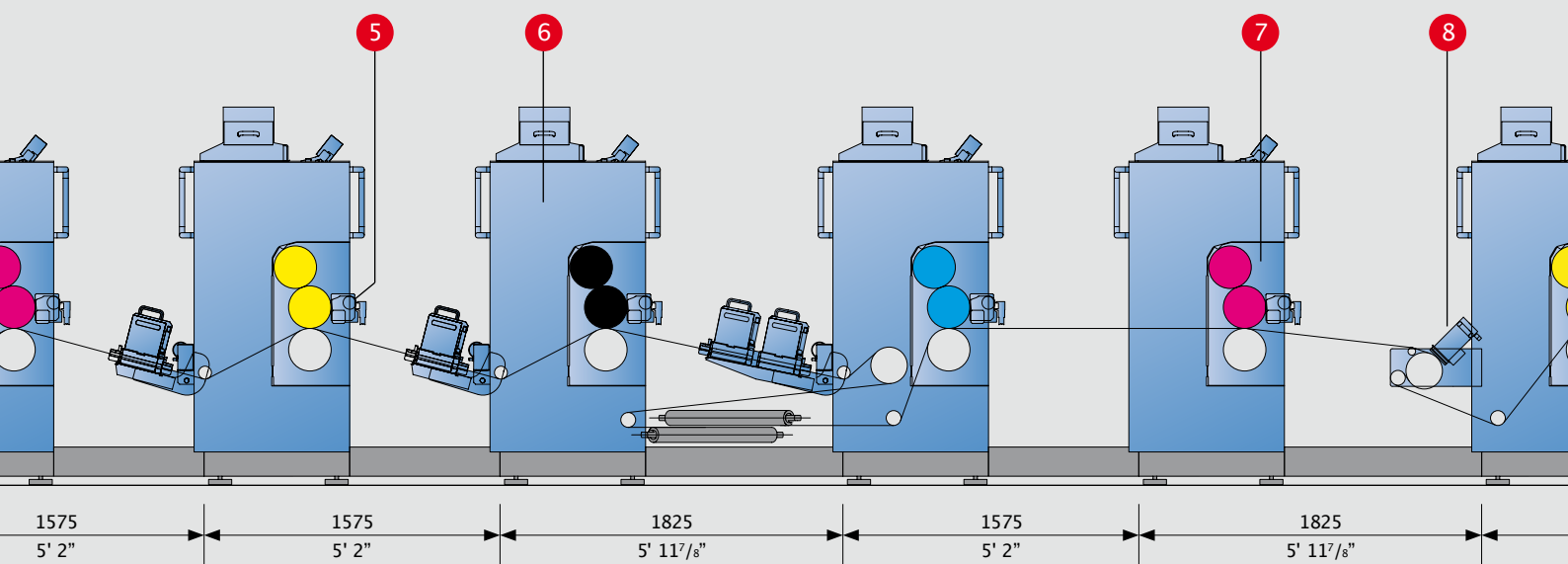of inks to the substrate.

3 Re-insertion
Integrated in the infeed
unit for accurate, re-
inserting of the web with
sensors for the front and
rear sides.

4 Ergonomic paneling
Integrated paneling
concept for optimum
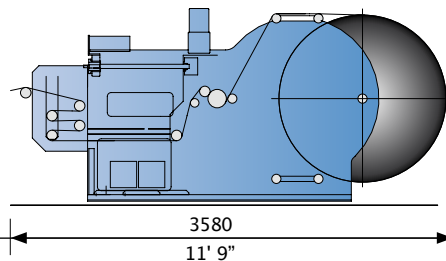accessibility to the inking
rollers without the need
to dismantle covers.

5 Blanket wash-up system
The printing units are
prepared for the attach-
ment of a blanket wash-up
system as standard.

5	6		7	8

1575	1575	1825	1575	1825
5' 2"	5' 2"	5' 11$^7/_8$"	5' 2"	5' 11$^7/_8$"

Option:
Non–stop rewinding
An automatic rewinder can be connected to the Alprinta for non–stop production of roll goods.

3580
11' 9"

6

Printing unit
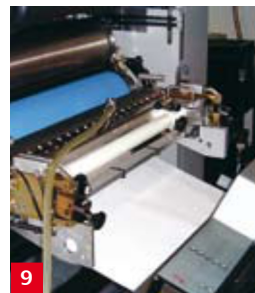Servo drives, four applicator rollers and optimum temperature management permit the highest possible printing quality.

7

Insert change system
The rack storage and rail system permits quick and safe changing of the printing inserts without tools.

8

UV curing
First–class UV technology is fully integrated in the machine and ensures high process safety and short make–readies.
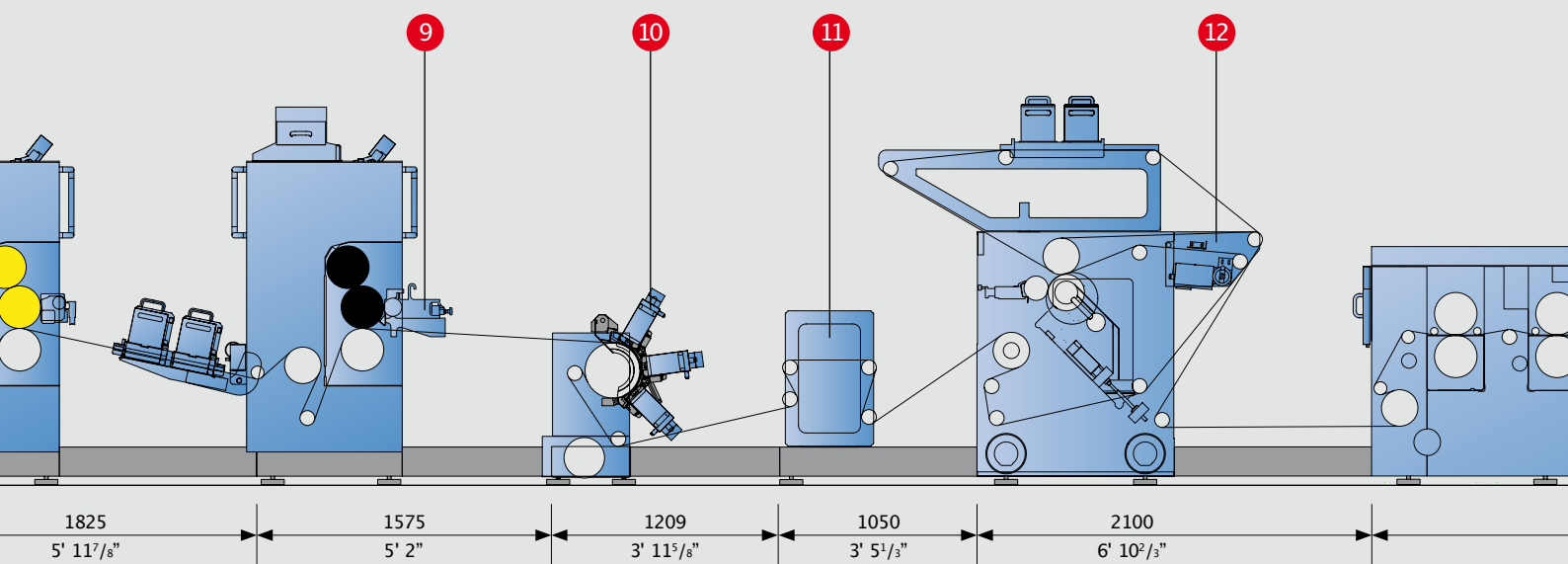

9

Flexo cassette
By hooking in the the flexo cassette every offset unit can be converted to a flexo printing unit.

10

UV cooling station
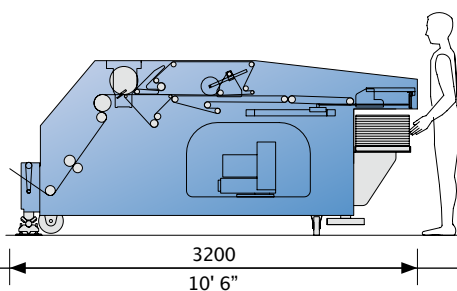The UV lamps can be mounted on cooling cylinders when printing on temperature–sensitive substrates.

1825	1575	1209	1050	2100
5' 11⁷/₈"	5' 2"	3' 11⁵/₈"	3' 5¹/₃"	6' 10²/₃"

Option:
QS52: sheeter with integrated stacker
The compact QS52 is the perfect solution for web widths up to 520 mm (20½") and sheets up to 432 mm (17") long.

3200
10' 6"

11
Inline color control
Excellent color constancy for the entire print run with drastically reduced set–up times and considerably reduced waste.

12
Flexo printing unit
Developed for maximum production speed and minimum make–ready with servo drives and sleeve technology.

13
Processing unit with insert technology
Double modules with servo drive and extremely simple changing system to replace processing tools.
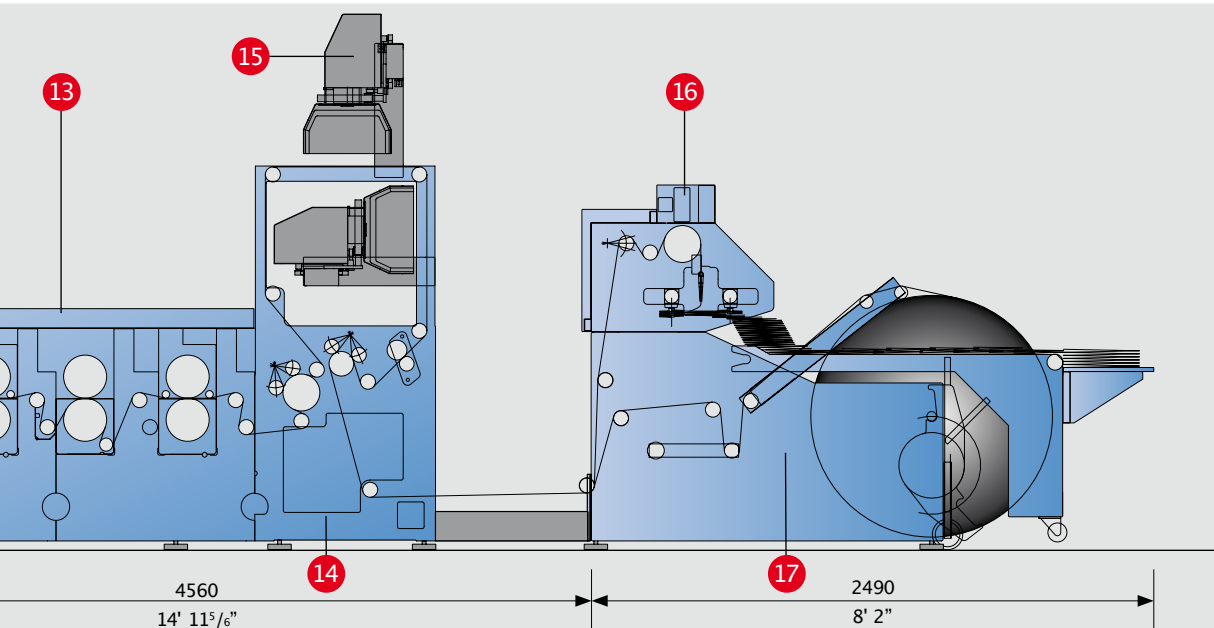
14
Pulling station with longitudinal processing
The perforation and vertical slitters can be adjusted from outside when the machine is running.
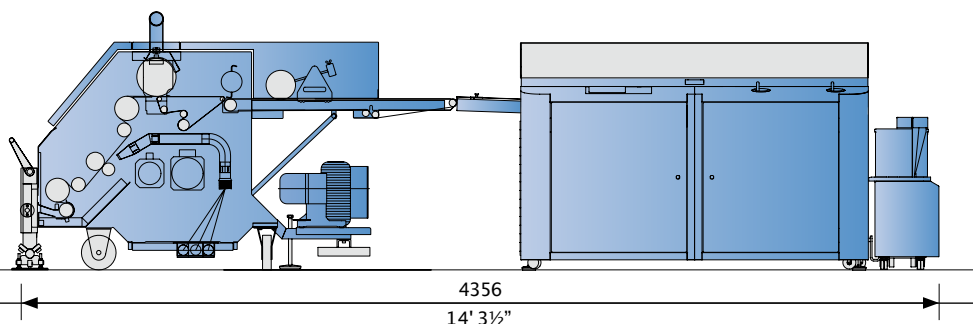
15
Web video inspection
Depending on require–ments, analog or digital web video inspection systems or a 100% print defect detection are used.

13 **15** **16**

4560
14' 11⁵/₆"

14 **17** 2490
8' 2"

Option:
Q74 sheeter with Unistack stacker
This is an efficient and very flexible combination for large sheet production, but also for batch delivery of cut sheets.

4356
14' 3½"

16
Fan–fold unit
High production speeds for single, double or triple production.

17
Rewind unit
The electronically control-led web tension allows processing of a very wide range of substrates.

Register controller
Completely integrated in the machine control for the best possible performance and perfect presetting.
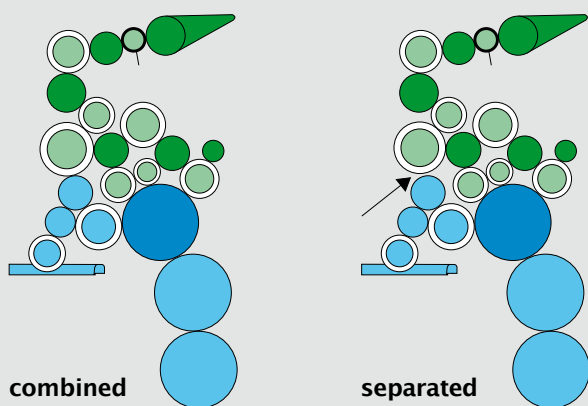
Remote ink control
Precise sliding key ink ducts with fully integra-ted automation, simple touchscreen operation and optional color density control.

Touchscreen operation
Simple, intuitive operation of the entire printing machine including the fully integrated OEM units with clear menus and standardized data storage for a complete operating concept.

combined   **separated**

High performance inking system

High printing quality and simple handling are the hallmarks of the Alprinta inking system. The ink train with four ink form rollers ensures perfect application, even at high printing speeds. Six tempered rollers eliminate any temperature variations, which may impair the process.

Convertible dampening system

The film dampening system can be switched between film and emulsion operation at the touch of a button on the central control unit.

Thus, the printed result can be optimized, depending on the ink series and printed image.

Integrated color control with CIP3/4 integration

Color corrections are quickly transferred to the substrate. As soon as the color change can be measured in the delivery, a message appears on the monitor. This prevents premature subsequent corrections, thus avoiding unnecessary waste.

Innovative printing unit

- E Four ink form rollers
- E Short reaction time
- E Optimum ink train tempering
- E Convertible dampening system
- E Speed compensation of ink duct roller and dampening system
- E Ergonomical and easy to service

High flexibility thanks to infinitely variable offset insert

In the infinitely variable printing inserts, replacing the handy carbon fiber cylinders allows flexible adjustment of the print length. This innovative development means that the Alprinta can open up printers new opportunities and markets.

- E Infinitely variable in 0.1 mm steps
- E Handy, extremely stable carbon fiber cylinder
- E Rapid, toolless size changeover
- E Size range 20–28^1/$_3$"(508–720 mm)
- E Servo driven
- E Motorized size adjustment

Technical Data	Alprinta 52	Alprinta 74
Web width	520 mm	740 mm
	20½"	29^1/$_8$"
Printing width	515 mm	735 mm
	20¼"	29"
Printing size range	432–864 mm	508–864 mm
	17–34"	20–34"
As option*	432–1016 mm	508–1016 mm
	17–40"	20–40"
In increments of	^{1}/$_3$" or ¼", additionally 6 mm as an option	
Max. roll diameter	1270 mm	
	50"	
Offset printing units	up to 12	
Substrate range**	40–250 µm	
Web length zero	40–170 g/m^2	
Machine speed	365 m/min (1200 ft/min)	
	457 m/min (1500 ft/min) as option	

*Sizes larger than 34" only with an appropriately prepared machine
**Restrictions may be possible, depending on the substrate and processing. Special applications on request.

The data specified above are maximum values.
The achievable values depend on the type of job,
the substrate and the produced size.
Subject to technical changes.

This brochure may show components that are not part of the standard equipment and are available as options only. In some cases, protective covers in photographs have been removed or opened for illustrative purposes. Design and equipment configuration are subject to change.

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