

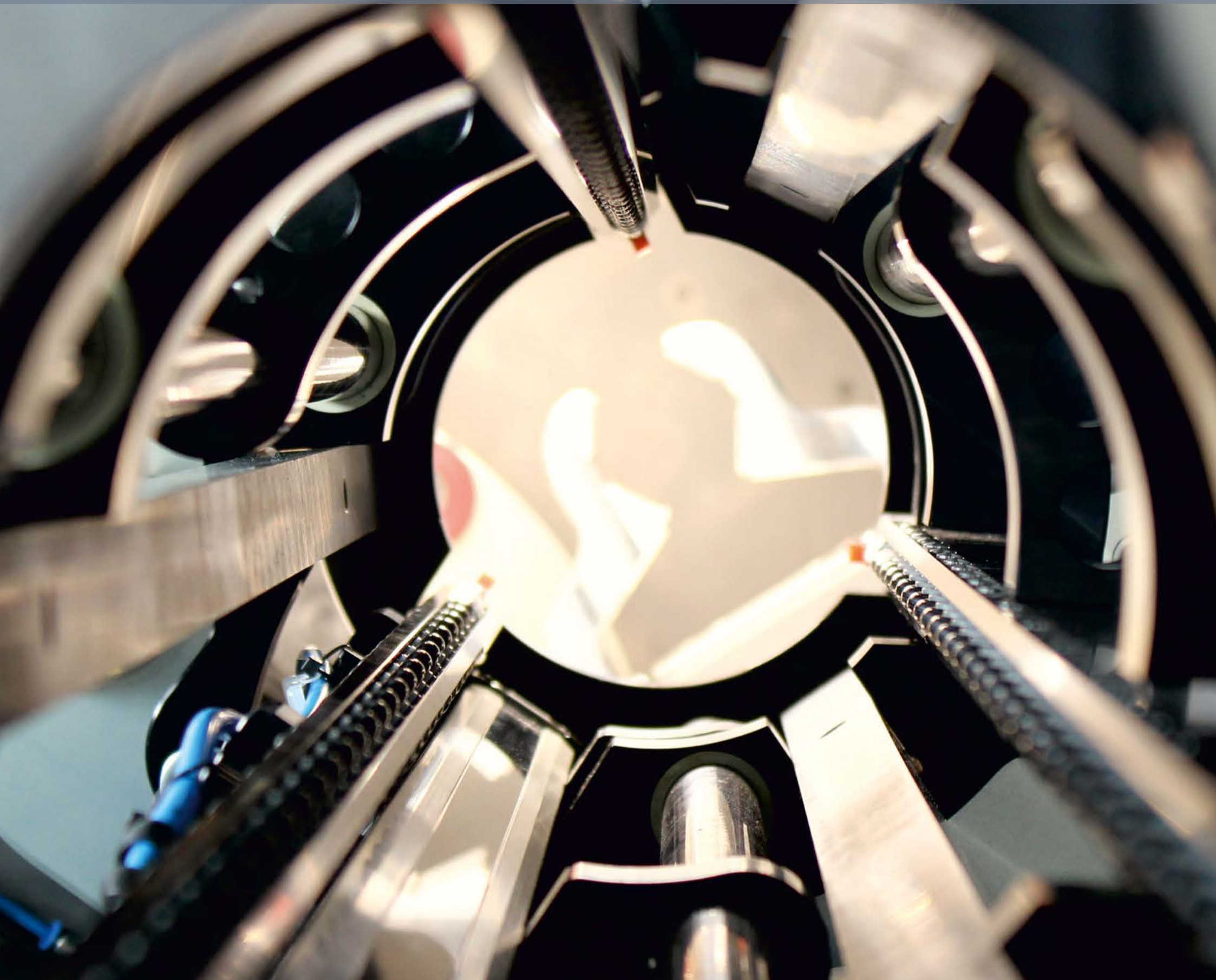
SEALS

TECHNOLOGY



MDA Hannover 15

客户杂志 Magazine for customers and partners



Expect more...

www.seal-maker.com

New Technologies

SML Systemsoftware 4.0

New Sealing Materials



SPECIAL EDITION
MDA HANNOVER
Hall 20
Booth E39



Editorial



亲爱的读者：

转眼又到了汉诺威展会开幕的时候，**Seal Maker** 将再次作为参展商。我很高兴这次能够向大家介绍最新的密封件技术。这不仅仅是展会本身，最主要是 **Seal Maker** 的最新发展，我们将会在这次展会上展出新的技术，这也是我们经过数月紧锣密鼓准备的成果。

我认为，我们又再次实现生产车床切割密封件的技术上树立新的标准。

与前几年相似，**Seal Maker** 的最新发展目标是对我们的机器系统进行重大改进，从而提高效率，为我们的客户带来优势。新的“筒料自装系统”具有决定性的优势，尤其是在大量标准筒料的加工。采用红外技术的集成测量传感器在测量工件及在“为时已晚”前即时修正刀具方面提供了进一步的优势。我们也积极开发于机器设备的领域。例如，新的系统软件SML4.0已在我们自己的生产线上已成功及密集测试，让它具备一些有趣且又有用的功能。

此外，原材料行业也有一些消息。明显的趋势是客户需要性能更好的材料，使聚氨酯**U500**成为我们大多数客户的标准选料。为了适当注意到这一趋势，我们前些时候决定开发U500左右的产品系列，完全覆盖聚氨酯在密封件行业的广泛应用。通过引进这些新的原料，我们强调对产品的最高质量和最佳性能的承诺，并对当前的市场需求和具有开放性和灵活性的发展趋势做出反应。

请在以下网页阅读有关最新产品的更多信息，或者亲临展会现场了解实况。您可在20号展厅E39号展位找到我们。

此致，
Johann Glocknitzer

Dear readers,

just in time for the opening of the Hanover trade show, where Seal Maker will again take part as an exhibitor, I am very pleased to present the newest Seals Technology edition to you.

We have got prepared very well not only for the event itself, but also in terms of our latest developments which we will present at the exhibition and in this edition. They are the result of many months of intensive preparation and work.

I think that we have once again been able to set new standards in the lathe-cut seal production technology.

As in previous years, the newest Seal Maker developments aim for a major improvement of our machine systems, so that the increased efficiency offers best support to our customers. Especially for machining of higher quantities of standard billets, our new “billet loading system” offers an important advantage. An integrated measuring sensor equipped with infrared technology offers even further improvements for measuring of workpieces and for adequate tool correction to be effected in time.

There are also some new developments in the peripheral machinery area. The new SML System Software 4.0, for example, which has successfully and intensively been tested in our own production, offers some interesting and helpful features.

There are also news regarding the raw materials sector. Due to a clear trend towards even better performing materials our Polyurethane U500 which we have been offering for several years has become a standard raw material for most of our customers. In order to comply with this trend, we decided some time ago to develop a product family around U500, which perfectly covers the broad spectrum of Polyurethane applications in the sealing industry. By means of the introduction of these new raw materials, we are emphasizing our commitment towards the highest possible quality and best performance of our products. We will also meet current market needs and trends open minded and with utmost flexibility.

Please read more about the newest products on the following pages and/or gain a “live” impression at our trade stand. You can find us in hall 20 booth E39.

Yours,
Johann Glocknitzer

About the SML-System...

半成品

目前，我们有超过40种不同的原材料可供使用。工厂出产的每一个筒料都受到严格的质量控制。内部的实验室采用最先进的技术来进行从事研发工作。

Semi-finished products

Currently we have more than 40 different raw materials available. Every single billet leaving our factory is subject to a strict quality control. Our internal laboratory enables research and development work by using the most modern technology.

SML机

Seal Maker 所制造的数控车床都受到严格的质量检查，保证筒料能够快速与高效加工。

SML machines

The CNC lathe machines made by Seal Maker are subject to strict quality checks and guarantee a quick and efficient machining of the billets.

灵活性密封件生产

密封件成品的质量一直是以正确的原材料与密封型号成功组合。Seal Maker 的设备系统都能完美附合两者所需。

Flexible seal production

The quality of the finished seals is always the result of a successful combination of proper raw materials and seal design. The Seal Maker systems have perfectly been coordinated.



软件 – 不仅是标准软件！

新的SML系统软件4.0版中有200个配置文件，同时有标准和特别版本。软件生成完整的数字程序，包括刀具选择可在数秒内全自动完成。

Software – more than just standard!

In the new SML system software version 4.0, over 200 profiles are available, both in standard and special version. The complete numeric program including tool selection is automatically generated by the software within a few seconds.

全球服务

凭借我们经验丰富的技术人员的知识和技能，并通过参与我们维修技师提供的专门培训，以拓宽您的数控应用的知识。我们的客户服务、研究工作、开发和应用技术人员都将为各种类型的应用程序问题提供支持。

Worldwide Service

Rely on the expertise of our well experienced technicians, and gain further knowledge of CNC applications by participating in special training provided by our service technicians. The contact persons, working in research, development and application technology, will provide support for any kind of application problems.

新技术

Seal Maker 为新产品的开发设定高目标，并始终尝试为车床切割密封件树立新的技术标准。请从以下网页了解更多有关我们的最新发展！

New Technologies

Seal Maker sets high goals for the development of new products and always tries to set new technology standards for lathe-cut seals. Find out more about our latest developments on the following pages!

THE SML Family

Seal Maker 完整的数控系统允许生产外径至1850毫米的密封生产。标准设备包括基本机器、SML软件、刀具和刀具座，屑片切割设备和高功率的抽吸系统装置。每台机器也可备有动力刀具。

Seal Maker's complete CNC systems allow turning outside diameters of up to 1,850mm. The standard package includes the basic machine, SML software, cutting tools and tool holders, as well as a chip cutter and a chip suction unit. Each machine is also available with driven tools.



SML1000e - 电源包

- 强大且完整的数控系统可制造外径介于450毫米（18英寸）至1100毫米（43英寸）的密封件（通过限制操作完成360毫米（14.5英寸）的密封件生产）
- 轻易使用SML系统软件与统一规划的电脑软件
- 完整的工具推车
- 屑片切割设备和高功率的抽吸系统装置
- 广范围的配件
- 包括维护、安装和操作的详细资料
- 可选配动力刀具
- 舒适和精确的夹持系统

SML1000e - The Power Pack

- A powerful complete CNC system for manufacturing seals from 450mm (18 inches) to 1100mm (43 inches) outside diameter (limited operation from 360mm (14.5 inches) is possible)
- User-friendly SML system software on an integrated PC module
- A complete tool set
- Chip cutter and chip suction
- A wide range of accessories
- Including detailed documentation on maintenance, installation and operation
- Optionally available with driven tools
- Comfortable & precise clamping system

SML1800e - 巨型车床

- 高性能数控完整系统
- 制造直径介于700毫米（27.5英寸）至1850毫米（70英寸）之间的密封件（通过限制操作完成450毫米（17.5英寸）的密封件）
- 轻易使用SML系统软件与统一规划的电脑软件
- 完整的工具推车
- 屑片切割设备和高功率的抽吸系统装置
- 广范围的配件
- 包括维护、安装和操作的详细资料
- 可选配动力刀具
- 舒适和精确的夹持系统

SML1800e - The Lathe Giant

- High-performance CNC complete system
- For seals between 700mm (27.5 inches) and 1,850mm (70 inches) in diameter (limited operation from 450mm (17.5 inches) is possible)
- User-friendly SML system software on an integrated PC module
- Complete tool set
- Chip cutter and chip suction
- A wide range of accessories
- Includes detailed documentation on maintenance, installation and operation
- Optionally available with driven tools
- Comfortable & precise clamping system

SML500e - 创新的全才和赢家！

- 强大完整的数控系统制造出外径达520毫米（20.5英寸）的密封件
- 轻易使用的SML软件，包括电脑
- 配备有效的8位刀盘，可快速换刀，设置时间短
- 完整的工具推车
- 维护、安装和操作精确的文档
- 屑片切割设备和高功率的抽吸系统装置
- 可选配动力刀具
- 广范围的配件

SML500e - The all-rounder & Winner of Innovation!

- A high-performance complete CNC system for manufacturing seals of up to 520mm (20.5 inches) in diameter.
- User-friendly SML software, including a PC
- Equipped with an effective 8-position turret for rapid tool change and short set-up times
- A complete tool set
- Accurate documentation for maintenance, installation and operation
- Chip cutter and chip suction unit
- Optionally available with driven tools
- Wide range of accessories

Pimp your SML

OPTION PLUS – 动力刀具

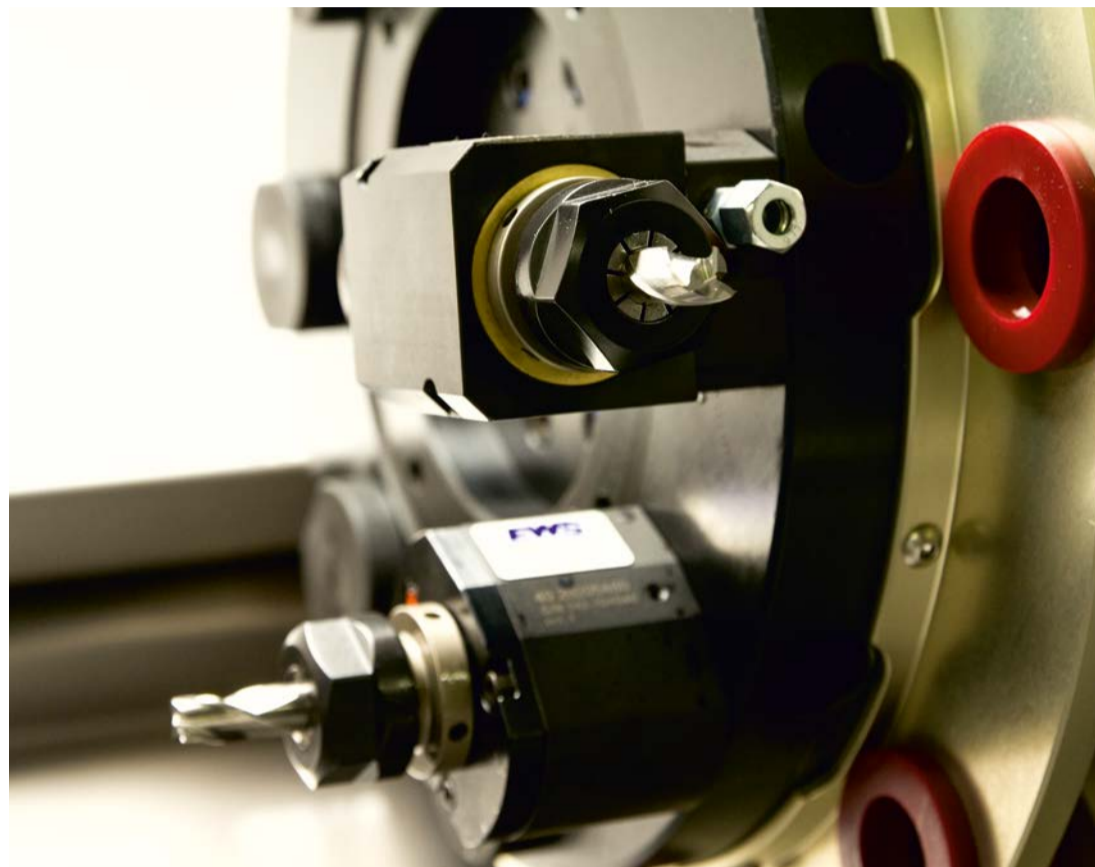
有了Option Plus，您可通过铣削与钻探扩展SMLe系统的领域，这将能够使您的产品组合扩展到“工程塑料产品”的方向。最大的优点是动力刀具可加装到之前安装好的SML500e、SML1000e及SML1800e型号。当这种改装组被开发时，特别重要的是要其在技术上可行，同时也是具有成本效益的解决方案，而且没有特别限制车削技术。

提高以低成本改装现有机器的可能性，或者利用这个机会来获得具有一切生产可能性的新密封件生产系统。

OPTION PLUS – Driven tools

With Option Plus, you will be able to extend your SMLe system by milling and thus, enlarge your product portfolio with the possibility to produce “engineered plastic parts”. The big advantage: driven tools can be assembled in previously installed SML500e, SML1000e and SML1800e models. When this refitting set was developed, special importance was given to a technically useful, but also cost-effective solution without limitations to the turning technology.

Extend your possibilities with a cost-effective upgrade of your existing machine, or use this opportunity to acquire a new seal production system with all its manufacturing possibilities.



OPTION 自动手夹紧卡盘

这是Seal Maker的最新发展项目之一，让客户小批量完全自动的生产密封件。有了此自动化选项，SML500e系统的手夹紧卡盘可适合运送长度达1米的筒料及标准的筒料到机器内进行加工。此选项也允许使用棒材进料装置。除了这种自动操作，手动操作也可如常使用。在开发过程中，特别关注以简单的操作和有效地设置机器为主。

用于生产密封件系列产品的SML500e系统的自动化选项也很简单，且成本低。此选项可在购买新设备时一并订购，现有的SML 500e的原机上也可升级安装此功能。

OPTION Automated hand-clamping chuck

One of our newest developments allows the full automatic production of small series of seals. The automation option of the hand-clamping chuck of the SML500e system enables the processing of material bars with a length of up to 1m as well as of standard material billets. A bar feeder can also be used in this option. A manual operation, which has been applied so far, will still be possible. During the development, special attention was given to a simple operation and an effective set-up of the machine.

The automation option of the SML500e system makes also the series production of seals simple and cost-efficient. This option may be ordered when purchasing a new machine, but it is also available as an upgrade of already installed SML 500e machines.





NEW TECHNOLOGIES!

筒料自装系统 – 新一代自动化密封件生产

Seal Maker 的主要竞争力之一是开发和推广生产密封件和塑料件的高效机器系统。自 SMLe 系列推出以来，我们已经成功地为市场上现有的机器提供定期升级服务。

不同于25年前，当时谈的只有“紧急状况下的车削密封件”，如今“车床切割密封技术”已成为公认的制造技术，制造少量、中型系列、数千件密封件，并在较短的交货时间里以较高的质量标准来满足最终用户的需求。

从车削技术的角度来看，大量密封件需要长度为1米或1米以上的管材和棒材的棒料进给器，实现材料的自动送料，从而缓解生产过程中操作员的注意力。然而，棒材和管材的尺寸是有限的，特别是当密封件行业需要高性能原料时，例如，直径为120毫米的棒材或管材需要主轴台送入时，对车床机尺寸的要求则会大大增加。

出于这个原因，我们决定开发和提供灵活优化的新型系统来生产机械密封件。Seal Maker 的新型“棒料自装系统”，允许120至170毫米长以及直径介于20至120毫米之间的标准筒料送入并装入自动夹盘中，机器操作员不再需要不断地手动更换筒料。筒料装入系统的设计非常灵活，短时间内可实现筒料尺寸的切换。

配备新型SML 500e机器的新型棒料装载系统可立即发挥作用。

Billet loading system – New generation automated seal production

The development and marketing of highly efficient machine systems for the production of seals and plastic parts is one of the key competences of Seal Maker. Since SMLe-series have been introduced on the market, we have successfully offered upgrades for existing machines on a regular basis.

Unlike 25 years ago, when talk was only about “turned seals for emergencies”, nowadays the “lathe-cut seal technology” has become a recognized manufacturing technology for seals in small numbers and medium-sized series, up to series of several thousands of pieces, in order to meet end-user requirements within short delivery times and with a high quality standard.

From the point of view of turning technology bar feeders for tubes and bars with a length of about 1m or more are being used for the production of larger numbers of seals. This allows for the automatic feeding of the raw materials and therefore requires only reduced attention of the machine operator to the production process. However, the availability of bars and tubes in the desired dimensions is limited, especially when high performance raw materials for the sealing industry are required. In addition, the dimensions of a lathe machine would grow tremendously when bars or tubes with, for example, 120 mm diameter would have to be fed through the spindle head.

For this reason, we decided to develop and offer a NEW, FLEXIBLE and OPTIMISED system for the production of machined seals. Seal Maker's new “bar loading system” makes it possible to feed standard billets with a length between 120 and 170mm, and a diameter between 20 and 120mm into the machine and clamp it automatically in the chuck, so that the machine operator does not need to continuously feed the billets manually. This billet loading system has been designed highly flexible, so that the change to another billet dimension requires only a minimum period of time.

The new bar loading system is available for new SML 500e machines at once.

新视频：
运作方式！
您可以登录www.seal-maker.com查看新型棒料装载系统的展示视频。

New Video:
This is how it works!
On www.seal-maker.com you can view a video showing the new bar loading system.

测量、修正、记录

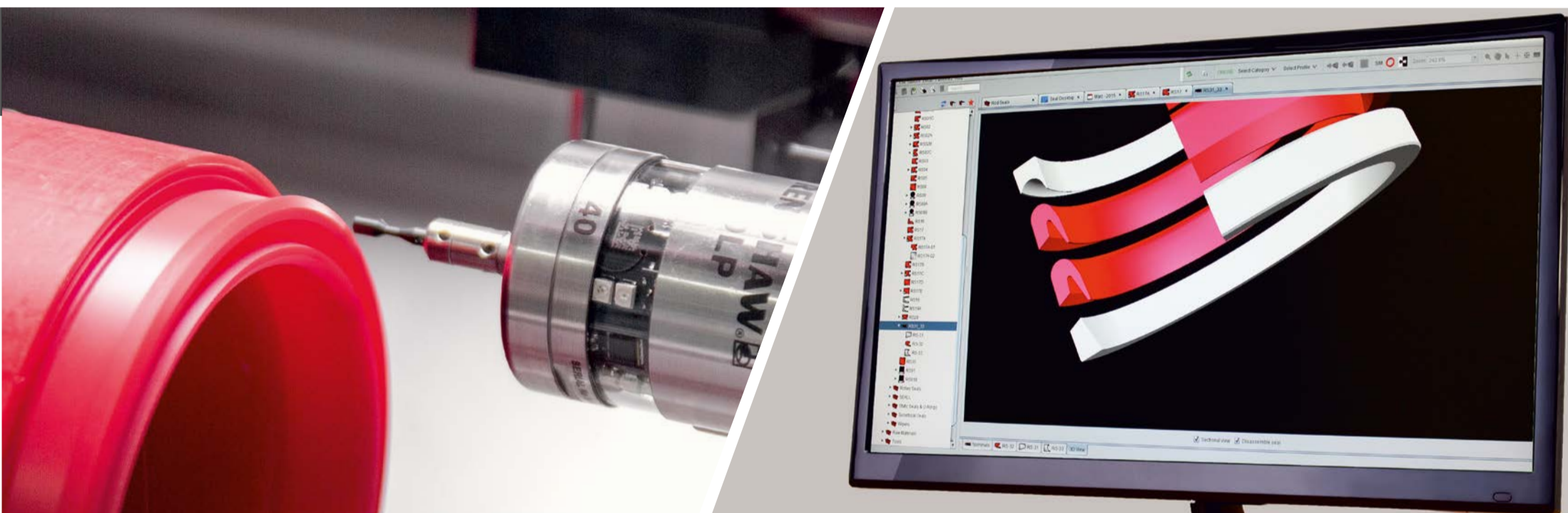
SML机器系列集成测量系统的三个特点是测量、修正、记录。特别是对于硬质塑料以及聚氨酯或橡胶的多个加工步骤，高度敏感的测量传感器能够比较实际尺寸与粗加工后已有设计尺寸，为下一个运作步骤调整工具位置，弥补与正确尺寸的偏差。

如果成批部件生产允许或需要对某些测量数据进行自动文档处理，也可以使用测量传感器。我们的技术人员会为现有机器进行后续安装。

Measuring, correcting, documenting

These are the 3 characteristics of our integrated measuring system for the SML machine family. Especially for hard plastics, but also for many processing steps of Polyurethane or rubber, the highly sensitive measuring sensor can compare the actual dimension with the design dimension already after roughing, and adjust the tool positioning for the next working step, so as to compensate any possible deviation from the correct dimension.

The measuring sensor can also be used when an automated documentation for certain measurements during the production of serial parts makes sense or appears to be necessary. The simple installation also enables a subsequent assembling into existing machines by our service technicians.



新：SML系统软件4.0

我们多年来持续深入发展SML系统软件。

当前版本3.5中含有202个配置文件，它不仅是最稳定且最具人性化的版本，同时也是短周期加工最有效率的版本，例如短期成品加工。

新型SML系统软件4.0的开发是为了保持其所有相关设计及生产的基础数据库，通过采用现代技术来重新设计用户界面，更好地满足客户的个性化需求。

我们能够整合许多新的功能（3D视图，快速准入配置文件，进入公称尺寸后的及时冲撞警告系统，改善变焦放大功能，各种个人设置，SealCalc和激光软件的连接等）。

使用SML系统软件4.0，所有的机器用户将获得免费可靠的升级，且有机会获得更具现代感的外观。SML系统软件4.0将自2015年7月起向客户推出。

NEW: SML System Software 4.0

We have continuously worked on further developing our SML system software over the years.

At the moment, the current version 3.5 contains 202 profiles and is not only one of the most stable and user-friendly versions, but also one of the most efficient ones regarding short machining cycles, i.e. short production times of the finished products.

The aim of the development of the new SML system software 4.0 was to maintain the basic database with all its design- and production related areas, and to redesign the user interface by means of modern technology in order to meet individual customer demands even better.

We were able to integrate a number of new features (3D view, quick access to profiles, early collision warning system when entering nominal sizes, improved zoom possibilities, various individual settings, link to SealCalc and laser software, etc.)

With the SML system software 4.0 all our machine customers will receive a FREE upgrade of a long established basis with additional opportunities in an even more modern appearance. The SML system software 4.0 will be available to our customers from July 2015.

New Sealing Materials

聚氨酯U203 vs.U500

若要质疑哪些材料已经尝试过和测试过，哪种材料功能良好，以及再需要探索哪些新途径，并非易事。为了达到最好效果，新的发展和进步是不可或缺的。Seal Maker 将提供由U500材料制作的一系列获得确认的产品。U5xx涵盖了所有方面，耐高温135°C，低温-50°C，优化摩擦阻尼，既有较高硬度，也有较低硬度，有优良的耐化学性，可应用于食品加工中。U5xx将从2015年7月起取代U203，成为新的标准原材料。









尽管如此，我们并不想放弃已经尝试及测试的一切材料，特别是U203-G95（PU - 绿色）在未来将会变得重要，尤其是在价格敏感的细分市场。我们仍会库存U203-G95，由于相对优化的生产流程，该种材料的价格将会更加优惠。U203系列的其他原材料也将依据需求继续供应。

Polyurethane U203 vs. U500

It is not always easy to question what has been approved and verified and is functioning well, and to explore new paths. Nevertheless, new developments and progress are indispensable if we want to achieve the best possible results. Seal Maker will soon offer an entire well-established product family based on U500. Be it the maximum temperature of 135°C, a minimum temperature of down to -55°C, friction optimization, a higher degree of hardness, a lower degree of hardness, better chemical resistance or the application in food processing, U5xx covers all areas and will also replace our U203 from July 2015 as the new standard raw material.























But finally, we do not want to leave everything behind that has been approved and verified. Especially the U203-G95 (PU – green) will become important in the future, particularly in the price-sensitive market segment. U203-G95 will still be available from our stock and can be offered at a cheaper price than before due to appropriate production process optimizations. The other raw materials of the U203 family will also continue to be available upon request.



















NEW The new PU500 Family

Description	Color	Application temp.	Hardn. at 20°C
PU red U500-R95		-30 to +125°C	Shore A 95 +/-2
PU dark red U550-GM 95		-30 to +125°C	Shore A 95 +/-2
PU orange U520-OR95-HT		-30 to +135°C	Shore A 95 +/-2
PU violet U540-VI95-CR		-30 to +115°C	Shore A 95 +/-2
PU light blue U530-B95-LT		-55 to +105°C	Shore A 95 +/-2
PU light green U510-G88		-30 to +115°C	Shore A 88 +/-2
PU blue U570-D57		-30 to +125°C	Shore D 57 +/-2
PU grey U580-D57-G		-30 to +125°C	Shore D 57 +/-2



Material - Overview

	Description	Color	Application temp.	Hardn. at 20°C
POLYURETHANE	PU red U500-R95		-30 to +125°C	Shore A 95 +/-2
	PU dark red U500-GM95		-30 to +125°C	Shore A 95 +/-2
	PU orange U520-OR95-HT		-30 to +135°C	Shore A 95 +/-2
	PU violet U540-VI95-CR		-30 to +115°C	Shore A 95 +/-2
	PU light blue U530-B95-LT		-55 to +105°C	Shore A 95 +/-2
	PU light green U510-G88		-30 to +115°C	Shore A 88 +/-2
	PU blue U570-D57		-30 to +125°C	Shore D 57 +/-2
	PU grey U580-D57-G		-30 to +125°C	Shore D 57 +/-2
	PU red U203-R95		-30 to +105°C	Shore A 95 +/-2
	PU green U203-G95		-30 to +105°C	Shore A 95 +/-2
	PU FDA light blue U203-B95		-30 to +105°C	Shore A 95 +/-2
	PU MoS2 grey U203-GM95		-30 to +105°C	Shore A 95 +/-2
	PU FDA natural U203-95FDA		-30 to +100°C	Shore A 95 +/-2
	PU LT dark blue U203-B95-LT		-50 to +105°C	Shore A 95 +/-2
	PU 57 Shore D dark blue U203-D57		-30 to +105°C	Shore D 57 +/-2
PU 57 Shore D + MoS2 grey U203-D57G		-30 to +105°C	Shore D 57 +/-2	
NBR	NBR black N107-B85		-25 to +100°C	Shore A 85 +/-5
	NBR 95 black N109-B95		-25 to +100°C	Shore A 95 +/-5
	NBR FDA white N111-W85		-22 to +100°C	Shore A 85 +/-3
H-NBR	H-NBR black HN112-B85		-25 to +150°C	Shore A 85 +/-5
	H-NBR RGD black HN900-B85-RGD		-20 to +150°C	Shore A 85 +/-5
	H-NBR RGD LT black HN901-B85-RGD		-40 to +150°C	Shore A 85 +/-5

	Description	Color	Application temp.	Hardn. at 20°C
FPM	FPM brown F109-BR85		-20 to +210°C	Shore A 85 +/-5
	FPM FDA brown F110-BR85		-25 to +210°C	Shore A 85 +/-5
	FPM black F111-B85		-25 to +210°C	Shore A 85 +/-5
	FPM-RGD black F800-B85-RGD		-30 to +210°C	Shore A 85 +/-5
EPDM	EPDM black E131-B85		-50 to +130°C	Shore A 85 +/-5
	EPDM FDA white E132-W85		-50 to +100°C	Shore A 85 +/-3
	EPDM KTW black E133-W270		-45 to +120°C	Shore A 85 +/-5
SILICONE	Silicone FDA red S102-R85		-55 to +210°C	Shore A 85 +/-5
	Silicone FDA blue S103-BL85		-55 to +180°C	Shore A 85 +/-3
PTFE	AFLAS black AF101-B85		-15 to +210°C	Shore A 85 +/-5
	PTFE-F grey T105-G		-200 to +260°C	Shore D 55 - 64
	PTFE-P FDA white T101-W		-200 to +260°C	Shore D 51 - 60
	PTFE-40% bronze brown T110-BR40		-200 to +260°C	Shore D 62 - 67
	PTFE-25% carbon grey T125-C25		-200 to +260°C	Shore D 62 - 67
PLAST	POM FDA white P101-WE		-50 to +100°C	-
	PA FDA natural A112-WC		-40 to +90°C	-
	PEEK natural beige PK100-CN		-50 to +250°C	Shore D 90
	UHMW - PE white PE1000-HD		-200 to +80°C	Shore D 60 - 65



Profile-Overview

Wipers

Profile	Type
	WR01
	WR01A
	WR02
	WR02A
	WR02B
	WR02C
	WR02D
	WR03
	WR04
	WR07
	WR08
	WR11
	WR12
	WR13
	WR13_E2
	WR14
	WR15
	WR17
	WR18

Rod seals

Profile	Type
	RS01
	RS01A
	RS01B
	RS01C
	RS02
	RS02A
	RS02B
	RS02C
	RS03
	RS04
	RS05
	RS08
	RS09
	RS09A
	RS09B
	RS91
	RS91B
	RS16
	RS17
	RS17A
	RS17B
	RS17C
	RS17D
	RS17E
	RS19
	RS19A
	RS20
	RS31-33
	RS35

Piston seals

Profile	Type
	PS01
	PS01A
	PS01B
	PS01C
	PS02
	PS02A
	PS03
	PS04
	PS05
	PS08
	PS08A
	PS08B
	PS08C
	PS08D
	PS08E
	PS08F
	PS81
	PS09
	PS09A
	PS16
	PS16A
	PS17
	PS17A
	PS17B
	PS19
	PS19A
	PS20
	PS23

Symmetrical seals

Profile	Type
	PRS06
	PRS06A
	PRS06B
	PRS06C
	PRS06D
	PRS06E
	PRS07
	PRS10SP
	PRS10-12
	PRS13-15
	PRS18
	PRS19
	PRS19B
	PRS19C
	PRS19D
	PRS22
	PRS25-27
	PRS99

Guide rings

Profile	Type
	BWR01
	BWR01A
	BWR03
	BWR04
	BWR05
	BWR06
	BWR07
	BWR08
	BWR09

Static seals and O-rings

Profile	Type
	FL01A
	FL02B
	FL03
	FL06
	FL07
	OR
	ORH
	ORV
	QR01
	QR02
	SS01

NEW

NEW

Rotary seals

Profile	Type
	OS01
	OS02
	OS03
	OS08
	OS08A
	R03
	R04
	R04A
	R05
	R05A
	VR06
	VR07
	R08
	R08D
	R09
	R09A
	R10
	R10A
	R11

Customized seals

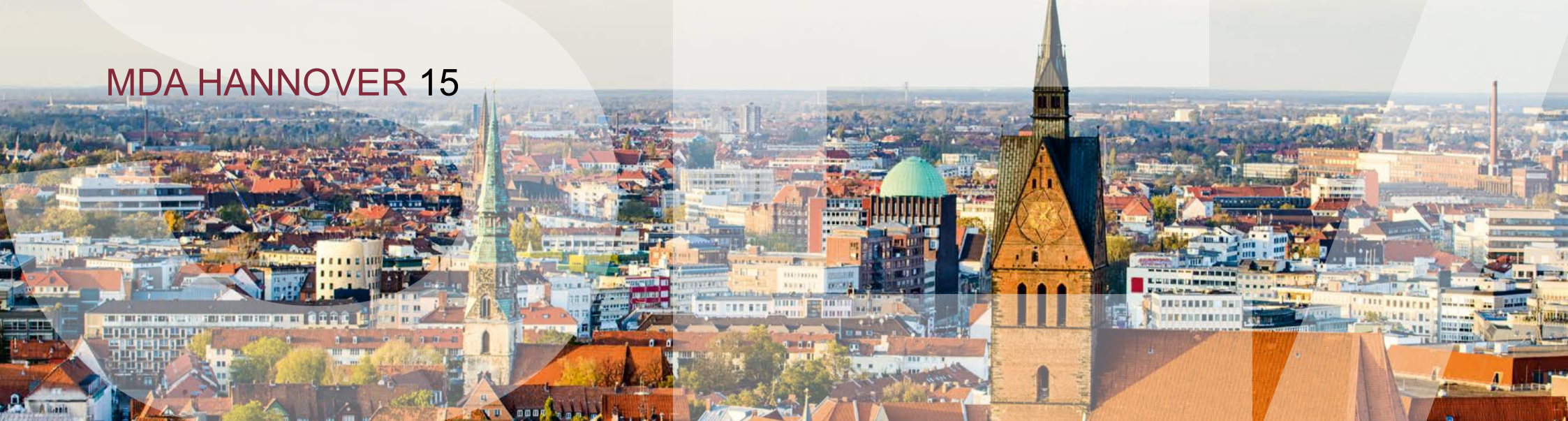
Profile	Profile

Mining seals

Profile	Type
	P50
	P50A
	P51
	P51A
	P51G
	P52
	P53
	P54
	P54A
	P55
	R50
	R50A
	R51
	R52
	R53
	W50
	W51
	W53
	W54
	BWR01-P
	BWR01-R
	P58

Back-up rings

Profile	Type
	BUR08
	BUR09
	BUR10
	BUR11
	BUR12
	BUR13



Worldwide Sealing Systems

自1997年成立以来，Seal Maker规模不断扩大，公司目前全世界的合作伙伴遍布65个国家之多，拥有良好的客户群基础。Seal Maker的优势不仅在于其高品质的成品，也在于其服务以及灵活的生产特色，较短的加工周期，与可靠的订单处理模式。

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