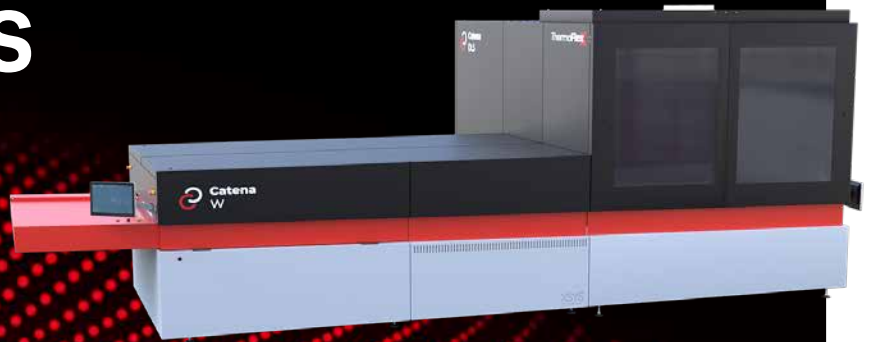


# Catena WDLs

The Catena Washer, Dryer,  
Light-Finisher and Stacker



The Catena **Washer, Dryer, Light-Finisher and Stacker** provides the highest levels of automation available today in Flexographic plate processing. After loading a plate into Catena-WDLs, no further operator intervention or contact is required until taking the fully finished plate for cutting or dispatch.

## ThermoflexX Monitoring

- + All critical information such as motor current, controllers, operating conditions and working temperatures are monitored. This information can be stored and made available for total plate QC records.
- + **ThermoflexX ProServeX** provides a cloud-based, constant monitoring service of all key components throughout the range. A brand-new level of predictive maintenance with on-line support is available. The need for physical service-interventions is minimised.
- + **Catena Cockpit** provides a highly visible status report, via 'airport style' screens, showing all plates, their progress and expected time of completion.

## ThermoflexX GUI & Smart Comms

- + All ThermoFlexX equipment utilises leading brand PC's, monitors and the latest Windows OS aimed specifically at high-end system development. ThermoFlexX Graphic User Interface is displayed via a Full HD touch-screen making operation extremely fast and simple. Key information is clearly presented to the operator for ease-of-operation without errors.

## ThermoflexX Smart Communication

- + Smart Comms between imagers and Catena modules gives an even higher level of set-up automation and further speeds up plate production.

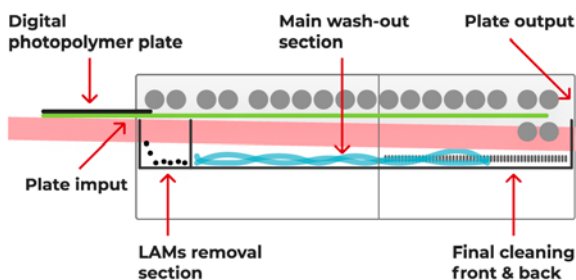
## Washer Section

### Highest Productivity with plate Alignment

- + Unique plate alignment when loading the plate into the Catena-W avoids plate skew during transport. The advanced plate queuing, limiting the distance between plates to 50 cm, maximizes throughput for the highest possible productivity. At the end of the wash-out process the plate feeds directly into the DLS section.

### Separate LAMs Removal Sections

- + Catena-W and WDLS have a separate pre-wash section designed to remove the LAMs carbon mask layer and contain it for easy maintenance and high quality plates. After the main wash-out section, a back-wash takes place so that in the unlikely event that any carbon or other residue remains is fully removed.



## Light-finisher & Stacker Section

### Catena-DLS has

- + **7 stacking positions**
- + **10 dryer units**
- + **UVA+UVC light-finishing section**

### Precision Light Finishing

- + UVA and UVC lamps are monitored and controlled to ensure ultimate consistency from plate to plate. Sensors test intensity between each plate and monitored to ensure timely replacement when necessary. A record of lamp performance can be available for every plate for ultimate QC tracking. Robotised movement loads and unloads plates from the dryer sections into the light-finisher, with a rest in the stacker to cool before post-exposures. Finished plates are automatically unloaded from the light-finisher into the stacker after exposures, ready for collection.

### Closed Operation

- + A sealed environment with efficient extraction ensures minimum solvent fumes in the working area, even when opening the doors a minimum of solvent smell will be perceived as the solvent section is completely enclosed.

### Automatic Pinbar

- + Plate punching is not required. A cleverly designed pinbar system transports the plate flawlessly through the washing process and returns for the next plate, no need for manual transportation of the pinbars. Three pinbars ensure continuous availability. Only an edge of 8 mm plate material is required to pull the plate through the wash-out unit (other systems typically need 20 mm). The pin-bar is returned without travelling through the dryer, saving a great deal of maintenance as any polymer residue isn't baked on and simply disappears.

### Robotised Plate Movement

- + After washing, plate control is taken over by the DLS section. Robotised movement manoeuvres the plate through drying and light-finishing. As well as storage positions for finished plates, the stacker can act as a 'rest' position to ensure that plates are properly cooled after drying before being light-finished.

### Individually Controlled Dryer Sections

- + Independent heaters, sensor control and ventilation for all dryer sections. This ensures exact temperature and timings for all plates. Only required sections need to be active for economic operation if only a few sections are required.

“

Our objective was to increase our system uptime and plate output efficiency. Catena equipment has helped us achieve this.

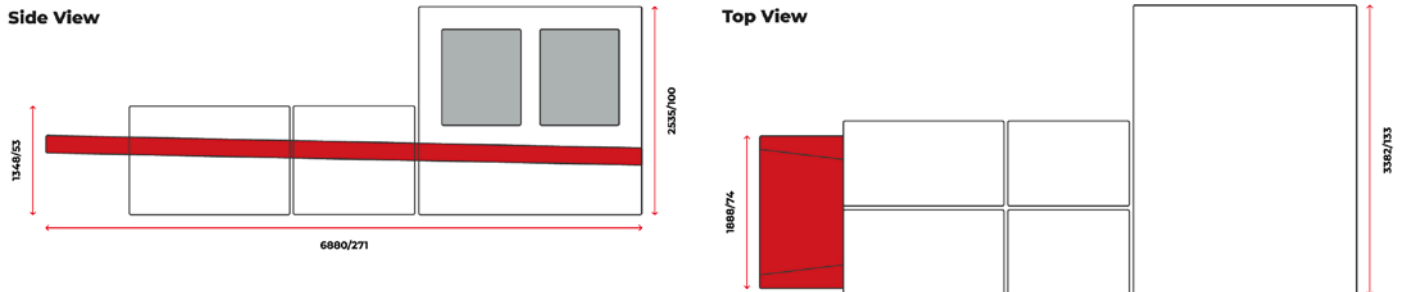
- Stefaan Herman,

Head of Benelux, Miller Graphics



# Catena WDLs

## Technical Specifications



### Technical Data

### Catena WDLs

|                                      |                                                      |
|--------------------------------------|------------------------------------------------------|
| Maximum plate size (W x L) (mm/inch) | 1270x2032mm/50x80"                                   |
| Minimum plate size (W x L) (mm/inch) | 400x400mm/16x16"                                     |
| Electrical connection                | 380V 3ø N+PE 50/60Hz 32A                             |
| Extraction                           | 1x160mm 900m3/h<br>1x160mm 600m3/h<br>1x160mm 55m3/h |
| Compressed Air                       | 6 BAR Average 50l/min Peak 250l/min (10 seconds)     |
| Maximum Plate thickness (mm/inch)    | 7mm/0.276"                                           |
| Maximum Plate thickness (mm/inch)    | 0.76mm/0.03"                                         |
| Weight                               | 7817kg/17197lbs                                      |
| Dimensions (W x D x H) (mm/inch)     | 6890x3390x2500mm / 271x133x98"                       |

### Please contact us for additional information.

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