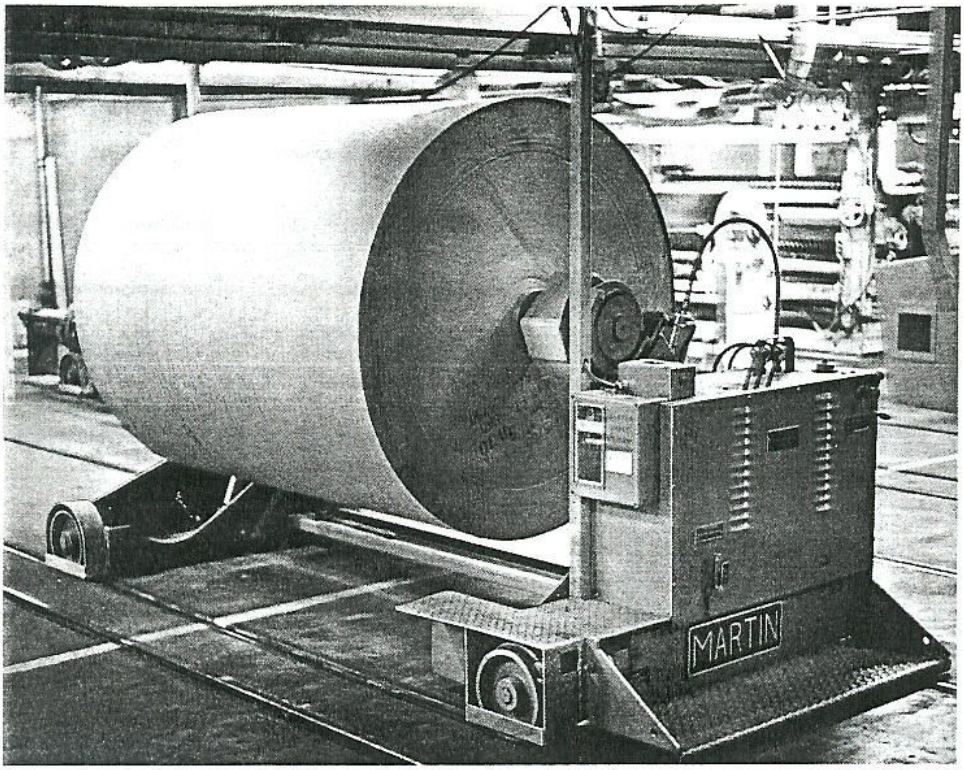
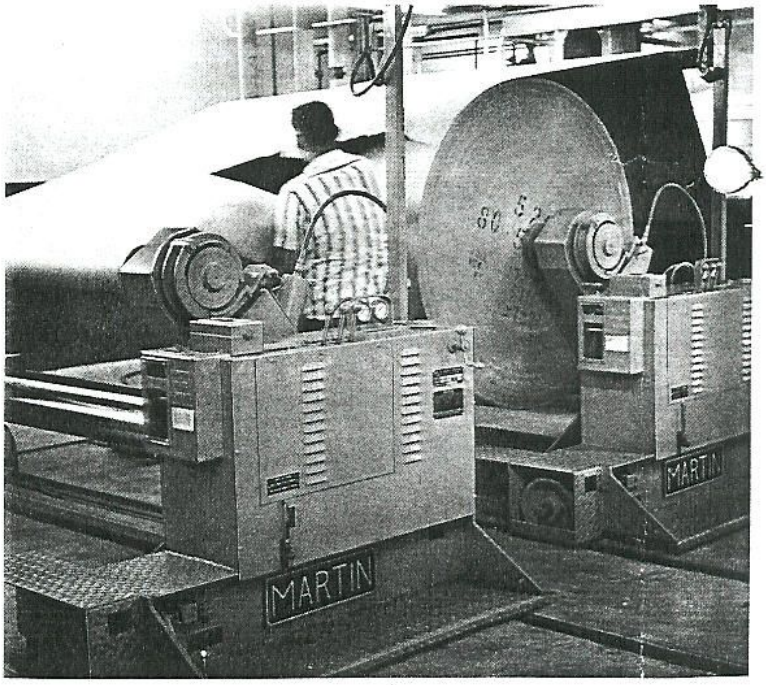


MARTIN Stand having clamped and raised the roll is now ready to move back into corrugator. The completely self-contained hydraulic system powers all motions under operator's fingertip control. Web can unwind in either direction, and top of 60-inch diameter roll is less than 76 inches above floor when fully raised. This results in a low silhouette, maximum stability, and permits minimum corrugator bridge height.

MARTIN ROLL STANDS

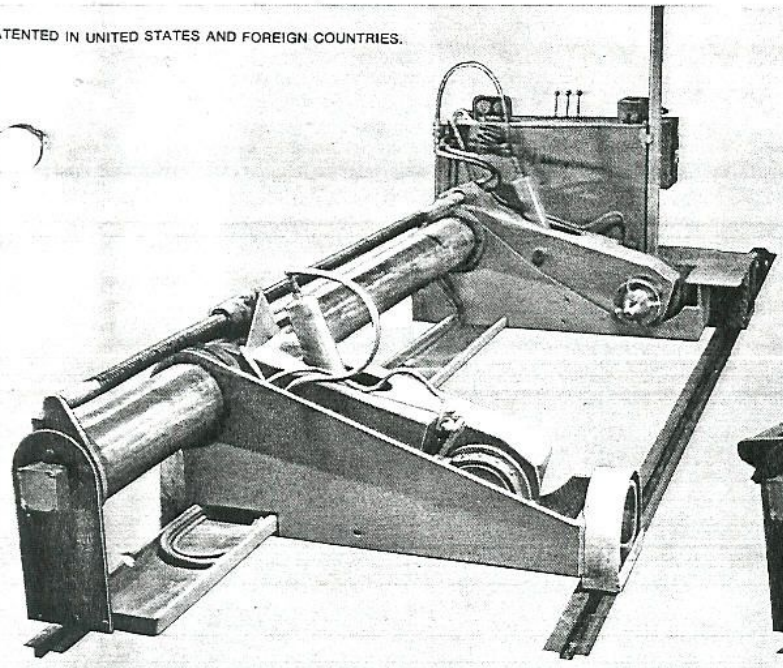
MARTIN Shaftless Roll-Out Self-Loading Roll Stands represent the ultimate in simplicity and flexibility for roll handling in the modern corrugator. The engineering, workmanship, and attention to detail have earned MARTIN Stands a reputation for quality, performance and minimum maintenance which is acknowledged throughout the industry. MARTIN Stands are built to be "fail-safe" and each is individually tested prior to shipment. This means quality-control at its finest . . . a strict requirement of the Geo. M. Martin Company since its inception in 1929. Powered roll-out eliminates costly in-floor roller conveyors, with their inherent maintenance problems, and permits the Stands to come to the rolls for loading rather than requiring the rolls to be manually pushed into the corrugator. Self-loading eliminates the need for an overhead crane and does not tie up a clamp truck during roll changes. Compact corrugator layout takes on a new meaning when using MARTIN Stands since they are no wider than a normal roll and their low silhouette permits a minimum bridge height. Operating procedures are simple, safe, and quickly learned by inexperienced personnel. Roll is easily aligned so chucks can enter both ends, hydraulically raised, and moved into position in the corrugator, having been loaded away from the hazards of hot preheaters and preconditioners. Only on MARTIN Self-Loading Stands is Automatic Web Tension Control furnished as standard equipment.

The strength and unique principles of operation that are characteristic of MARTIN Stands make them ideally suited to custom modification, introducing new production standards to slitter-rewinders, laminators, drum winders, and similar machines. Thus, the versatile MARTIN Shaftless Roll-Out Self-Loading Roll Stand can offer to an even larger segment of today's paper industry the greater automation and savings that it has brought to the corrugated box manufacturer.

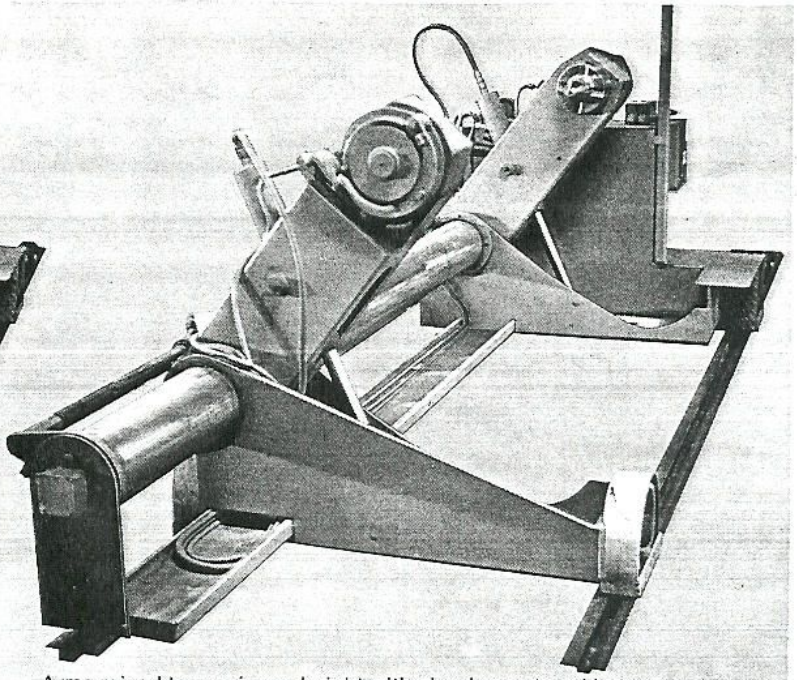


▲ Roll Stand in running position with splicing operation having been completed. Note minimum core waste and convenient access to web from floor or splicing platform provided on Stand. Both operator's control and splicing platforms are of raised safety tread design.

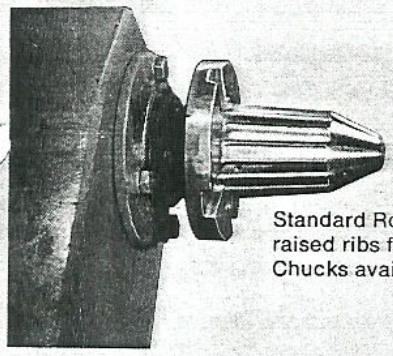
PATENTED IN UNITED STATES AND FOREIGN COUNTRIES.



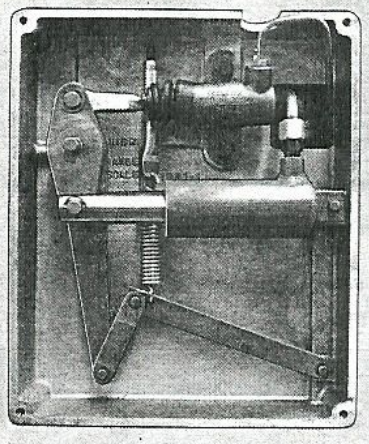
Arms lowered showing minimum height above floor, permitting loading and unloading of butt rolls as small as 18-inch diameter. Precision alignment of arms and chucks is maintained by massive backbone tube. As roll enters Stand it is automatically squared into parallel position by contacting tube.



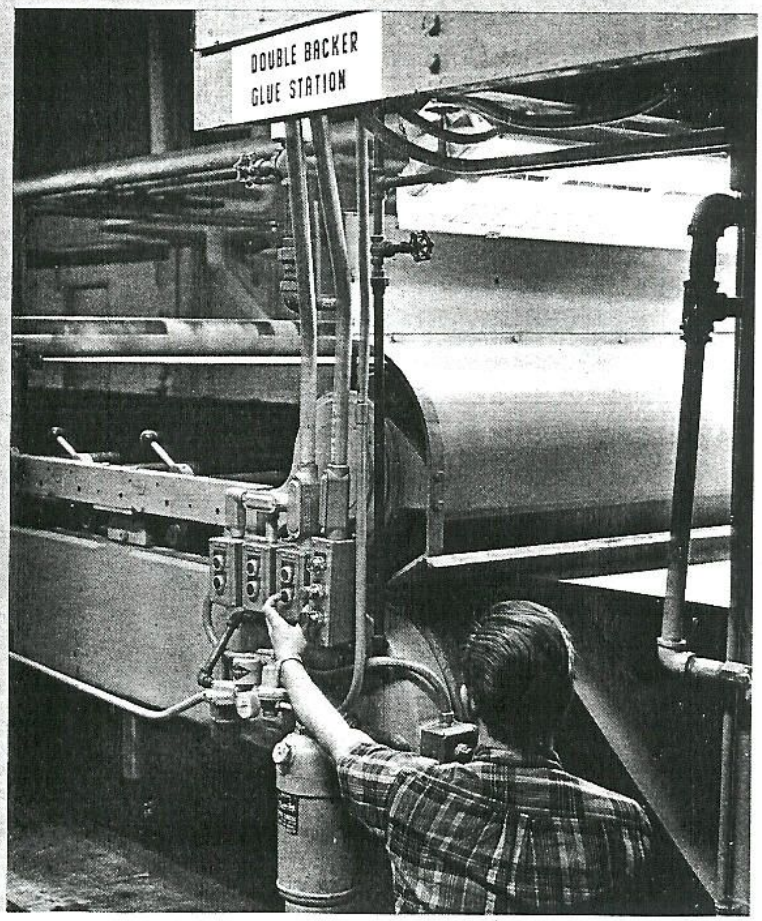
Arms raised to maximum height with chucks centered between rails. Stand is no wider than 60-inch diameter roll and the roll weight is evenly divided between all four wheels. Movable wheels in foreground travel with arm as roll is clamped, maintaining even load distribution.



Standard Roll Chuck having 1/16-inch raised ribs for 4-inch coreless rolls. Other Chucks available on special order.



Patented MARTIN Automatic Web Tension Control senses roll weight by hydraulic pressure in the raising cylinders. The Control accurately measures the reduction in roll diameter and translates this to a proportionate reduction in hydraulic brake pressure.



Optional Control permits fine adjustment of the web alignment from remote locations. This is particularly valuable at the double backer where it allows operator to adjust position of the liner stands while observing combining of single face and liner.

Roll Width

Maximum: 105"
Minimum: 14"
Standard Widths: 87",98" and 105"

Roll Diameter

Maximum: 84"
Minimum: 18" with MARTIN Hydraulic Brakes
Standard Sizes: 60", 72" and 84"

Controls

Clamping: Hydraulic
Lifting: Hydraulic
Roll Out: Hydraulic

Brakes

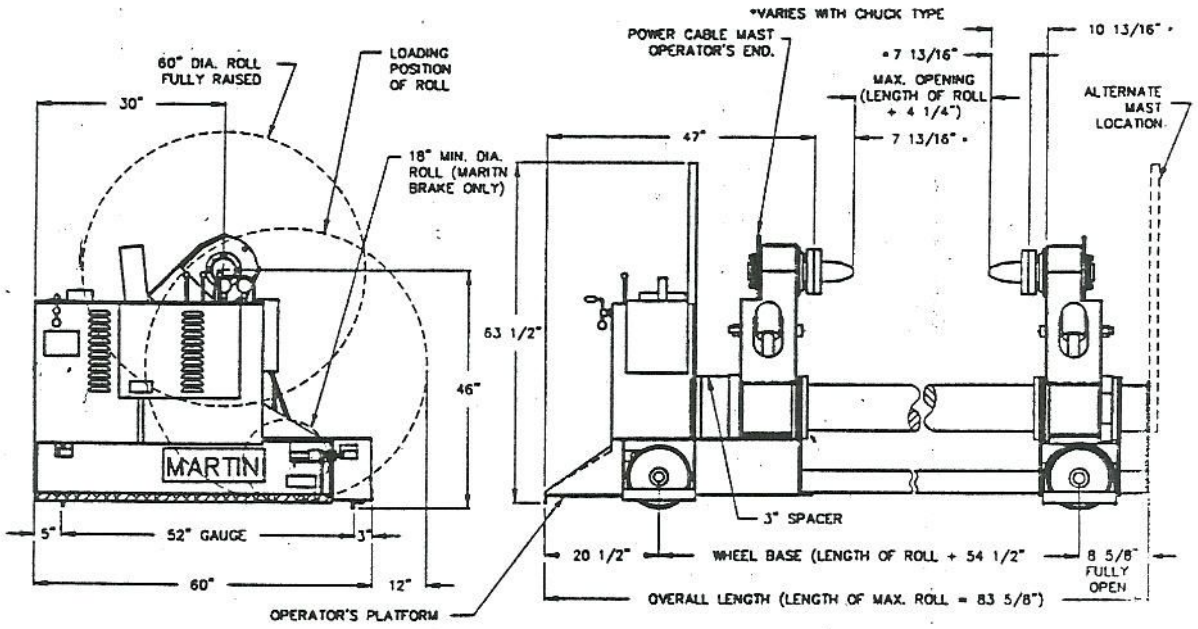
MARTIN 8" diameter x 3" wide hydraulically actuated drum brakes are standard. Air actuated, air cooled or water cooled braking systems available.

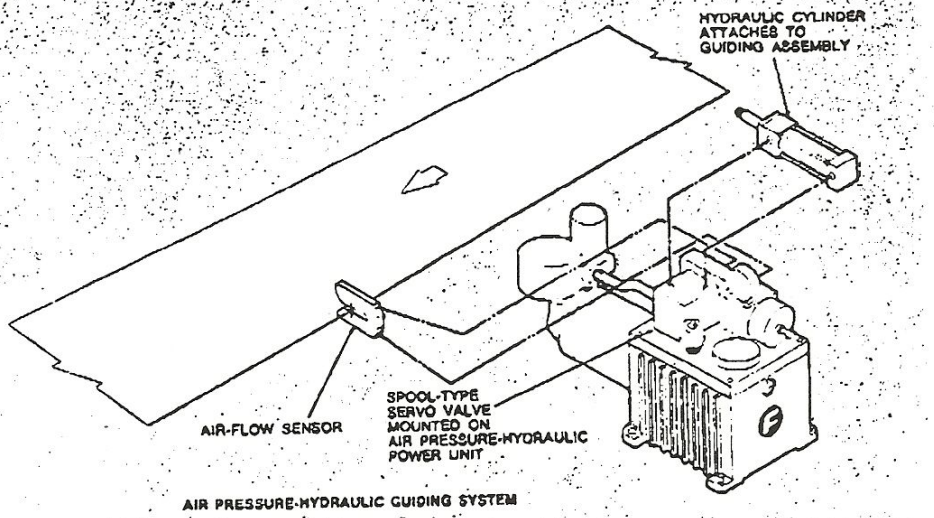
Tension Controls

MARTIN Automatic Web Tension Control System standard. Other systems available as options.

Electrical Service

A 480 Volt, 3 Phase, 60 Hertz, 10 Amp circuit is required for each roll stand. A cable reel with connector and enough cable for 25 foot roll-out is provided





AIR PRESSURE-HYDRAULIC GUIDING SYSTEM

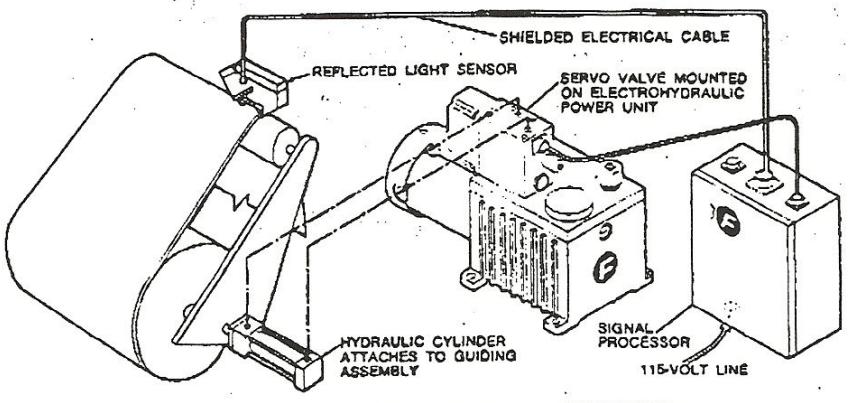
Basic Guiding Systems

Illustrated here are the two basic types of automatic guiding systems: (1) Air Pressure-Hydraulic and (2) Photoelectric-Hydraulic. Both function in generally the same manner, using either edge guide or centerguide modes of control. A SENSOR, Air-Flow or Photoelectric, monitors the material position in process and sends a signal to a SERVO VALVE, which is integrated with a power unit to provide proportional hydraulic output to a GUIDE, which positions the material accordingly.

The guiding assembly may be a Fife intermediate guiding assembly, or a shiftable unwind or rewind stand.

Fife systems are designed for easy installation, operation, and maintenance, as well as maximum operating efficiency and accuracy.

PNEUMOHYDRAULIC POWER UNIT MODEL P25



PHOTOELECTRIC-HYDRAULIC GUIDING SYSTEM