



Press release

11 April 2013

Series of lectures and live demonstrations for Italian processing companies

Macam is issuing invitations to attend a technology day at Rivoli (TO), Italy

Macam S.r.l., the Italian agency of the injection moulding machine manufacturer Sumitomo (SHI) Demag Plastics Machinery GmbH, is inviting existing and potential customers from Italy to attend a technology day from 17 - 19 April 2013 at its facilities in Rivoli (TO).

From 17 – 19 April 2013, employees of Sumitomo (SHI) Demag, Ghilardi Stampi, Yushin Precision Equipments and Macam will be providing the participants with practical tips in all aspects of plastic processing. The lecture programme will be rounded off with a paper presented by Turin Technical University (Polimeri al Politecnico). The lectures will be repeated on all three days, taking place during the morning of each day. Following a shared business lunch, it will be possible to see machines, automation systems and other accessories in action during the afternoons. In addition, an evening event is planned on 18 April.

Compact clean room production system for medical micro-parts



At the technology day, the smallest model in the IntElect range, an IntElect 50-45 with 500 kN clamping force, will be manufacturing rotary knobs with a diameter of 3.5 mm made from polyoxymethylene (POM) for hearing aids, in a cycle time of 10 seconds. The mouldings weighing only 10 milligrams, and the shot weight of only 280 milligrams, impose demanding quality requirements and require absolute reproducibility. The IntElect with its precise and sensitive drives as well as the removal system integrated into the machine meets the special requirements for zero-error production.

The 4-cavity hot channel mould with submarine gate was designed and built by Stamm AG, Hallau/Switzerland. The cabin suitable for clean room operation and the laminar flow unit above the production system are supplied by Max Petek Reinraumtechnik, Radolfzell. The Filter Fan Unit (FFU) of the laminar flow unit cleans the drawn-in outside air, ensuring a constant laminar airflow over the mould installation space of the machine. It ensures a clean room category of ISO 7 in a corresponding production environment, preventing the ingress of particles.

As a specialist for automation solutions, MAi GmbH & Co. KG, Küps, integrated the six-axis robot from Yaskawa Europe GmbH into the injection moulding machine, the housing of which was only extended by 700 mm on the non-operating side. The robot is mounted suspended from the fixed mould clamping plate. This concept offers the benefits of keeping the clean room compact, reducing the masses to be moved and shortening the stroke distances of the robot. Also,



it cuts the risk of sensitive mouldings becoming contaminated on their way from the moulded part removal through the inspection station and onward to packaging. The rotary knob is moved for a fully automatic 100% visual inspection while still within the clean room cabin.

EI-Exis SP 200-920 produced thin-walled coffee capsules

A hybrid high-speed EI-Exis SP 200-920 machine (2,000 kN) is used at MACAM S.r.l. for producing coffee capsules with a wall thickness of only 0.6 mm made from polypropylene (PP). The 32-cavity hot channel mould from Giurgola Stampi S.r.l., Capriano di Briosco (MB)/Italy, creates the thin-walled packaging parts in a cycle time of 4.5 s.

Systec 210-1450 displays its variety in headlight production for the automotive sector

Sumitomo (SHI) Demag now offers the fully controlled, hydraulic all-purpose Systec machine with clamping forces from 350 to 20,000 kN: up to 1,200 kN with a fully hydraulic closing unit, from 1,600 kN onwards with a knuckle-joint closing unit.

In Rivoli (TO), a Systec 210-1450 (2,100 kN) uses a 4-cavity mould to produce a headlight for

Renault made from PMMA. A YC-250S robot from Yushin Precision Equipments removes the finished parts and places them on the conveyor belt.

The event starts at 9:30 AM every day and ends at about 4:30 PM. For more information, please contact tel. +39.011.959.50.57 or e-mail

macamsrl@macamsrl.it.



MACAM S.r.l.

The injection moulding machine manufacturer Sumitomo (SHI) Demag, Schwaig/Germany, has been represented in Italy by MACAM S.r.l. since mid-2009. The Macam Company has its head office in Rivoli (TO) and has built up an excellent reputation in the technical services field over a number of years.

MACAM has been working in the field of plastic injection moulding since 1989 and has adopted all the technological innovations there have been over the decades. Its customers in the Italian market are provided support with customised problem solutions and the greatest possible flexibility.

The technologically cutting-edge machinery enables its processors to deliver the greatest successes on a daily basis and guarantee the best possible production performance. MACAM has a presence not just at its head office in Rivoli (TO), near Turin, but also has sales offices and service centres in all the economically significant regions of Italy. Customers thus have access to support with spare parts and customer services everywhere and at all times. The philosophy of the company is characterised by striving for quality and comprehensive customer care in all technical matters.

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<IntElect_50-45>



The fully electric IntElect 50-45 injection moulding machine from Sumitomo (SHI) Demag with 500 kN clamping force – here with equipment for clean-room production of precision medical parts

Photo: Sumitomo (SHI) Demag

<IntElect50_Control_knob>



Rotary knob made from POM for hearing aids, manufactured on a fully electric IntElect 50-45 in the clean room using a 4-cavity mould from Stamm AG

Photo: Stamm AG

MACAM

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<EI-Exis_SP_300>



The hybrid high-performance EI-Exis SP injection moulding machine – a model with 3,000 kN clamping force is shown here

Photo: Sumitomo (SHI) Demag

<EI-Exis_SP200_coffee_capsule>



The EI-Exis SP produces the illustrated coffee capsules with a wall thickness of 0.6 mm using a 32-cavity mould from Giurgola Stampi

Photo: Giurgola Stampi

<Systec_160_840>



The Systec machines available with knuckle-joint closing unit from 1,600 kN upwards represents an economical production solution for the broad range of standard applications. A 2,100 kN version will be producing headlights made from PMMA at the technology day

Photo: Sumitomo (SHI) Demag

<Systec210_headlight_automotive>



This headlight made from PMMA is used at Renault

Photo: Macam S.r.l.