RotoDesign



le molteplici qualità dello stampaggio rotazionale

www.rotodesign.it

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Introduction

Turning ideas into finished products



Any industrial product manufactured using a rotational moulding process undergoes a complex sequence of operational steps enabling initial ideas to be turned into final products.

This process implies a close cooperation among manufacturing companies, designers, mould makers, moulders and suppliers of polymers and additives in a constant dialog to optimize the appearance, technical properties and performance of the final product.

All partners involved in the rotomoulding production chain play a fundamental role in the success of the final product as they contribute their know-how to the solution of technical problems and construction details and to the optimization of total manufacturing costs.





BIT&GML

Mould-making experience



The BIT&GML rotational moulding division aims at offering its customers a complete mouldmaking service.

Thanks to its highly qualified, technologyresponsive engineering office, to a close cooperation with leading companies in the rotomoulding industry and to a highly specialised finishing department, BIT&GML is able to provide an excellent value-for-money service from designing through mould making up to the manufacturing of prototypes.

BIT&GML has gained a wider experience in the manufacturing of moulds for kayaks made by die casting or solid block machining.

Link: www.bitgml.it







Fluid Airsystems

Handling efficiency



Fine chemical companies and paint factories were initially the main customers of Fluid Airsystems which now include ceramic and plastic manufacturers as well as food and pharmaceutical companies. Today Fluid Airsystems offers powder-handling technology to ceramic manufacturers, food and pet food

In order to develop increasingly safe solutions for our customers, at Fluid Airsystems we set up an inhouse laboratory in 2004 where the chemical and physical properties of any material are analysed. Our customers are given the chance to monitor the materials "travelling" along the manufacturing path and verify the conditions under which they can be conveyed. Rotational moulding is a process where moulds are directly filled with powder by means of pneumatic conveying systems and polyethylene powder dosing machines.

Link: www.fluidairsystems.it



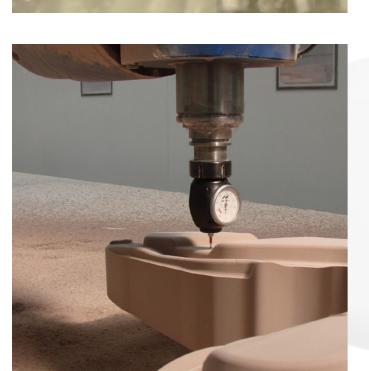
Ubitech

Every mould you need



Our mission is being able to rapidly and accurately re-produce new ideas and realities coming from improvement and to promote continuous improvement and innovation of our production processes. If you want to turn any idea into a real product, Ubitech is your reliable partner.

Link: www.ubitech.es







Sivipol

Powders for all tastes



Thanks to a thirty-year experience in plastic materials, Sivipol is a young, dynamic, flexible company that started producing powders for the rotational moulding, masterbatch production and textile industry a few years ago.

All powders produced by Sivipol are analysed by an ad-hoc laboratory able to constantly monitor important parameters such as particle size, creep, MFI and density while offering and guaranteeing products fully responding to customer requirements.

Over the past few years rotational moulding has become more and more important thanks to the high number of sectors where it can find application and to its potential for development. And this is exactly the reason why Sivipol product range includes SIVILENE, a powdered polyethylene (LLDPE, metallocene LLDPE, HDPE) that can be adapted to customer requirements.

Link: www.sivipol.it





Property

Property





Hollow items can be manufactured using rotational moulding but this does not mean that a 'hollow item' is an object whose only visible part is what can be seen from the outside.

It is therefore possible to mould "hollow items" with two walls very close to each other. Both the internal and the external parts are then visible and require custom finishing.

It is possible to produce moulds enabling doublewall moulding by designing the mould with its cover acting as a "male mould" that defines the internal part. And in order to give the powder enough space to flow inside the mould, it is necessary to design the two walls so as the internal clearance is at least 5 times the wall thickness.

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Planarity

It may be difficult to guarantee absolute planarity when relatively large panels are rotomoulded. One of the most common planarity defects is the so-called warpage, which is a huge concave or convex deformation of the part walls. Since warpage is normally increased by sharp edges or very small corner radii, this deformation problem can be solved by increasing corner radii.

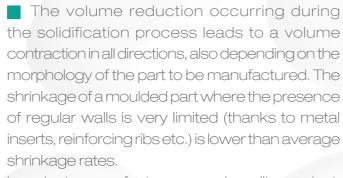
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Property

Shrinkage



In order to manufacture a good-quality product, particular attention is paid to the initial designing phase: attention to details in the designing phase allows to eliminate some of the most common problems: for instance deformation and distortion can be reduced by inserting stiffening ribs into wide planar surfaces and by avoiding sharp edges.

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Property

Reinforcing ribs



When manufacturing rotomoulded products, it is possible to include ribs of various types to reinforce the points subjected to particular stress. The recommended depth is about four times the material thickness, while the width should be about five times the material thickness. These parameters are generally applicable and can vary according to the geometry of the product and to its condition of use.

Link: www.rotodesign.it





info@artvplast.com

astro@astrosrl.it

info@cordivari.it

info@dramsrl.com

info@eurotank.it

ARTYPLAST ROTACIONAL s.l. P.I. Sant Pere Molanta - Sant Miquel d'Olérdola, 15

08799 OI FRDOLA (Barcelona)

24050 - Mornico al Serio (BG)

28060 San Pietro Mosezzo (NO)

www.bocaitaly.it roberto.marinoni@bocaitaly.it

Tel: +34 938920219

Tel: +39 035 844060

Tel: +39 0321 468976

CORDIVARI srl

Zona Industriale Pagliare

Tel:+39 085 804 01

www.cordivari.it

DRAM srl

Via E. Brigatti, 12

20152 - Milano (MI)

www.dramsrl.com

Tel: +39 02 4597757

Via Dell'Artigianato, 4

www.eurotank.it

26867 - Somaglia (LO)

Tel: +39 0377 570192-3

Fr. Daniela Barbieri (Inhaberin)

Tel: +0039 331 8719239

www.fluidairsvstems.de

EUROTANK NORD srl

FLUID AIRSYSTEMS Group

36010 - Monticello Conte Otto Vicenza (VI)

MOULDING SERVICE sas & C.

D - 65189 WIESBADEN - Deutschland

64020 - Morro D'Oro (TE)

www.artvplast.com

ASTRO srl

Via Fornace, 4

www.astrosrl.it

BOCA srl

Via Marelli, 15



(*) A. Schulman

Specialty Powders

ACERBIS ITALIA spa

24027 - Nembro (BG) Tel: +39 035 772611 www.acerbis.it

oem@acerbis.it



21050 - Gorla Maggiore (VA) Tel: +39 030 9363010 www.aschulman.com

info@icopolymers.it



BARATE' SANTINO srl

Viale Industria, 48 27025 Gambolò (PV) Tel: +39 0381 348955 www.barate.it

commerciale@barate.it



CACCIA ENGINEERING srl

/ia U. Giordano. 1/13 (Cascina Elisa)

21017 - Samarate (VA) www.cacciaeng.it

info@cacciaeng.it



DOMO - Engineering Plastics Italy spa Via Linfano 18

38062 Arco (TN Tel: +39 0464 587676 www.domochemicals.com

i nfo.depi@domo.ora



ENI - VERSALIS spa

Piazza Boldrini, 1 20097 - San Donato Milanese (MI) Tel: +39 02 52032388

www.versalis.eni.com info@versalis.eni.com



EVA STAMPAGGI srl

Via Cal Longa Z.I. 31028 - Vazzola (TV) Tel: +39 0438 740433

www.evastampaggi.com info@evastampaggi.com



GERBALDO POLIMERI sri

Strada del Collaretto, 16 12030 - Caramagna Piemonte (CN) Tel: +39 0172 89637

info@aerbaldopolimeri.it



LANULFI

MODELS AND MOULDS

MAAG gmbh

ARTYPLAST

BOCA

ROTATIONAL MOULDING

(CORDIVARI

EUROTANK

Fluid Airsystems

Dramsrl

63762 Grossostheim (Germany) Tel: +39 02 48 80 716 www.maag.com/en

LANULFI srl

Tel: +39 0444 946083

Via dell'Industria, 1

www.lanulfi.com

info@maaq.com

mlanı ılfi@lanı ılfi com

info@fluidairsvstems.de



IPIESSE spa Via Ponte di Pietra, 34

Via del Lavoro, 10

www.nicoli.com

36070 - Brogliano (VI)

Tel: +39 0445 947344

www.aerbaldopolimeri.it

27100 - Pavia (PV) Tel: +39 0382 525710

www.ipiessepv.it marcopaludetti@ipiessepv.it



INICOLI

MATRIX POLYMERS

The Priory Orchard Hill, Little Billing Northampton - NN3 9AG - UK Tel: +44 01604789100



info@nicoli.com

Moulding

41056 - Savignano S.P. (MO)

Tel: +39 059 776601 www.mouldingservice.it info@mouldinaservice.it



NUOVA SIMPLAST snc Loc. San Martino Nisocco. 11

12046 - Montà (CN) Tel: +39 0173 974100

www.simplast.com simplastgroup@simplast.com



PAGANI srl Via Monte Misma, 17/19/21 24050 - Calcinate (BG)

Tel: +39 035 293580 info@paganistampi.com www.paganistampi.com

William Company

PERSICO Rotomoulding spa

24027 - Nembro (BG Tel: +39 035 4531 811

www.persico.com rotomoulding@persico.com



Members

POLIPLAST spa

24020 - Casnigo (BG) Tel: +39 035 724145

www.poliplastspa.com info@poliplastspa.com

Raineri Renato Rotational Consultina

Roto Moulds

ROTOTEC_{sp.a.}

RAINERI RENATO

Via Vecchia, 11

25049 - Iseo (BS) Tel: +39 035 772611

renato.raineri@alice.it



Rotational Consulting

/ia Torricelli, 14 ROT-O-LINE SRL 46028 Sermide (MN) Tel: +39 035 772611 www.rotoline.it

info@rotoline.it

info@rototec.it



√ia Antignano, 61 24055 - Cologno al Serio (BG) www.rotomoulds.com info@rotomoulds.com

ROTOTEC spa



SDT srl

Via Archimede, 550/570 47521 - Cesena (FC) Tel: +39 0547 301456 www.sdt-rotomoulding.com

sdt@sdt-rotomoulding.com



BEOLOGIC NV

B-8554 Sint-Denijs (Belgium) Tel: +32 56 73 53 25 www.beologic.com

alex@beologic.com



SUNBASKET srl

43058 - Sorbolo (PR) Tel: +39 0521 604360 www.sunbasket.it

sun@sunhasket.it



75020 - Matera Tel: +39 0835 307358 www.tekcnoplast.it info@tekcnoplast.it



vecalab.com

TERAPLAST spa

Via del Progresso, 65 Tel: +39 0445 444100 www.teraplast.com

info@teraplast.com



ELBI spa

www.elbi.it

Via dell'Artigianato, 8 36020 - Albettone (VI) Tel: +39 0444 790328 www.vecaspa.com

Via Buccia, 9 35010 - Limena (PD)

Tel: +39 049 8840677

veca@vecaspa.com

info@elbi.it



XM TECH srl

Via del Progresso, 65 36070 - Castelgomberto (VI) Tel: +39 0445 445315

www.xmtech.it



Via dell'Impresa, 19

62014 - Corridonia, Mc Tel: +39 0733 280188 www.bitgml.com

info@bitgml.it

info@xmtech.it



POWDEREX

Tel: +39 030 3663800 info@powderex.eu www.powderex.eu

ROLLING PLAST srl



POWDEREX srl

25020 - Flero (RS)

info@rollinaplast.it



Rolling

POLIVINIL-Rotomachinery spa

28065 - Cerano (NO) Tel: +39 0321 772021 www.polivinil.com

Via Magenta, 45

polivinil@polivinil.com

rotostar@rotostar.it



rototech

Tel: +39 0331 661626 www.rotostar.it **ROTOTECH srl**

ROTOSTAR srl

21015 - Lonate Pozzolo (VA)

Strada Druento, 34 10040 San Gillio (Torino) Tel: +39 011 9847901

info@rototech.it



SIVIPOL srl

Via Dell'Artigianato, 68 36030 - Villaverla (VI) Tel: +39 0445 856215 www.sivipol.it

info@sivipol.it



Tecno model

ENGINEERING SRI

STARPLAST srl

61028 - Mercatale di Sassocorvaro (PU) Tel: +39 0722 725108 www.starplastsrl.it g.stefano@starplastsrl.it

TECNOMODEL srl

24040 - Barbata (BG) Tel: +39 0363 914640 www.tecnomodel.com

tecnomodel@tecnomodel.com



TELCOM spa Via dell'Industria, 21

72017 - Ostuni (BR) Tal: ±30 0831 348111 www.telcomitalia.it

gciola@telcomitalia.it



Zone Industrielle Feluy C B-7181 - Seneffe - Belgium

Tel: +32 064514129 www.total.com research-feluv@total.com

TOTAL - Research & Technology Feluy



BIT & GML srl





Members



MERCK spa

Via XI Febbraio 99 20090 Vimodrone (Mi) Tel: +39 848 845 645 www.merck.it CSR-IT@merckgroup.com



PRODESCOM ROTOMOLDEO SI

Avenida Alemania 38-40, 03420 - Castalla (Alicante) Tel: +34 966 543 282 www.prodescomrotomoldeo.com info@prodescom-rotomoldeo.es



SLIDE srl

Via Lazio, 14 20090 Buccinasco (Mi) Tel: +39 02 48 80 716 www.slidedesign.it

info@slidedesign.it



REPI S.p.A.

Via Franklin 2, 21050 - Lonate Ceppino (VA) - Italy Tel: +39 0331 819511 www.repi.com I.buffoni@repi.com



GT LINE srl

Via del Lavoro, 50/52 - Loc. Crespellano 40053 Valsamoggia (BO) Tel. +39 051 65041 www.gtline.com vendite@gtline.com