

## CANON SOLUTIONS AMERICA DYE SUBLIMATION CALENDER HEAT PRESS SPECIFICATIONS

Canon Solutions America has partnered with the most highly respected manufacturer of heat press calenders in the market, Klieverik. Klieverik Heli B.V. is a dynamic company, focused on rotary thermo-processing equipment for advanced textiles. With more than 40 years of experience, they design, manufacture, install, and maintain innovative industrial machinery. Klieverik's highly versatile machinery provides added value and improves the efficiency of textile printing and finishing operations.

Numerous details go into every Klieverik calender, each with a specific purpose in mind. These details culminate in a world-class calender that precisely controls the critical variables of temperature, pressure, and web handling during the dye sublimation transfer or fixation process. Klieverik's calenders incorporate thermal oil for regulating and accurately maintaining the drum's surface temperature. The calender's unique expansion vessel for the oil, which expands up to 20%, ensures the drum remains 100% full of oil. This design, in conjunction with how the oil circulates internally within the drum, means extreme color uniformity over the width of the drum for every job.

By using simple laws of thermodynamics, Klieverik places heating elements in direct contact with the thermal oil. This results in shorter heating-up times and higher energy efficiency.

Klieverik uses the longest belt in the industry and a specialized PID™ steering system that minimizes lateral movement of the belt, preventing transfer defects. This feature also ensures better longevity of the belt. Klieverik's machines can also be customized with different options to ideally match the manufacturing preferences of our customers.

### Roll-To-Roll Transfer & Fixation Belt Calenders

Klieverik GTC belt calenders offer exceptional performance for roll-to-roll dye sublimation transfer printing (paper to textile) as well as for dye fixation of direct printed dispersed dyes or pigments. The GTC calenders also meet the needs for professional and high-end production. With sharp edge definition, high processing speeds, less waste, and fewer re-prints, the calenders work with a variety of materials such as wovens, stretch-knits, or non-wovens.

### Features

These features are included in all models of the GTC series.

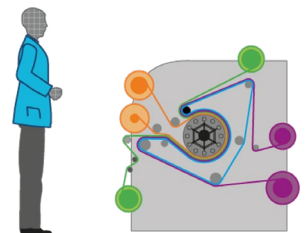
- Low tension textile winding for stretch sensitive materials
- Textile tensioning device
- Universal unwind shaft for textile rolls for any core diameter
- Wind and unwinding shafts for transfer and protection paper, each with tensioning device
- Contact winder for textile
- Scraper blades to prevent paper or textile from wrapping around the drum and to clean the drum
- Air pressure operated paper tension setting
- Touchscreen



### Options

The features below are optional for most GTC models.

- Edge cutting unit
- Compressor
- Exhaust hood
- Pressure laminating roller
- Pneumatic winding shafts



## Specifications

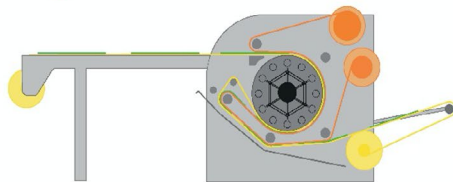
R2R Configuration	Drum Diameter		Working Width		Throughput*		Unit Size & Weight				Crated Size & Weight			
	mm	inch	mm	inch	m <sup>2</sup> /h	ft <sup>2</sup> /h	L mm	W mm	H mm	Wght kg	L mm	W mm	H mm	Wght kg
GTC 81-1850	195	7.7	1,650	64.9	69	746	1,104	2,880	1,430	1,250	2,300	3,400	1,900	1,500
GTC 101-1850	365	14.4	1,650	64.9	168	1811	1,300	3,060	1,460	2,000	1,650	3,300	2,000	2,100
GTC 101-3500	365	14.4	3,200	125.9	326	3,512	1,484	4,656	1,422	3,500	2,300	4,900	1,970	3,600
GTC 111-2000	500	19.7	1,800	70.9	270	2,905	1,484	3,156	1,457	2,000	2,300	3,400	1,900	2,860
GTC 111-3500	500	19.7	3,200	125.9	480	5,165	1,524	4,656	1,502	4,500	2,300	4,900	1,970	4,500

\*30-second dwell time

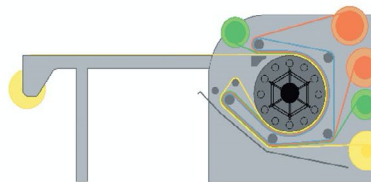
## Sublimation Single Piece Flowline Calenders

All kinds of knits, stretch, and woven fabrics can be used in the calender for applications ranging from sportswear to heavy doormats. This calender is named Flowline because of the way it transports material through the back of the calender. Here the printed pieces can easily be gathered and sorted.

Single Piece Production



Roll to Roll Production



## Features

The calenders are standard equipped with:

- Low tension textile unwind
- Textile tensioning device
- Universal unwind shaft for textiles rolls for any core diameter
- Wind and unwinding shafts for transfer and protection paper, each with tensioning device
- Contact winder for textile
- Scraper blades to prevent paper or textile from wrapping around the drum and to clean the drum

- Cooling down and start-up timer
- Air pressure operated paper tension setting
- Touchscreen

## Options

The features below are optional for most GTC models.

- Extended table
- Compressor
- Pneumatic winding shafts

R2R Configuration	Drum Diameter		Working Width		Throughput*		Unit Size & Weight				Crated Size & Weight			
	mm	inch	mm	inch	m <sup>2</sup> /h	ft <sup>2</sup> /h	L mm	W mm	H mm	Wght kg	L mm	W mm	H mm	Wght kg
VERTEX	195	7.7"	1,650	64.9"	58	639	1,409	2,572	1,318	1,100	1,700	3,000	1,800	1,150
GTC 81-1850 SP FL	195	7.7"	1,650	64.9"	58	639	2,390	2,880	1,430	1,600	2,300	3,400	1,830	1,900
GTC 101-1850 SP FL	365	14.4	1,650	64.9	114	1,225	2,550	3,060	1,460	2,300	2,300	3,400	1,830	2,300
GTC 111-2000 SP FL	500	19.7	1,800	70.8	173	1,859	3,677	3,156	1,457	2,350	1,900	3,400	1,950	2,750
GTC 111-3500 SP FL	365	14.4	3,200	125.9	195	2,098	2,000	4,655	1,422	3,980	2,300	4,900	2,200	4,100

\*30-second dwell time

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