CENTURIAN™

AUTOMATIC MULTICOLOR TEXTILE PRINTER

Manufactured by
AWT
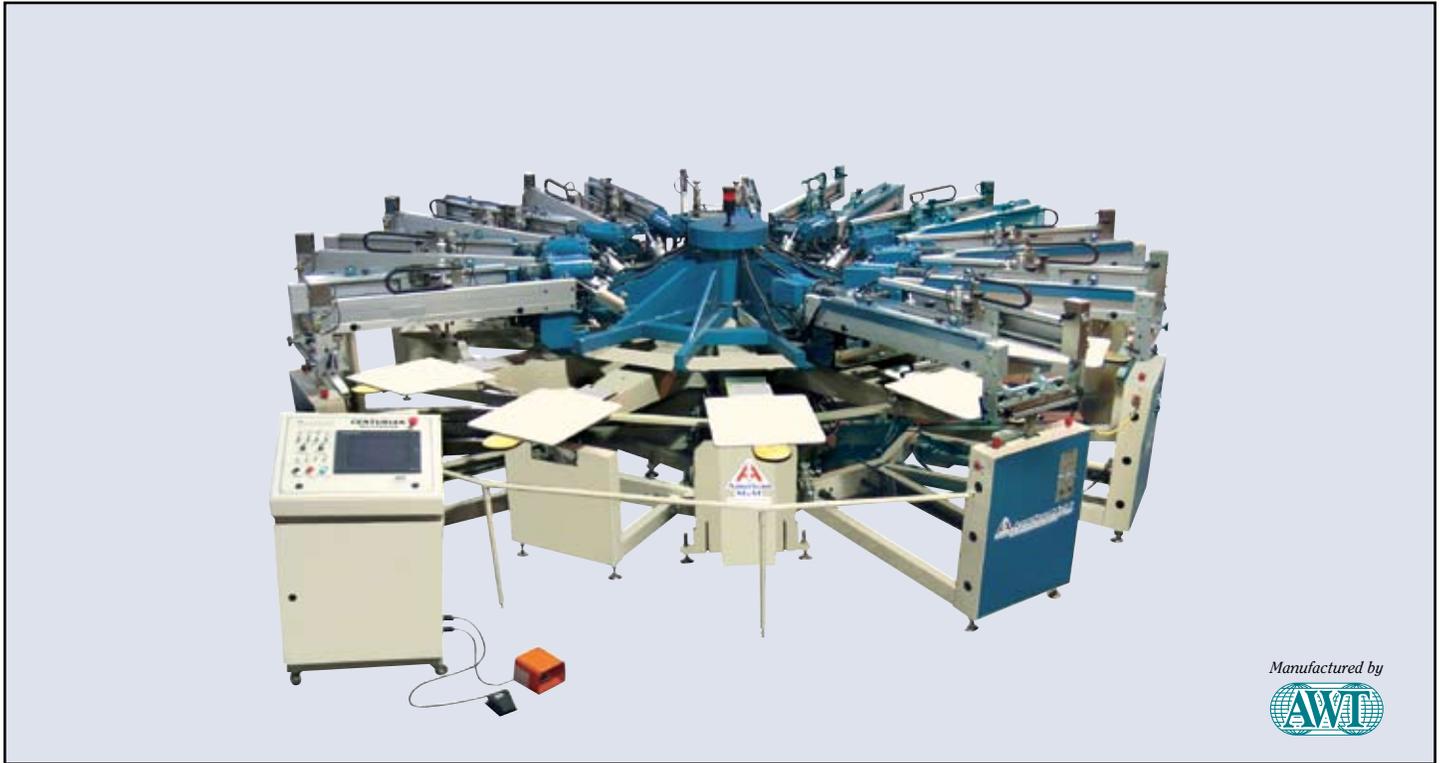
ADVANTAGES

- Remote Diagnostics System for instant service
- Electro-mechanical indexer drive
- Indexer locking fork
- Electro-mechanical/timing belt carriage drive
- PLC with touchscreen interface
- Special setup/production mode
- Pallet tip support
- Misfeed, non-print feature
- Load-in and load-out feature
- Lock-in head
- High screen lift
- Squeegelizer
- Pneumatic rear screen clamps

The result of meticulous engineering and American M&M's flagship automatic textile printer, the Centurian is easily one of the most versatile multicolor machines on the market. Benefiting from the same advancements in technology as its popular graphics twin brother Hercules, the Centurian combines the latest in electronics with industry proven mechanicals by incorporating over 20 state-of -the-art features.

Designed specifically for today's high-volume shops with a standard speed of about 75 dozen garments per hour, the Centurian is built for continuous performance, combining the utmost in print quality with operator convenience. Inside, you'll learn more about why no other automatic textile printing system handles a wider range of production requirements than the Centurian, and why it has become known as The Printer's Choice!

American M&M
SCREEN PRINTING EQUIPMENT

A Division of The A.W.T. World Trade Group

CENTURIAN™

STANDARD FEATURES

- **Computer controlled event timing**
  360° resolver enables quick and accurate registration positioning.

- **Remote Diagnostics System**
  Direct link to A.W.T.'s central diagnostics computer provides instant access to worldwide service.

- **Electro-mechanical indexer drive**
  Ensures consistently smooth, station-to-station indexing.---

- **Indexer locking fork**
  Pneumatically-controlled V-fork provides precision locking of indexer during the print cycle for ±.001" registration repeatability.

- **Timing belt carriage drive**
  Ensures consistent, long-term print stroke action at all print speeds and pressures. There are no chains to stretch or wear out.

- **PLC featuring touchscreen interface**
  Central database with interface incorporates new diagnostic and production data feedback features for greater operator efficiency and control. Multiple menus offer the latest control features and capabilities such as missed pallet and load in/load out. Software upgrades are available.

- **Special setup/production mode**
  Allows operator control of indexer from any print station during setup. Operator can cycle the indexer and heads without use of boom control.

- **Pallet tip support**
  Maintains identical off-contact from front-to-back regardless of pressure.

Your Complete Manufacturing Source for Screen Printing Equipment, Supplies, & Parts

Heading the list of improvements to the Centurian is a 360° resolver transducer for the ultimate in machine timing and control. Previously, event changes to the printer's cycle needed to be made mechanically with time consuming adjustments, but no longer. Now the operator can make critical timing, registration and positioning adjustments, all without tools. This system is unsurpassed at supplying accurate rotary position data, providing the operator with the indexer's exact location, speed, and other important information. With the Centurian's PLC touchscreen interface, the operator can then make precise adjustments with confidence, down to increments of one degree.

Rather than using awkward alpha-numeric codes, the Centurian's touchscreen interface lists options in simple language with over 200 menus for operational controls, production data feedback, and troubleshooting. The industry proven electro-mechanical indexer and carriage drives provide extra smooth cycling for consistently high quality results. And regardless of image size, the Centurian's lock-in heads and pallet tip supports help provide even print pressure over the entire surface, guaranteeing even tone throughout the print stroke. A pneumatic locking fork maintains ± .001" registration repeatability, and the Centurian's rugged frame construction and solid-state engineering help keep maintenance to a minimum. To simplify setup, a special production setup mode allows indexer operation from any print station, and front-loading screens with unobstructed view make for quick registration and job changeover.

When you consider all the features and performance it has to offer, we think you'll agree that no other printing system fulfills a broader range of production requirements than the Centurian from American M&M.

The Printer's Choice

SPECIFICATIONS*

CAT. NO.	NO. OF STATIONS	MAX. NO. OF COLORS	MAX. IMAGE AREA	MAX. FRAME SIZE
CENT-1008-1822	10	8	18 x 22" (46 x 56 cm)	28 x 37" (71 x 94 cm)
CENT-1210-1822 **CENT-1210-2227** **CENT-1210-2236**	12	10	18 x 22" (46 x 56 cm) 22 x 27" (56 x 69 cm) 22 x 36" (56 x 91 cm)	28 x 37" (71 x 94 cm) 32 x 42" (81 x 107 cm) 32 x 51" (81 x 130 cm)
CENT-1614-1822 **CENT-1614-2227** **CENT-1614-2236**	16	14	18 x 22" (46 x 56 cm) 22 x 27" (56 x 69 cm) 22 x 36" (56 x 91 cm)	28 x 37" (71 x 94 cm) 32 x 42" (81 x 107 cm) 32 x 51" (81 x 130 cm)
CENT-1816-1822 **CENT-1816-2227** **CENT-1816-2236**	18	16	18 x 22" (46 x 56 cm) 22 x 27" (56 x 69 cm) 22 x 36" (56 x 91 cm)	28 x 37" (71 x 94 cm) 32 x 42" (81 x 107 cm) 32 x 51" (81 x 130 cm)

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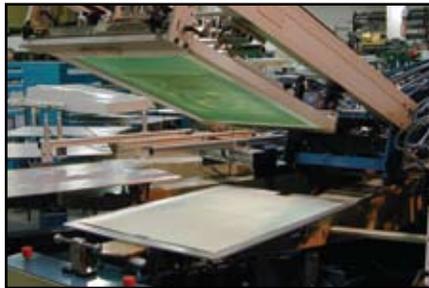
Automatic Multicolor Textile Printer

State-of-the-art PLC features online production and troubleshooting data.

Pneumatic indexer locking fork provides ±.001" registration repeatability.

Lock-in heads and pallet tip supports ensure even tone coverage from front to back. Ideal for four-color work.

Pneumatic Squeegelizer™ automatically maintains uniform print pressure across the entire squeegee length and throughout the print stroke.

Electro-mechanical drive systems provide smooth print/flood stroke regardless of image size.
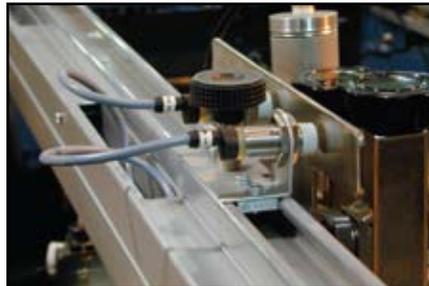
Stroke length sensors work anywhere within the print area by adjustable slides.

STANDARD FEATURES

- **Lock-in head**
  Head will not lift during print cycle, regardless of squeegee pressure. Ensures even coverage, print after print.

- **Unobstructed screen visibility**
  Clear view of the image area allows easy screen alignment and ink refill before and during production.

- **High screen lift**
  18" high-lift mode provides easy access for screen cleaning.

- **Squeegelizer**
  Pneumatically controls and maintains uniform print pressure along the entire squeegee blade.

OPTIONS & ACCESSORIES

- **Perimeter "all-over" pallet system**
  Enables full printing of one complete side of a T-shirt, including the sleeves. Allows for tightly registered printing of spot and all-over prints in one pass.

- **Sleeve and pant leg pallets**
  All-aluminum, rubber-covered sleeve and pant leg pallets fit all models.

- **Q-Flash™ cure unit**
  Fixed head flash system uses high-intensity quartz tubes for fast, effective curing. Unit reaches required temperature in seconds, is highly mobile, and fits easily into any print or open station.

SPEED	OVERALL DIAMETER	AIR	ELECTRICAL
Up to 80 dozen impressions/hour	18.5' (5.5 m)	27 cfm, 100 psi	240 V, 1 Ph, 60 Hz
Up to 75 dozen impressions/hour	19.5' (6 m)	27 cfm, 100 psi	240 V, 1 Ph, 60 Hz
Up to 70 dozen impressions/hour	24.5' (7.5 m)	27 cfm, 100 psi	240 V, 1 Ph, 60 Hz
Up to 60 dozen impressions/hour	25.5' (7.8 m)	27 cfm, 100 psi	240 V, 1 Ph, 60 Hz

THE A.W.T. WORLD TRADE GROUP

Your Complete Manufacturing Source for Screen Printing Equipment, Supplies & Parts

Building on more than 30 years experience in serving clients in the graphic, textile and industrial markets, A.W.T. World Trade provides screen printers with a complete manufacturing source for prepress and printing supplies, machine parts, and remanufactured equipment.

Experience shows that when printers use a single manufacturing source, costly incompatibility problems between equipment lines and suppliers are greatly reduced. A.W.T. develops complete systems that work efficiently and economically to avoid printing errors, reduce downtime, and keep you profitable.

Our technical sales staff will make sure you choose the right system for your company's needs, delivering the performance you require at a cost within your budget. Industry experts in both technical support and service will confidently walk you through the setup and installation process for maximum productivity right from the start.

The A.W.T. World Trade Group was formed in 2002 when A.W.T. World Trade Inc. and Graphics Parts International Inc. purchased American Screen Printing Equipment.

A.W.T. World Trade Inc.
www.awt-gpi.com

American M&M
www.screenprintmachinery.com

GRAPHIC PARTS INTERNATIONAL, INC.
www.gpiparts.com

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