

# OS DBS Zero Speed Butt Splicer



*Cost-Saving Design with Automatic Rewinder Flexibility*



**T**he MEGTEC Zero Speed Butt Splicer is an automatic rewinder without any mechanical connection to the printing press. It is designed with cost and flexibility in mind and with the ability to handle different materials. The webs are glued together with butt splicing, without an overlap or tail.

*The bottom line is process knowledge*



# OS DBS

## Zero Speed Butt Splicer

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### Construction

The splicer is designed with the most up-to-date techniques. The frame is solid steel to provide stability for the machine. There are two fixed positions for the reels. Loading is achieved easily from the side of the two cantilevered mounted air expanded reel shafts. The splicing unit is positioned above the reel positions. The carriage, also containing the dancing roller for web tension control, is a separate unit.

### Roll Preparation

Preparation of the new web is easily achieved in the machine's splicing unit. The two removable splice bars are taken out of the machine and supplied with tape, which is stuck by a vacuum. For a double-sided splice, both are supplied with tape. When the splice bars are replaced in the machine and the new web fixed in the splicing unit, the machine is ready for automatic splicing. This occurs naturally without a reduction in speed. The webs are glued together edge to edge (butt splicing) with an angle of about 10°. This is no overlap or loose tail that can be problematical.

### Function

The MEGTEC Zero Speed Butt Splicer has a dancing roller to maintain a constant web tension. A control system attached to an electromagnetic disc brake makes sure that the tension in the paper web is maintained at the predetermined value irrespective of reel size and web speed. The machine's splicing sequence is controlled by a PLC. The lamps and buttons are logically positioned and a visual display, attached to the splicers control panel, supplies the operator with information about the machine's status.

#### 1. Loading a new reel:

The new reel is inserted into the machine from the side of the reel shaft. The web of the new reel is fixed in the splicing position.

During this procedure the old reel supplies the printing press with web and the web carriage is in its normal unwinding position.

#### 2. Splice preparation

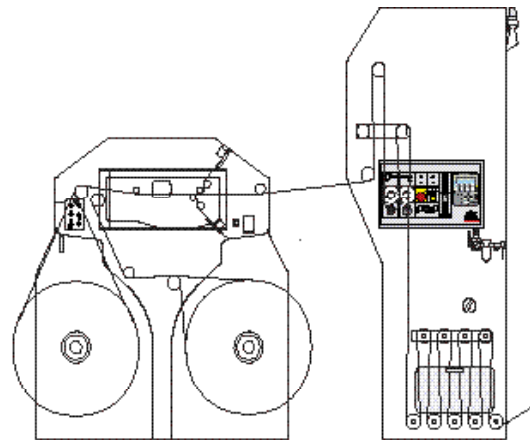
The upper and lower tape bars are taken out of the machine. When tape has been applied on them, the bars are replaced in splicing position. The automatic splicing sequence starts just before the reel reaches the preset diameter. The splicing unit moves up towards the unwinding web and the carriage goes up to its position.

#### 3. Cutting

The empty reel is stopped and the carriage supplies the printing press with web. The old web is fixed just before the carriage. The splicing unit moves upwards and the new and old webs are pressed and fixed together. A rotary shear knife cuts through the two webs that are now ready to be glued together.

#### 4. Splice

The loose ends of both the new and old webs are folded back from the splicing position. The upper and lower tape bars, both supplied with tape, are pressed against the two cut webs that are glued together edge to edge (butt splice) while the carriage returns to its unwinding position.



### Technical Specifications

Web width maximum	350 mm
Reel diameter maximum	800 mm
Reel capacity maximum	800+800 mm
Splicing speed	150 m/min
Reel weight	200 kg
Web tension	80-250 N
Emergency stop	2 m/sec/sec

Specifications vary from model. Please refer to the relevant technical specification sheet. Since development is a continuous process, MEGTEC reserves the right to alter specifications without notice.