

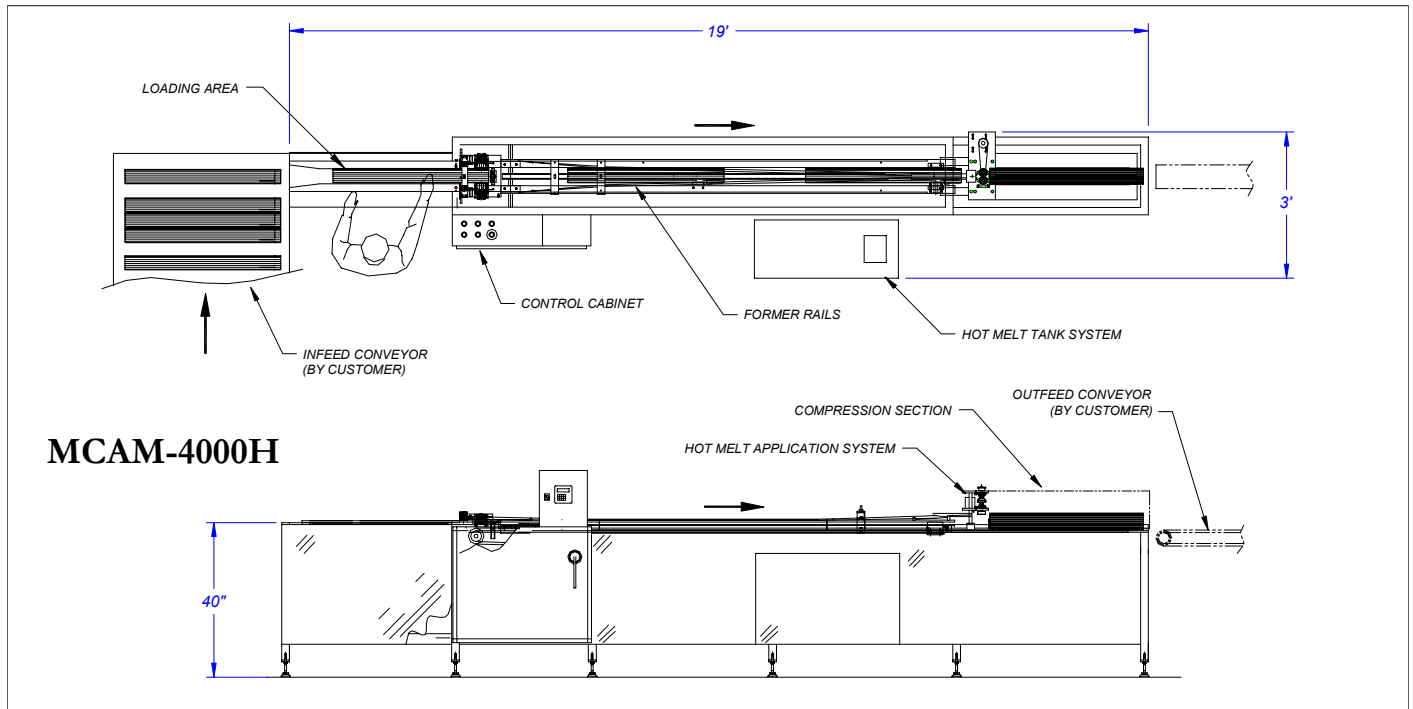
MASSMAN ENGINEERING, LLC.

FILTER-TECH DIVISION

STREAMLINING PRODUCTION THROUGH AUTOMATION

Semi-Automatic Cartridge Assembly Machine
MCAM-4000H – Hot Melt Adhesive
MCAM-4000U – Ultrasonic Weld

We are experts at designing systems that help you increase production efficiency, improve production flexibility and reduce manufacturing costs.



The Massman Engineering MCAM-4000H/U Series Semi-Automatic Cartridge Assembly Machine provides an affordable method of assembling and securing cylindrical oil, gas, water, or air filter media. An operator slides the filter pleat blocks into the MCAM where the media is automatically squared and formed into a cylindrical shape, seamed with hot melt adhesive or an ultrasonic weld, and discharged into a bin or onto a conveyor at speeds up to 30 parts per minute.

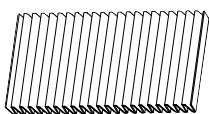
The MCAM-4000H/U uses the same proven adhesive seaming mechanisms as found in the Massman Engineering ACAM-H/U Series of fully automatic cartridge assembly machines

to provide a consistent, high quality filter cartridge. All MCAMs features quick “No



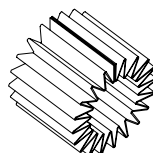
1. Filter Collation

Operator gathers pleat block



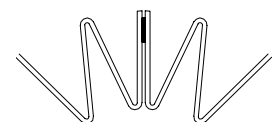
2. Filter Forming

Automatically forms cylindrical shape



3. Filter Joint Securing

Automatically applies hot melt or ultrasonic weld



**MCAM-4000H
MCAM-4000U**

Features



The MCAM-4000H/U Semi-Automatic Cartridge Assembly Machines include a self-contained programmable logic controller and operates automatically after the pleat block is introduced by the operator. After the pleat block is secured by the hot melt or ultrasonic weld, an automatic eject mechanism releases the finished assembly into a bin or onto a conveyor.



The MCAM-4000H includes a 20 pound hot melt tank, eight feet of hose, and a blunt nose dispense nozzle. It includes an automatically retractable nozzle for purging and system standby. Alternative dispense systems and sizes are available upon request.



The MCAM-4000U utilizes a 20Hz ultrasonic weld system with a 1100 watt ultrasonic power supply, and appropriately sized booster, tuned-horn, and rotating, pneumatic compliant anvil. Alternate ultrasonic weld systems and sizes are available upon request.



The “N” or “W” version of each of the MCAMs provide a different pleat block compressed width range capability. See specifications below.



The MCAM allows the operator to place an optional center tube into the unformed media prior to seaming.



Compressed air requirement is 75 psig (5 BAR) minimum. Filter, regulator, and pressure gauge are included. Operating voltage is 240V, three phase, 60Hz.



Product Specifications

Model	MCAM-4000HN	MCAM-4000HW	MCAM-4000UN	MCAM-4000UW
Through-put Rate	5 – 30/min.	5 – 30/min.	5 – 30/min.	5 – 30/min.
Slit Width Range	2.0 – 50.0 inch 50 – 1270 mm	2.0 – 50.0 inch 50 – 1270 mm	2.0 – 50.0 inch 50 – 1270 mm	2.0 – 50.0 inch 50 – 1270 mm
Compressed Width	2.0 – 6.0 inch 50 – 150 mm	4.0 – 10.0 inch 100 – 250 mm	2.0 – 6.0 inch 50 – 150 mm	4.0 – 10.0 inch 100 – 250 mm
End Pleat Height/ Depth Range	0.50 – 1.00 inch 12 – 25 mm	0.50 – 1.50 inch 12 – 38 mm	0.50 – 1.00 inch 12 – 25 mm	0.50 – 1.50 inch 12 – 38 mm
Center Tube Diameter (Optional)	1.00 – 1.30 inch 25 – 32 mm	1.20 – 2.80 inch 30 – 70 mm	1.00 – 1.30 inch 25 – 32 mm	1.20 – 2.80 inch 30 – 70 mm

For more information, please contact:



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