



Market Monitoring Newsletter

ARMO'S ROTATIONAL MOLDING NEWSLETTER

jeudi 4 février 2021

Research & Patents

Tarik Azzam, Aerodynamics and clearance flow control in an axial fan obtained by rotational molding



The manufacture of turbomachines is currently conditioned by increasingly restrictive standards. The industrial challenge for researchers is to consider optimal solutions aimed at reducing the sources of energy loss, instability and noise, in particular the clearance flow (leakage flow). Preliminary actions have been developed at Arts & Métiers ParisTech on the rotational molding of the axial motor cooling fan. The idea of this study is to use the hollow shape induced by rotational molding in order to exploit it in the control of the radial clearance flow by rotary blowing. For this, the ferrule has injection holes oriented so as to simultaneously reduce the leakage flow rate and the torque. In this work, three parts have been treated. The first concerns the realization of the fan by rotational molding. (Translated from French)

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Albert Lucas, Modeling and study of the phenomena responsible for the formation of defects in rotomolded parts by the ultrasonic non-destructive testing technique.



The evolution of the rotational molding industry is bringing about a profound change in the type and performance requirements of rotational molded parts. If in the past rotational molding was used mainly for the manufacture of simple objects such as vats or bins; for some time and with technological development, the production of increasingly complex and efficient parts has become essential.

(Translated from French)

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Rotomolding Market News - Europe

Luxembourg's Grand Duke Heir and Franz Fayot visited B Medical Systems to launch the company's Hosingen site's expansion works



The expansion of the Hosingen production site shall take place in multiple stages for a total investment of 12 million euros. The first step will see the building of a new production hall, which should be operational from the second quarter of 2021. This expansion will then allow the installation of new rotomolding and assembly line, in addition to new testing and control stations in order to confirm that all the new equipment is performing well. (Translated from French)

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Simple 24m mounted sprayers for less than £30,000

01/02/2021



Mounted sprayers appeal to a broad church, with pint-sized smallholder models at one end of the spectrum and colossal 4,000-litre front-and-rear combinations at the other. There is also a sizeable middle ground, with a wide range of tank and boom options to suit almost any operation. However, with 24m tramlines fast becoming the standard for many mid-sized arable operations, most of the intermediate boom sizes have fallen out of favour. The tanks are rotationally moulded plastic, rather than the fibreglass that was used on models manufactured before 2018.

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Rotomolding Market News - North America

The latest edition of Rototrends is online



RotoTrends explores the different potentials of rotational moulding showing case-histories where the roto technology is able to open new markets, developing innovative products and working successfully in new niches. The projects developed in partnership with international design institutes, and the selected industrial products produced a faithful portrait of an industry constantly hungry for new ideas, eager to experiment with new shapes and new materials, sensitive to the international richness of globalization. Rotomoulding is strategically placed as one of the key technologies for rethinking the industry according to today's

needs for technology and performance.

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75 years of technology innovation: ATEK Companies continues growth | Brainerd Dispatch



From electronic door switches to motorcycle and all-terrain vehicle parts to coolers, ATEK Companies has a hand in technology manufacturing across the world. ATEK's most recently acquired company is Solar Plastics, which has two client bases. The first are major construction, farming and mining equipment companies, which make use of ATEK's rotational molding technology for fluid tanks.

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New solar-powered factory for low-cost water tanks, molded products arrives on Big Island

01/02/2021



The Natural Energy Laboratory of Hawaii Authority's Hawaii Ocean Science and Technology park is home to the island's newest manufacturing facility — an outdoor factory that molds large plastic products using 100% solar energy. Built and operated by LightManufacturing, Inc., (LMI) the factory uses patented technology to mold high-capacity water tanks using pollution-free solar thermal energy. The company reports the system can also mold aquaculture tanks, road barriers, kayaks and other products which are typically imported into Hawaii.

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