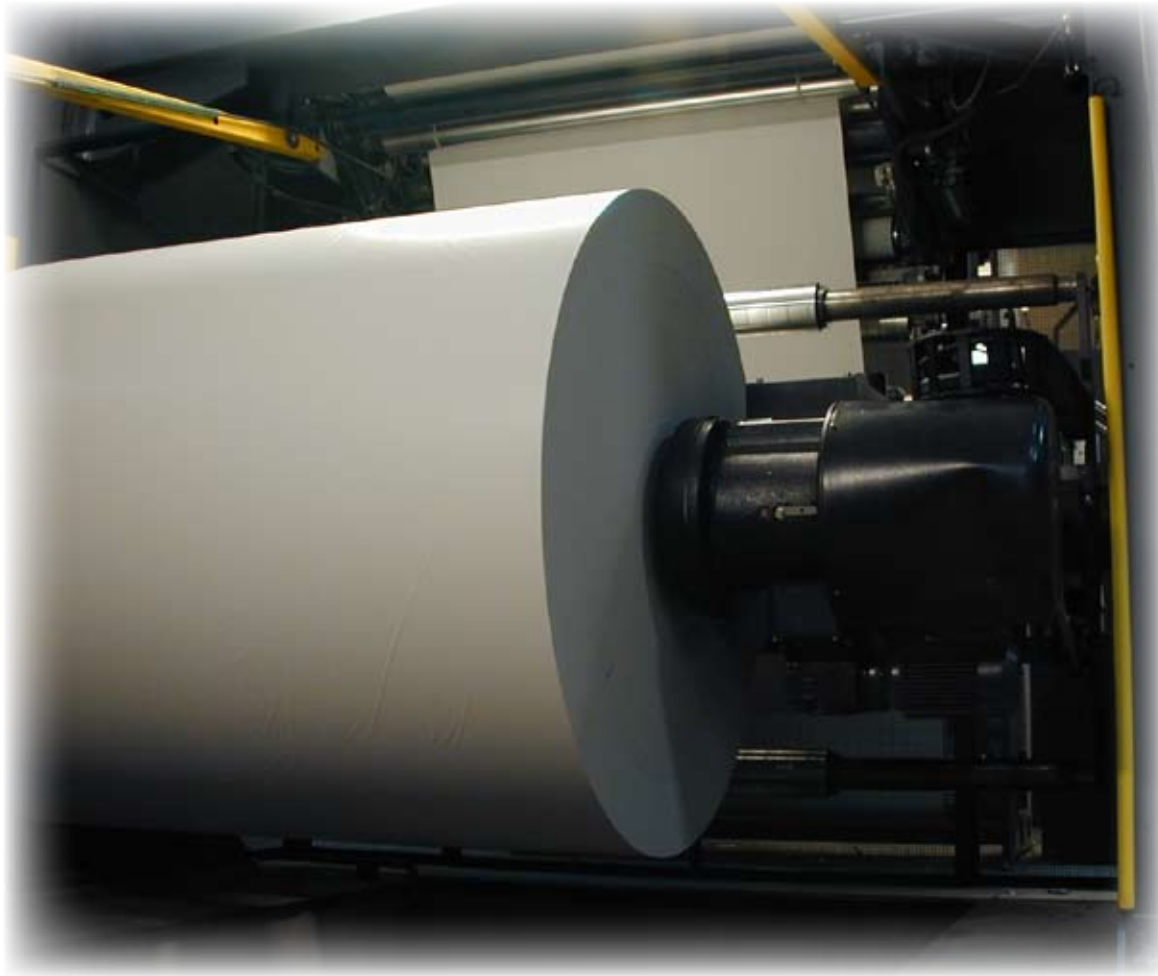


DLC 2100/3200 Flying Paster/Splicer



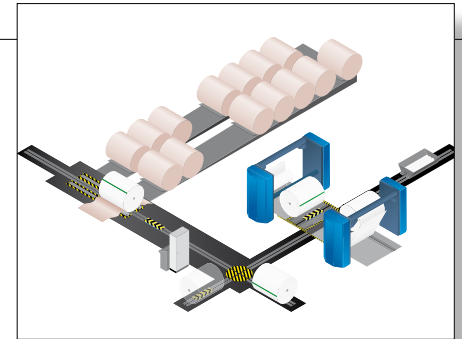
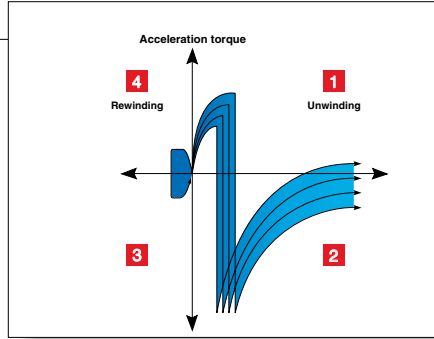
*High Performance Paper Handling System
for High Volume Commercial Printing*



The completely revised DLC once more sets industry performance standards. In 1991 it established the 3000 fpm (15 m/s) pasting specification and in 2000 it extended this to 3350 fpm (17 m/s). In addition, the maximum roll weight capacity has been increased to 7046 lbs (3.2 tons). This new model has been specifically developed for complete performance compatibility with the new generation of high volume, ultra wide commercial printing for web widths of 60-82 inches (1530-2080 mm). The paster can be extended into a complete paper handling sub system by adding: connected infeed, web guides, and automatic roll loading without any operator presence.

The bottom line is process knowledge

DLC 2100/3200 Flying Paster/Splicer



DLC 3200 with DSA infeed, web guides and ROLLOAD automated loading

Combined core drive and braking used for both unwinding and rewinding

Optional ROLLOAD® automated handling system allows up to 100% no operator presence during roll loading and changing

Performance Benefits

- Reduced paper waste and high press availability
- Extremely rapid web tension control reduces waste
- Virtual elimination of paster-caused web breaks
- Very low web-up tension avoids web breaks
- Better handling of damaged and out-of-round rolls
- Flexibility to splice small roll diameters
- Simple splice preparation
- Short web leads
- Fast make ready
- Low maintenance
- Automation levels up to 100% no operator presence roll changing
- Split arm option

Complete Design Review

The design and manufacturing review has taken advantage of field operating experience and the availability of new technologies to ensure excellence in every detail. Some of the changes include:

- Long life and more efficient chucks
- Faster acceleration
- More accurate tension control
- Low web-up tension 6.74 ± 2.25 inches ($3 \text{ daN} \pm 1 \text{ daN}$)
- High vibration resistance
- Reduced maintenance

An extremely high level of automation is now included as standard equipment consistent with ultra high productivity printing plants.

Optimum Tension Control

The new AC motors with vectorial flow control are a highly responsive drive and braking system which provides tension control up to 10 times faster than conventional systems. This provides a more constant web tension irrespective of variations of press speed. Butt rewinding is another function.

Stable web tension is assured from the pneumatic dancer roller assembly with potentiometer measurement. Tension is managed by the PLC which controls the four quadrant motors to constantly maintain the dancer in balance. Tension performance is further improved by the short web leads of the DLC.

Core braking replaces conventional pneumatic disc brakes. Additional benefits are reduced maintenance and noise level. Separate electric brakes prevent roll rotation during splice preparation and if required supply additional torque during an emergency stop.

Roll acceleration from the core improves control and eliminates contact with the paper surface. It gives better handling of damaged and out of round rolls and simplifies splice preparation.



The touchscreen control provides the operator with easy control and rapid access to information

Easy Roll Loading

The DLC 3200 paster works with many different configurations of roload systems, from manual to fully automatic.

Fully automatic chucks improve operating efficiency and safety. Loading is controlled by a push button for chuck engagement with automatic tightening at the end of insertion. The chucks are positively locked into the core and do not have to be re-tightened during running - even after an emergency stop. As an added safety feature, the lock will not release even if electricity and compressed air supply is interrupted.

The optional ROLLOAD® automated handling system allows up to 100% no operator presence roll changing. The benefits of operation include reduced paper waste, higher efficiency and enhanced safety.

Pasting

The gapless splice pattern is simple to prepare. It can be either straight, V or W. The detection system uses a photo cell with black biodegradable tabs. Paste and cut are made simultaneously under tension with a constant short tail length to minimize potential folder jams.



DLC 3200 Paster

Control System

The pasting cycle, tension and running operations are automatically managed by a PLC. Operating status and fault finding diagnosis are displayed on the supervision screen. Like all MEGTEC Webline products the paster can be integrated with the press control system. A paper management data system is also available.

Roll Alignment

Accurate pre-splice alignment of the incoming roll to the running web is essential to eliminate overlapped edges which can be a major cause of web breaks. On the DLC 3200, automatic individual roll alignment is standard equipment.

Web Guides

Web guides are available (option with connected and independent infeeds) and can be connected with the paster's sidelay to provide web pre-alignment. This also eliminates any counter correction between sidelay and the web guide.



Operator display

Infeed Versions

Tension control begins at the paster. MEGTEC's pasters and DSA infeeds can be controlled in tandem for optimum performance. This allows the paster to operate at a low tension to limit tension variations to be processed by the infeed. The DSA's extremely stable tension of ± 1.1 lbs (0.5 daN) is made possible by the use of high dynamic servo regulation with low inertia mechanical elements, twin dancer rollers and a nipping roller.

Connected or independent DSA shaftless infeeds provide fast and accurate tension control from 11 lbs (5 daN) up to 400lbs (180 daN) with optional web guides.

A separate model (DLC 2100) is available for commercial and newspaper printers requiring roll weights up to 4624 lbs (2.1 tons), and roll widths up to 67 inches (1700 mm).

DLC 2100/3200 Flying Paster/Splicer

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Standard Equipment & Features

- Flying paster with 2 arms
- Core acceleration and braking by 4 quadrant AC motors
- Control and regulation by PLC
- Splice pattern straight, V or W
- Black pasting tabs with photo cell detection
- Simultaneous cut & paste under tension
- Local push-button panel and WEBVIEW
- Arm automatic positioning
- Automatic roll alignment before splicing
- Normal and symmetric arrangement
- Manual cocking roller adjustment to assist running deformed rolls
- Independent frames
- Fully assembled, pre-wired, pre-piped and tested for easy installation
- MEGTEC motorized web-up device option

Versions at Additional Cost

- Split arms
- 100 tons load bearing frames
- Remote control panel for sidelay, web tension and brakes
- WEBCOM (WEBVIEW + interface for press communication)
- Integrated DSA Infeed
- ROLLOAD Paper Handling System
- QUALIROLL Paper Management System

Operating Specifications

Maximum roll weight	7190 lbs	3200 daN
Maximum running & splicing speed	3350 fpm	17 m/s
Minimum splicing speed	165 fpm	0.83 m/s
Maximum roll Ø	51 inches	1300 mm
Minimum roll Ø for splicing	20 inches	500 mm
Minimum roll width for splice	10 inches	250 mm
Roll core inner Ø	3 inches	76 mm
Standard tension range	11-66 lbs	5-30 daN
Option web tension range: Integrated infeed	307 lbs/in	120 daN/m
E-stop rate	330 fpm/s	100 m/mn/s
Paper weight range	25-100 lbs	37-150 gsm
Web width	60, 67 and 82 inches	1530, 1700, 2080 mm
Sidelay adjustment	± 7/8 inches	± 20 mm