

DLP Flying Paster/Splicer



*Proven Performance & Productivity
for Newspaper & Semi-Commercial Printing*



The DLP has demonstrated excellent performance and value in several hundred installations since its release in 1995. The paster is the evolution of the DME which has been the industry reference standard since 1980 with over 2000 installations. The DLP combines proven technologies with a wide choice of features. The standard model provides extremely high functional value and its flexibility makes the DLP completely adaptable to the widest range of printing environments.

The bottom line is process knowledge

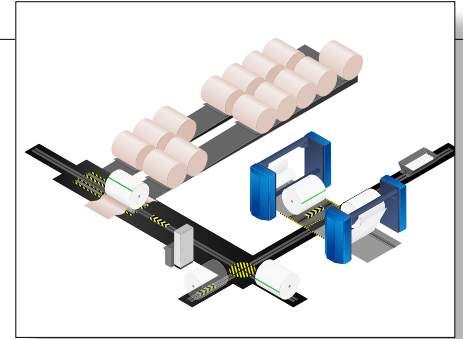
DLP Flying Paster/Splicer



The DLP combines proven technologies with a wide choice of features



Operator control panel for paster setting with a display screen for status, fault finding, service diagnosis and help screens



Optional ROLLOAD® automated handling system allows up to 100% no operator presence

Performance Benefits

- Virtual elimination of paster-caused web breaks
- Rapid and stable web tension control (core braking)
- High speed acceleration
- Individual roll alignment prior to splice
- Short web leads
- Fast make ready
- Reduced paper waste and high press availability
- Simple splice preparation with biodegradable tabs
- Simple operation
- Control panel displays status, diagnosis and help screens
- Low maintenance
- Flexibility to splice small roll diameters
- Paster can be configured as a modular paper handling system
- Automation levels up to 100% no operator presence roll changing

Commercial

For 8 and 16 page heatset presses, the DLP 2-50 is an ideal base for a complete paper handling system which can include automatic roll loading, shaftless infeed and web guides.

Newspapers

The DLP 2-50 is a frequent choice for multi-web newspaper applications. The integration of a compact infeed can significantly improve conditions for 4 color printing quality and reduce waste. It is available with 2 arms, normal and symmetric arrangement for center loading. The DLP 1000 is a special version of the DLP 2-50 and has been designed and configured to exactly match the requirements of fast-running single wide newspaper presses. The DLP 1000 is available in 40 inches (1020 mm) web width only and allows to run rolls up to 2200 lbs (1000 kg), the maximum weight of 50 inches (1270 mm) diameter newspaper rolls in single wide newspaper printing

Semi Commercial Heatset

The DLP 2-50 is the ideal solution for production where commercial quality tension control is a key to success for high quality and minimum waste, plus its ability to handle heavy coated paper. It combines perfectly with the DLP 1000 in mixed installations where one web is equipped with a heatset dryer.

Easy Roll Loading

Motorized chuck insertion eliminates roll shafts to improve operating efficiency and safety. Roll loading is directly from the floor into the arms; no hoist is required. The low minimum roll diameter for splicing of 22 inches (550 mm) allows significant flexibility for running part rolls without re-winding or special handling. Normal and symmetric configurations are available for dual web center loading.

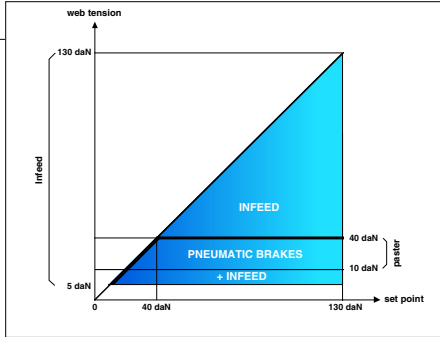
The optional ROLLOAD® roll handling system enables easy roll changing. The benefits of operation include reduced paper waste, higher efficiency and enhanced safety.

Acceleration

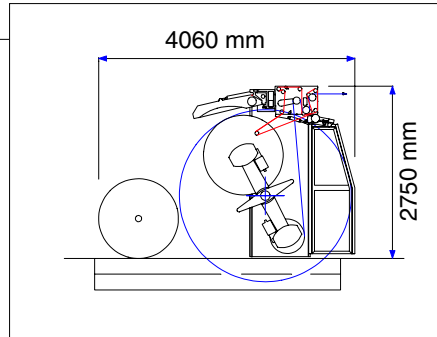
Belt acceleration offers simplicity and reliability at splicing speeds up to 2500 fpm (760 m/min). The DLP features a high speed single narrow belt with motorized positioning of the acceleration arm making it simple to use.

Pasting

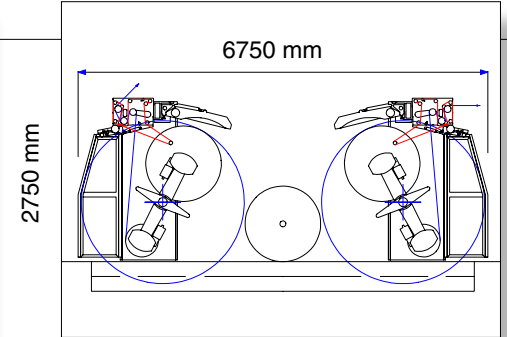
The splice pattern can be either straight, V or W. The detection system uses a photo cell with black biodegradable tabs. Paste and cut are made simultaneously under tension. A constant short tail length minimizes potential folder jams.



Paster and DSA infeed can be controlled in tandem for optimum performance



DLP 2-50 with integrated infeed



Dual DLPs with center loading

PLC Control

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.

Operator Interface

Key functional hard buttons are duplicated on each paster arm. The operator panel features push buttons for all required operations and an alphanumeric display. The optional MEGAVIEW display screen features status, fault finding, service diagnosis and help screens (optional). An optional printer and paper management data package are 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. Motorized individual roll alignment is standard equipment and a completely automatic version is also available.

Web Guides

Web guides are available as an option 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. CM web guides are available as independent units or they can be integrated with MEGTEC pasters and infeeds.

Stable Tension

Stable web tension with minimum variation is assured from the pneumatic dancer roller assembly with potentiometer measurement. Tension is managed by the PLC which controls the core brakes to keep the dancer constantly in balance. Core braking provides fast and stable tension control with minimum variation to improve productivity by reducing paper waste. The dual pneumatic brakes on each arm ensure optimum operation and require low maintenance. Tension performance is further improved by the short web leads of the DLP.

Optional Infeed Versions

Tension control begins at the paster. MEGTEC's pasters and infeeds can be controlled in tandem for optimum performance. This allows the paster to operate at a low tension to limit tension variations to the infeed (which also reduces brake maintenance). DSA infeeds provide web tensions up to four times more stable than traditional designs. Their 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. DSA shaftless infeeds provide fast and accurate tension control from 11 lbs (5 daN). Two versions are available:

- Integrated version 290 lbs (130 daN) for DLP 2-50, which can reduce overall press length by up to 6.5 feet (2m)
- Independent units 290 lbs (130 daN) or 400 lbs (180 daN) with optional web guides

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Standard DLP Model Features

| | DLP 1000 | DLP 2-50 |
|---|----------|----------|
| 2 arm flying paster | • | • |
| PLC tension control with dancer and pneumatic arm | • | • |
| Dual pneumatic brakes on each arm with web tension control from roll core | • | • |
| High speed single belt acceleration | • | • |
| Motorized acceleration arm positioning | • | • |
| Motorized individual roll alignment prior to splice | • | • |
| Sidelay adjustment $\leq \pm 7/8''$ (20 mm) | • | • |
| Splicer carriage with pneumatic activated knife and roller | • | • |
| Roll loading directly from floor into arms | • | • |
| Loading and unloading on same side | • | • |
| Chuck choice of: | | |
| Motorized chuck insertion & manual expansion | • | • |
| Motorized chuck insertion & torque assisted expansion | • | • |
| Control and regulation by PLC | • | • |
| Alphanumeric display and local push-button control panel | • | • |
| Remote control of sidelay, web tension and brakes | • | • |
| Independent frames (non-load bearing) | • | • |
| Automatic Model | - | • |
| Automatic roll alignment before splicing | - | • |
| Automatic positioning of paster arms and acceleration arm | - | • |
| Motorized chuck insertion & torque assisted expansion | - | • |
| Automatic roll loading sensors | - | • |
| Versions | | |
| Normal and symmetric configurations for center loading | • | • |
| Integrated infeed DSA 130 | - | • |
| Independent DSA 130 or 180 infeed with web guides | • | • |
| MEGTEC motorized web-up device | - | • |
| Automatic roll alignment before splicing (standard model) | • | • |
| ROLLOAD® automated roll handling system | - | • |
| Megaview control and display panel | - | • |
| Communication with press | • | • |
| Load bearing frames 100T | - | • |
| 3 arms | - | • |
| Double unwinding | - | • |

Operating Specifications

| | DLP 1000 | DLP 2-50 | DLP 1000 | DLP 2-50 |
|---|-----------|--------------------------|-----------|------------------------------|
| Maximum running & splicing speed | 2500 fpm | 2500 fpm | 12.7 m/s | 12.7 m/s |
| Maximum web width | 40 inches | 40, 54, 60, 67 inches | 1020 mm | 1020, 1370, 1530, 1700 mm |
| Maximum roll diameter | 50 inches | 50 inches | 1270 mm | 1270 mm |
| Minimum roll diameter for splicing | 22 inches | 22 inches | 550 mm | 550 mm |
| Roll core inner diameter | 3 inches | 3 inches | 76 mm | 76 mm |
| Maximum roll weight | 2200 lbs | 3490 lbs | 1000 daN | 1585 daN |
| Standard tension range | 22-88 lbs | 22-88 lbs | 10-40 daN | 10-40 daN |
| Integrated infeed version tension range | - | 11-290 lbs | | 5 -130 daN |