

# Single Head Embroidery Machine



**melco** EMT16 **plus**

# Feature Highlights

Melco EMT16plus is developed for business owners that need equipment that is easy to learn, fast and versatile. Here are some unique features on Melco machines:

## 16 Colors with Color Back-Up Function

- Less cone changes lead to more efficiency - standard colors can always remain on the machine
- Allows a part of the colors to be set up with special needles
- Put the same color on multiple needles - in case the thread cone is empty or a thread break occurs, the machine will switch to the next needle with the same color automatically and continue to produce

## Acti-Feed™ Thread Tension Technology

- Automatic thread tension - no manual fiddling with thread brakes
- Ensures constant high quality embroidery, even across seems
- Allows high speed embroidery, even with metallic or wool threads
- Easily set up special effects like 3D and Fancy Stitch (chenille) embroidery
- Simple thread path makes threading much easier

## Incredible Speed

- Up to 1500 stitches per minute on flats
- Up to 1200 stitches per minute on caps
- Despite the high speed, the quality of the embroidery is second to none thanks to the patented Acti-Feed™ technology
- Increase your productivity drastically

## Laser Registration

- Position, turn and scale a design precisely on the garment by using reference points such as pockets or seems
- Combine embroidery with other technologies such as print or laser to offer unique effects or to increase productivity
- Trace a design before starting, to see its position on the garment
- Allows splitting of large designs for multi-hooping

## Smallest Cylindrical Lower Arm in the Industry

- Use the largest cap sewing field in the industry - 82 mm in height and 270° in width
- Embroider small pockets on shirts, jeans etc. directly, without removing them first
- Larger variety of products - embroider directly on shoes, kids clothing, small bags etc.

## Computer Operated Modular Embroidery Machine

- Machine is operated with a Windows based computer - fully networkable
- Allows for barcode reader controlled production and remote maintenance
- Add more heads as your business grows - connect them via LAN-network to build your own modular multi-head embroidery machine





### Easy to Use

Melco EMT16plus embroidery machines are controlled by Windows-based computer - ideally with a touch screen - running the Melco Operating System. The intuitive user interface allows new machine operators to be trained in as little as 30 minutes. Even people without any computer skills and illiterates can use the system, since it's based on intuitive symbols.



### Fancy Stitch

The Melco EMT16plus is the only embroidery machine that allows Fancy Stitch, also known as Micro Chenille, without any special equipment. This popular effect is achieved with the use of wool thread and "controlled looping" of it with the help of the Acti-Feed™ system. All you have to do is click one button and your embroidery will stand out.



## Why Melco?

### Embroider Anything

The Melco EMT16plus allows you to embroider almost every material imaginable. From sensitive silk to tough leather - the machine handles it easily. This makes embroidery on items such as shoes, car carpets, upholstery, mattresses etc. a breeze. Best of all, the Acti-Feed™-System enables embroidery across material of varying thickness without it affecting the end result. Therefore, Melco users can offer their customers embroidery on almost anything.

### Remote Maintenance and Support

Because the Melco EMT16plus embroidery machine is computer operated, it can be accessed by Melco technicians via the Internet. This means that if a problem occurs, a technician can check your machine settings Online and help you almost immediately. About 80% of all support requests are solved with the help of our remote support. This way Melco can help you faster and more cost-effective, so that your production never has to stop.

### Auto Color Sequence

Combine your Melco EMT16plus embroidery machine with Melco's DesignShop digitizing software to increase your productivity even further. Melco's embroidery file Format OFM is the only format that also contains color information. This means you won't have to colorize the design manually on the machine, instead it's done automatically. This reduces setup times as well as human errors drastically, especially on designs with a lot of color changes.

### Switching to Melco is Easy

The Melco EMT16plus is able to read all major embroidery file formats and can even adjust its push- and pull compensation to imitate embroidery machines from other manufacturers. This means that if you're planning to switch to Melco, the transition is easy and you can reuse your existing designs without having to adjust them to new machine settings.

### Your Future is Our Future - Grow with Us

One of the most compelling reasons to choose Melco embroidery systems over conventional embroidery machines is the modular capability. Many start-ups purchase one Melco EMT16plus at first. This way they can learn all about embroidery with the help of Melco's experienced support for a minimal up-front investment. Once their embroidery business is booming and their capacity has to be expanded, they simply add more machines to their existing machine. These can then be networked with the existing machine to create a modular multi-head system. When your business grows, your Melco embroidery system grows with you!

To learn more about all the benefits of Melco's modular multi-head system, contact your Melco representative or consult the Melco multi-head brochure.

### KEY SPECIFICATIONS

Type/# of Heads	Upper Arm-Lower Arm/1 to 30 Modular
# Needles	16
Maximum Tubular Frame Size (XxY)	19.7"x 16.9" (500mm x 430mm)
Maximum Sew Field/Tubular Frame (XxY)	15.7"x16.1" (400mm x 410mm)
WA 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
Stitch Length Range	Dependant on Hoop Size
User Interface	Melco OS
Machine Configuration	Up to 30 individual machines, connected by Ethernet
Self-Diagnostics Capability	Retrieves relevant machine data for troubleshooting
Design Memory	Dependant 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
Lighting Type Cold Bright	Cold bright LED
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
Noise Level	60-74 Decibel

### PHYSICAL 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	374.8" (952mm) (-3mm damper compression, thread tubes 70mm extended)
Depth	29.2" (741mm)
Weight	164.5lbs (74.6kg)

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Melco technology is protected by – but not limited to – the following patents: Pat. US 4,955,305; Pat. US 5,603,462; Pat. US 5,832,853; Pat. US 6,445,970 B1; Pat. US 6,823,807; Pat. EP 0 666 351 B1; CH 693569 A5; Pat. US 6,736,077 B2; Pat. US 6,732,668 B2; Pat. US 6,729,255; Pat. US D474,785 S; Pat. US 6,871,605; more patents pending.