



2025 SPECIAL EDITION



REP

NEWS



The REP Group
Newsletter

OUR STAND
AT K2025

WHAT'S NEW
AT K2025

SYNERGY
OF SUPPORT
SERVICES

K2025: New product offering, energy savings, recycling and innovation

As we enter the final quarter of 2025, instability continues to dominate the geopolitical landscape, eroding confidence across the board, for households, investors, manufacturers, markets, etc. At the same time, the automotive sector, historically the driving force behind our industry, continues to go through a period of profound change, including electrification, regulatory uncertainty and evolving demand. In this wait-and-see climate, investments are being postponed or reconsidered, requiring us collectively to demonstrate agility and resilience.

■ A product offering designed for today and tomorrow

For this edition of K2025, we **officially present the first milestones in our new range of injection molding machines**. Intended as a gradual successor to our current range, it will be available in two complementary versions:

- **ULTRA**, for maximum performance on the most demanding applications
- **OPTIMUM**, designed to combine efficiency and economic sobriety

These lines embody our determination to meet our customers' needs as closely as possible, whatever their markets or constraints.

In the same spirit of adaptation and innovation, we are continuing to roll out our **HSR offering**, in support of the circular economy and recycled materials, while continuing to strengthen the expertise of our RPM subsidiary in **EPG horizontal presses**, a key area of technological development.

■ A stronger strategic partnership

REP has been working in partnership with Taiwan manufacturer Tung Yu for over 20 years, combining European technological excellence with Asian efficiency.

■ CSR and innovation at the heart of our mission

In a world demanding ever-greater **transparency** and **accountability**, we are stepping up our CSR practices: reducing waste, lowering our carbon footprint, analyzing our product life cycles and improving the energy mix in our plants.

These commitments are in line with customer expectations and are a natural part of our positioning strategy.

■ Artificial intelligence: a non-deterministic tool for our common future

AI is not an end in itself, but a **non-deterministic tool**: it learns, proposes and evolves. We integrate this approach with responsibility and prudence in the design of our machines and in helping our organization and working methods to evolve.

■ Renewed proximity

At a time when face-to-face interactions remain essential, we are affirming our support and presence in the field.

Being close to our customers means **continuing to understand their real-life challenges, co-construct sustainable solutions** and **maintain a relationship of trust**.

■ A new K2025 edition

We look forward to seeing you at our **Stand D28 (Hall 16)** in Düsseldorf, to **discover our solutions, discuss your roadmap, and explore together how we can meet the challenges** of responsible, high-performance investment.



Hervé REVEL
CEO
REP international

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DISCOVER OUR STAND



- Our machines and solutions
- Focus on the different areas

PAGE 6

WHAT'S NEW AT K2025

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NEW GENERATION G11

- Introducing the ULTRA 300
- Injection molding expertise
- An intuitive user experience
- Operator-friendly design
- Eco-responsible performance



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NEW OPTIMUM RANGE

- Introducing the OPTI 250
- Uncompromising precision
- Proven mechanical reliability
- Simplified use
- Eco-efficient press



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REGENERATE YOUR WASTE

- HSR technology
- Economic and environmental benefits
- Help to calculate ROI

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BUSINESS SECTORS

- Pump stator molding
- Energy applications
- Bladder by injection
- Production of large flat gaskets

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SYNERGY OF SUPPORT SERVICES

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ROTOCURE SOLUTION

- Tung Yu Partnership
- Linear production, continuous performance



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ASSISTANCE AND EXPERTISE

- Range of training sessions
- One retrofit, multiple benefits
- Preventive maintenance activated

REP K2025 NEWS

REP international Group
Newsletter

Director of Publishing:
Hervé REVEL

Copywriting, editing,
illustration and design: REP
international Marketing
Department

Available in English, French,
German, Spanish and Italian.

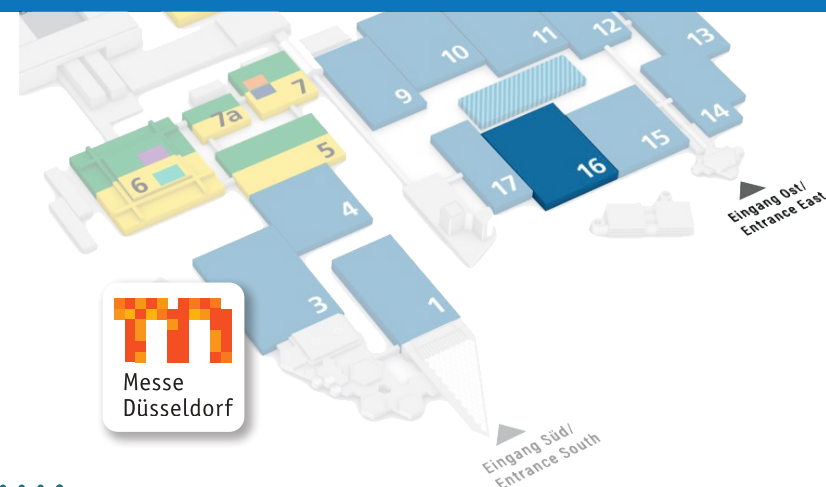
Photos © REP international
Printed by Imprimerie Ranchon

REP at K2025: our focus will be on innovation, energy savings, recycling and services!

REP is delighted to be taking part in K2025 in Düsseldorf, the world's no.1 trade fair for plastic and rubber industry professionals.

This year, REP will be unveiling **two new ranges of machines** that are even more powerful, innovative, and designed to meet the challenges currently facing the industry. You'll also discover our **HSR solution for waste recycling**, a tangible step towards more circular, sustainable production.

And don't miss our other solutions on display, including horizontal presses, compression machines and Rotocure, as well as our REP Services Zone.



DISCOVER OUR STAND

2 OPTI 250 New OPTIMUM range

ROBUST, COST-EFFECTIVE VERTICAL PRESS

Designed for industrial efficiency, this press combines reliability, simplicity and performance at an optimized cost.

Come and see it on our stand!

Detailed description on page 8.

1 ULTRA 300 New generation G11

CUSTOMIZABLE VERTICAL PRESS

Designed to adapt to any purpose, this 100% customizable press offers cutting-edge technology for maximum productivity.

Discover the full configuration on our stand!

Read more on page 6.

6 REP Services Zone

Come along and chat to our teams to find out how our complementary services can offer you customized support.

5 EPG Zone

Discover our range of electric horizontal presses. Compact and connected, it is the answer to eco-friendly production.

4 OUR PARTNER TUNG YU

In this zone, the TUNG YU Group will be displaying its expertise in compression presses, servo-electric solutions, vulcanizers and rotocure machines. A reliable technology partner, recognized for their ability to offer a wide range of equipment.

Read more on page 14

3 HSR Regeneration Zone

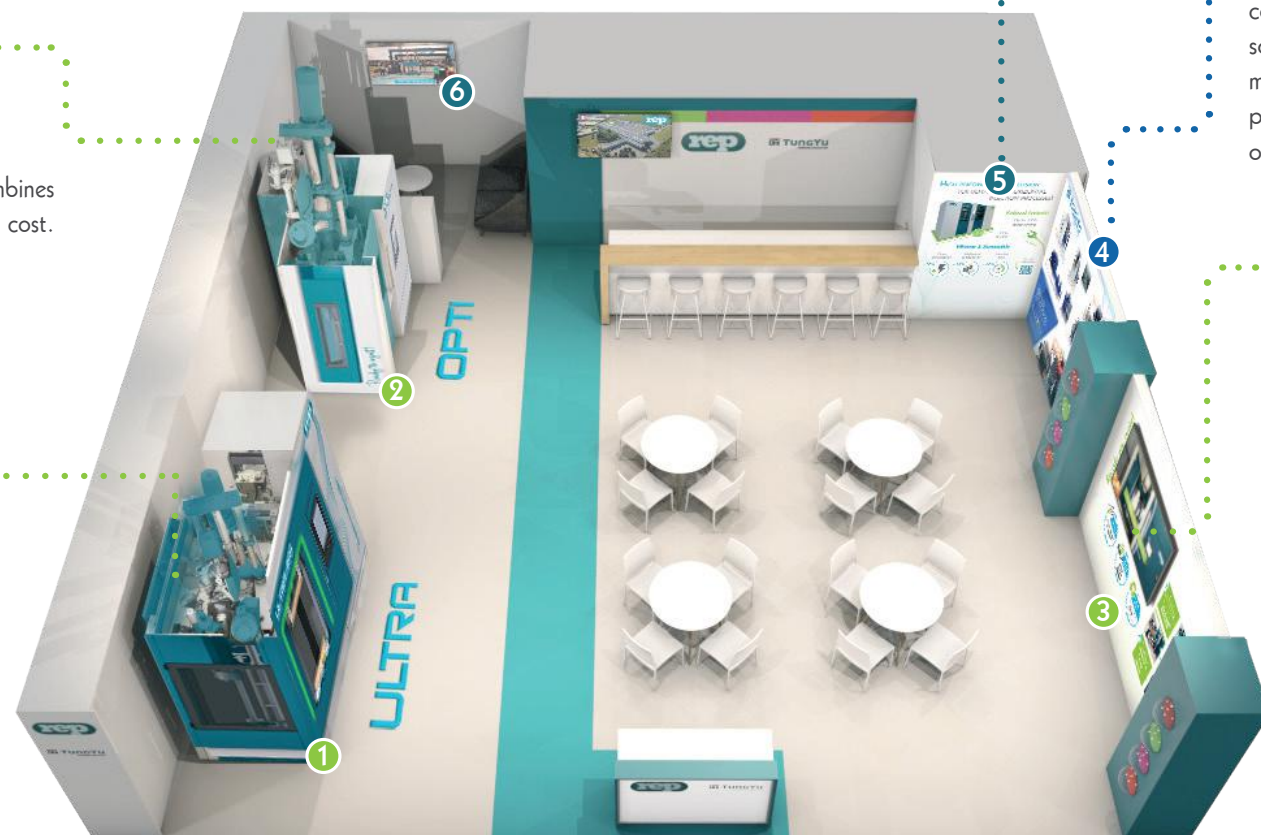
RUBBER WASTE RECYCLING

Discover how to turn your waste into opportunities! REP offers a clean, cost-effective, in-house solution for recycling your vulcanized rubber waste without any additives.

In our dedicated HSR Zone: explanatory video, presentation of samples, and case studies to discuss with our experts.

Learning zone, where steps will be explained and samples displayed on the stand.

Detailed description on page 10.

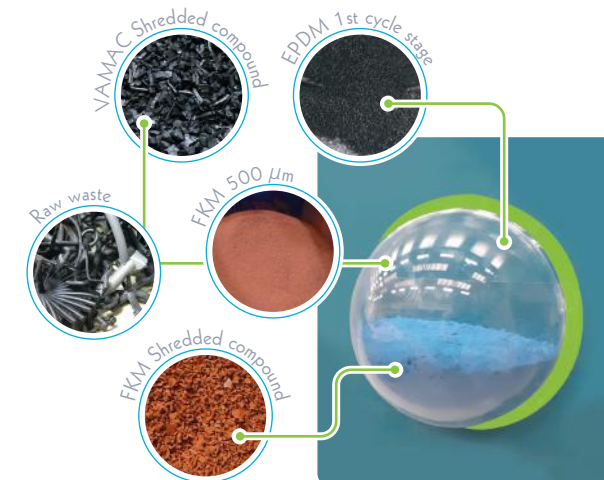


rep & TungYu

HOPE YOU ENJOY YOUR VISIT!

HALL 16
STAND D28

From October 8 to
October 15, 2025.



NEW GENERATION G11

PERSONALIZATION & PERFORMANCE

The new G11 range further develops REP's expertise with an 11th generation of **ultra-precise, ultra-compact, ultra-ergonomic, ultra-customizable presses!** The ULTRA models embody a new generation of cutting-edge technology designed with the user in mind.



Precision / Performance / Personalization

G11
NEW
GENERATION

*Highest performance
in every injection!*

ULTRA 300, GENERATION G11's FLAGSHIP MODEL

A new range of machines, combining optimum user-friendliness with intelligent features, to guarantee access to advanced technology that is 100% customizable.

CLOSING UNIT		ULTRA 300
Clamping force	kN	3,050
Heater Plates	mm	560 x 630
Distance between the columns	mm	730 / 470 mm
Max. opening stroke	mm	500
INJECTION UNIT		L2000
Volume	cm ³	2,000
Pressure	bar	1,500

+ ULTRA RANGE

- Clamping force 160 t to 800 t
- Injection volume 500 cm³ to 35,000 cm³

REP'S EXPERTISE IN CONTROLLED INJECTION

Featuring REP's LIFO technology, the ULTRA range guarantees:

- Broad compatibility with all types of materials (high and low viscosity and hardness),
- Uniform filling, with no stagnation or contamination,
- Complete control of the process in real time,
- Impeccable repeatability and quality thanks to closed-loop control,
- Injection pressure up to 3,000 bar for the most demanding applications.

This unique technology ensures uncompromising precision and broad compatibility.

DESIGNED WITH THE OPERATOR IN MIND

Optimized ergonomics

Comfort and productivity go hand-in-hand, so REP has redesigned the working environment to reduce fatigue and improve posture:

- Carefully designed work surface height,
- Enhanced lighting in the molding area,
- Greater visibility of the machine status.

Simplified maintenance

Access to peripheral devices and production areas is direct and intuitive.

- Front recess for better accessibility to the molding area,

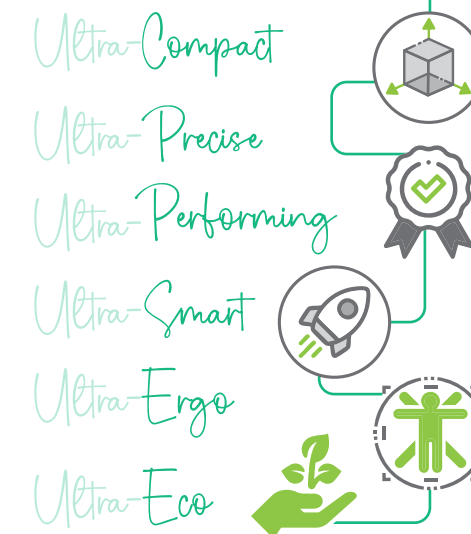
INTUITIVE USER EXPERIENCE

The HMI can be adapted to each operator and each use.

- Large touchscreen display that can be rotated on two axes,
- Smooth vertical adjustment over 300 mm,
- Simplified navigation, pre-configurations,
- Personalized display.



ADVANCED
CONNECTIVITY
AND BETTER
TRACKING



**ULTRA: THE IDEAL
SOLUTION, CUSTOMIZED TO
MEET YOUR NEEDS!**

ECO-FRIENDLY PERFORMANCE

The focus is on reducing our environmental impact, with the integration of a servo pump, optional enhanced thermal insulation, and 50% lower oil consumption, enabling up to 40% overall energy savings and 60% reduction in vulcanization time.

IMPROVED QUALITY, FASTER SPEED

Safety and productivity

- Light curtains: safety without slowing down production
- Compliant with CE and other international standards



NEW OPTIMUM RANGE

EFFICIENCY, RELIABILITY & SIMPLICITY

The new OPTIMUM range has been designed to provide a range of robust, cost-effective machines, offering both efficiency and production cost optimization without compromising on quality or performance. Functional presses combining reliability, simplicity and performance.

OPTI

Ready to inject!

OPTI 250, THE NO. 1 MODEL IN THE OPTIMUM RANGE

The ideal partner for manufacturers seeking affordable performance and quick start-up.

CLOSING UNIT		OPTI 250
Clamping force	kN	2,500
Heater Plates	mm	570 x 630
Distance between the columns	mm	710 / 350 mm
Max. opening stroke	mm	400
INJECTION UNIT		Y2000
Volume	cm ³	2,000
Piston diameter	mm	81.5

Reliable / Practical / Efficient

OPTI: THE PERFECT COMBINATION OF PRICE, PERFORMANCE AND QUALITY!

OPTIMUM RANGE

- Clamping force 150 t to 800 t
- Injection volume 500 cm³ to 35,000 cm³

EXTENSIVE RANGE WITH OTHER CONFIGURATIONS: **VERSION J** (JAPANESE STANDARD) AND **ERGO VERSION** AVAILABLE.



ECO-EFFICIENT PRESS

Reduces costs and environmental footprint

Integrated REP Eco-Pack technologies for environmentally responsible, energy-efficient production.

Compatible technologies:

- TURBOCURE®: balanced thermal filling (Templnverter® + FillBalancer®)
- Isothermould®: uniform temperature across the platens
- Advanced thermal insulation: Reduced heat loss
- WattMeter (Pack 4.0): Measures consumption in real time



UNCOMPROMISING PRECISION

The REP injection unit excels with its unparalleled LIFO technology. Every parameter is monitored to ensure consistent, controlled production.

- Compatible with a wide range of materials (all viscosities and hardnesses)
- Thermal control for up to 4 independent zones
- Precise, consistent dosing
- Zero stagnation: consistent mixing, with no alterations or contamination



EASY TO USE, EASY ACCESS

Optimized working height

- Modern outer casing with direct access to sensitive areas
- Takes up less space to offer more flexibility

Intuitive interface and navigation

- 15" touch screen, operable with gloves
- Free Sequence scheduling
- Pre-configured for future upgrades



PROVEN MECHANICAL RELIABILITY

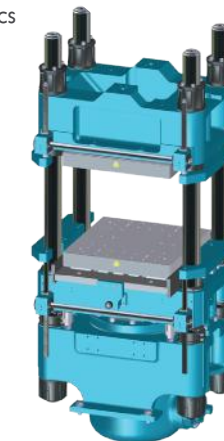
Designed to last, the press structure guarantees robustness and precision. Each component is selected for its strength and compatibility with demanding working environments.

Closing unit

- 2 or 3-step kinematics
- Grease-free guiding system: no risk of polluting the equipment
- Closes with no deformation: Parting line quality preserved

Scalable hydraulic system

- High efficiency pump
- Integrated smart servomotor
- Configurable to suit your needs



AN ADAPTABLE MACHINE

The OPTIMUM range is designed to evolve to suit your needs.

Each peripheral device or add-on enhances the press, without compromising performance.

- Demolding devices, cleaning systems, insert loaders, etc.
- Complete automation system integration (Euromap 67),
- Injection compatible with paste silicones (VB) and LSR.



RECYCLING AND COST SAVINGS

RECYCLE YOUR RUBBER WASTE

With our HSR (*High Shear Regeneration*) technology, REP offers an innovative, sustainable solution for recycling vulcanized rubber waste directly in-house. This patented thermo-mechanical process preserves the properties of the original compound without adding chemicals, while significantly reducing production and waste disposal costs.

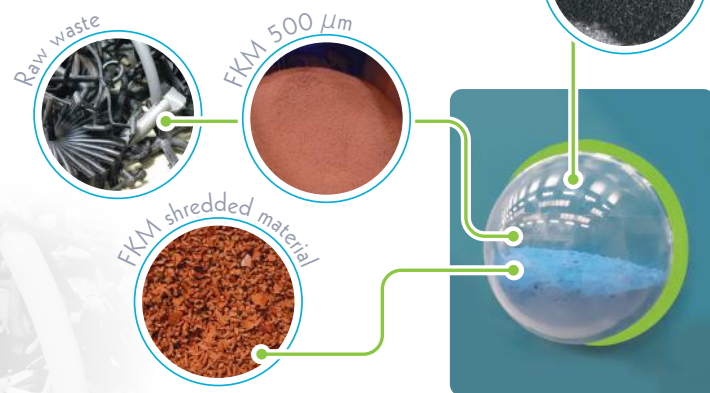
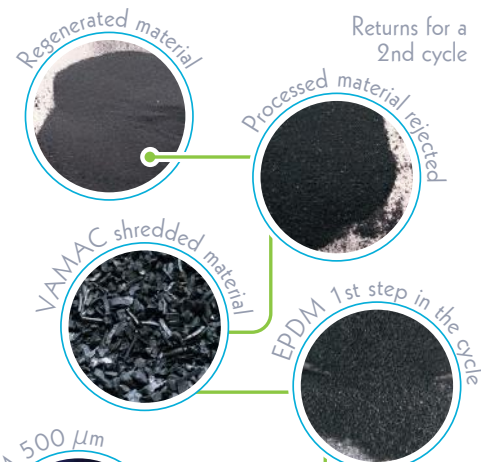
CONTROLLED OPERATION

Thanks to precise control (of temperature, pressure speed, etc.), the machine adapts to each formulation to guarantee consistent quality of the regenerated rubber.

More than just recycling: controlled regeneration means profitability and respect for the environment.

ECONOMIC AND ENVIRONMENTAL BENEFITS

- Reduces material costs per kg
- Eliminates waste-related logistics costs
- Closed-loop recycling: complete control of the production cycle
- Thermo-mechanical process with no additives
- Reduces CO₂ emissions



REGENERATION OR DEVULCANIZATION?

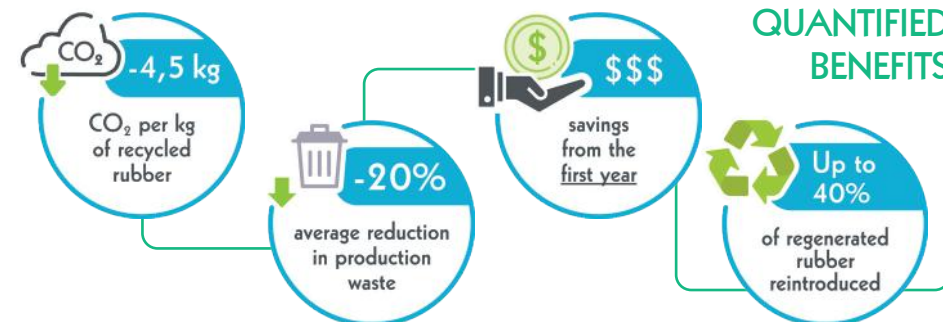
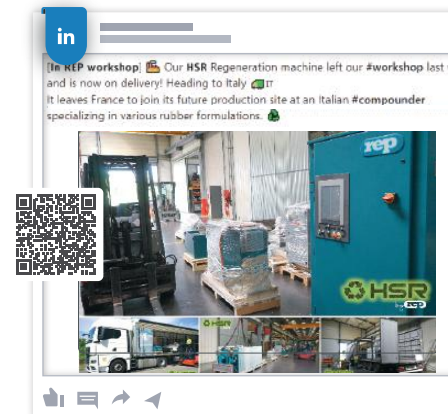
These two terms refer to methods of recycling vulcanized rubber waste. The difference lies in how this is achieved.

Devulcanization breaks down crosslinks using chemical agents.

Regeneration, on the other hand, acts by shearing and heat, without chemical additives, in a targeted thermo-mechanical process.



Follow all the latest HSR news (research, case studies, manufacturing, etc.)



HSR: LET'S MAKE THE MOST OF YOUR WASTE! TURN YOUR WASTE INTO OPPORTUNITIES.

WATCH THE VIDEO TO SEE HOW IT WORKS!



SPOTLIGHT ON FLUROELASTOMERS

Did you know?

Specific materials such as fluoroelastomers (FKM, FFKM) are some of the most cost-effective to recycle?

For example, for an FKM rubber costing €25/kg; the impact is quickly realized:

- The investment is paid off in the first year of production
- Annual savings of nearly €430,000 can be measured from the second

PERSONALIZED CALCULATION OF YOUR RETURN ON INVESTMENT

To measure your future added value as accurately as possible, we have created a template to estimate your cost savings and the reduction in your environmental impact (CO₂ emissions). Simply provide us with the following information to start a project together!



- Formulation(s) of material to be recycled
- Quantity to recycle per year
- Average price of each formulation
- Location (country)
- Potential working days/times of the equipment.

Rodrigo DIAZ
R&D Process and Application Engineer
Recycling Expert



year, with only 18 tonnes of waste recycled per year.

- CO₂ is reduced by more than 150,000 kg per year (FKM production generates an average of 8 kg of CO₂ per kg produced).

All this can be achieved by reintegrating your recycled material into your original mix, with little or no change in technical performance!

This is just one example of how you can **save money while doing something positive for the environment!**

SPOTLIGHT ON CHANGING INDUSTRIES

What makes REP presses different is the fact they can be used in many different industries, thanks to their wide range of special applications. From tires or sealing, to moving liquids or electricity, REP's expertise is recognized for its versatility.

PUMP STATOR FOR MOVING LIQUIDS

H-Stator Machine

- **Continuous injection control** using two sequential injection units
- **Superior molding quality**, with no joint lines
- The machine is adaptable to **any size of stator**
- **Improved performance**, faster cycle times and zero downtime
- **Compact**, intuitive, **ergonomic design**.

STATOR FEATURES:

- Different materials, depending on the use of the finished part. NBR, HNBR, EPDM, FKM etc.
- 170–350 mm, and more.
- 350–5,000 mm, and more.

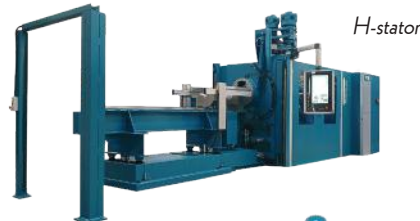
Versatility / Modularity



PUMP STATOR

H00S20

CLOSING UNIT		
Clamping force	kN	5,100
Heater Plates	mm	630 x 800
INJECTION UNIT		
Volume	cm ³	∞ (mold limitation)
Pressure	bar	2,500



H-stator

MOLDING FOR ENERGY APPLICATIONS

- Machine guarantees **high-quality products** that meet technical requirements.



Quality / Technical sophistication

ELECTRICITY

V310 - V510 - CMx1 - CMx2 - S24

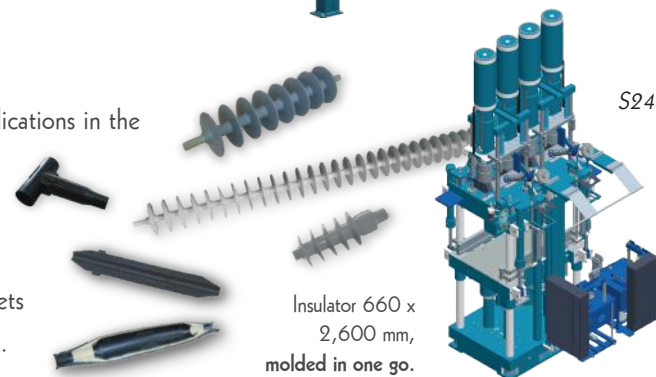
CLOSING UNIT		V310	V510
Clamping force	kN	110	3,050
Heating plate dimensions	mm	335 x 400	500 x 630

CLOSING UNIT		CMx1	CMx2
Clamping force	kN	1,540	2,544
Heating plate dimensions	mm	510 x 360	630 x 500

CLOSING UNIT		S24
Clamping force	kN	24,000
Heating plate dimensions	mm	1,500 x 3,000

- **Versatility** of special applications in the electricity sector:

- Insulators of all sizes
- Surge arresters
- Cable clamps and grommets
- Electrical connectors , etc.



Insulator 660 x 2,600 mm, molded in one go.

S24

TIRE VULCANIZATION MEMBRANE

Bladder by injection

- **Productivity optimized** at 40–70% over the cycle time
- **Optimized lifespan** of the bladder and its mechanical properties
- **Improved molding quality**, consistent thickness and less waste
- **Compatible with large production runs** thanks to improved process repeatability

BLADDER PROPERTIES:

- Bladder open or closed
- Private vehicles, LCV, HGV, OTR, etc.

- 10" to 35" and more
- 4 to 8 mm and more



Versatility / Compatibility / Flexibility

BLADDER

V710 - V810 - V910 - S12 - S20 - S20 - S22

CLOSING UNIT		min	max and more
Clamping force	kN	400	2,400
Heater Plates	mm	630 x 800	1,400 x 1,400
INJECTION UNIT			
Volume	cm ³	6.4	60
Pressure	bar	2,500	1,500



V810

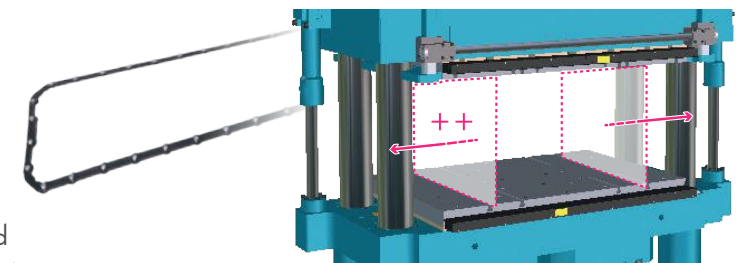
LARGE FLAT GASKET MOLDING

Special machines for flat large gaskets

- **Easy to use/access mold**: widthwise plates, demolding kits and sliding platen
- **Injection of long thin sections**: injection pressure up to 3,000 bar and circuit division with several injection units
- **Productivity** of double-plate kits

- **Optimal locking quality** due to thick crossbars and multiple locking points

Modularity / Quality / Technicality



The size of the platens can be adjusted to suit your purpose!

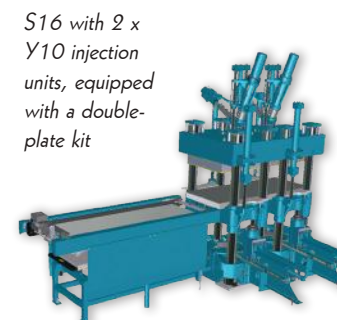
LARGE FLAT GASKETS

S03 - S05 - S06 - S12 - S16

CLOSING UNIT		S03	S05
Clamping force	kN	3,000	5,000
Heating plate dimensions	mm	1,250 x 630	1,500 x 1,000

CLOSING UNIT		S12
Clamping force	kN	12,000
Heating plate dimensions	mm	2,900 x 1,800

CLOSING UNIT		S16	S20
Clamping force	kN	16,000	20,000
Heating plate dimensions	mm	2,500 x 1,000	2,000 x 3,000



S16 with 2 x Y10 injection units, equipped with a double-plate kit



S05 - S06 with 1 or 2 injection units (750 cm³ at 2,000 bar)

CONTINUOUS VULCANIZATION

Always at the forefront of rubber processing, our partner Tung Yu will be showcasing its Rotocure solution: a continuous vulcanization line, ideal for producing strips of rubber. Thermal stability, consistent surface quality, and high output, make it an effective alternative to traditional presses for large production runs.

LINEAR PRODUCTION, CONTINUOUS PERFORMANCE

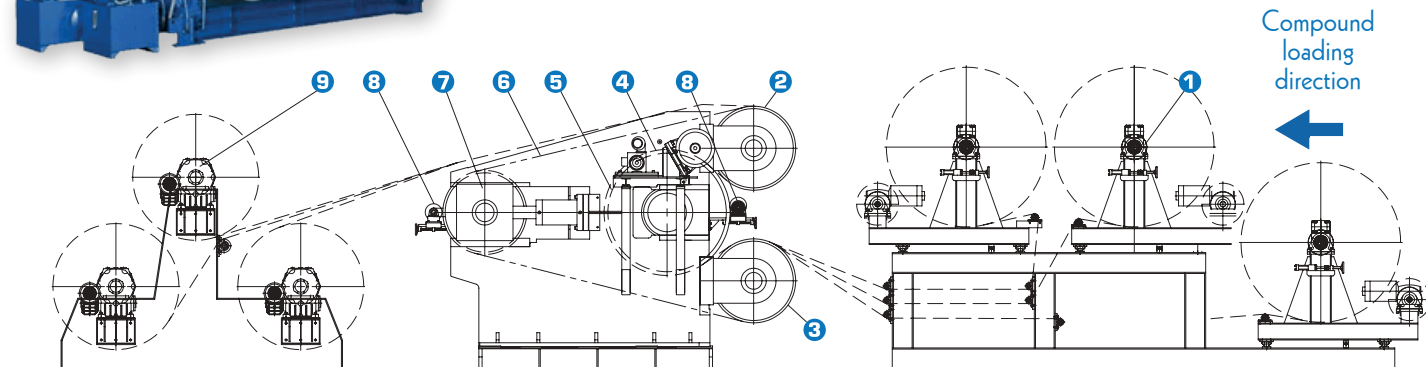
The principle of Rotocure is based on a system equipped with a **steam-heated steel drum**, around which a **rubber sheet** is pressed, heated and vulcanized.

The process guarantees **uniform thickness** and **adjustable, customizable production speed** for high output.

FEATURES

Heating temperature (steam)	°C	150 to 200
Production speed	m/hr	5 to 50
Sheet thickness	mm	0.5 to 25
Drum diameter	mm	700 to 500
Drum width	mm	1,200 to 2,500

- 1 Raw material feed-in unit
- 2 Driving drum
- 3 Reversing drum
- 4 Main heating drum
- 5 Auxiliary heating unit
- 6 Steel belt or stretched steel belt
- 7 Rear drum
- 8 Cleaning system
- 9 Product recovery unit



SYNERGY OF SUPPORT SERVICES

Because cutting-edge technology deserves to be backed up by top-quality support, REP offers a range of services designed to optimize your equipment's performance over time. Customized training, upgrades, and spare parts are our three key service areas that allow you to strengthen your skills, modernize your equipment, and maintain production.

A COMPREHENSIVE RANGE OF TRAINING SESSIONS

Led by our **After-Sales** and **Process Development Teams**, these training sessions cover a variety of topics aimed at operators, adjusters, maintenance technicians, mold designers, design office engineers and methods managers.

Sign your team up for the next session!



UPGRADE FOR IMMEDIATE BENEFITS

Modernize your G6 to G8 REP presses with our retrofitting service.

This comprehensive program helps to mitigate component obsolescence, enhance safety and improve the performance of your equipment.

A sustainable investment to ensure the reliability, maintenance and development of your industrial equipment.



A PREVENTIVE SOLUTION FOR WORRY-FREE MAINTENANCE

The availability of your equipment determines your productivity. REP offers spare parts packs grouped by criticality level to anticipate breakdowns, secure your stock, and plan your maintenance.

Reliable, ready to use, and tailored to your presses, these packs cover your specific needs while optimizing your costs.

Order your turnkey pack today.



TALK TO ONE OF OUR EXPERT TEAMS



FOR MAINTENANCE, AFTER-SALES AND TROUBLESHOOTING

Our **After-Sales Team** is here to assist.



FOR STUDIES, ANALYSIS AND OPTIMIZATION

Our **Process Development and Applications Service** will be happy to hear from you.



FOR ADVICE ON PROJECTS, PRODUCT RANGES & ORGANIZATION

Our **expansive sales team** is available to serve you globally.

BRAZIL

REP Injetoras de borracha

Rua Amorim Diniz, 60 - Room 01
Jardim Jaú - São Paulo - SP - 03630-040
☎ : +55 11 9 9965 8661

GERMANY

REP Deutschland

Sauergasse 5-7
69483 WALD-MICHELBAACH
☎ : +49 6207 9408 0

UNITED STATES

REP CORPORATION

310 Katom Drive,
KODAK, Tennessee, 37764
☎ : +1 847 69 77 210

RUSSIA

REP Материалы и Технологии

111397, г. Москва, Зеленый проспект,
д. 20, этаж 7, пом. 1, ком. 23.
☎ : +7 495 708 4486

CHINA

REP (Beijing) Rubber and Plastic Machinery

Room 822 No. 3 Building, Qingnian Road
No. 12 Yard, Chaoyang District,
100029, Beijing

INDIA

REP Machines Manufacturing Private Limited

Plot No. 112, 4th Road, Jigani Industrial
Area, II Phase, Anekal Taluk,
BANGALORE, Karnataka - 562106
☎ : +91 98453 90426

ITALY

• REP Italiana

Via Galileo Ferraris 16/18
10040 DRUENTO (TO)
☎ : +39 011 42 42 154

• RPM

Via Cascina Croce 2/c
25050 Paderno Franciacorta (BS)
☎ : +39 030 6857 425



All your
REP contacts
are available
on line

rep

REP international

15 rue du Dauphiné
69960 CORBAS
FRANCE

Tel. : +33472215353

✉ commercial@repinjection.com

www.repinjection.com

RUBBER IN MOTION

