

# CALENDER DS67

## *Heat transfer calender for dye sublimation & thermofixation*

- Developed and produced in France, this calender can be used for both low and high volume productions.
- This heat transfer machine with its performing features at this price level opens interesting opportunities to digital printers willing to start in textile printing or to experienced textile printer aiming to acquire a new machine offering versatility and ease of use.

To meet professional expectations and the growing demand in textile printing, Kala introduces its DS 67 calender with high performance and features at a very attractive price.



➤ Maximum working width 1,70 m (67")

# CALENDER DS67

## Reasonable energy consumption

The electrical consumption of calender with powers of 3500W (16 A Model) or 5000 W (32A Model) is low.

The heating system reaches the required temperature fast and uses less electricity compared to heavier equipment using heating oil technology.

The heat is supplied by an infra red lamp, specially designed in order to provide an even temperature from one end of the roller to the other.

The accuracy of the temperature is controlled by a high precision infra red sensor checking consistency of the heat during the process and providing a stable transfer result through the duration of the job.

Short heating and cooling time.



16 amperes version



32 amperes version

## Connection to the main power

2 versions are available :

- **16 Amps** for user with a limited working volume and not requiring high productivity.

Heating time from 20°C (68°F) to 200°C (390°F) within 50 mn.

Recommended exposure time : 60 to 180 seconds.

- **32 Amps** for user with a high volume and needing to work faster.

Heating time from 20°C (68°F) to 200°C (390°F) within 35 mn.

Recommended exposure time : 45 to 180 s

## Material used

The belt is made in Nomex® reinforced in the center by a kevlar blade which guarantees the level of transfer quality through time. Use of kevlar on top of Nomex is a security for the belt size over the years.

Mechanically adjusted without compressed air, the belt does not need any adjustment by the user before or during transfer.

With its robust construction, the calender is built to last and perform for a long time.

## Temperature and exposure time

Temperature is adjustable up to 220°C (428°F).

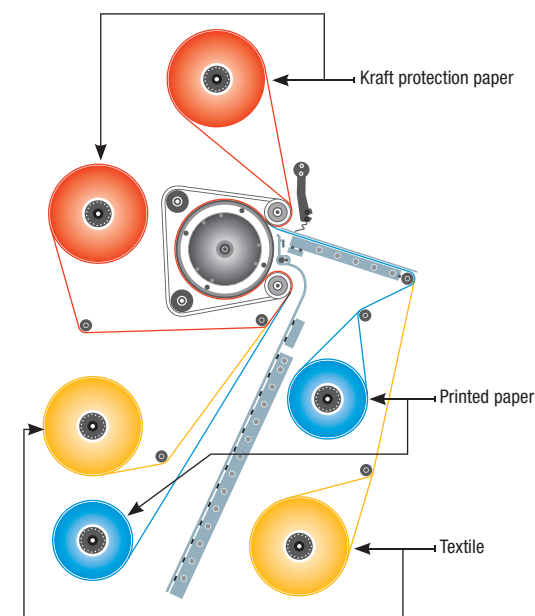


Exposure time can be adjusted from 25 to 180 seconds.

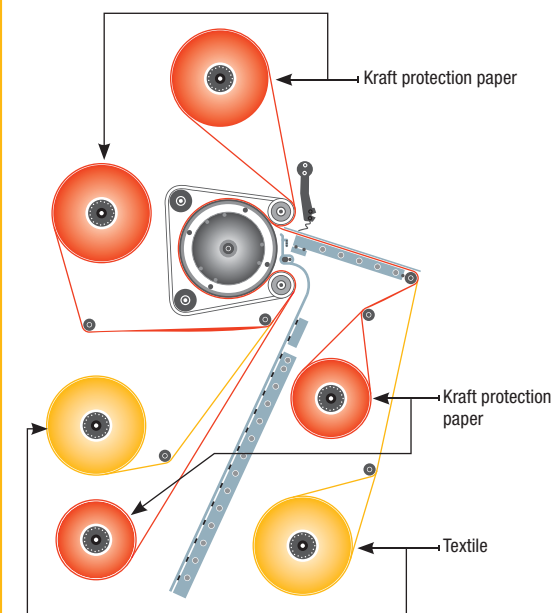


## Media transport circuit

### Print transfer onto textile



### Thermofixation of printed fabrics



## Maintenance and cleanliness

Not using oil or air compressor, this machine works in a clean environment and does not require much maintenance.

Two 50mm (2") diameter inserts located at the back of the machine can be used to plug an air filter in for vacuuming exhaust fumes caused by sublimation.



## Ease of use

Loading of the material : the calender is delivered with 6 self locking shafts ; 3 for feeding material and 3 for take up after sublimation.

These shafts can be used at any position on the machine. Once installed on the shaft, the roll of material is kept in its position by the locking profile. No tools are required to install the media onto the shaft.

These shafts are graduated for an easy centring of the material reels.



## Safety features

The operator works in total security with :

- a plexiglass cover guard in front of the belt which prevents any body part or any material being caught inside the machine and could cause damages to the calender mechanism afterwards. When this guard is up, the machine automatically stops.
- two emergency stop buttons located in front and rear of the calender.

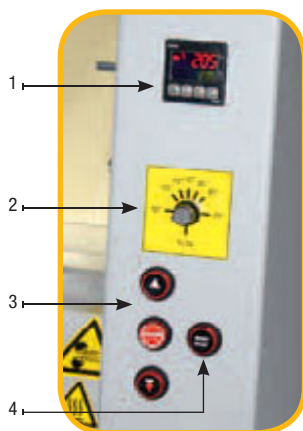
If any of this features are activated, it is necessary to reset the machine by pressing onto the reset button to work again. All reachable thermo sensitive parts of the calender like the feeding table or the chassis are heat isolated.

The worker keeps his comfort while working and is not exposed to any burning risks.



## Control panel

- 1 - Set temperature selection and control.
- 2 - Selection of exposure time & speed.
- 3 - Forward, Stop, Reverse.
- 4 - User's safety reset.



## Applications

DS 67 will transfer dye sublimation from paper to fabric or fix ink on directly printed fabrics.

It works with all types of prints made from dye inks, direct disperse dye inks, oil base inks... for a wide range of application in- & out-door : banner, flags, displays stands, decoration, sportswear, promotional items...

Quality of transfer : DS 67 offers an excellent penetration of the ink through the material, both in width and length and consistency of the colours through the whole process.





# CALENDER DS67



**Front view**



**Rear view**



## Technical specifications

	DS67 - 16 A	DS67 - 32 A
Maximum working width	1680 mm (67")	
Maximum temperature	220°C - 428°F	
Diameter of the heating cylinder	250 mm (10")	
Heating system	Infra Red bulb	
Heating time from room temperature à 200°C	50 mn	30 mn
Digital display of temperature	Yes	
Driving belt material	Nomex® reinforced by a kevlar blade	
Speed / Exposure time 40 s Exposure time 90 s	65 m/h - 1.08m/mn / 71 yd/h - 1.18 yd/mn 17 m/h - 0.29 m/mn / 18 yd/h - 0.30 yd/mn	
Reverse operation	Yes	
User protection	Safety cover in front of the rollers with safety switch and reset on the control panel	
Exhaust fume extraction	2 extraction pipes diam 50mm (2") linked to both ends of the machine to vaccuum smoke and vapours produced during sublimation.	
Number of self locking shafts included	6 universal shaft, 3 unwind 3 rewind	
Maximum material feed roll dimension	upper position 250 mm (10") mid front position 200 mm (7,9") low front position 300 mm (11,75")	
Power	3700 W	5500 W
Voltage	230-240V / 50Hz - 60 Hz single phase	230-240V / 50Hz - 60 Hz single phase
Amperes	Max. 20 Amperes	Max. 28 Amperes
Dimension of the machine	W 208 x D 96 x H 155 cm / W 81" x D 38" x H 61"	
Weight of the Machine	480 kg - (1060 Lbs)	
Dimension of the shipping crate	W 218 x D 93 x H 170 cm / W 86" x D 37" x H 66"	
Shipping weight	600 kg - (1322 Lbs)	
RoHS compliant	Yes	
CE certified according to Machines Directives (2009) 2006/42/CEE including low tension directive 2006 95 CE norm EN 60204 - 1 (2006) and Electromagnetic Compatibility 2004 108 CE according to norm EN 61000-6-1 and EN 61000-6-3. Edition 2007.		
Warranty	One year	



RoHS

