

# Z-1500

## Zero Speed Splicers



*Commercial, Semi-Commercial and Book Printing*

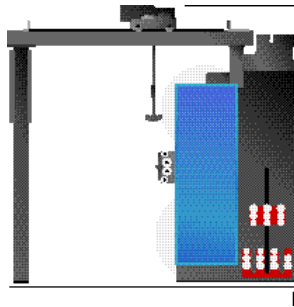


**T**he MEGTEC Z-1500 provides reliable mid-speed performance at an economical price. The system handles web speeds up to 1,800 fpm (9.2 m/s). The Z-1500 includes MEGTEC's PLC control system, dancer-down running and the durability of a rolling nip splice head.

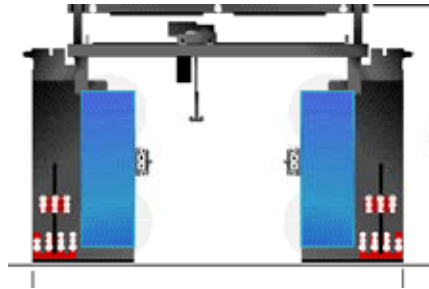
*The bottom line is process knowledge*

# Z-1500

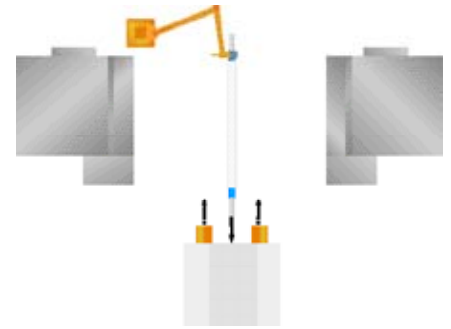
## Zero Speed Splicers



Z-1500



Z-1500 with center loading



Easy roll handling with roll cart to integrate with fully motorized hoist combined with shaft arm

### Performance Benefits

- Virtual elimination of splicer-caused web breaks
- Rapid and stable web tension control (core braking)
- Reduced paper waste and high press availability
- Simultaneous loading of different roll widths
- No minimum roll size for loading and splicing
- Simple splice preparation
- Overlapped splice with secured tail for sensitive productions
- Deformed rolls can be spliced with higher reliability
- Simple operation and low maintenance
- Simple hoist loading
- Nested festoon with low friction, low inertia dancer rollers
- Air expanding roll shaft
- Dual disc pneumatic brakes
- Reliable rolling nip splice head

### Simple & Reliable Solutions

Functional performance is assured by using the simplest and most reliable solutions. Roll support uses air shafts to allow different roll widths to be loaded simultaneously to speed-up make ready. The Z-1500 is a true flat floor installation with an integrated electric hoist which can also provide roll weighing.

The vertical nested festoon design is the industry performance reference. It is a model of simplicity with very few parts and easy to access. The splice head, braking and acceleration system combine the same attributes to provide reliable performance, fewer components and reduces maintenance costs. Ease of use and ergonomic efficiency are integral features to help attain high productivity and safety.

The performance and reliability of MEGTEC zero speed splicers are based on technology developed during 35 years of experience from over 15,000 installations. The Z-1500 models combine proven productivity, rugged construction with extremely good value for a lifetime of reliability.

### Configuration Choice

The Z-1500 is available in several configurations to ideally suit varying needs:

- Vertical Roll-over-Roll model provides a compact solution for single webs.
- Center loading Roll-over-Roll provides the most efficient and compact zero speed configuration available for 2-web applications.

- The innovative horizontal Roll-beside-Roll model provides easy loading for single web presses but retains the positive attributes of a vertical festoon.

### Exemplary Splicing

Zero speed splicing provides 99% or higher splice reliability.

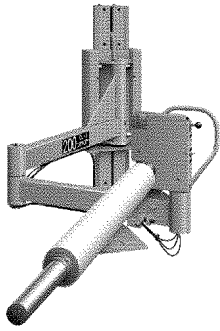
The rolling nip splice head combines ease of use with high reliability on all types and weights of paper. The vacuum splice preparation bar eliminates the risk of cutting into the nip roller and the pneumatic nip lock allows the operator to position the splice more precisely to allow reduced tail length.

There is a choice of either standard overlapped splice with short tail, or an overlap with a secured tail for sensitive sheeter and folder production. No minimum roll diameter for loading and splicing provides complete flexibility to run part rolls without special handling or re-winding.

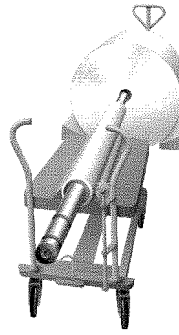
### The Ultimate Festoon

MEGTEC's vertical nested festoon design is the most reliable and efficient available.

The air loaded operation is simpler, with less maintenance and easier operation than those with motors, clutch drives or counter weights. It is equipped for easy-web-up and in the event of a web break there is good access to remove paper from the festoon. Web tension is particularly



Effortless shaft arm handling option lifts butt rolls and shafts up to 200 lbs (90 daN) to eliminate physical effort and risk of shaft damage



Roll shaft cart is a simple and inexpensive solution for shaft and butt roll handling



stable due to the minimal friction and inertia of the festoon rollers, which are maintained at a low position during normal running to decrease paper length and tension oscillations in the festoon wrinkles. Festoon rollers are available in either uniform or tapered profiles to self-center the web.

### Easy Roll Loading

The splicer holds two full size rolls on air shafts which reduce make-ready time by allowing different roll widths to be loaded simultaneously (shafts are equipped with indicators to easily position rolls laterally). The air shafts are automatically coupled and centered with the motorized sidelay (a range of shaft handling options are available to provide ergonomic operation and eliminate shaft damage).

An integrated electric hoist directly loads rolls to both positions and its safety features include positive locking and hoist hook deflectors (to lock out hoist access when the shaft is coupled). Removing a heavy unfinished roll is easily performed by the hoist.

Splicers can be installed inline or at right angles. Rolls can be loaded from one side so the splicer can be installed against a wall. The Z-1500 model provides ergonomic roll loading for single webs and compact center loading for 2-web applications.

### Tension & Control

Stable web tension with minimum variation is assured from the vertical nested festoon with dancer air regulation, dancer down running and core brakes controlled by a Programmable Logic Controller (PLC), an operator interface panel. Pneumatic dual disc high torque brakes ensure optimum operation and low maintenance; they are ventilated and mounted on the splicer in-line with each roll shaft for maximum efficiency. Acceleration is assured by highly reliable pull rollers. The PLC controls the splice cycle operation and continuously monitors the roll to maintain optimum web tension and brake setting.

### High Reliability

The extremely solid manufacture and simple mechanical layout features a minimum number of motors and long life parts. Most components are grouped on the operator side for easy access.

The design minimizes both maintenance and adjustments to almost eliminate down-time.

### Ergonomic Efficiency

The Z-1500 provides plenty of room for the operator to work comfortably and therefore efficiently and safely. Roll loading, splice preparation and maintenance are all operator friendly. The electric hoist and traverse provide easy loading and an optional shaft handler eliminates all physical effort. Motorized sidelay, shaft coupling and uncoupling eliminate other manual tasks.

### Flexibility

- Rolls can be unwound in both directions
- Different roll widths can be loaded simultaneously
- No minimum roll size for loading and splicing
- Choice of overlapped splice with tail, or overlapped splice with secured tail
- Splices papers from bible stock to heavy weight coated
- Deformed rolls can be spliced with higher reliability
- Flat floor installation without pit



# Z-1500

## Zero Speed Splicers

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August 2007

### Standard Z-1500 Features

- Z-1500: Roll-over-Roll configuration with air shaft roll support available models
- Z-1500: Horizontal Roll-Behind-Roll configuration with air shaft roll support available models
- Vertical nested festoon with low friction, low inertia bearings and rollers
- Tapered festoon roller profiles
- Rolling nip splice head with manual nip lock
- Vacuum blower
- Seimens S7 PLC Controlled
- Dual disc ventilated high torque pneumatic brakes
- Pull roll web acceleration
- Motorized coupling/uncoupling and centering of shaft to sidelay
- Motorized sidelay  $\pm 1"$  (25 mm)
- Direct roll loading upper and lower
- Hoist: Motorized lift and traverse, equipped with hook deflectors
- Right or left hand arrangement
- Center loading tandem web model includes web over for 2-web applications
- Fully assembled, pre-piped, pre-wired and tested
- Signal for splice warning and occurred

### Versions at Additional Cost

- Chain web-up assist
- Web-up platform
- 90° turn bars
- Hoist load sensors
- Dual unwind
- Roll shaft handling cart
- Roll shaft handling arm
- Manual ROLLOAD
- Paper Management
- Heavy duty cutting package with pneumatic nip lock
- CE norms includes safety guards
- Automatic hoist