melco EMT16X

WITH MODULAR, MULTI-HEAD CAPABILITIES FOR MAXIMUM EFFICIENCY AND FLEXIBILITY

Entrepreneurship Unleashed

Flexibility and forward-vision drive success in the 21st century. Melco is the embroidery machine partner that will help set you up to get the most out of your business. With the EMT16X from Melco, you can experience the culmination of 50 years of embroidery technology and innovation. To address the shortcomings of traditional multi-head embroidery machines, we developed a modular embroidery platform that delivers industry leading performance, scalability and functionality. With a traditional multi-head setup, all of your embroidery heads must do everything together, including stitching completely identical designs, stopping for needle breaks and waiting for hoops to be loaded. By creating a super-capable, stand-alone machine that can leverage advanced software and networking, Melco brings a dynamic multi-head solution that maximizes efficiency to the market, allowing each head to operate independently while still being managed by a single, central control hub. This gives you all the capabilities of a traditional multi-head setup while also providing a myriad of advantages: more up-time, better space management, mass customization, improved operator efficiency and more.
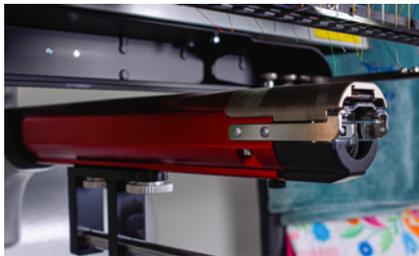
Innovation Advantage

SMALL ROUNDED LOWER ARM
Our lower arm is rounded and extra narrow, allowing you to easily embroidery items that other brands struggle to fit. Plus, the self-sharpening carbide cutter will ensure years of trouble-free operation.

ACTI-FEED™ AUTOMATIC TENSIONING SYSTEM
Automate your work flow with our patented Acti-Feed™ thread tensioning system that provides simplified operation, reduced thread breaks, and consistent results with speeds of up to 1500 SPM on flats and 1200 SPM on caps.

POWERFUL COMPUTER BASED INTERFACE
Control all your machines with a single computer running Melco OS. This powerful interface allows you to easily manage projects and machine settings with design barcoding, automatic color assignment and .OFM file format support.

Grow As You Go

Being truly modular means you can easily scale up to fit your needs. If you need an additional machine head, you don't need to replace your entire setup – just plug in an additional EMT16X to your network and you're good to go. This flexibility also makes it easier to organize your work space; each EMT16X can be placed where it works for you, instead of the single large footprint of a traditional multi-head machine.

Get More With Modular

Let's run through a few examples of a 4 head set-up and discover how the modular approach translates into more production, more opportunities and more profit for you embroidery business.

Independent Efficiency

Unlike a traditional multi-head setup, when one of your EMT16X machines has to be stopped for a thread change, hoop change or thread break, the other heads can keep stitching. This flexibility makes your setup up to 100% more efficient than a traditional multi-head machine and translates into massive, real-world savings.
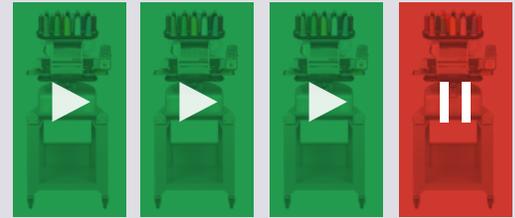
Multi-tasking Machines

With a traditional 4-head machine, once you've started a job, your entire setup is tied up until it's complete. With modular, independent machines, you have the freedom take on a smaller job that doesn't need all 4 heads. You can now dedicate one head to a rush job without interrupting a project already in progress, keeping you and your customers happy.

JOB 1   JOB 1   JOB 1   JOB 2

Mass Customization

Open up new revenue streams by offering name customization on large orders. Since each head is independently controlled, you can have each machine stitch a different name on each item – perfect for jerseys, uniforms and more! The software even handles name changes automatically with a design queue; when an item is finished, just change the hoop and go!

NAME 1   NAME 2   NAME 3   NAME 4

Commercial Features and Quality

16 COLORS
Commercial production with ultimate color flexibility

ACTI-FEED™
Automatic tensioning trouble-free operation at up to 1500 SPM

LASER REGISTRATION
Precisely position your project prior to stitching with a projected laser

NETWORKING
Link up to 30 machines together for ultimate flexibility

EXTRA LARGE SEW FIELD
Stitch large designs on jacket backs with a 16.1" x 15.5" sew field

CAP SUPPORT
Up to 1200 SPM with the included wide angle 270 sew field cap driver

LOWER ARM
Narrow design for small projects and easy positioning

ULTRA-RIGID HOOP ARMS
Stability means clean, uniform stitches at high-speed

WHEELED CART
Stability combined with easy relocation

melco DESIGNSHOP 11

Get the most out of your EMT16X machine with the included DesignShop v11 software. This world-class embroidery application empowers you with professional-level digitizing features while maintaining consumer-tuned accessibility. With intuitive automation features like Design Checker and Graphic Conversion Assistant*, you can explore a whole new world of customization all while ensuring beautiful and trouble-free stitching.

*Vector Level Feature

Melco EMT16X Specifications

With Cart	
Width	28.5" (724mm)
Height	65.7" (1669mm -3mm) damper compression
Depth	30.7" (779mm) front caster w/ brake extended
Weight	210.5 lbs (95.5kg)

Without Cart	
Width	28.5" (724mm)
Height	37.48" (952mm) (-3mm damper compression, thread tubes 70mm extended)
Depth	29.2" (741mm)
Weight	164.5lbs (74.6kg)

Number of Needles	16
Maximum Tubular Frame Size (XxY)	17.72" x 16.93" (450mm x 430mm)
Maximum Sew Field (XxY)	16.1" x 15.5" (410mm x 393mm)
Wide Angle Cap Frame	14.1" x 3.25" (360mm x 82mm)**
Conventional Cap Frame	5.9"x 2.75" (152mm x 70mm)
Min/Max Sew Speed Flats	300-1500 stitches per minute
Min/Max Sew Speed Caps	300-1200 stitches per minute
User Interface	Melco Operating System (MOS)
Machine Configuration	Advanced Interface: up to 30 individual machines. Simplified Interface: up to 6 machines.
Self-Diagnostics Capability	Retrieves relevant machine data for trouble-shooting
Design Memory	Dependent on hard drive, Max file size 500k
Pre-Sew Trace	Laser
Needle to Garment, Garment to Hoop Position	Laser Positioning System
Thread Feed Technology	Patented Acti-Feed™
Thread Break Detection	Upper & Lower Electronic Force Gauge Sensor
Automatic Stitch Backup	Yes
Automatic Trimmer	Yes
Power Supply (V)	90-260V (Single Phase, 50/60 HZ, 4A), Class I (Grounded)
Power Consumption (W)	Typical: 200 Watts Max: 650 Watts
Temperature Range	15-40° C
Humidity	Max 85% Relative Humidity
Installation Category (over-voltage)	II
Pollution Degree	2
Motor Type(s)	Servo, Stepping
Motor Capacity (kV)	X and Z: 100 Watts Y: 250 Watts
Machine Construction Material	Aluminum

**Max sew field may be garment dependent.

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