Calender Transfer Printing

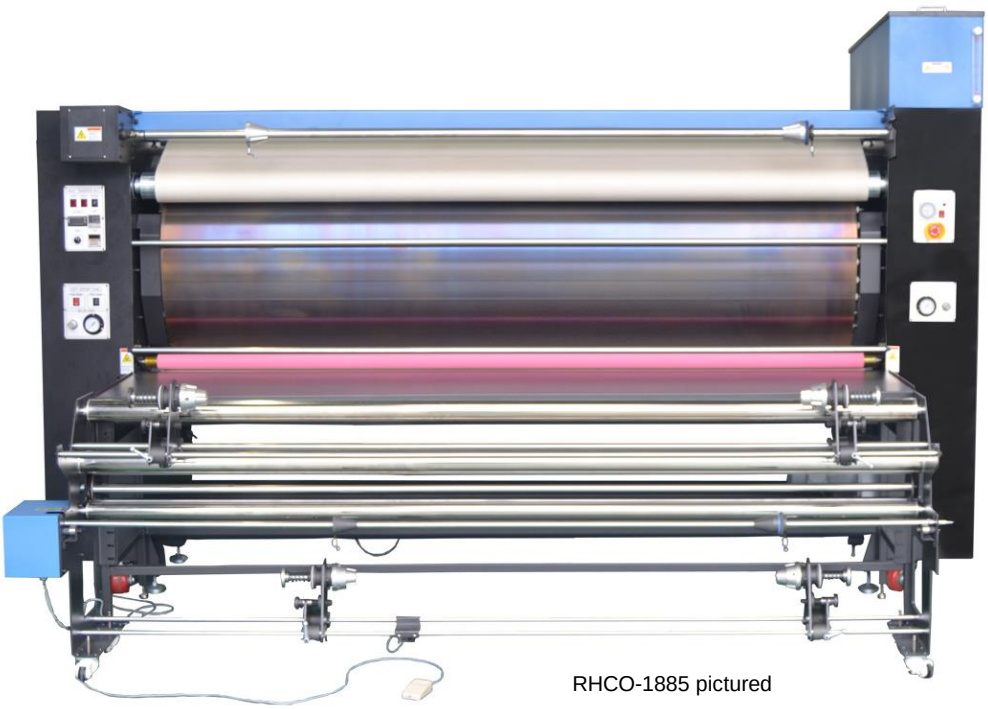
By Royal Sovereign International

The innovative calender heat transfer system offers the functionality to perform roll to roll dye sublimation transfer with the versatility to handle piece production. Available drum sizes include 10”, 14”, 22” and 34” ø which provide a stable and continuous heat distribution ensuring a quality transfer with constituency and clarity. Digital temperature displays and user friendly controls allows a novice to become a master at dye sublimation transfer.

THE ROYAL SOVEREIGN ADVANTAGE

In conjunction with a dye sub printer the Royal Sovereign calenders offer a distinct advantage over direct to garment printing. By printing on paper, images can be easily created and printed digitally, reducing the number of profiles required for different substrates. The sublimation process whereas the inks from the paper are transferred to the fabric ensures a vibrant and sharp image. The sublimation process also bonds the inks to fabrics which greatly reduces the possibility of the image fading or peeling, during prolonged exposure to the elements.

The innovative design of the NexxPresss™ RHCO and RHCI series calenders are perfect for high volume roll to roll production. The included worktable also provide versatility to handle single piece to piece production.



RHCO-1885 pictured

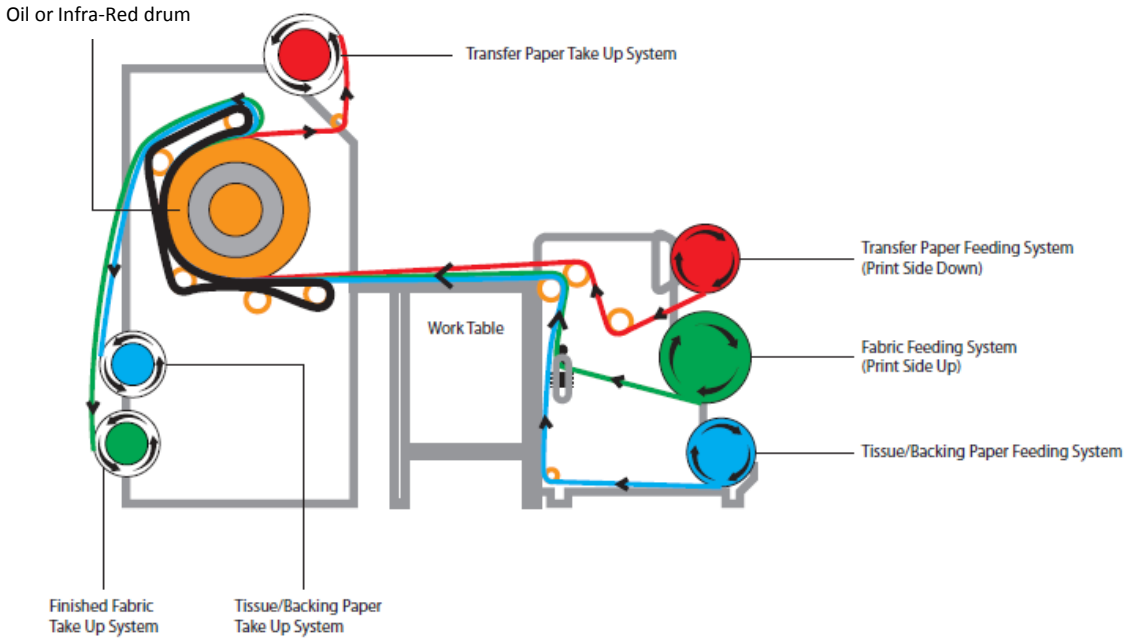
Available in both Wide and Grand format, NexxPresss™ calenders are the right solution for production of:

- Sportswear, Swimwear and Outdoor wear
- Flags and Banners
- Casino and Gaming tables
- And much more

Nexxpress™ High Volume Roll To Roll Production
Infra-red Heated Drum Or Traditional Self-contained Oil Drum Available
Transfer Width From 1650mm To 3100mm
350, 550 And 850 mm Drum Diameters

Model	Drum Diameter	Optimal Transfer Width	Max. Temp	Max. Speed	40 sec. Exposure	30 sec. Exposure
			Infra-Red			
RHCI-1835	350	1650	230°C	2.2 m./min.	0.75m./min.	1 m./min.
RHCI-2135	350	1950	230°C	2.2 m./min.	0.75m./min.	1 m./min.
			Oil			
RHCO-1835	350	1700	230°C	2.2 m./min.	0.75m./min.	1 m./min.
RHCO-1855	550	1700	230°C	2.4 m./min	1.3 m./min.	1.7 m./min.
RHCO-1885	850	1700	230°C	3.4 m./min.	1.8 m./min	2.25 m./min.
RHCO-2135	350	2000	230°C	2.2 m./min.	0.75m./min.	1 m./min.
RHCO-2155	550	2000	230°C	2.4 m./min	1.3 m./min.	1.7 m./min.
RHCO-2185	850	2000	230°C	3.4 m./min.	1.8 m./min	2.25 m./min.
RHCO-2535	350	2400	230°C	2.2 m./min.	0.75m./min.	1 m./min.
RHCO-2555	550	2400	230°C	2.4 m./min	1.3 m./min.	1.7 m./min.
RHCO-2585	850	2400	230°C	3.4 m./min.	1.8 m./min	2.25 m./min.
RHCO-3255	550	3100	230°C	8 ft./min.	4.3 ft./min.	5.6 ft./min.
RHCO-3285	850	3100	230°C	3.4 m./min.	1.8 m./min	2.25 m./min.

RHCO/RHCI Series



The innovative design of the NexxPresss™ RHPO and RHPI series calenders are ideally suited for high volume piece to piece or piece to roll production. The added benefit is the RHPO has the ability to handle roll to roll production as well.

RHPO-1835 pictured

The abundance of options include customized Work Table Extensions, Front Feed Conveyors and Output Conveyers.
(Output Conveyors are standard on all units with 22” ø drum or higher)

Features available for both Wide and Grand format Nexxphase™ calenders include:

- Solid steel construction
- Finely tuned infra-red sensors for precise temperature accuracy
- Nomex belts with reinforced centers offering long lasting durability
- Anti-Ghosting mechanism designed to automatically adjust the tension on the fabric unwinder and rewinder

NexxPress™ High Volume Roll to Roll or Piece Production
Infra-Red Heated Drum or in the traditional Self-Contained Oil Drum available
Transfer width from 1650mm to 3100mm
350, 550 and 850 mm Drum Diameters

Model	Drum Diameter	Optimal Transfer Width	Max. Temp	Max. Speed	40 sec. Exposure	30 sec. Exposure
Infra-Red						
RHCI-1835	350	1700	230°C	2.2 m./min.	0.75m./min.	1 m./min.
RHCI-2135	350	2000	230°C	2.2 m./min.	0.75m./min.	1 m./min.
Oil						
RHCO-1835	350	1700	230°C	2.2 m./min.	0.75m./min.	1 m./min.
RHCO-1855	550	1700	230°C	2.4 m./min	1.3 m./min.	1.7 m./min.
RHCO-1885	850	1700	230°C	3.4 m./min.	1.8 m./min	2.25 m./min.
RHCO-2135	350	2000	230°C	2.2 m./min.	0.75m./min.	1 m./min.
RHCO-2155	550	2000	230°C	2.4 m./min	1.3 m./min.	1.7 m./min.
RHCO-2185	850	2000	230°C	3.4 m./min.	1.8 m./min	2.25 m./min.
RHCO-2535	350	2400	230°C	2.2 m./min.	0.75m./min.	1 m./min.
RHCO-2555	550	2400	230°C	2.4 m./min	1.3 m./min.	1.7 m./min.
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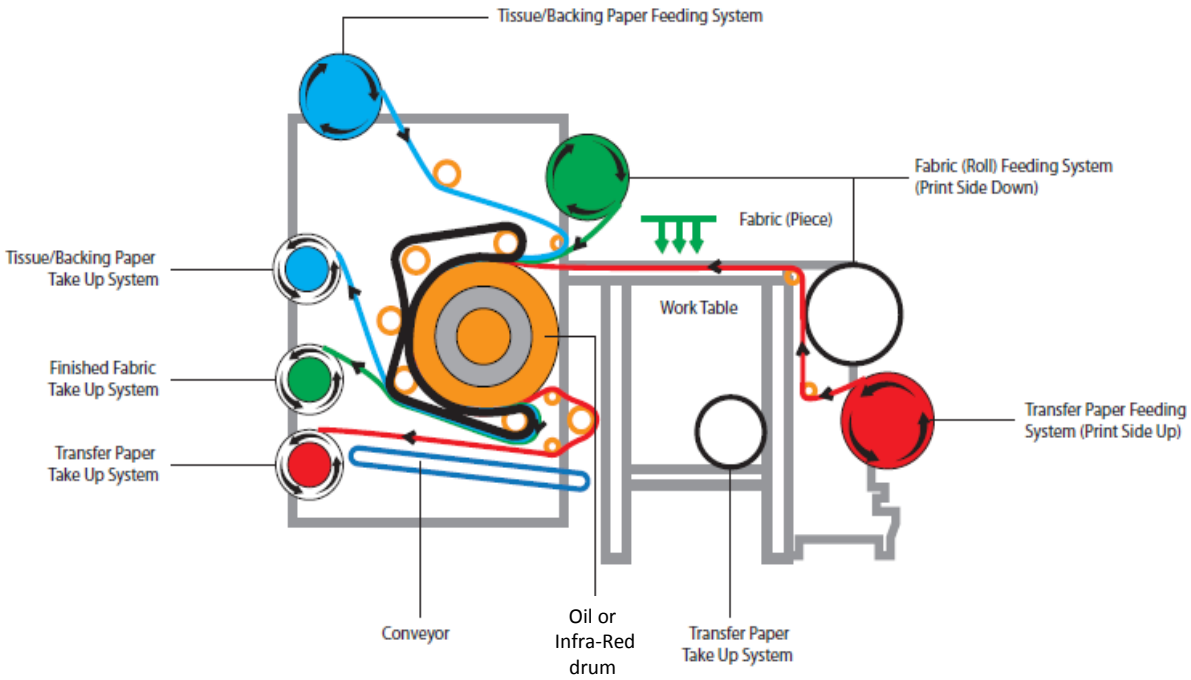
RHPO/RHPI



Keeping the sign and print shops in mind, Royal Sovereign also offers the InPress™ line of calenders. An affordable solution for entry into the dye sublimation category. The 10”ø infra-red or oil options and speeds of 2.3 feet at a 30 second exposure truly sets you apart from the competition.

CX-181 pictured

PX-180 pictured

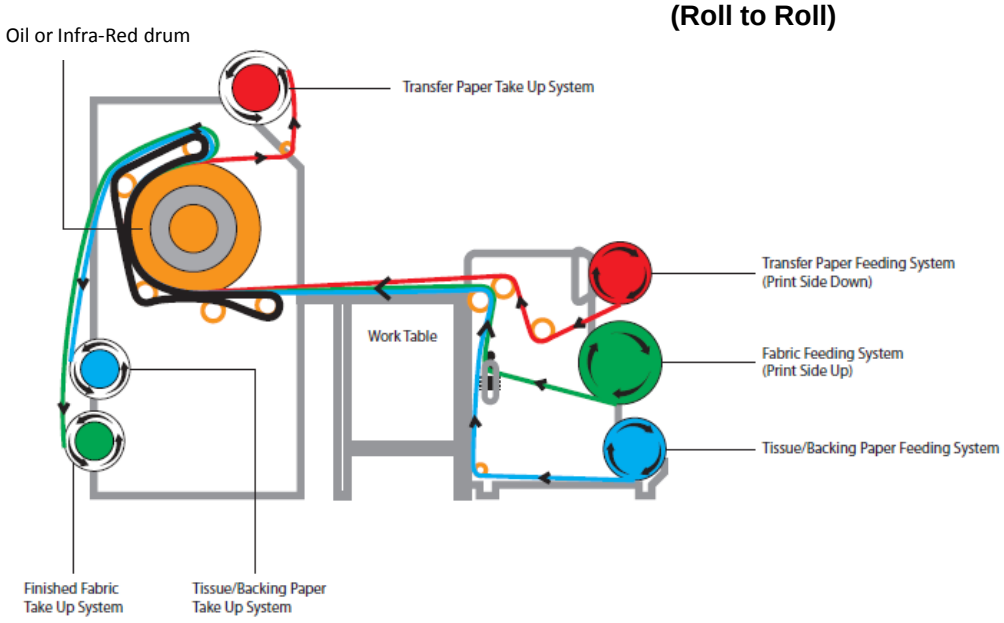
Add the work table option **WTO-18P** to the PX-Series for piece production

Benefits of work table

- Removable table allows for roll to roll and piece production
- Suited for the production of sportswear and garments
- Use tacky or non-tacky paper with ease

CX Series

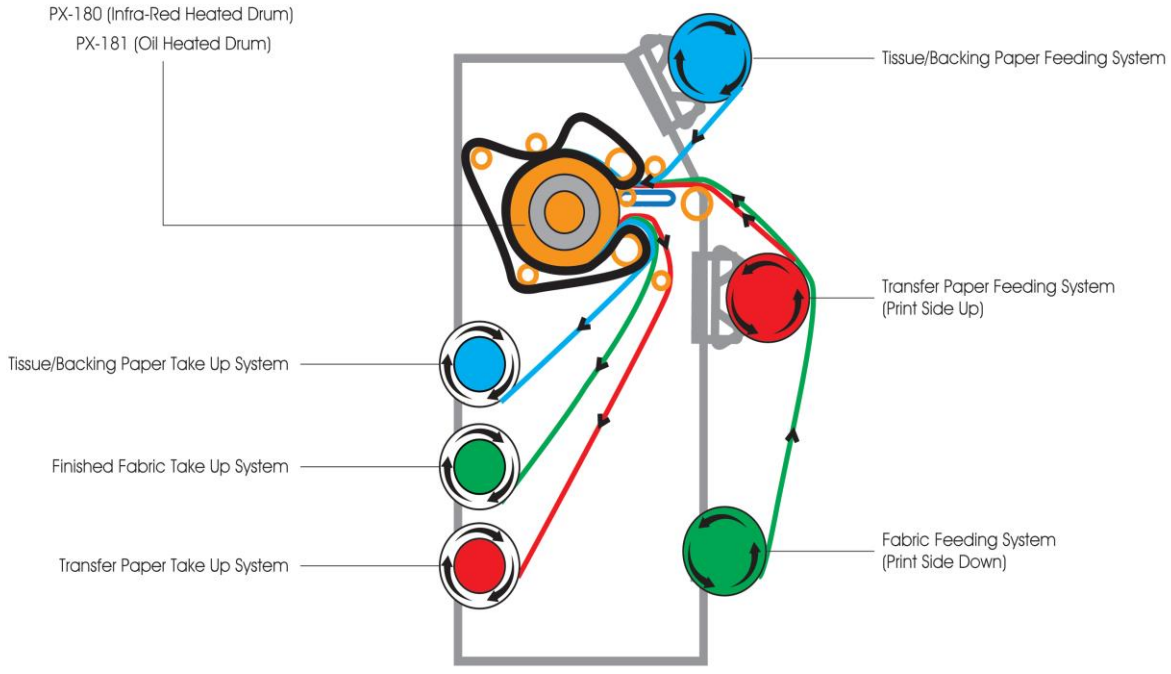
(Roll to Roll)



Model	Drum Diameter	Optimal Transfer Width	Max. Temp	Max. Speed	40 sec. Exposure	30 sec. Exposure
			Infra-Red			
CX-180	260	1650	230°C	1.65 m/min.	0.9 m./min.	1.2 m./min.
PX-180	260	1650	230°C	1.65 m/min.	0.9 m./min.	1.2 m./min.
			Oil			
CX-181	260	1700	230°C	1.65 m/min.	0.9 m./min.	1.2 m./min.
PX-181	260	1700	230°C	1.65 m/min.	0.9 m./min.	1.2 m./min.

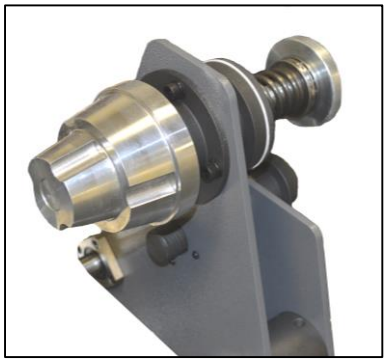
PX Series

(Roll to Roll and Piece Production w/ Work Table Option)



Prefect for creating back lit light boxes and POP displays

Colors and images are transfers with vibrancy and clarity



Universal core adapters makes it easier to switch out fabric and transfer paper rolls

The innovative Anti-Ghosting and automatic belt adjustment will ensure your material does not stretch or skew.

Easy to use controls allows for the effortless manipulation of temperature, exposure time and cool down timer up to 3 hours

Use the pre-heat timer to plan your week.
Schedule to unit to power on at specific times on specific days.

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