



Market Monitoring Newsletter

ARMO'S ROTATIONAL MOLDING NEWSLETTER

jeudi 1 juillet 2021

Machinery & Process

SAT Thermique on LinkedIn: discover what our R&D team is currently working on



R&D has a central and essential role in our company. Our R&D department is led by two engineers whose mission is to innovate and optimize our industrial equipments in order to offer the most efficient products to our clients.

Our team currently works on:

- Developing industrial ovens capable of heating over 750°C 🌡️
 - Extend our rotational molding production capacities ⬆️
 - Developing air tempering machines 🌬️
- (Translated from French)

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Research & Patents

ARTICLE AND METHOD OF MANUFACTURE OF TRUCK CAP



Disclosed herewith is a truck cap for removably covering a vehicle bed. The truck cap includes a first and second cover member extending between a cab and a tailgate of the vehicle. The cover members are pivotably connected to driver and passenger side panels which adjoin the vehicle bed. The cover members pivot between an open position and

a closed position. Raised portions are formed along the top surfaces and extend over abutting edges of the cover members opposite the pivot edges. The abutting edges are in abutment when the cover members are in the closed position, such that the raised portions interlock to cover the abutting edges. The cover members are preferably formed of a plastic material by a rotational molding process.

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ROTATIONAL MOLDED GOLF CLUB HEAD



Wood-type golf clubs and/or golf club heads include: (a) a golf club head base member including a face member having a ball striking face; and (b) a polymeric body member engaged with the golf club head base member, wherein the polymeric body member is formed via a rotational molding process (or other centrifugal force inducing molding process) and/or engaged with the golf club head base member via a rotational molding process (or other centrifugal force inducing molding process). The polymeric body member forms at least a portion of a crown member of the club head in some structures.

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Rotomolding Market News - North America

Pelican gets into inflatable kayaks with Advanced Elements acquisition

21/06/2021



Pelican International, manufacturer of rigid kayaks, whether thermoformed with Pelican or rotomolded with Confluence, has just acquired the American manufacturer of inflatable kayaks, Advanced Elements. This company, which will become a division of Pelican under the name Advanced, manufactures its products in Asia, but has about 15 employees in California, including its entire design team. Its ready-to-inflate boats, without any assembly, have been the subject of several patents. Pelican International had considered turning over the design of its own inflatable kayaks to its design team, but the deal saves at least two years. This acquisition also allows Pelican to expand in the European market, where inflatable boats are becoming increasingly popular due to small housing. This acquisition also responds to the new trend of online sales and home delivery, where rigid kayaks are not the most suitable. With the addition of 15 new employees, Pelican now has some 935 people, including 700 in Quebec and about 220 in South Carolina, at its Confluence division facilities, acquired in 2019. The 52-year-old company still has ambitions to triple in size over the next three to five years. (Translated from French)

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When The Heat Is On, Innovative Ideas Are Born

14/06/2021



Redline Plastics is a manufacturer of rotational molded and vacuum formed plastic products, as well as aftermarket motorcycle luggage and covers for powersports brands including Harley-Davidson and Polaris. Continued growth and expansion prompted Redline to build a new manufacturing plant in Manitowoc, Wisconsin. In 2020, the Redline Plastics project was selected for recognition as a Ceco Building Systems Project Award Winner based on the creative use of Ceco products to solve problems that threatened to cause significant delays and push the project over budget. Due to the efforts of Ceco Builder Hamann Construction Company and the McMahon Associates architecture firm, construction of Redline's new headquarters and manufacturing center was an award-winning success. Soon after planning began, the construction and design teams hit a significant roadblock. The manufacturing process Redline uses in plastic roto molding produces a significant amount of heat, requiring heavy rooftop heat exchangers. However, those heat exchangers would create a substantial roof load that would need to be supported by conventional steel construction. As Wisconsin is known for its cold winters, McMahon Associates Senior Architect Gary Schneider proposed an idea. Instead of directing all that roto molding heat through heat exchangers on the roof, he proposed to direct some of it to colder parts of the building, such as the loading docks. This solution negated the need for additional heating equipment in the loading docks and it made heavy rooftop heat exchangers unnecessary. Another challenge was including 10,000 square feet of office space inside the manufacturing facility. To make this possible, Ceco designed a custom mezzanine solution to place the office above a portion of the production space that didn't require much height. From there, the project moved forward with a rigid multi-span frame. The walls were constructed from Ceco's cost effective, 26-gauge PBR panels, finished in Ash Gray, and reverse-rolled for a unique look. The entire roof span benefits from the durability and longevity of Ceco's 24-gauge Double-Lok standing-seam metal roof panels in Galvalume Plus.

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Joel Delman on LinkedIn: This week's Favorite Design Patent Friday



Jim Mariol designed car parts for Chrysler for many years before designing his first and only car. In 1979 he licensed this idea, for a rotationally molded vehicle kids would power with their feet, to Little Tikes. Within four years sales reached \$43 million annually, and with 457,000 sold in 2008 it has for many years been the best-selling car in America.

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