



RAMS

ROBOT-ASSISTED
MANUFACTURING SYSTEM

ATOM



RAMS - ROBOT ASSISTED MANUFACTURING SYSTEM, IS A MODULAR SYSTEM FOR THE SHOE PROCESSING THAT INTEGRATES MACHINES SPECIALIZED IN PRODUCTION OPERATIONS AND ANTHROPOMORPHIC ROBOTS FOR THE HANDLING OF THE SHOE BETWEEN OPERATIONS.

THE SYSTEM HAS BEEN DESIGNED TO OFFER MAXIMUM FLEXIBILITY, USING THE BEST AVAILABLE OPERATIVE TECHNOLOGY AND ELIMINATING THE LOW ADDED VALUE TRANSACTIONS, IN PARTICULAR THE LOADING AND UNLOADING OF THE MACHINES, IN ORDER TO BE INTEGRATED IN EXISTING PRODUCTION SYSTEMS.

THE MACHINES WORK IN "UNATTENDED" MODE, RECOGNIZING THE SHOE VIA RF TAGS AND THEREFORE AUTOMATICALLY CHOOSING THE WORKING PROGRAM AND THE CORRECT SEQUENCE OF OPERATIONS TO BE MADE. ATOM MB IS THE ONLY COMPANY CURRENTLY ABLE TO OFFER A TOTALLY INTEGRATED SYSTEM

IN ITS VARIOUS COMPONENTS, LEVERAGING ON THE MULTI-YEAR EXPERIENCE IN THE PRODUCTION OF MACHINES FOR THE FOOTWEAR SECTOR AND ON THE EXPERTISE IN ROBOTIC MANIPULATION DEVELOPED BY ATOM LAB.



Flexible

The system uses «modules» (machines, robots, buffers), which can be composed in the best way according to the production needs, and can only cover part or the whole production process. It can be inserted into existing and consolidated production processes and allows to maximize the existing investments. It is adaptable to any type of shoe and production mix, in particular it allows the use of existing lasts, without requiring investments in new or modified lasts.

Scalable

The system can be scaled through several steps, in order to calibrate the investment correctly and to guarantee short-term returns. The system can cover the entire production process or only one phase.

Integrated

All components communicate with each other within a shared control framework that can be easily integrated into existing production systems.

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THE COMPONENTS (MODULES)



MACHINES

Specialized machines in:

- Lasting
- Bottom processing
- Heat treatment



CONTROL

Flow control and management system and information among the various components



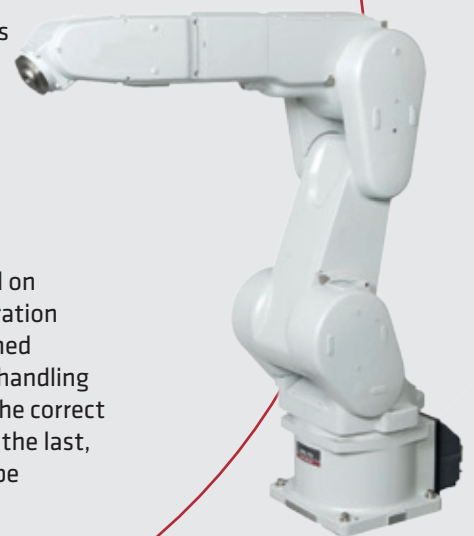
BUFFER

Trolleys, conveyors, configurable warehouses according to the process needs



ROBOT

Anthropomorphic robots sized on the specific manipulation operation and / or transfer to be performed. The robots are equipped with handling devices developed ad hoc for the correct processing of the footwear on the last, so as to insure that it will not be damaged in any way.



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SYSTEM

FLEXIBLE
SCALABLE
INTEGRATED



Why choose Atom MB?

- More than 60 year specific experience in the shoe lasting sector
- Latest generation products which simplify the working operations
- Quick and efficient customer care thanks to the well-provided spare parts warehouse
- Qualified technical staff ready to answer the needs of the most modern shoe factories
- "Made in Italy" quality: hardware and software are designed and developed in-house

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