



rep

## AUTOMATED SOLUTIONS

Automation is adapted to meet the specific needs and goals of each customer.

Infinite possibilities for the following operations:



Feed runner evacuation



Inserts loading



Flash and tear trim evacuation



Stripping of finished parts



Release agent spraying and/or mold cleaning



Visual compliance testing

and many other solutions ...

RUBBER  
IN MOTION

# OPERATOR ASSISTANCE

## INSERTS FEEDER

Equipment developed for improved productivity and ergonomics when handling heavy loads.

This feeder is used to **introduce** and **position inserts simultaneously** in all mold cavities. **Quick handling and intuitive use** thanks to the joystick control and offset axis guided by the operator.

### BENEFITS:



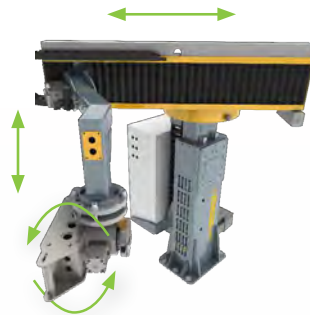
- **Increased productivity:** The operator works in hidden time and reduces his intervention time while the press is open.



- **Improved quality:** Simultaneous feeding results in the same temperature of all inserts. The bonding agent reacts in the same way and curing is homogenous between the cavities.

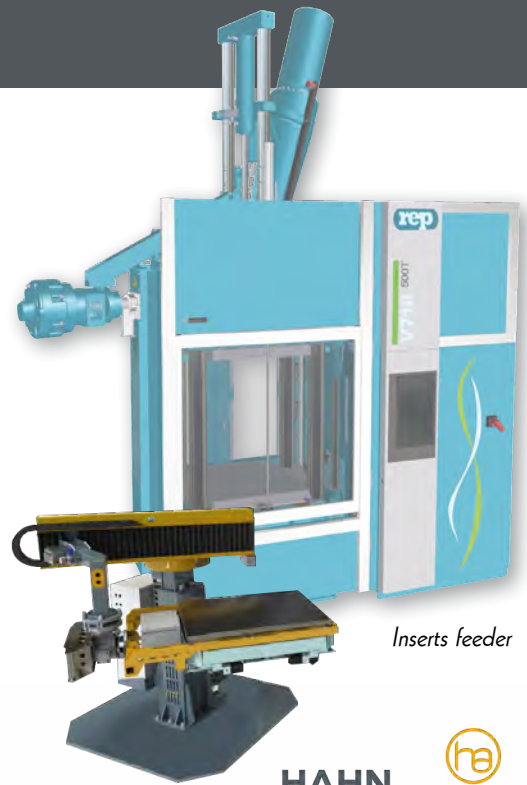


- **Ergonomics:** Assistance in the handling of heavy loads.



*Articulated arm for compact, accurate and reliable handling*

Productivity / Quality / Ergonomics



*Inserts feeder*

**HAHN**  **AUTOMATION**

CHARACTERISTICS		
Loading capacity	kg	up to 250
Vertical stroke	mm	450
Stroke	mm	900 ⇄ 1440

# PARTIAL AUTOMATION

## STRIPPING KIT

Equipment for the partial automation of production on a vertical molding press. These powerful, durable and scalable kits allow for time saving and a higher productivity throughout the cycle.

An **additional brushing system** may be added to the equipment. It makes the cleaning of the cavity plates easier. These devices allow for the use of double-plate molds for the **parts stripping in hidden time**.

*Rear kit*



*V710 Front kit*



*S05 2Y1000 Front kit*



Performance / Productivity / Quality

### EXAMPLES OF POSSIBLE MACHINE CONFIGURATIONS :

- Top rear kit for **parts stripping** with **ejection battery** or **runner evacuation system**;
- Bottom front kit for **parts stripping** from **single-plate** or **double-plate** molds (holding temperature possible and optional ejection battery);
- Other kinematics are possible.





# FULL AUTOMATION

## ROBOTIZED UNIT

Turnkey solution, 100% automated, flexible and adaptable to every situation, whether simple or complex:

- **Sharing of the robot on several workstations** during the production cycle is possible;
- **Integration of additional peripherals** (vibratory bowl feeder, stacker/unstacker, spraying system, activation torch, visual inspection);
- Quality improvement of **finished parts**



Handling robots

## BRUSHING SYSTEM ON HORIZONTAL MACHINES

Brushes can be used **at each cycle** to **clean the mold surfaces** and make the **stripping process of molded parts** easier.

This equipment may be engineered to be set at the exact space available between both mold halves installed so as to have an **automatic production cycle**.



Quality / Versatility / Productivity

## FOCUS ON ...

## ROBOTIC CELL FOR THE PRODUCTION OF FUEL CELL GASKETS

### CHARACTERISTICS OF THE FINISHED PART

- Dimensions of the insert: 290 x 160 mm x 0.1 mm
- Gasket overmolding
- Gasket thickness: 0.5 mm
- LSR volume of the gasket: 3.1 cm<sup>3</sup>
- Specific stainless steel 316L for fuel cell applications



LSR Fuel Cell Gasket



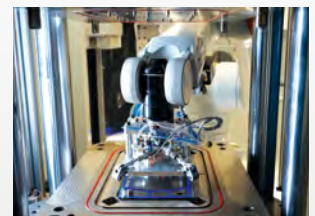
V410 50 cm<sup>3</sup> LSR

### FLASHLESS SOLUTION

- Flashless and waste-free molding
- FEA optimized machine structure (Finite Element Analysis)
- Perfect clamping force distribution inside the mold
- Consistent stability of the geometry

### AUTOMATED CELL

- "Plug & Automate" flexible cell concept
- Inserts loading
- Plasma torch activation of the molded surface
- Automated parts stripping
- Visual compliance testing of the gasket depositing



PARTNERS WITH A PROVEN TRACK RECORD IN THEIR FIELD



# VALUE-GENERATING INNOVATING SOLUTIONS

Thanks to their technical expertise, the REP teams are able to perform projects which optimize the customer's productivity in any industrial field.

REP's teams share their experience and advice throughout the project for the development of pertinent solutions.

## PROJECT PRESENTATION

Understanding & Sharing, to define the customer's needs and find the best solution to design.

## FINAL DEVELOPMENT REVIEW

Test and finalization of the systems developed for utmost process profitability.

## MANUFACTURE

Project manufacture kick-off in compliance with the specifications.

# ALL-ROUND SERVICE THROUGHOUT THE WORLD



## PROJECT ENGINEERING & PRODUCTION

Feasibility study of the production tool (press, mold, CRB, automation) and estimate of its productivity / profitability.



## ASSESSMENT & CONSULTING

Assessment of the customer's compound characteristics through REP engineers and technicians & customer advice.



## DESIGN

Project Development & Modelling in compliance with the objectives approved with the customer.

**"We focus on continuous innovation for profitable performances of our customers"**



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# RUBBER IN MOTION