Press Release
08 March 2012

Practical tips and important information for converting and setting up Systec machines

Genius 2.0 Systec: Injection moulding slide rule now also for the PC

For decades the 'injection moulding slide rule' has been a much loved aid when setting up injection moulding machines. Designed in the 1970s, developed constantly and always brought up-to- date, it is still used today in many injection moulding companies when machines are converted to a new tool.

In the past few years a lot has happened – machines, tools, processes and materials have been further developed. Therefore, there is now a new version of the slide rule – the Genius 2.0 Systec. Sumitomo (SHI) Demag Methods Application Technology employees in Schwaig and Wiehe have collated the data for the popular practical tool. The first version Genius 2.0 Systec lists several of Systec machines' injection units together with their characteristics and makes evaluating the right equipment for the production task in hand much easier.

The new handy slide rule assists with the initial setup of Systec injection moulding machines. It takes into account the characteristics and requirements of the plastic being injected as well as the moulded part geometry and gives recommendations for all the important process parameters that have to be set i.e. for the drying conditions, for processing temperatures and quantity

settings, for the injection and dwell pressure setup, for the residual cooling times and for the required clamping force. Depending on the characteristics of the moulded part Genius calculates the expected cycle times for injection, dwell pressure, residual cooling, tool and peripheral times and even calculates possible rotational speeds, dosing times, stroke loads and dwell periods.

Despite a comprehensive database and many recommendations the Genius does not replace process optimisation on which the machine control depends. Those with a prior knowledge of the tool to be put into operation are also, for the most part, in possession of the optimal process data. For those faced for the first time with having to install a hitherto unknown tool or a new material and are having to set up the machine, valuable setup data are immediately at hand with the help of Genius.

The rigid film construction of Genius is in recognisable DIN long format and fits in every pocket. The Version 2.0 Systec for standard machines Systec is already available in German, English, Russian and Polish. Also an offline version in German, English and Russian for the PC is available.

You are still without the Genius 2.0 Systec? We will be pleased to send you a slide rule or a USB stick with the offline version. Please contact your local marketing agent or send an e-mail to info-dpde@dpg.com.

Sumitomo (SHI) Demag Plastics Machinery GmbH

Sumitomo (SHI) Demag has lastingly shaped the plastics industry from the very beginning. Being a specialist for injection moulding machines for polymer processing,

Sumitomo (SHI) Demag and its Japanese parent company are among the leading companies in this sector globally. The Japanese-German company was formed in the spring of 2008 by merging the injection moulding activities of Sumitomo Heavy Industries (SHI) and those of Demag Plastics Group.

The global development and production network of Sumitomo Heavy Industries and Sumitomo (SHI) Demag consists of four plants in Japan, Germany and China with more than 3,000 employees. The product portfolio encompasses all-electric, hydraulic and hybrid injection moulding machines with clamping forces of between 180 and 20,000 kN. With over 100,000 machines installed, Sumitomo (SHI) Demag is present in all important markets throughout the world.

With more than 5,000 machines sold each year, the Plastics Machinery Business of Sumitomo Heavy Industries counts as one of the largest Global manufacturer of injection moulding machines.

The main Sumitomo plant in Chiba produces machines with low and medium clamping forces. Around 95 % of all machines supplied by Japan have an all-electric drive.

The main Demag facility in Schwaig/Germany focuses on the hydraulic Systec and the hybrid high performance, high-speed El-Exis machines. Recognising the increasing importance of electric drive technology for injection moulding machines, Sumitomo (SHI) Demag has expanded the former Demag factory in Wiehe/Germany into an international centre of competence for electric machines. Thanks to the new produc-

tion capacities, Wiehe now supplies all electric injection moulding machines worldwide with its IntElect series with clamping forces up to 4,500 kN and also the hydraulic Systec series with clamping forces of up to 1,200 kN.

Sumitomo (SHI) Demag continues to operate the former Demag plant in Ningbo/China which has been active since 1998. Since 2007 the subsidiary located there, Demag Plastics Machinery (Ningbo) Co., Ltd, had its own, newly built plant and after reaching full capacity, moved to a larger factory with a production area of 11,000 sqm. Injection moulding machines from the Systec C product line with clamping forces of between 500 and 10,000 kN are produced here for Asian markets.

In addition to injection moulding machines, Sumitomo (SHI) Demag offers customised and standardised systems for the automated handling of moulded parts, technical solutions for special applications in process engineering, tailor-made service concepts and various forms of financing for investments in injection moulding machines.

With its seamless sales and service network of subsidiaries and representations, Sumitomo (SHI) Demag is present in all major industrial markets.

www.sumitomo-shi-demag.eu

****

Contact

Stefanie Lauterbach, Marketing
Sumitomo (SHI) Demag Plastics Machinery GmbH
Tel. +49 911 5061-2915
Fax +49 911 5061-750
E-mail: Stefanie.Lauterbach@dpg.com

<Genius_2.0_Systec>

The Injection Moulding Slide Rule Genius 2.0 Systec gives recommendations for all important process parameters that are to be setup and fits in every pocket.

Photo: Sumitomo (SHI) Demag