

film label carton

The Flexible Solution

Whether you are printing on unsupported film, foil, tag, paper, carton, cup, or board, **the LX from Aquaflex** offers unsurpassed **durability and versatility**. Pull-out inking drawers make job changeover and clean-up quicker and easier than on conventional presses, increasing actual production time of the press. As with all Aquaflex presses, a wide range of options makes the LX **highly customizable**. It can be configured to meet your unique needs, providing that extra **competitive edge** so important in today's demanding market.



Specifications of LX Presses:

Specifications

13-1/2" (343mm)
16-1/2" (419mm)
18-1/2" (470mm)
20-1/2" (521mm)
23-1/2" (597mm)
25-1/2" (648mm)
28-1/2" (724mm)

Max. web width clearance

13-1/2" (343mm)
16-3/4" (425mm)
18-3/4" (476mm)
20-3/4" (527mm)
23-3/4" (603mm)
25-3/4" (654mm)
28-1/2" (724mm)

Max. printing width

13-1/4" (337mm)
16-1/2" (419mm)
18-1/2" (470mm)
20-1/2" (521mm)
23-1/2" (597mm)
25-1/2" (648mm)
28" (711mm)

Printing repeat

8" to 24" (203 to 610mm)

Print cylinder shaft diameter

3/4" (19mm) 1" (25.4mm) for (20", 23", 25", 28")

Impression cylinder diameter

3.82" (97mm)

Frame thickness (flexo)

1" (25.4mm)

Line shaft diameter

1-3/8" (35mm)

360° register

Standard

Gearing

1/8 - CP

Die-cutting stations

1-1/4" (31.75mm) or 1-7/8" (47.6mm)

Maximum die-cutting width

See maximum printing width

All technical specifications are established under controlled conditions. Performance of equipment will vary depending upon operators, environment, specific applications, chemistries, substrates, and other variables. Equipment designed for custom applications may require modifications and may not meet the technical specifications set out herein. Aquaflex reserves the right to change any technical specification set out herein and any aspect of the equipment described herein at any time and without prior notification.

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Maximum die-cutting repeat

24" (609.6mm)

Anvil cylinder diameter

5.09" (129mm) or 6.366" (161.7mm)

Removable anvils for die station

Two

Frame thickness (die)

1-1/4" (31.8mm) or 1-7/8" (47.6mm)

Unwind capacity

42" diameter (1066.8mm)

Rewind capacity

30" diameter (762mm) or 42" diameter (1066.8mm)

Waste rewind

30" diameter (762mm)

Roll lift

Hydraulic

Power requirement

480 VAC

Air pressure

100 PSI - 7 bar

Speed

500 ft/min. (152.4m/min.)

Lubrication

Automatic

Options:

- Video plate mounter
- Automatic register
- Stroboscopic lamp
- Closed-loop tension control
- Upper and lower bypass idlers for multiple web capacity
- Re-insertion
- Online integrated labeling capability
- Movable laminating station
- Movable waste rewind
- Rotary screen station
- Hotmelt (pattern or flat coating)
- Rotogravure station
- Inline windowing capability for carton applications
- Numbering system
- Waste removal system for carton
- Trim removal system
- Dual slot removable die/sheeting station
- 60" (1524mm) or 72" (1828.8mm) unwind capacity
- Multiple substrate capabilities

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AQUAFLEX™
Engineered for your success

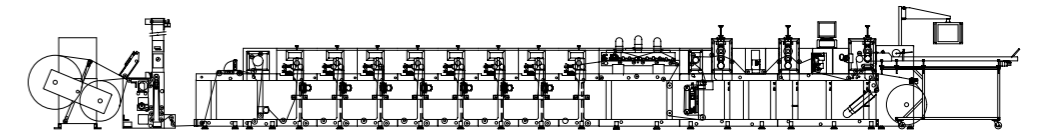
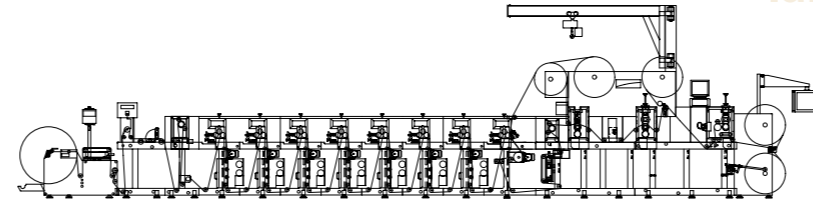
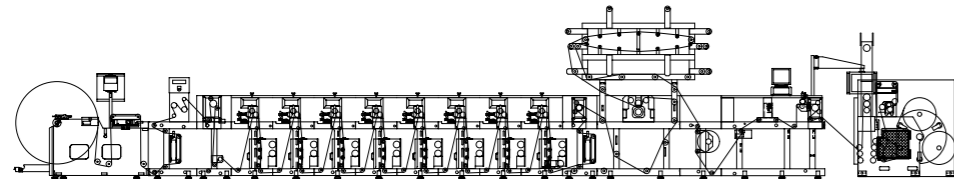
LX

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Unwind Unit

The LX press is equipped with an unwind unit of 42" (1067mm) capacity, including 3" (76mm) core chuck, electronic sensing web guide, splicing table, hydraulic roll lift, and closed-loop tension control system with magnetic particle brake.

Web Tension Control

Tension zones are created in order to isolate the printing area from the converting area. All Aquaflex presses offer an infeed, midfeed, and outfeed. This proven system is designed to obtain accurate control on film, foil, paper, and carton.

Chill Drum

The optional driven chill drum is used to dissipate residual heat on UV lamination or specific application after a drying tunnel. The diameter of the chill drum varies as per the application. Interstation driven chill drums are also available.

Flexographic Printing Unit

Unique to all Aquaflex presses is the self-cleaning plate feature. This system increases the efficiency of the press by removing residual ink from the plate cylinders. The anilox and plate cylinders release alternately, transferring residual ink to the web, leaving the print cylinders clean and minimizing the need to hand clean the plates after the press stops.

Rotogravure

Aquaflex also offers our own optional Rotogravure unit for special coating applications such as cold sealing and gluing. Available for flood or pattern in top or back application. The upper high-velocity drying tunnel with air impingement nozzles is customized to offer the proper dwell time.



The simple and accurate print station design provides access and adjustment. The steel construction unit is designed with fine pressure adjustments of anilox and plate cylinders, and lateral and linear register running adjustment. Each flexographic unit is equipped with infrared lamps and a hot air blowing system.

Inking Drawer

Tool-less anilox, doctor blade, and ink pan removal allow for removal, drainage, and cleanup of the ink pan and anilox/doctor blade assembly. A new set up of a print station can be performed while other stations are printing and producing.



Drying Systems

There are several different types of drying systems available. A combination of short wave infrared lamps and hot air is used on absorbent materials. For non-absorbent materials, a high-velocity drying unit with air impingement nozzles combined with variable short wave infrared lamps assures adequate drying. Aquaflex customizes our drying system as per the application.



Options

- Printing repeat upgrade
- Enclosed doctor blade with ink pump
- Delaminating/relaminating
- Turn bar
- Ink pumps
- Doctor roll and blade system
- Reversible printing station
- UV curing unit 400, 500, 600 w/in (157,197, 236 w/cm)
- Drying package for non-absorbent material
- Closed loop tension systems and lamination systems

Converting Group

The LX presses can be equipped with die-cutting, slitting, and/or sheeting stations in order to perform various cutting, embossing, hot stamping, or perforating operations. Free spaces may also be made available for additional converting units for punching, inserting, or other units. Each station is equipped with linear running adjustment.

As per the application, the LX presses can be equipped with waste rewind and unwind lamination for top or back operations.

Horizontal Drying Tunnel

This option is mainly used to offer extra drying for blister cards and film lamination applications. The high-velocity drying tunnel with air impingement nozzles and variable short wave infrared lamps is customizable to offer the proper dwell time. In the film application, a heated nip roll at the exit of the horizontal drying tunnel can also be used to improve lamination on film.



Rewind Unit and Delivery

The basic LX presses are equipped with a 30" (762mm) dual rewind unit including 3" (76mm) core chuck, automatic tension, and web holding device for roll changing without affecting the web tension and position. Other rewind units are available as per the application.

Double Unwind

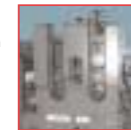
This option is used for multiweb applications such as coupons and forms. These unwinders are designed with closed-loop tension control along with magnetic particle brake, integrated web guider, and a roll-loading system.

Options

- Die adapters
- Die-cutting cylinder, lateral adjustment
- Embossing
- Hot stamping
- Male/female punching
- Shear knife slitting
- Removable anvils on sheeter
- Laminating systems
- Fan folder

Die-cutting/Sheeting

For board application, heavy duty units are used (1.9"/48mm frame thickness). In both cases a simple design without compromise assures intense and durable works. A dual slot removable die/sheeting station is also available for added consistency in die/sheeting applications.



Conveyor

A shingling conveyor in various lengths is used for the tags, labels, and carton applications. A spreading device is available for multi-stream applications. Aquaflex also offers customized conveyors with under stacking and vertical stacking delivery.



Options

- Driven single 30" (760mm), 40" (1016mm), or 60" (1524mm), motorized rewind (for film and board applications)
- Conveyors: Various length stackers (over or under stacking, batch stackers, or custom stackers)
- Thicker side frames available for carton applications
- Flat bed die-cutter



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