

# ROBO QUILTER



SINCE 1947



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## STATE OF THE ART VERTICAL QUILTING

ABM International, Inc. presents the world's first fully automatic vertical quilting machine. The state of the art Robo Quilter uses only 1/6 of the floor space of a conventional panel quilter.

- ▶ Save 80% of floor space
- ▶ Reduce labor cost 75%
- ▶ Increase production 25%

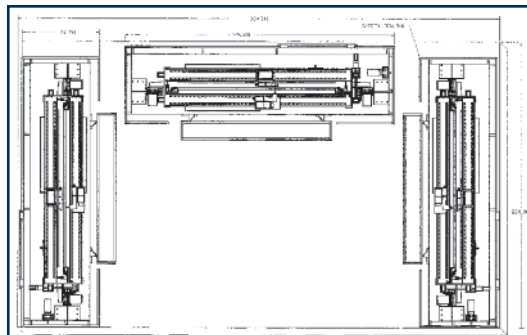
The Robo Quilter automatically grips, stretches and racks the comforter to be quilted. It automatically senses the size of a comforter as it is indexed into the sewing position, systematically scaling the sewing pattern and adjusting the borders.

The Robo Quilter has been designed with our exclusive automatic bobbin changer. These features together allow one operator to run multiple machines simultaneously.



### FEATURES & BENEFITS

- ▶ The Sewing Head is a full computer controlled quilting system capable of sewing any pattern on your product.
- ▶ A color Touch Screen user interface with an advanced computer processor allows for user-friendly operation.
- ▶ The Automatic Bobbin Changer is complete with two quick-change carousels that hold up to eight bobbins each. This enables the operator to run multiple machines with less down time wasted during bobbin changes.



**A 3-machine configuration efficiently utilizes minimal space**

- ▶ The Auto Index Conveyor provides hands free positioning of the comforter into the sewing area while stretching.

### FULLY AUTOMATIC COMFORTER LOADING

- ▶ The Robo Quilter is highly automated and the most user-friendly machine available on the market today.
- ▶ Designed with the operator's ergonomic needs in mind, the operator simply attaches the leading edge of the quilt.
- ▶ The product automatically indexes into the sewing position.
- ▶ The product is measured and the product gripper mechanisms adjust for size changes automatically.
- ▶ The grippers then automatically grip and stretch the product, preparing it for quilting.
- ▶ Due to the machine's extensive automation, depending upon the pattern, one operator can easily run multiple machines.



## SEW HEAD MECHANICS

- ▶ Many different sewheads are available.
- ▶ Pictured here is the Robo equipped with Pfaff 483.
- ▶ Sew speeds reach 4,500 SPM.
- ▶ Gantry transport speed reaches 1,000 IPM.
- ▶ Standard frame size 120" x 110".

## COMPLETED COMFORTER LOAD SEQUENCE

- ▶ After the product is indexed into the sewing position, the quilt cycle can begin.
- ▶ The machine automatically backtacks at the start and finish of the pattern.
- ▶ Many different patterns are available—from simple continuous to complex tack and jump.
- ▶ When tack and jump is utilized, the Robo Quilter automatically backtacks and thread trims at every start and stop.
- ▶ After the sewing cycle, the product is automatically indexed and folded in half so the operator can remove it effortlessly.

## AUTOMATIC BOBBIN CHANGER

- ▶ Robo Quilter is the only machine available with a fully automatic bobbin changer.
- ▶ The machine keeps track of the number of products that can be sewn per bobbin.
- ▶ Every time a bobbin is fully utilized, the machine will automatically remove and discard the empty bobbin while inserting a new full bobbin.
- ▶ The changer holds up to eight bobbins.
- ▶ When the carousel is emptied, the operator can quickly and easily replace it with a full one.

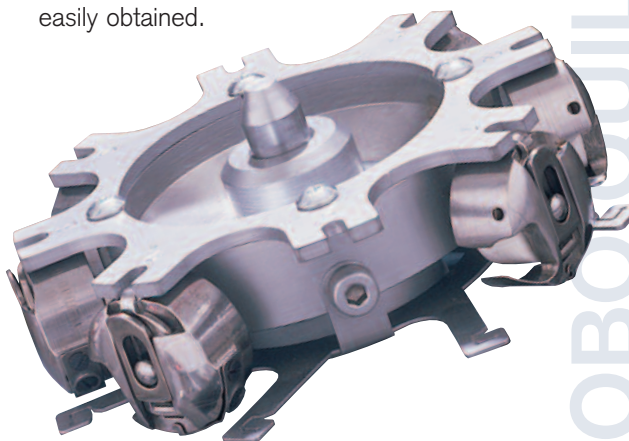


S E W H E A D

## I N T E R F A C E

### COLOR TOUCHSCREEN OPERATOR INTERFACE

- ▶ The Robo Quilter is equipped with an extremely user-friendly color touch screen operator interface.
- ▶ It uses a standard PC as a programming computer with a Windows Operating System.
- ▶ Standard CAD Systems are available for pattern generation.
- ▶ It produces consistent stitch length under all sewing conditions.
- ▶ Production data can be easily obtained.



B O B B I N C H A N G E R

## PRECISION ENGINEERED

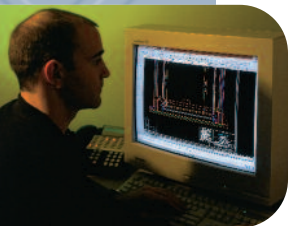
- ▶ ABM's expert team of Engineers has spent many hours designing and testing the mechanisms utilized on the Robo Quilter.
- ▶ The Robo's gantry robot design utilizes precision-machined linear ball bearing guideways for all axis of motion.
- ▶ Due to rigorous stress analysis, we've created the most advanced and efficient system available for quilting today.

## QUALITY

- ▶ ABM International, Inc. in Illinois, is a vertically integrated manufacturer with in-house design, programming, welding / fabricating, machining and assembly.
- ▶ With over 70 years of experience in manufacturing quilting machines, our highly trained expert staff consistently delivers the quality our customers deserve.

## IN-HOUSE MACHINE DESIGN

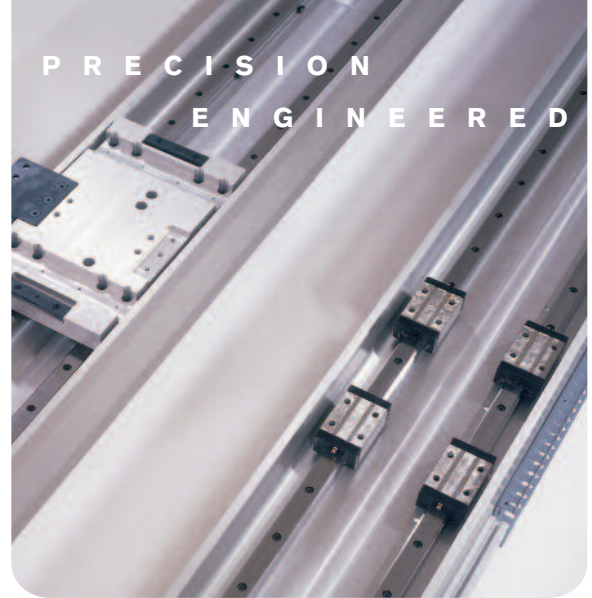
- ▶ ABM's highly trained engineering design team anxiously awaits your projects.
- ▶ We are available 24 hours a day for customer service, so you can rest well at night!



ABM INTERNATIONAL'S WORLDWIDE HEADQUARTERS, HOUSTON TEXAS

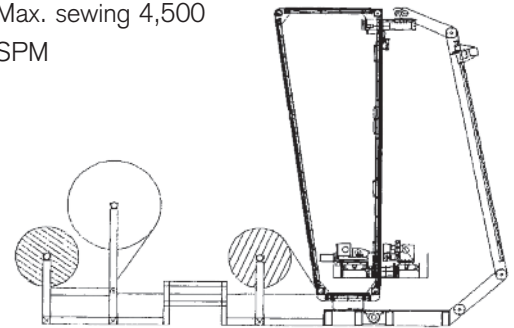
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## TECHNICAL DATA

- ▶ PC based
- ▶ 1.5 gig
- ▶ 3.5" floppy
- ▶ Max. 120" x 110"
- ▶ Max. speed 1,000 IPM
- ▶ Max. sewing 4,500 SPM
- ▶ Weight 10,500 lbs.
- ▶ 220 volts three phase, 20 amps
- ▶ 100 PSI at 2.5 CFM
- ▶ Floor space 5' x 17'



**Robo Quilter is also available  
with roll feed**



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ABM International, Inc., headquartered in Texas, has been serving the home furnishing market of the textile industry for over 70 years.

At ABM International, Inc. we are committed to manufacturing excellence and superior customer service. Let us provide you with the highest quality state-of-the-art machinery that will enhance your operations, improve your production, reduce your costs—and ensure your success!

Disclaimer: Information contained in this brochure is subject to change without notice to consumer. ABM reserves the right to make engineering changes and modify or change its products at any time without notice. This includes changes and or modifications to the machine, electronics, software, mechanical component and frame specifications. Please confirm exact specifications with ABM International, Inc. at time of order placement.