

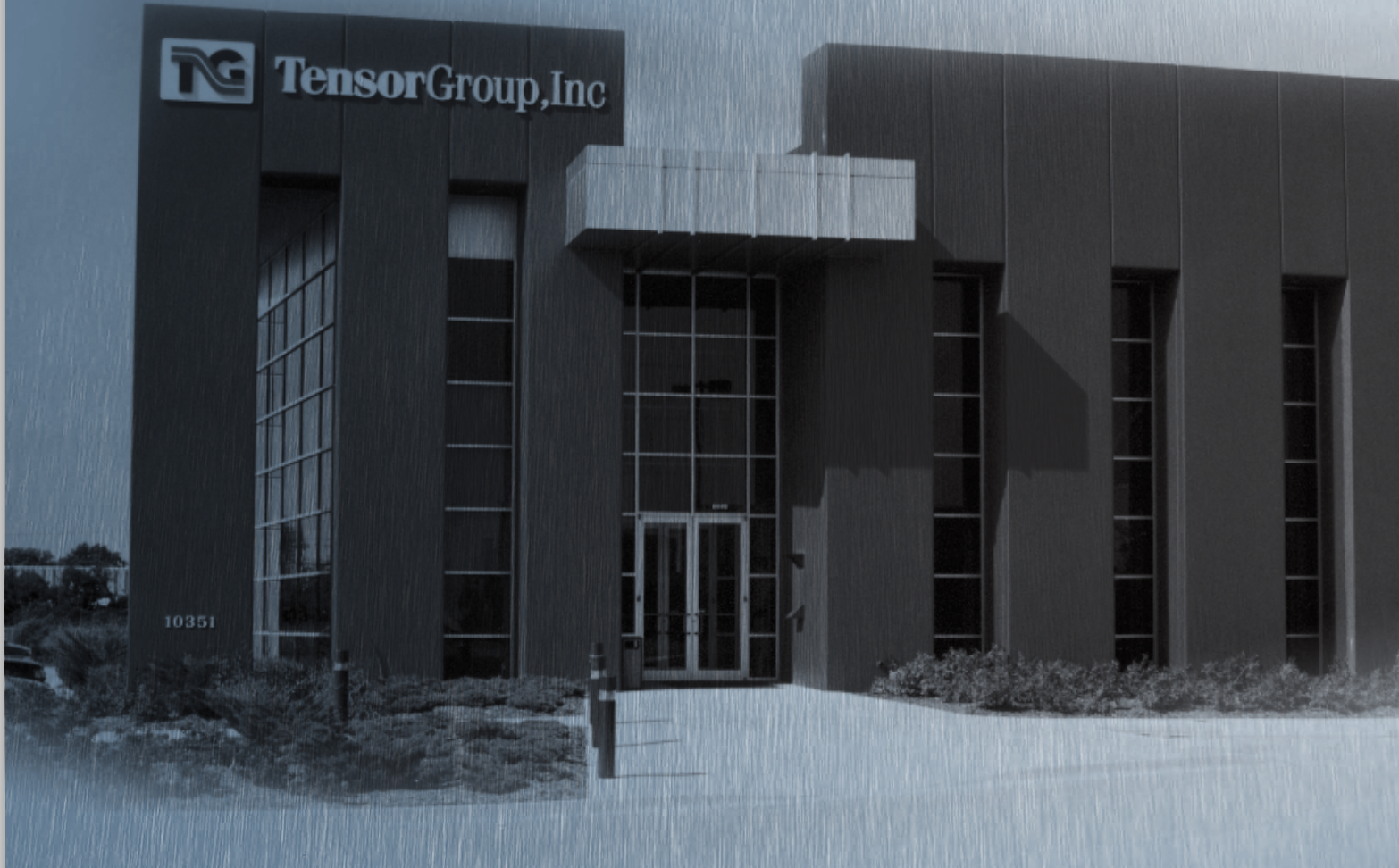


Tensor Group, Inc

WEB OFFSET PRESS SYSTEMS

THE SOURCE FOR SINGLE-WIDTH

Tensor Group, Inc. is the premier U.S. manufacturer of single-width web press systems for the worldwide commercial, insert and newspaper print markets. Since 1993, Tensor has been committed to supporting and continuing the strong manufacturing tradition of the United States.



Tensor has earned well-deserved industry respect for the outstanding integrity of its employees and products by evolving into a world-class company geared toward producing durable, high quality machinery that successfully competes in an ever-changing global marketplace.

Thousands of Tensor press units and folders are operational in newspaper and semi-commercial print facilities in over 36 countries. These installations are fully supported by Tensor's vast and growing network of experienced global representatives, along with Tensor's superior in-house sales, service and parts teams.

TENSOR PHILOSOPHY

Total Customer Satisfaction

Tensor's unwavering focus on client expectations drives Tensor's strong emphasis on continuous improvements in quality, project management and development of next-generation products.

- ◆ Clients benefit from Tensor's advanced engineering methods, consistent use of quality components and precision assembly in the United States. Tensor's one-around, single-width web offset press units and folders have earned a distinguished reputation for producing excellent print quality—with the added benefits of outstanding durability and user friendliness.
- ◆ Tensor continuously engineers product enhancements and introduces original, advanced designs in response to clients' requirements.
- ◆ Project planning and management is crucial to a successful press installation. Tensor's in-house team works closely with clients to ensure a smooth process.
- ◆ Tensor's experienced support staff and availability of quality replacement parts at competitive prices contributes to the total customer satisfaction philosophy adopted by Tensor.



TENSOR PRESS UNITS

The **T-500** and **T-460 models** are engineered for high speed hybrid newspaper and semi-commercial applications. Both incorporate robust construction and innovative design to deliver superlative press performance.

- ◆ Three ink form rollers with three ink vibrators for high coverage inking capability
 - Engineered specifically to maximize print results with third ink form roller design
 - Large capacity ink fountains
 - Ink form rollers swing out for easy plate-up access on both sides of the press
- ◆ Ultra robust cast iron frames for outstanding stability and endurance
- ◆ Full bearer press design for enhanced dot reproduction and the ability to print fine screen work
- ◆ Bearing-in-a-bearing technology offers full cylinder support at high press speeds when using conventional narrow gapped blanket technology
- ◆ Ability to run 3-across formats up to 40" web widths
- ◆ State-of-the-art drives and controls provide optimum efficiency with minimal waste



Tensor T-500 Press

- ◆ Speed of 60,000 IPH
- ◆ Three ink form rollers
- ◆ Massive construction—38,000 lb (17,237 kilos) per 4-high tower
- ◆ Unit shaftless drive system with sophisticated integrated control platform.

CUT-OFF:

- ◆ 21" through 22.75" (530mm through 578mm)

WEB WIDTHS (CUT-OFF DEPENDENT):

- ◆ 36" through 40" (914mm through 1016mm)

Tensor T-460 Press

- ◆ Speed up to 50,000 IPH (with unit shaftless drive)
- ◆ Speed up to 46,000 IPH (with footprint shaftless drive)
- ◆ Three ink form roller design
- ◆ Robust construction—35,000 lb (15,876 kilos) per 4-high tower
- ◆ Footprint shaftless drive system standard with integrated logistics for all auxiliary equipment

CUT-OFF:

- ◆ 21" through 24.8" (530mm through 630mm)

WEB WIDTHS (CUT-OFF DEPENDENT):

- ◆ 36" through 40" (914mm through 1016mm)



HIGH COVERAGE INKING CAPABILITY, FAST MAKEREADY AND QUICK CHANGEOVER RESULT IN HIGH NET PRODUCTIVITY

The **T-400** and **T-1400 Series** models offer superior value with proven durability and high performance. Thousands of units have been installed worldwide. Footprint shaftless or shafted drive systems with next-generation controls are available for both the T-400 and the T-1400 series.



T-400BE

- ◆ Rated up to 45,000 IPH

FEATURES:

- ◆ Bearers on both the plate and blanket cylinders
- ◆ Helical gear train
- ◆ Reel rod type, narrow-gap blanket lock-ups
- ◆ Motorized registration

BENEFITS:

- ◆ Reduced dot gain and distortion allows printing of finer screen densities
- ◆ Automated controls reduce waste and increase productivity
- ◆ Rapid makeready

CUTOFF:

- ◆ 19" through 27.6" (482mm through 700mm)

WEB WIDTHS:

- ◆ 29" through 40" (737mm through 1016mm)

T-1400

- ◆ Rated at 35,000 IPH

FEATURES:

- ◆ Unique "bearing-in-a-bearing" eccentric design
- ◆ Stainless steel clad cylinders with tapered journal design provide increased durability
- ◆ Heavy duty impression linkages ensure stability
- ◆ "No tool" plate change

BENEFITS:

- ◆ Proven durability and high performance
- ◆ Superior value
- ◆ Unique arch geometry provides enhanced ergonomics

CUTOFF:

- ◆ 19" through 27.6" (482mm through 700mm)

WEB WIDTHS:

- ◆ 29" through 40" (737mm through 1016mm)



ALL TENSOR PRESSES ARE AVAILABLE WITH HEATSET OR UV PACKAGES FOR HIGH-END COMMERCIAL APPLICATIONS

TENSOR FOLDERS

Tensor's heavy-duty jaw folders are engineered for high page count newspaper and precision commercial folding applications. The **H-50** and **H-50 HD** integrate easily with other brands of web presses making them an excellent choice for addition to any existing press line.

H-50 High-Speed Jaw Folder

- ◆ Rated at 50,000 PPH
- ◆ 1:2:2 Cylinder geometry
- ◆ Superior folding accuracy
- ◆ Easy changeover capabilities
- ◆ Jaws adjust automatically for light and heavy products—no shims
- ◆ Web capacity is 12 webs half-folded and up to 8 webs in the quarter fold mode
- ◆ Main folder drive gears are helical in design
- ◆ Many repeat purchases of the original H-50 due to high customer satisfaction



H-50 HD High Web Count Folder

- ◆ Rated at 50,000 PPH
- ◆ 1:2:2 jaw folder offers superior accuracy at high speed
- ◆ High web count capacity—up to fourteen webs, dependent on specific application
- ◆ Heavy-duty folder can be utilized with either 1-around or 2-around printing units
- ◆ Unique self-adjusting jaw allows effortless conversion from single web to multiple web jobs
- ◆ True 64° conical design on the chrome-plated former board, with air
- ◆ Two driven sets of oversized nipping rings plus provisions for a crosshead perforator

The T-1 Folder

Tensor offers the economical and durable T-1 jaw folder with half-fold and quarter-fold capabilities. The T-1 utilizes the 1:2:1 cylinder geometry design and is rated at 35,000 PPH.

Quarter Folder

The Standard H-50 Quarter Folder, available in most cutoff sizes, and the enhanced, high web count H-50 Commercial Quarter Folder complement the Tensor folders exceptionally well.

THE TENSOR DESIGN IS UNIQUE

A number of *critical* design features are found exclusively on Tensor's units.

Outstanding Print Quality

- ◆ Preloaded bearing-mounted blanket eccentrics provide the critical cylinder stiffness required to reduce dot distortion
- ◆ Eccentric mounted, fully adjustable plate and blanket cylinders provide tighter print registration by eliminating tolerance accumulation normally associated with a fixed plate cylinder location

Proven Durability

- ◆ Bearing-in-a-bearing design approach *eliminates* frame bore wear
- ◆ Tensor's exclusive cylinder manufacturing techniques result in unsurpassed corrosion resistance

Enhanced Ergonomics

- ◆ An integrally unique true arch design positions the blankets higher and offers a wider opening for easier access
- ◆ Form roller throw-off shafts located outside of the rollers eliminate ink buildup and maintenance issues



EXCLUSIVE TO TENSOR, PRELOADED BEARING-MOUNTED BLANKET ECCENTRICS PROVIDE THE CRITICAL CYLINDER RIGIDITY TO REDUCE DOT DISTORTION AND ELIMINATE FRAME BORE WEAR.



AN INTEGRALLY UNIQUE TRUE ARCH DESIGN POSITIONS THE BLANKETS HIGHER AND OFFERS A WIDER OPENING FOR EASIER ACCESS.



TENSOR'S EXCLUSIVE CYLINDER CONSTRUCTION RESULTS IN UNSURPASSED DURABILITY.



Project Management and Consultation

Project management and consultation is performed during all phases of planning, installation and startup. Individual customer requirements and expectations are extensively analyzed and optimum solutions are developed.

Research and Development

Research and development is always ongoing, resulting in equipment that continuously exceeds customer expectations.

Quality

Quality begins with superior machine components manufactured by Tensor's affiliate company, MAH Machine Co., a well-respected, top supplier to the graphic arts industry since 1977. MAH Machine utilizes state-of-the-art CNC machining equipment and rigorous quality testing.

Service

- ◆ 24-Hour Emergency Service
- ◆ Toll-Free 800 Hot Line Number (USA)
- ◆ Finest Machined Parts Available
- ◆ Newly-Extended Inventory of Parts
- ◆ Competitive Pricing on All Parts

THE SOURCE FOR SINGLE-WIDTH



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