

rep

NEWS

REP NEWS MAGAZINE Nr2



SACOMAT
SPECIAL

rep
Rubber injection

EDITO

REP and SACOMAT : a high-powered duo

The Rep-Sacomat alliance is already bearing fruit. The Rep sales network can now offer a range of products extended to include the Sacomat range, and a sophisticated choice of solutions to suit every situation.

Together Rep and Sacomat have also initiated new projects in very competitive international markets, such as the USA and Italy.

In the near future, new products will be appearing, arising from the combination of Rep and Sacomat solutions. The aim - a response even better targeted to your needs. And to give this "high-powered duo" as much breath as possible, in 1997 the Rep Group will invest in new CAM (GPAO) and CAD systems for Sacomat. These systems will improve the efficiency and responsiveness of Sacomat service.

Throughout the year, there will be an increasing number of inquiries. These inquiries will provide opportunities to find out more about the development and variety of our research and production system resources.

Bruno TABAR

“
USA and Italy,
first successes
in a very
competitive
environment.”



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REP NEWS is a REP publication.

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Rep Italiana: a "made to measure" technical service

Since 1971, Rep Italy has marketed Rep presses in Italy, Italian Switzerland and Greece. To provide its customers with the highest level of service, Rep Italy has made sure its technical assistance service is a unique, flexible and responsive structure.

600 presses for over 110 customers, this number of Rep Italy machines demands an active technical presence over a huge area.

The 10 Rep technicians, who are specialized in providing assistance with, assembling and testing machines, do not take on this demanding task unaided. They are meticulously joined by groups of outside technicians who are responsible for the operations of cabling, installation and the preparation for painting.



▲
The arrival of Marco MOSCATO has strengthened **the sales team.**

Your other contacts: ←

Dr. Stamati SCAMANGAS
Director, Rep Italy,
Gianni SCABIN,
in the technical department,
Luigi LIONE, stores manager.



But the technical potential of Rep Italy does not stop there. A company operating collectively for technicians with a wide range of specialist skills, Nosjean & C. recently made a collaboration agreement with Rep to strengthen its servicing capacity.

Finally, one last asset, but by no means least, a permanent technical team based in Lombardy providing an emergency service. Rep Italy machines thus benefit from the best possible assistance, for greater user satisfaction.

Rebuilding earlier generation Rep machines



SALES DEPARTMENT

Applications studies: Customers can send samples or drawings of parts with a special request. A technical study will be sent back to them.

Mixture evaluation: Customers can send samples of the compounds they use. These will be tested in a spiral mould to establish whether it is suitable for injection moulding.

Moulding tests: These can be carried out in Turin, or at the parent company in Corbas, France. Pre-production runs are possible if demonstration presses are available.

AFTER-SALES SERVICE

Trouble-shooting: A team of 6 multi-skilled technicians may service the machine on site or provide telephone assistance usually within 24 hours.

Spare parts: The subsidiary has a permanent stock. Spare parts can be sent out the same day.

Training courses: A wide range of courses designed to give guidance to customers on operating, maintaining and repairing their machines.

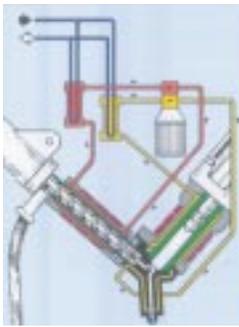
Retrofitting: If the customer's requirements change during the period he has the machine, any of the options that have recently become available can be retrofitted.

Reconditioning: This can be done in our workshops, or, if only minor work is needed, on site.

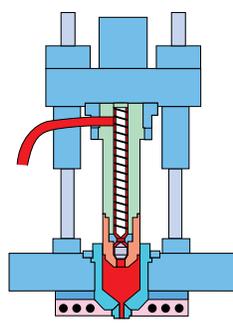
Stamati SCAMANGAS

World leader in rubber injection presses, Rep's success places considerable reliance on its "V" injection head. Temperature control and accurate proportioning, this original concept has produced advantages linked to the separation of the extrusion and proportioning functions.

That said, FIFO technology has not been overtaken. Its patent filed by Sacomat in 1967, has been emulated by manufacturers a great many times.



Rep's "V" injection head



SACOMAT's FIFO injection head

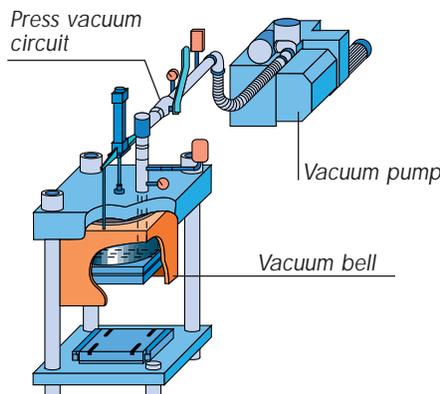
Principal strong point: a rapid change of mixture, very significant when the user is using mixtures of different colours and makes frequent changes.

The inventor of FIFO, Sacomat offers a range of injection machines very adaptable to production requirements and constraints.

- Several standard injection options: top or bottom and two types of machines designed for "vacuum" configuration.
- Capacities from 80 to 400 tons.
- Variety of options: sliding platen, hydraulic ejectors, rapid mounting of moulds, stripping kit.

Compression and rotary press - Sacomat's other talents

On an original and attractive technology, SACOMAT has developed a very wide range of compression and vacuum compression machines with vacuum chamber and vacuum bell. Particularly suited to moulding very complex engineering components, this technology eliminates air pockets and reduces the number



of rejects. The material flows more easily and vulcanization time is shorter because of good temperature holding in the mould protected from air. Due to the lack of oxygen, the clogging of moulds is limited and maintenance reduced.

Accepting any mould without modification, vacuum compression machines can be installed in banks of up to 5 machines and operated by a single operator.



SACOMAT



THE OTHER INNOVATOR



Rotary press : the new «very large series» generation



Lip seals, cylinder head gaskets, crankcase gaskets, rubber/metal and pharmaceutical products are all very complex engineering components but that are currently contributing to the strong growth of these machines.

Another Sacomat area of specialization is the research and manufacture of rotary press machines designed for long production runs. An illustration of the great potential of the technical integration of Rep and Sacomat, is that several rotary presses have already been delivered, some with a "V" injection head. This is an early example of it in practice, a foretaste of the rapid development of the entire range of Rep Group injection presses.

Daniel MATHEY - René COLOMBEL



◀ Can be installed in banks operated by a single operator.



SACOMAT world-wide!

The marketing and technical service of Sacomat machines are responsibility of the Rep network through its 4 subsidiaries and 25 agents world-wide. This infrastructure will facilitate the dissemination of Sacomat expertise and growth in the machine installed base which is already at 1,500.



▲ SACOMAT at Chambéry

Top injection ▶



Rep Applications

the solution finders

Training courses: Rep Applications regularly organizes courses at Corbas specifically designed for different areas and languages.



Rep the inventor? Very successful in providing mould technology and automation for injection presses.

Rep the innovator? This commitment to being an inventor-leader motivates the service ethic of the whole "Applications" team.

This department has twelve personnel which research and find solutions that Rep customers expect, every day of the week. To date, 10,000 studies have been conducted by the Applications research office, which has a first class test laboratory at its disposal. Internationally minded, the Applications department calls on a world-wide network of outside resources - manufacturers of materials and ingredients, chemists, research institutes, mould makers and tool manufacturers.

Rep Applications works closely with the Rep special machines departments to provide the best possible solution whatever the specifications or diversity of the applications.

A strong and varied link with manufacturers enable the team to prove its creativity whilst always ensuring the solution is compatible with the realities when developing new applications. You can meet them and their skills, which they pride themselves are based on solid experience!

Ezio NOT

Rep Applications Laboratory: here, Rep teaches its customers how to optimize the moulding parameters, tests compounds and moulds, and develops the technologies of the future.



Cold runner blocks: Rep mastered this technology many years ago. Nonetheless, it is still working to develop ever more efficient systems...

The test laboratory and its resources

- 4 presses representative of the range or equipped with instruments always available for jobs (evaluation of compounds, mould tests, development of moulding technologies, tool adjustments, demonstrations).
- More than 40 moulds
- Data acquisition system
- Flow meter linked to the press via Curetrac®
- rep-net®
- and many other items of equipment

Applications: the "high voltage" revolution

From silicone glass through EPDM, with the help of its customers Rep has written the history of a mini industrial revolution. Rep's "special insulator" presses prove that the revolution continues...



In the late 1970's, glass and ceramics reigned unchallenged on high voltage insulators. EPDM was taking its first faltering steps. A team of pioneers processed this material in Rep presses, although it was reputed to be difficult, indeed incompatible, with the injection process. The first steps were cautious. The blades were moulded separately and then glued one by one to a fibre glass rod.

The revolution was underway. After a series of bold advances and work, conducted in partnership by Rep and the manufacturers, the moulding of large insulators began. Today these can be several meters long, thanks largely to the "step by step" method.



▲	Clamp force	6400 kN	Platen dimensions	1450 x 550 mm
	Shot capacity	6400 cc	Space requirement	
	Injection pressure	1500 bars	L x D x H	7025 x 3850 x 5230 mm

In parallel, the development of the technology of cold runner blocks, essential for components of this size, permitted the boundaries to be pushed yet further.

In the same way as the production of special presses with several injection heads is ideally combined with the use of multi-outlet cold runner blocks, the range of "special insulator" presses enabled Rep to record another significant step forward.

▲
Rep's knowledge and expertise sets the standard for moulding high voltage insulators

come and meet Rep!



▲ Europlast' 94 in Paris

In 1997, Rep will take part in the following events:

EXHIBITIONS

Scanplast	Sweden	Göteborg	from 22 to 26/04
Plast 97	Italy	Milan	from 05 to 10/05
IRC'97	Germany	Nuremberg	from 30/06 to 03/07
Chinaplast	China	Shanghai	from 14 to 18/10
Rubber Expo'97	USA	Cleveland	from 21 to 23/10
Expobor'97	Brazil	Sao Paolo	from 04 to 07/11
Europlast' 97	France	Paris	from 24 to 28/11



PLAST 97



Chinaplas '97

IRC '97

RUBBER
EXPO
'97



rep

— GROUPE rep —

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