

SEALS

TECHNOLOGY



特刊17 SPECIAL EDITION 17

客户杂志 Magazine for customers and partners



www.seal-maker.com

The SML System

The Sealing Materials

Pimp your SML



速麦密封科技(上海)有限公司



Editorial



敬爱的读者

在此借我司”密封科技“杂志特刊出版的机会，非常高兴与大家分享一个好消息Seal Maker在中国上海成立的全资子公司“速麦密封科技(上海)有限公司“已正式运营。

这是我们一贯秉承的理念：走近我们的伙伴和客户，为我们遍布世界各地的伙伴和客户提供更好的建议和服务。

正因如此，在中国最重要的工业城市建成我司新的物流和服务中心，让其更加贴近我们中国的客户，我也非常欣慰，我们新团队积极进取，且具有经验。在本期刊您会详细地了解他们

我们的中国分公司获益于富有30年车削生产和研发经验，强有力奥地利团队的技术支持，可以为您提供更加专业服务。

在上海我们不但备有大量奥地利生产的优质原材料/管料库存，还可为您提供高品质车削密封件。

我们在奥地利的研发部门不断提高自身的产品质量同时，还在拓展产品的应用领域，我们的专业知识必将有益于国际市场。

我希望能够在中国看到一个成功的、繁荣的、共赢的合作，我们承诺将尽我们最大努力给予您全领域的服务和支持。

谨上，
Johann Glocknitzer

Dear readers,

I am very pleased to present this special issue of our customer magazine „Seals Technology“ on the occasion of the opening of our new Seal Maker branch „Seal Maker China“ in Shanghai to you.

It has always been Seal Maker’s philosophy to maintain close relationships to all our partners and customers worldwide and to serve them with advice and assistance any time.

Thus, the establishment of a new logistics and service hub in one of China’s major industrial cities was a logical step in order to be as close as possible to our Chinese customers. I am very happy to work with an experienced and ambitious team in our new branch. They will be introduced closer inside this newsletter.

Our Chinese branch will also benefit from the expertise of our experienced staff in Austria where the technology of machined seal production has been developed and improved for more than 30 years.

We will serve our local customers from a large stock with high quality products and raw materials developed and produced in Austria and we will produce high quality machined seals at site in Shanghai as well.

Our Austrian R & D department is constantly striving to improve our product quality and extend the application fields of our products. The resulting Know-How will definitely be very useful on all our international markets.

I am looking forward to a prosperous and successful cooperation with all our customers in China and I assure you that we will do our best to serve and assist you in any respect.

Yours,
Johann Glocknitzer





速麦密封科技(上海)有限公司

Seal Maker China



在这里很自豪地告诉大家, Seal Maker 在中国最主要的现代化城市——上海, 建立了全资子公司, 上海因其发达基础建设和优越的地理位置而闻名于世。

通过过去几个月的艰辛付出, 我司逐渐完善, 并最终全面运营。SML 车削车床安装完毕, 仓库储备了各种原材料, 还有即将上线的ERP系统, 整个团队都在期待着一个完美开端

We are proud to announce the opening of the new Seal Maker site in China. Shanghai, one of the major industrial cities in the People's Republic of China is the new logistics and service hub of Seal Maker in China due to its ideal geographical location and perfect infrastructure.

The hard work of the last few months has paid off and our new site is now running in full operation. The SML machines have already been successfully installed, the warehouse has been finished and a corresponding ERP system has also been installed. The highly motivated team in China is now looking forward to numerous incoming orders – we wish them a successful start!

我们的中国团队: Our Team in China:

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ISO Certification: ✓

2007 年Seal Maker 奥地利 在人事管理领域成功的引入了质量管理认证系统ISO 9001:2015, 由于Seal Maker全面满足质量管理认证的要求, 使得我们再次获得认证, 这也进一步说明Seal Maker是一家值得信赖并具有创新能力的公司。

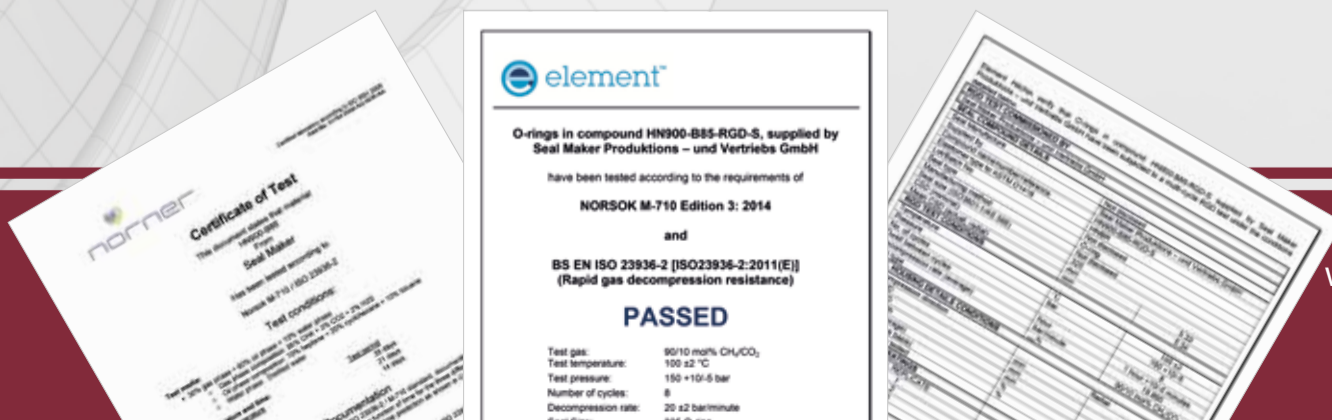


The management system ISO 9001 in our HQ's in Austria ensures for constant quality and effectiveness within the company since its introduction in 2007. Through compliance with all current requirements for quality assurance, Seal Maker has been awarded again with the current certification for ISO 9001:2015. That makes Seal Maker not only a reliable supplier but also an innovative and competent partner.

Certificates

所有的Seal Maker生产的数控机床都获得CE证书, 设备文件也包含了测试记录和精确度校对等证明。而我们的原材料也有各类相关的证书如FDA, KTW, RGD, 可根据需求提供相关证书和技术参数。

All Seal Maker machines always get dispatched with a CE certificate. A special acceptance certificate with test record, proving the accuracy of the machine, is included in the machine documentation. For seal materials various certificates are available compliant to FDA, KTW, RGD, and also material data sheets and safety data sheets. Certificates for seals are available on request.



About Seal Maker...

关于SEAL MAKER:

- 成立于1997年，位于奥地利的艾森城
- 营业额一千四百万欧元(2016)
- 106名员工(2016)
- 新厂房建设于2004年，2010年扩建

THE COMPANY:

- Founded in 1997 in Eisenstadt, Burgenland (Austria)
- Turnover € 14 mio. (2016)
- 106 employees (2016)
- New factory building (2004) + further expansion (2010) in Pöttelsdorf, Burgenland

About the SML System...



SEMI-FINISHED PRODUCT

LATHE

SEALS

服务是质量的密封剂:

质量保证并不止于交货，而是我们整个服务体系的一部分。

它包含:

- 值得信赖的订单流程
- 灵活多样的产品规格
- 快速的生产周期
- 对待客户的专业态度

KEY FACTS:

Quality at Seal Maker does not end with product shipment, but is an integral part of our service. This includes:

- Reliable consistent order processing
- High flexibility in the production of standardized and specialized products
- Rapid production cycles
- Reliable professional and personal attention to our clients

生产流程:

- 在软件中预选一个规格型号
- 根据操作流程挑选所需的工具和生产示意图
- 输入确定好的生产编码
- 把原料固定在设备上
- 生产所需的密封件

SEAL PRODUCTION PROCESS:

- Select a pre-programmed shape from the software
- Follow the instruction to finalize a tool selection, set-up plan and tolerance sheet
- Transfer the automatically generated code to the SML machines
- Clamp the chosen material in the machine
- Produce the required seal

THE SML Family



Seal Maker的数控车削系统能够迅速、准确地把原材料加工成各类高品质液压，气压密封件。在研发中积累大量的专业技术以及高性价比为产品的高品质和精确的生产提供了保证。零配件的设计和构造确保了国际标准和通用性。在我们的培训中心定期进行大量的关于设备安装，调试，维修的研讨会。标准配置包括车床，SML软件，切割设备和紧固装置另外还有碎片装置及废碎片的抽吸装置，总而言之每台设备都可以和不同的工具组合

The Seal Maker CNC machining systems guarantee a rapid and efficient machining of semi-finished materials into high-quality hydraulic and pneumatic seals. Extensive know-how in R&D as well as a highly competitive price/value ratio provide for equally high product quality and operational efficiency. Construction and design of accessories (e.g. tools) adhere to international standards and enable universal usability. Extensive seminars in our training center as well as installation, maintenance and repair on site are a matter of course for Seal Maker.

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 - 性能强大的

- 高性能数控机床全套系统用以加工直径范围450-1100 mm (18-43英寸)
- 内置电脑模块的SML软件易于操作
- 完整的工具套件
- 屑片的破碎和抽吸装置
- 多种配件
- 详细的维护，安装，及操作文档
- 舒适和精准的紧固设备

SML1000e - The Power Pack

- A powerful complete CNC system for manufacturing seals from 450 mm (18 inches) to 1100 mm (43 inches) outside diameter (limited operation from 360 mm (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 - 车削巨人

- 高效能的数控系统能完成最大直径为1850 mm (70英寸)的密封件加工作业 (也可加工直径450 mm (17.5英寸)的密封件)
- 内置电脑模块的SML软件易于操作
- 完整的工具套件
- 屑片的破碎和抽吸装置
- 多种配件
- 详细的维护，安装，及操作文档
- 舒适和精准的紧固设备

SML1800e - The Lathe Giant

- High-performance CNC complete system
- For seals between 700 mm (27.5 inches) and 1850 mm (70 inches) in diameter (limited operation from 450 mm (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 - 全能的创新者

- 高性能数控全套系统，用于加工最大直径为520 mm (20,5英寸)的密封件
- 易于操作的SML软件
- 高效率八位刀盘，换刀迅速，准备时间短
- 设备配置完整的加工刀具
- 精确的维护，安装，和使用说明
- 破碎和抽吸装置
- 多选择性配置
- 零配件多样化

SML500e - The all-rounder & Winner of Innovation!

- A high-performance complete CNC system for manufacturing seals of up to 520 mm (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

The Sealing Materials

半成品材料

研发, 生产并推广数控机床加工使用的高品质筒料和棒料是 Seal Maker Produktions- und Vertriebs GmbH 公司的核心领域。我们先进的生产技术能够很好地覆盖广阔的密封应用范围。每件从我们工厂出品的筒料都经过多重检测, 不论在质量上还是价格上都是为我们客户加强竞争力的重要因素。除库存大量标准规格外, 特殊规格和 FDA 标准的材料也能够在规定时间内提供。

*聚氨酯 | 丁腈橡胶 | 三元乙丙橡胶 | 氟化碳橡胶 | *AFLAS® | 硅酮 | 聚甲醛 | 聚酰胺 | 聚四氟乙烯 | 其它

Semi-finished Products

The development, production and marketing of high quality semi-finished products in form of bars and tubes for the machining of sealing elements is an integral part of the core competence of Seal Maker Produktions- u. Vertriebs GmbH. Due to our most modern manufacturing technology we are able to cover the whole spectrum of seal applications. Our semi-finished billets, each of which is controlled several times before dispatch, are one of the most important components for our customers, contributing to their competitiveness by offering high quality at a reasonable price. Besides the wide range of standard dimensions which are carried on stock, special dimensions are also available within short delivery times in all materials and FDA-qualities.

*PU | NBR | EPDM | FPM | *AFLAS® | SILICONE | POM | PA | PTFE | PEEK | and many more

材料一览

Description	Color	Application temp.	Hardn. at 20°C
PU U500-R95 red		-30 to +125°C	Shore A 95 +/-2
PU U505-P79 petrol		-25 to +100°C	Shore A 79 +/-3
PU U510-G88 light green		-30 to +115°C	Shore A 90 +/-2
PU U520-OR95-HT orange		-30 to +135°C	Shore A 96 +/-2
PU U530-B95-LT light blue		-50 to +105°C	Shore A 95 +/-2
PU U540-VI95-CR violet		-30 to +115°C	Shore A 95 +/-2
PU U550-GM95 dark red		-30 to +125°C	Shore A 95 +/-2
PU U570-D57 blue		-30 to +125°C	Shore D 57 +/-3
PU U580-D57G grey		-30 to +125°C	Shore D 57 +/-3
PU U203-G95 green		-30 to +105°C	Shore A 95 +/-2
NBR N107-B85 black		-25 to +100°C	Shore A 85 +/-5
NBR N109-B95 black		-25 to +100°C	Shore A 95 +/-5
NBR FDA N111-W85 white		-22 to +100°C	Shore A 85 +/-3
H-NBR HN112-B85 black		-25 to +150°C	Shore A 85 +/-5
H-NBR RGD HN900-B85-RGD black		-20 to +150°C	Shore A 85 +/-5
H-NBR RGD LT HN901-B85-RGD black		-40 to +150°C	Shore A 85 +/-5
FPM F109-BR85 brown		-20 to +210°C	Shore A 85 +/-5
FPM FDA F110-BR85 brown		-25 to +210°C	Shore A 85 +/-5

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



聚氨酯

聚氨酯已成为现代密封科技技术所必不可缺的材料。在缸用和轴用密封领域皆占有主要的市场份额。Seal Maker的聚氨酯筒料以其极高的材料质量见长。使用Seal Maker聚氨酯加工的密封胶在很多应用范围都超过其它密封或筒料生产商的标准寿命。原因之一在于认真挑选为Seal Maker所用的原料，另外就是“直接”的生产技术。相对于热塑性合成产品，Seal Maker的聚氨酯筒料浇铸而成，使材料在聚合过程中能够最大程度地培育出其物理性能。省略了对材料性能有负面影响的后续加热，成型。

高品质聚氨酯材料型号为U5XX及U203, 提供绝佳的耐磨及摩擦性能。详情请见我们的材料数据表。

Polyurethanes have gained a substantial importance in modern seal technology. They hold a dominant market share in the sector of rod seals and piston seals. Seal Maker's Polyurethane semi-finished products stand out due to their highest material quality. In many applications seals made of Seal Maker Polyurethane outperform the service life of seals made out of competitive manufacturers' materials. The reason for this can be attributed on the one hand to the careful selection of raw materials, and on the other hand to the "direct" manufacturing technology. Unlike the thermoplastic processed products, the cast semi-finished products of Polyurethane billets made by Seal Maker have the greatest degree of freedom to develop their physical properties during polymerization. Any kind of negative influence during the polymerization process by heating up and plastic deformation is avoided with our technology.

The high quality Polyurethane versions U5XX and U203 offered by Seal Maker are hydrolysis resistant (H-PU). More information you can find in our material data sheets.



塑料

应用于支撑圈和导向圈以及特制密封件和预加应力密封件的硬弹和氟化合成橡胶补齐了Seal Maker的筒料供应目录。Seal Maker特别注重这些产品的供货商能够在各方面达到我们以及我们客户对质量、价格和诚信严格但合理的要求。与供货商之间良好的合作关系、齐全的供货目录配合一致的库存管理为供货迅捷提供了保障。不仅规格系列按照车削密封的加工标准要求调节，各种所提供的材料配方更是全面覆盖密封应用领域所需

聚甲醛 | 聚酰胺 | 聚四氟乙烯 | 其它

Hard plastics and fluorinated thermoplastics, as used for back up rings and guide rings, as well as for special and pre-loaded seals, complete the product range of Seal Maker semi-finished products. Seal Maker takes care that the suppliers of these products fulfill the high quality requirements as set by itself and by its customers. The excellent business connection we maintain with our suppliers, a broad product line, in combination with efficient warehouse management, guarantee prompt availability. Not only the dimensional range of semi-finished products is well adapted to the requirements of machining, it is also the wide variety of different material compounds which covers all the requirements of seal application.

POM | PA | PTFE | PEEK | diverse compounds



合成橡胶



合成橡胶，也经常被称为橡胶材料，是密封科技中必要的补充。虽然它在很多应用领域被“新式”的聚氨酯所替代，但合成橡胶大范围的耐热性和耐化学性使其成为密封技术中所不可缺少的组成部分。Seal Maker只采用世界知名供货商的原料，配合先进的Seal Maker加工技术，给客户以保障：经过验证的材质和节约的形状。这不仅从性价比中，也从标准与非标准尺寸和各种材料合成的供货中反馈给客户。所有Seal Maker合成橡胶筒料都带有塑料外套。即使它们自身硬度低、弹性高，依然可以很好地被车削加工。

丁晴橡胶 | 三元乙丙橡胶 | 氟化碳橡胶 | *AFLAS® | 硅酮

Elastomers, often referred to as rubber materials, are a reasonable completion of the product range. Although they got widely pushed out of many applications by the modern Polyurethanes, the elastomer products remain important in seal technology due to their wide spectrum of thermal and chemical resistance. Seal Maker works exclusively with rubber compounds made by internationally highly recognized batch manufacturers. This, in conjunction with Seal Maker's modern processing technology, is the guarantee for well approved material compounds and an economical shaping. The resulting benefit for our customers is an excellent price-quality ratio, and also prompt availability of both standard and special dimensions and materials. All Seal Maker semi-finished products made of elastomer materials come in a hard shell, which makes them easy machinable in CNC lathes, despite the low hardness and high elasticity.

NBR | EPDM | FPM | *AFLAS® | SILICONE



特殊工料

需要根据您的需求定制特殊规格的密封件

Special Materials are available on request.

Profile-Overview

在很短的周期内可生产各种规格（标准和非标准产品）液压和气动密封产品

我们的密封件专家，通过他们丰富的经验和专业知识，帮助您设计密封产品，为您提供建议

Hydraulic and pneumatic sealing elements are available in all standard and non-standard profiles and sizes at short term.

Our sealing specialists, with their extensive knowledge, can offer help with the design of customized seals and provide suggestions for the final assembly.

Wipers

Profile	Type
	WR01
	WR01A
	WR02
	WR02A
	WR02B
	WR02C
	WR02D
	WR03
	WR04
	WR07
	WR08
	WR11
	WR12
	WR13
	WR13_E2
	WR14
	WR15
	WR16
	WR17
	WR18

Symmetrical seals

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

Rod seals

Profile	Type
	RS02B
	RS02C
	RS03
	RS04
	RS04A
	RS05
	RS05A
	RS08
	RS09
	RS09A
	RS09B
	RS10-12B
	RS91
	RS91B
	RS16
	RS17
	RS17A
	RS17B
	RS17C
	RS17D
	RS17E
	RS19
	RS19A
	RS20
	RS31-33
	RS35
	RS35A

Rod seals

Profile	Type
	RS01
	RS01A
	RS01B
	RS01C
	RS02
	RS02A





























Static seals and O-rings

Profile	Type
	FL01A
	FL02B
	FL03
	FL06
	FL07
	FL08
	OR
	ORH
	ORV
	QR01
	QR02
	SS01







Customized seals

Profile	Profile







Piston seals

Profile	Type
	PS01
	PS01A
	PS01B
	PS01C
	PS02
	PS02A
	PS03
	PS04
	PS05
	PS05A
	PS08
	PS08A
	PS08B
	PS08C
	PS08D
	PS08E
	PS08F
	PS81
	PS81B
	PS81C
	PS09
	PS09A
	PS10-12B
	PS16
	PS16A
	PS17
	PS17A
	PS17B









Piston seals

Profile	Type
	PS19
	PS19A
	PS20
	PS23
	PS35
	PS35A
























Back-up rings

Profile	Type
	BUR08
	BUR09
	BUR10
	BUR11
	BUR12
	BUR13























Guide rings

Profile	Type
	BWR01
	BWR01A
	BWR03
	BWR04
	BWR05
	BWR06
	BWR07
	BWR08
	BWR09

Rotary seals

Profile	Type
	OS01
	OS01A
	OS02
	OS02A
	OS03
	OS03A
	OS08
	OS08A
	R03
	R04
	R04A
	R05
	R05A
	VR06
	VR07
	R08
	R08D
	R09
	R09A
	R10
	R10A
	R11
	R11D

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



PIMP YOUR SML WITH OUR LATEST TECHNOLOGIES!

选项 - 自动填装装置

我们的最重要的职能之一就是为密封产品研发和推广更加有效的机器设备。基于我们已经推出了我们的SMLe系列，我们对其功能进行了成功的升级

当今“车削密封技术”已经作为小到中批量生产所认可，大到上千件，为了满足终端客户的快速供货，高品质的需求新的，灵活，优化“筒料自动填装系统”使其成为可能，筒料的长度在120mm到170mm之间，直径在20到120mm，可以做到自动紧固填装，机器设备不需要停机进行人工填充。自动填装装置设计更加灵活，生产周期更短

新型管料自动装载系统即适配于SML500e机床。

测量，矫正，存档

这是我们为SML车床家族整合的测量三个特征。尤其针对硬塑料部件，当然也适合多部件的聚氨酯和橡胶类产品，高敏感度的测量装置能够在粗加工后就对设计尺寸和生产尺寸加以比较，然后矫正刀具位置，这样使得成品更加精准

测量装置也可以为多部件产品中的单一零部件测量数据存档，我们的技术工程师能够帮助您完成升级组装

Billet loading system

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.

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.

The new, flexible and optimised “bar loading system” makes it possible to feed standard billets with a length between 120 and 170 mm, and a diameter between 20 and 120 mm 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 SML 500e machines at once.

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.

请观赏以下视频：

这就是它的工作原理。您可以在 www.seal-maker.com 上欣赏到有关管料自动装载系统的视频。

Watch this Video:

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



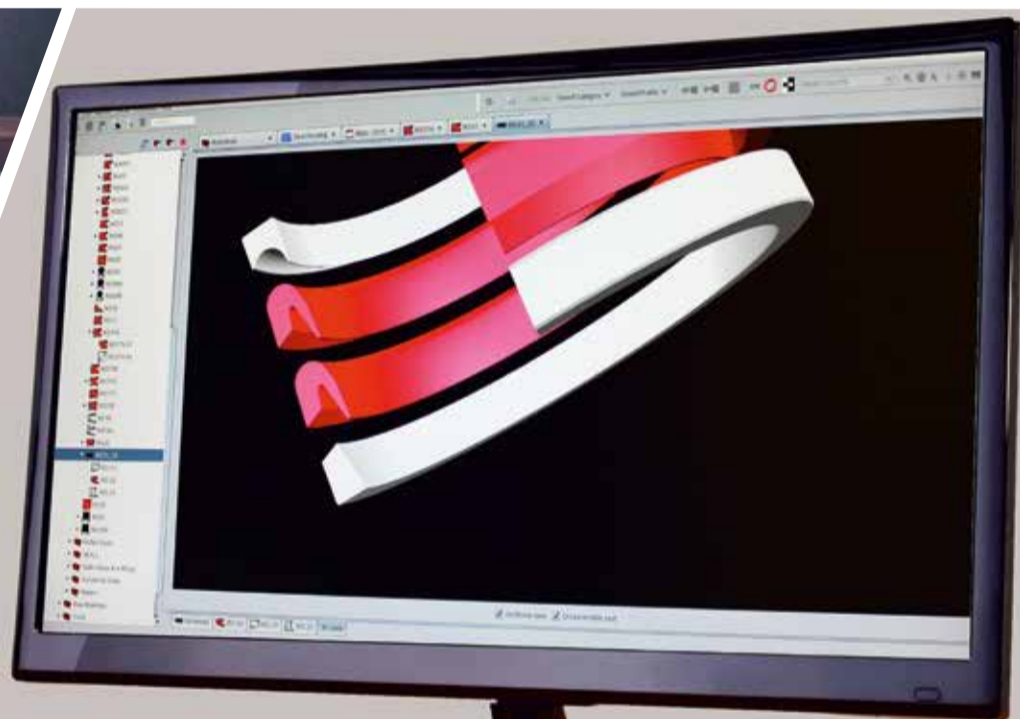


喷气装置

Airblast喷气装置又为SML车床系统增添了一种选择，通过在刀具顶端安装的空气压缩喷嘴装置，切割产生的屑屑会被及时清除，这样整个生产过程将更加准确高效。Airblast可以根据客户的需求手动控制（FANUC0iTC只能手动控制）或是在编入CNC程序后通过M-命令自动控制。该装置适用于任何车床而且BLS120型可以和SML500e, SML500e, SML1000e, SML1800e匹配批量生产。另外对于没有该装置的车床也可以后期改装。气压喷嘴装置需要空气压缩设备（压力至少4Bar），客户可自己采购或从我司订购

Airblast

AirBlast allows the removal of swarfs by means of compressed air blasts directed to the tool top. With it, production can be carried out even more effectively. If required, users can operate the AirBlast manually during machining processes (only manual control with FANUC 0iTC) or via M-commands in the CNC program. This guarantees a more efficient manufacturing. The AirBlast option is available for every SMLe machine. AirBlast is already a standard equipment in SML500e with BLS120 Option, SML1000e and SML1800e. The option can further be retrofitted on all the other machine versions. The air compressor (min 4 bar) needs to be provided by the customer or can be quoted separately.



SML软件系统

在微软操作系统的基础上经过多年的研发软件“SML软件系统”已有基础版和专业版供客户选择，目前版本4.4.5包含219种密封截面，它不仅运行稳定，易于操作，而且用该软件生产密封件的生产周期短

特色：

- 多种模板适合各种密封件的设计
- 静态模拟
- 数控编辑
- 根据客户需求编程
- 根据客户的名称出图
- 尺寸可调（各种绘图参数，显示参数，测量参数，与所看到的一致）

SML System Software

The MS Windows based CAD/CAM „SML System Software“ has been continuously developed over the years and is available in Basic and Professional version. The current version 4.4.5 contains 219 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 software provides a number of features such as 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.

Features:

- „VARIO“ module for individual seal design
- Statistic module
- CNC Editor
- Programming of customer specific profiles
- Drawing with individual letterhead
- Dimensional changes (parametric drawing, showing actual measurements, what you see is what you get)





选项 - 驱动装置

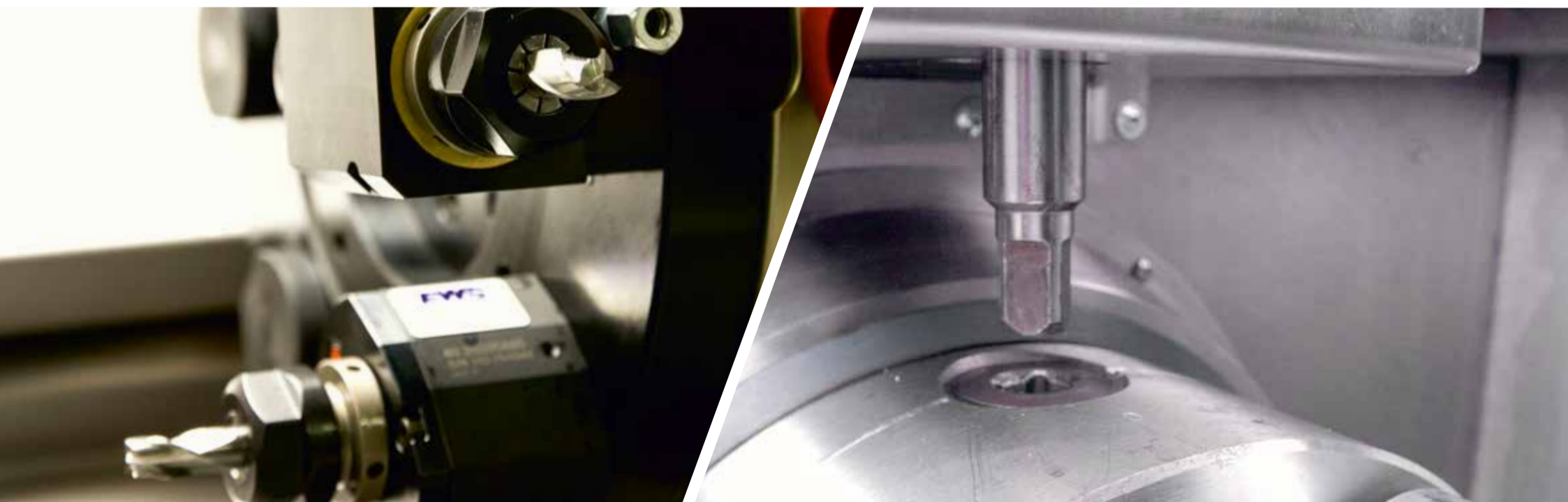
通过增加功能您的SMLe系统可以具备磨，铣功能，拓展了您的产品系列，可以生产“工程塑料部件”最大的优点在于：它可以在您原有的设备SML500e, SML1000e, SML1800e进行改装，使得您的设备性价比更好，而且车削范围更广

通过一个更加合理性价比的升级拓展您现有设备的可能性，使您具备生产新的密封产品系列机会

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.



选项 - 自动化手动卡盘

我们的研发成果之一允许我们连续全自动生产一组密封件。这种自动化手动卡盘装置可以一次性连续加工一米长的原料，同时保留其加工标准原材料的特点。这就是说填料装置可以选择原有的填料方式，也可以选择自动化填料，只需在原有的机器上正确安装

该装置使得SML500e在连续生产相同规格的密封件时缩短的生产周期，性价比更高。您既可以选择带有该装置的新设备，也可以在原设备上升级

OPTION Automated hand-clamping chuck

One of our 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.





客服

客服是我们质量体系中的密封剂

质量保证并不结束于发货，而是我们整个服务体系的一部分。客户是我们生意伙伴，他们会得到我们专业的技术，谦恭的态度，有好的服务。我们的原则是，尊重各地区伙伴的商业需求，支持他们达到他们的商业目标

为此我们提供：

- 对特殊密封件方案的建议和咨询
- 根据客户的需求研发密封件
- 帮助完善软件设计
- 技术培训
- 安装维护设备
- FSP套餐
- 协助运输
- 实验测试
- 颁发培训证书
- 软件更新
- 根据客户需求给予技术支持

SERVICE & CUSTOMERS

Service is the seal of our quality

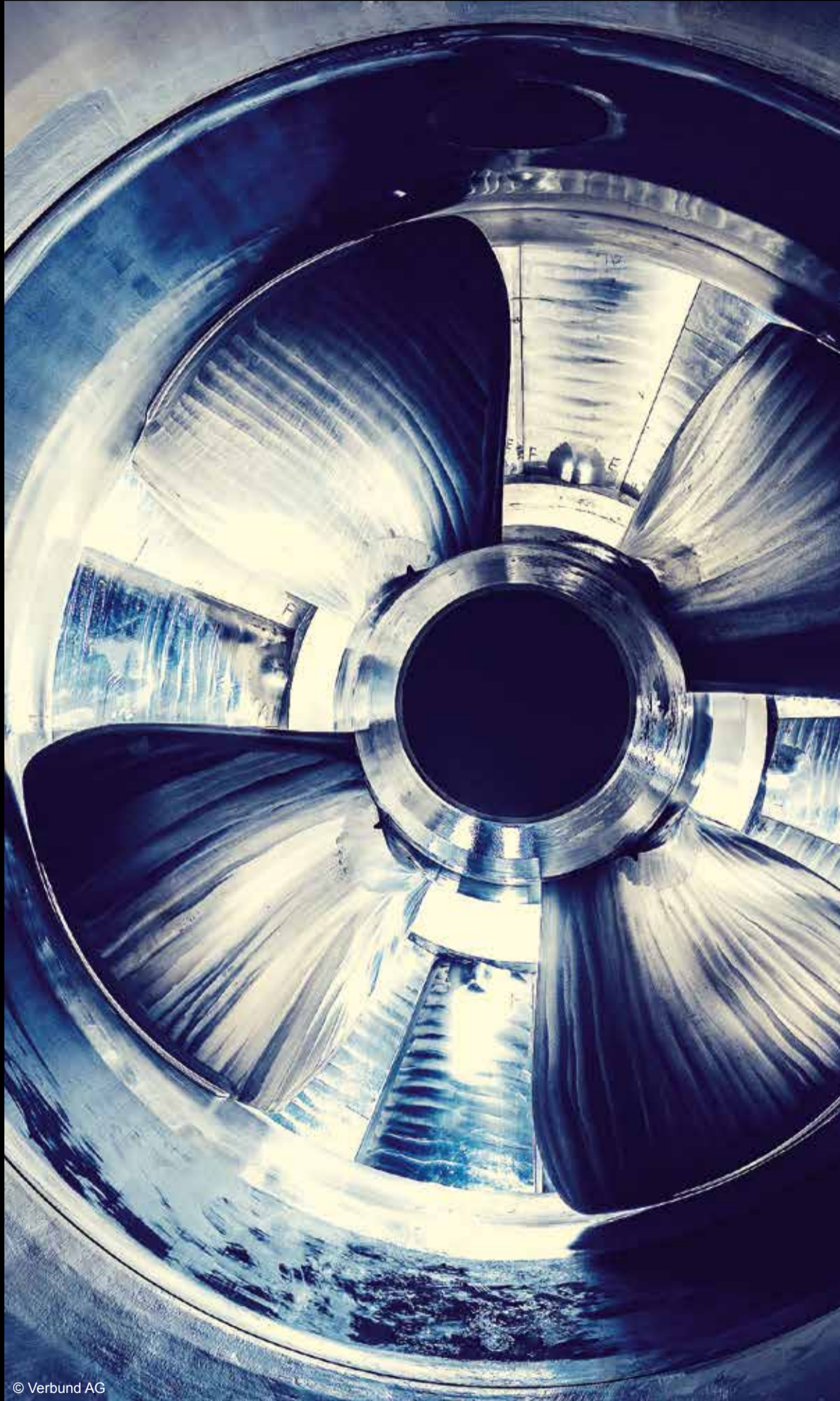
Quality at Seal Maker does not end with product shipment, but is an integral part of our service. A customer is a business partner, whom we support with professional, courteous, and friendly service. True to our basic principles, we respect our clients' regional business domains and support them continuously in achieving their goals.

We support our clients with:

- Consulting on special sealing applications
- Profile development based on special customer designs
- Help with programming of complex profiles
- Training courses with our service technicians
- Start up and maintenance of machines
- FSP-Service
- Support with transport
- Laboratory tests
- Issuing of training certificates
- Software updates free of charge
- Supply of individualized information for customers



Special Industry Solutions



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H04D



H10-12D



H01



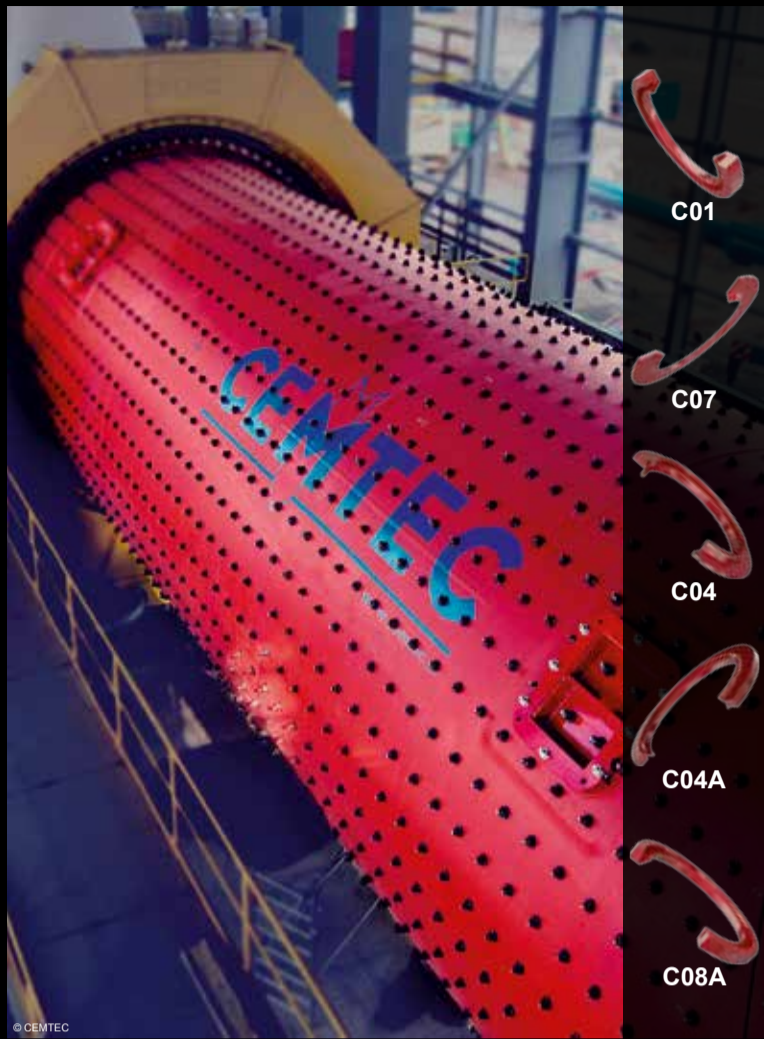
H10-12



H05D

HYDROPOWER

CEMENT INDUSTRY

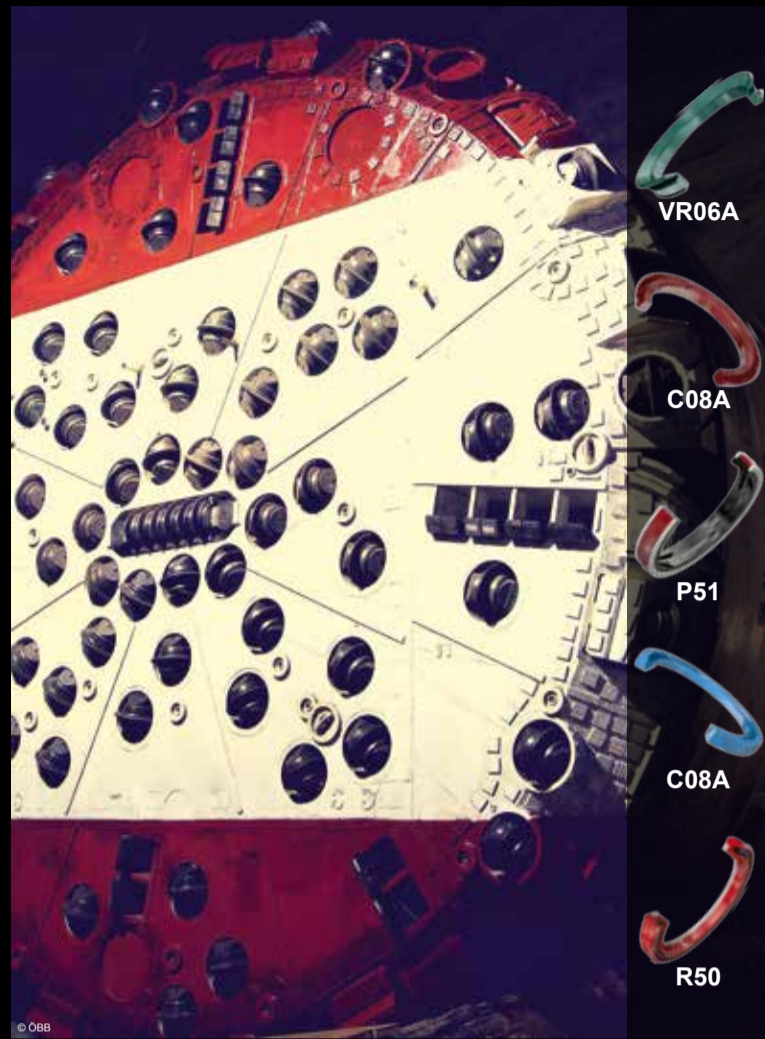


Special Industry Solutions. 2017

特殊行业解决方案

当涉及到特定行业，如水电，采矿或水泥行业，经验和专业知识是必不可缺的。为了满足日益增长的需求，Seal Maker提出了针对性的应用解决方案，您可以在2017年新刊登的“特殊行业解决方案”海报里阅读到相关信息。生动的海报内容包含了适合不同工业领域的密封解决方案。

MINING INDUSTRY



Special Industry Solutions. 2017

Experience and expertise are required when it comes to specific industries such as hydropower, mining or the cement industry. To meet the growing requirements, Seal Maker presents targeted application solutions, which are reflected under the title "Special Industry Solutions" in the poster series 2017. The expressive posters show the appropriate sealing solutions for every industrial field.

性能强大——我们的产品介绍 Powerful: Our brochures

特殊行业解决方案——这些都是特殊的密封解决方案，由于所需的故障安全，所需的性能以及成本的原因，它们的“关键性”是毫无疑问的。用于水电，采矿或水泥行业的水轮机，研磨机，碎石机，隧道挖掘机等，根据型号和设计不同都需要各种各样的密封解决方案。Seal Maker能够提供最符合您需求的密封件。请阅览我们最新的宣传册“特殊行业解决方案”系列，内容包含为您量身定制的密封型材。

更多咨询请联系: sales@seal-maker.com



Special Industry Solutions - these are special sealing solutions, which must be regarded as "critical" due to the required fail-safety, the required performance as well as cost reasons. Turbines, mills, crushers, tunnel boring machines, etc., which are used in the hydropower, mining or cement industries, require a wide variety of sealing solutions, which can vary according to size and design. Seal Maker offers seals that are optimally adapted to the respective application. Take a look in our latest brochure series "Special Industry Solutions" and see for yourself our customized sealing profiles.

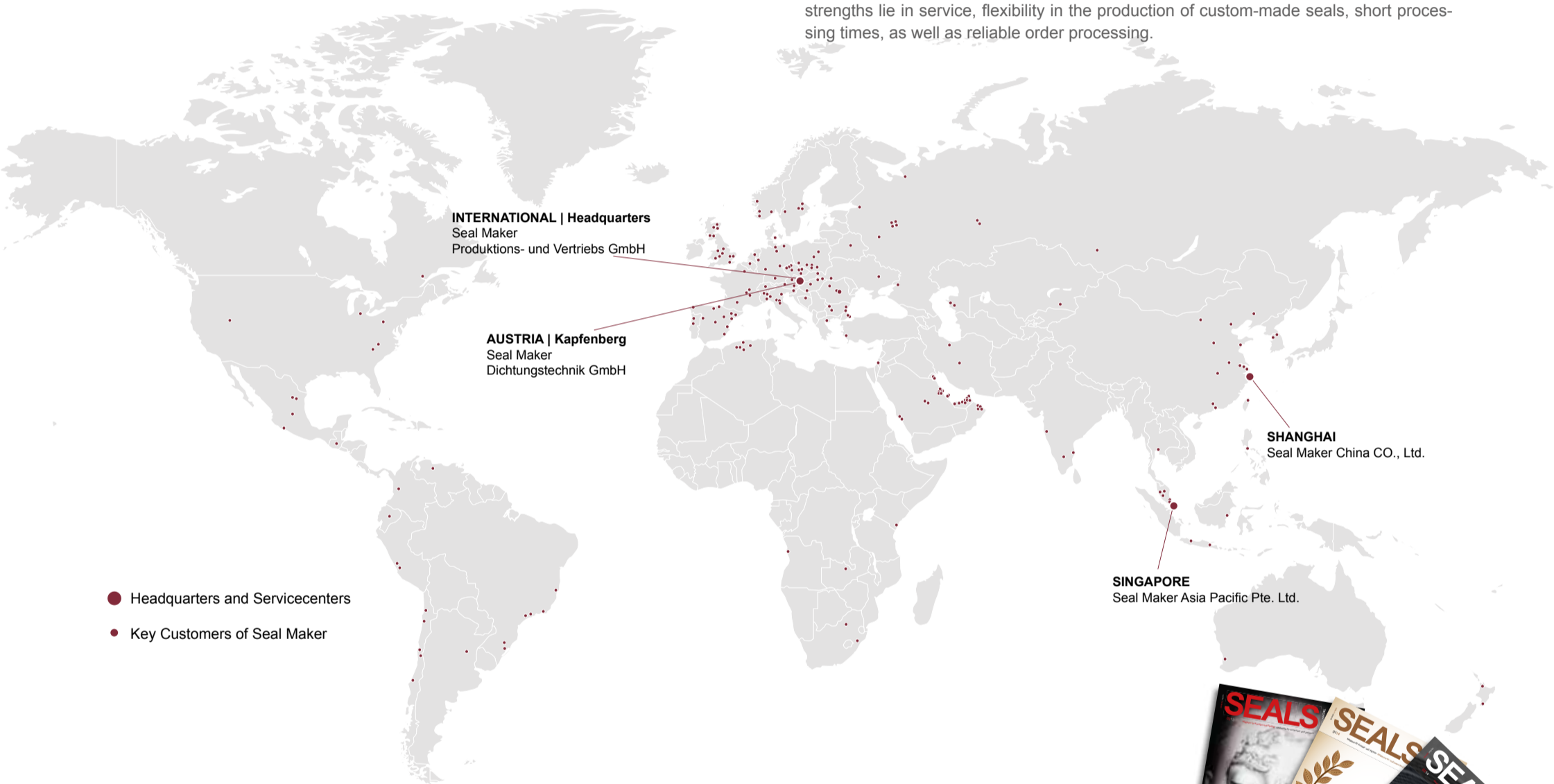
More information can be obtained from the Seal Maker export managers: sales@seal-maker.com



Worldwide Sealing Systems

自1997成立以来，Seal Maker一直在不断壮大，如今我们已经拥有一个遍布全球范围超过65个国家的客户网络平台。除了高品质的制造产品，Seal Maker的优势在于优质的服务，能够灵活得生产并定制密封件，加工时间较短，以及可靠的订单处理流程。

Since its foundation in 1997, Seal Maker has continuously been on a course of expansion and can now rely on a network of satisfied partners and customers in over 65 countries on all continents. Apart from the high quality of the manufactured products, Seal Maker's strengths lie in service, flexibility in the production of custom-made seals, short processing times, as well as reliable order processing.



- Headquarters and Servicecenters
- Key Customers of Seal Maker

More Information, more Service!



请注意！

我们SEAL TECHNOLOGY杂志一年出版三次，会提供您关于Seal Maker的新闻以及精彩集锦

Stay informed!

Our client and partner magazine SEALS TECHNOLOGY is published three times a year and will keep you informed regarding Seal Maker news and highlights.

选择，服务以及附件

新目录提供了SML产品可升级配件和服务的详细概述，包括价格以及配图。

Options, Service & Accessories

The catalog offers a detailed overview of possible upgrades, accessories and services for the SML family, including prices and pictures.

致电：+43 2626 200 85或发送邮件至 office@seal-maker.com，立即免费订阅。

Order now free of charge via +43 2626 200 85 or office@seal-maker.com

