

# GOSS COLORLINER CPS

16 - TO 24-PAGE COMPACT PRESS SERIES



**GOSS** | INTERNATIONAL



# Goss innovation

2

**INTRODUCING A UNIQUE PRINTING SYSTEM FROM GOSS INTERNATIONAL – A COMPACT PRESS BASED ON TRIED-AND-TESTED COLORLINER® TECHNOLOGIES THAT HAVE SERVED THE NEWSPAPER INDUSTRY SUCCESSFULLY FOR MANY YEARS.**



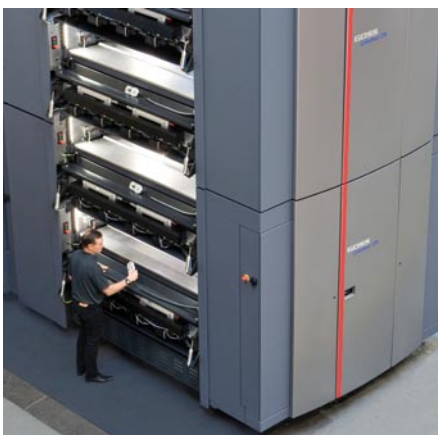


The latest generation Colorliner, the Colorliner Compact Printing System builds proven technologies into a compact configuration which focuses on end-user benefits such as higher quality print, low manning levels and reduced carbon footprint.

By combining proven technologies into a highly flexible two-around press system, the Colorliner CPS covers the entire gamut of high-volume production requirements. These include coldset, heatset and combined heatset/coldset printing at speeds of up to 90,000 copies per hour.

The modular design allows for 4x2, 5x2, 6x2, as well as 4x1 configurations, using a common base that shares major proven press elements and systems. Their compact arrangement provides exceptionally high-quality printing through a very short nip-to-nip web lead and simplified operation through optimized ergonomic design backed by high levels of automation.

The Colorliner CPS also brings many of the advantages of compact presses pioneered by Goss, including the ability to be housed in conventional commercial buildings.



**Colorliner CPS benefits:**

- **New platform, proven technologies**
- **Production speeds up to 90,000 cph**
- **High print quality**
- **Newspaper, semi-commercial and heatset capabilities**
- **Double or triple width printing**
- **Simplified operation with optimized ergonomics**
- **High value with lower carbon footprint**
- **Integrated package from a single supplier**

**New platform, proven technologies:**

Goss utilizes proven Colorliner technologies and state-of-the-art design and manufacturing techniques throughout the Colorliner CPS. Its compact printing units have a conventional non-split design, but a highly innovative cylinder and ink train configuration to provide the shortest possible nip-to-nip distance. This provides a web lead of only 2.7 meters (8.86 feet) between the first and fourth level, reducing web fan out and increasing registration accuracy.

**Production speeds up to 90,000 cph**

Colorliner CPS print towers feature single-piece compact frames, with a height of 4.5 meters (14.76 feet), made from high quality robust castings. Their low height provides excellent overall stability and seismic resistance, despite a small footprint.

The frames house stainless steel cylinders for optimum corrosion resistance with a bearer-to-bearer design typically used for commercial presses such as Goss® M-600™. The bearer-to-bearer design provides a ‘perfect’ blanket nip at all times without the need for regular

adjustment. Combined with the frame construction, the cylinders minimize vibrations for optimum mechanical and printing stability.

The use of shaftless motors – one motor per unit level to give a balance between investment cost and flexibility – enhances the smooth running and control of the Colorliner CPS. It can run at speeds up to 90,000 copies per hour, maintaining optimum web tension and excellent print quality at all times.

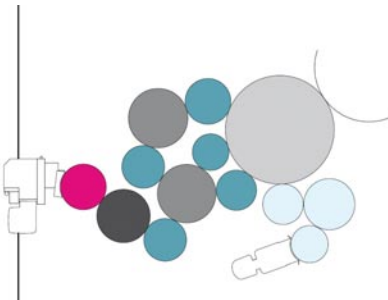




# Experience the quality

4

**EVERY DETAIL OF THE COLORLINER® CPS HAS BEEN DEVELOPED TO MAINTAIN PRINT QUALITY THROUGHOUT THE BROADEST RANGE OF APPLICATIONS AND RUNNING SPEEDS. THIS ABILITY DERIVES FROM EXTENSIVE GOSS® EXPERIENCE IN LARGE NEWSPAPER PRESSES OVER MANY YEARS.**

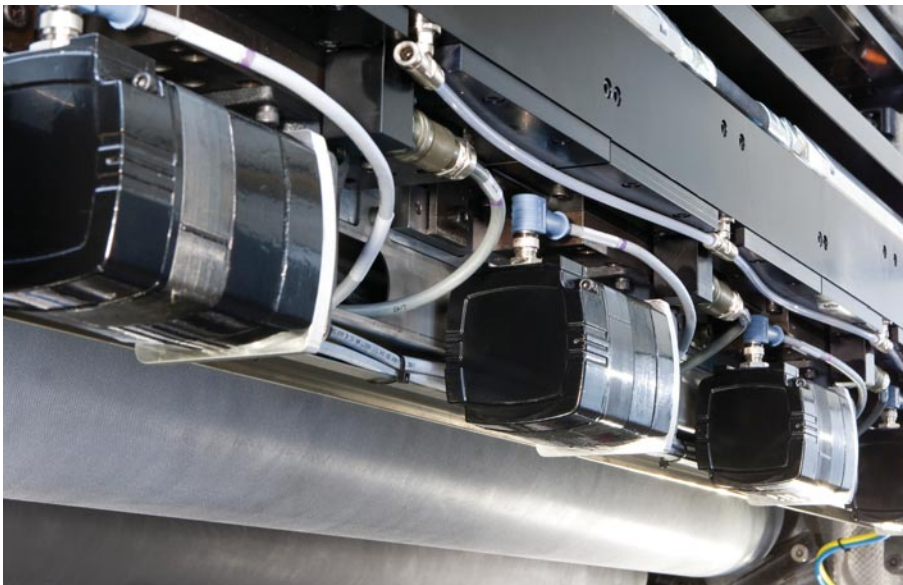


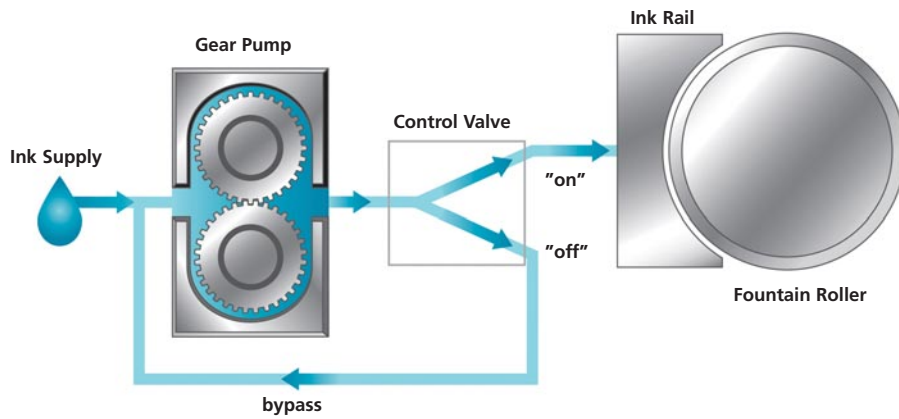
The capability to print high quality coldset and heatset work is not only provided by the shortest possible nip-to-nip distance. In addition, each printing unit has a powerful ink train harnessing large diameter train, with three ink form rollers and long stroke oscillators. Rubber rollers employ the latest lightweight rubber compounds to maintain structural stability. These compounds are designed specially to reduce nip pressures and heat build-up as well as minimize ink misting and sling.

## Digital inking

The ink train is fed by the Goss DigiRail™ inking system that delivers higher quality with the potential to make substantial savings. These are first achieved by using less ink through exacting density control. The system also offers lower start-up waste through RIP pre-setting and low running costs with minimum maintenance and low ink wastage.

Goss DigiRail feeds a stream of ink pulses onto the ink fountain roller. It can handle both heatset and coldset inks, and provides fast, low waste changeover from heatset to coldset. With the Goss DigiRail, the volume of ink is regulated precisely through digitally controlled valves, irrespective of viscosity or temperature changes. The ink is supplied to the valves by a series of precision gear pumps, directly fed with fresh ink through an enclosed manifold system. This ensures that the ink reaching the printing plate is fresh at all times and is also not contaminated with paper lint or fountain solution. In addition, the enclosure of the ink within a sealed system eliminates ink 'dry-up', often experienced on presses when they are idle.





## Dampening

The power of the ink train is complemented by a spray bar dampening system, which offers a particular disposition providing easy access to the spray bars from the lifting platforms, at standstill as well as during production. Improved ergonomics and damp trim pre-sets are all designed to optimize the print performance.

## Automation

The entire inking and dampening system has a wide range of automation features including damp trim pre-sets, ink train wash-up, start-up sequences with pre-inking, and run-down sequences with de-inking. The Colorliner CPS also features a blanket washing system with a specially integrated design, which gives easy access to the blanket for replacement without removing the washer unit.

## Newspaper, semi-commercial and heatset capabilities

Combining heatset and coldset print into the same product is becoming increasingly

popular for newspaper publishers. Lifestyle sections, regional variations, inserted magazines and advertising inserts are already the norm, but on-the-run heatset wraps and sections – a capability offered by the Colorliner CPS – offer added quality for premium advertising and considerable business flexibility.

The Colorliner CPS has a short pitch between printing towers, providing a smaller overall footprint. This is also ideal for combining mixed heatset and coldset webs as it allows greater control over web tension throughout the press due to shorter web leads. In addition DigiRail digital inking enhances the capability of the Colorliner CPS to not only print excellent quality but also to allow any tower to switch from coldset to heatset with the minimum of downtime. This is due to the fast purging capability of the enclosed manifold design.

## Double or triple width printing

The landscape for double width printing has changed. Modern presses need to be not only highly productive but also very flexible. Their output needs may change almost





# Easy to run, easy on the planet

6 **OPTIMIZING RESOURCES IS ONE OF THE KEYS TO SUCCESSFUL PRINTING OPERATIONS. THE CONTRIBUTION MADE BY THE PRESS TO THIS PROCESS MUST BE HOLISTIC - NOT JUST IN TERMS OF MECHANICAL EXCELLENCE BUT THROUGH MANNING EFFICIENCIES, FAST AND FLEXIBLE CHANGEOVERS, AND CONSIDERATION FOR THE ENVIRONMENT.**



## **Simplified operation with optimized ergonomics**

The tower configuration, with its short nip-to-nip distance and powerful ink train ensures that the Colorliner® CPS has the ultimate four-high configuration for optimum printing quality. In addition, the

use of proven Colorliner technologies provides the infrastructure for maximum reliability. With these two assets established, the Goss® Colorliner CPS development team focused on the next most important requirements for today's diverse printing environments – ease of use, and ease of maintenance.

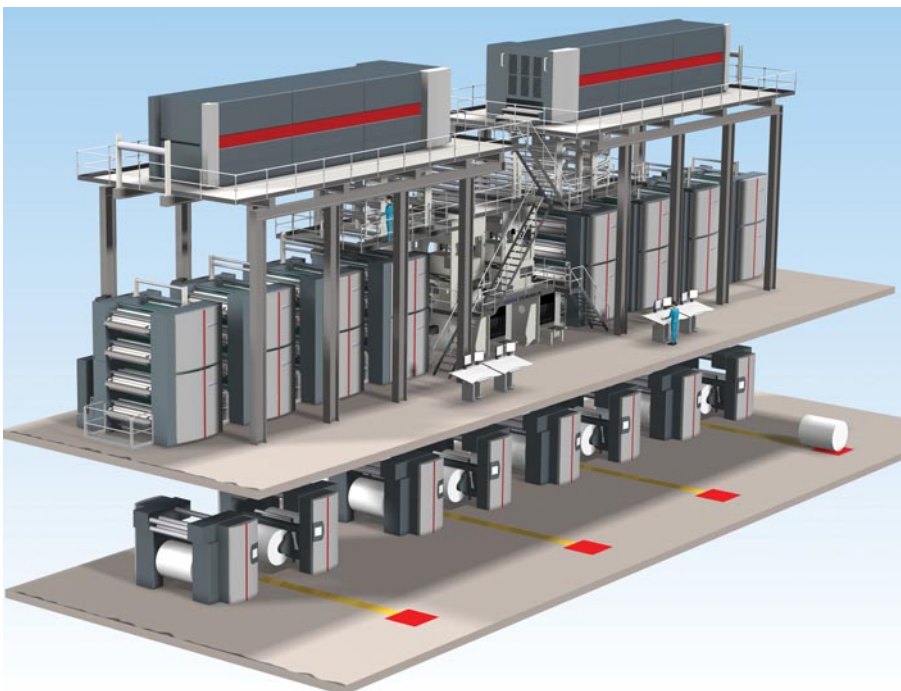
- **Semi-automatic or fully automatic plate change**
- **Automatic blanket and ink train wash-up**
- **Snake web-up**
- **Automatic variable web width**
- **Automatic start-up and run-down sequences with pre-inking and de-inking included**
- **Full pre-setting**

This high level of automation is aided by the latest evolution of Goss OPCS control system, which provides localized control of towers to accelerate set-up, and a new ergonomic interface with conveniently positioned touch screens. It is based on Bosch technologies with open communications protocols and the ability to integrate with different desks and press management systems.

In addition, the Colorliner CPS has three features which enhance its operability and ensure highly efficient manning.

## **Fully automatic plate change**

The automatic plate change of Colorliner CPS is based on the highly successful "Autoplate" used on Goss commercial presses, which loads and unloads plates automatically from separate cassettes. The







plates are placed in the cassettes while the existing job is running and can be changed according to the imposition plan from a single plate for an edition change to all plates for a new job. In both cases the operation is simultaneous, and thus it takes only the sequence duration.

Semi-automatic plate change is also available on customer choice, and can be retrofitted with Autoplate at any time.

### Lifting platforms

Running the full height of the press on the plating side, lifting platforms provide fast and safe access to all levels of the press without the need for a fixed second level platform. This increases the speed at which the press crew can gain access to important areas for plating and maintenance.

### T90™ configurations

Concrete table or reelstand substructure mounted presses are provided to suit individual customer requirements. However, operating the Colorliner CPS on a single floor can enhance the efficiency of the press crew. Goss "T90" configurations create a more compact press and provide a simpler solution to web-width changes and ribbon positioning.

### High value with lower carbon footprint

Providing one of the most cost-effective printing systems available for a high-output press, the Colorliner CPS press benefits from a specialized air ducting arrangement that produces a natural flow of air circulation for optimum heat dissipation. This results in extremely low heat generation, removing

the need for the additional cooling systems employed by other manufacturers. Substantial reductions in power and energy costs, as well as low waste between jobs and the use of proven, reliable technologies, contribute to lowering the overall carbon footprint and cost of ownership of the press.

### Integrated package from a single supplier

The Goss Colorliner CPS is supplied as an integrated package including reelstands, dryers and folders all designed and manufactured by Goss. This integrated approach not only means that the press is 'made-to-measure' but also gives users access to the best folders in the industry, dryers with the lowest energy usage and



reelstands with 99.8 percent splice efficiency. Additionally, a single package ensures full compatibility between the elements of the press, faster installation times and a single source for lifetime support.



# Specifications

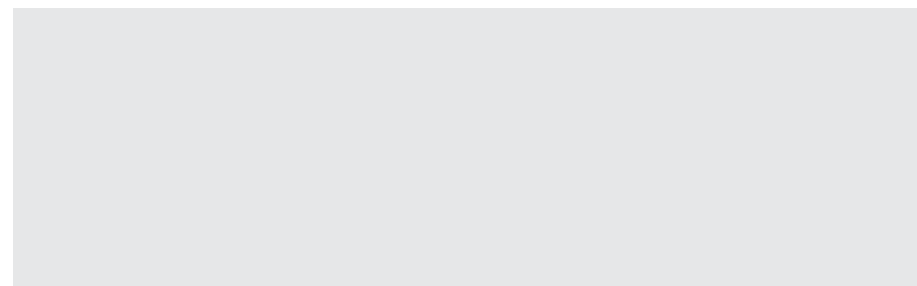
## Colorliner® CPS

4 x 2	Cut off (cm)	45	47	49	50	53	53.3	54.6	56	57.8	60	
	Max speed (IPH straight)	90k								87k	85k	
	Max Width (mm)	1280	1490				1680					
5 x 2 – 6 x 2	Max Width (mm)	1680						1905				

\* Sizes currently available

4x1 also available for dedicated 'straight' production

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Operating speeds for optimum production will vary with paper quality, size of product, number of webs and pressmanship. To display product features, some safety devices may be omitted or shown out of position in photographs or illustrations. Specifications and dimensions are subject to change without prior notice.