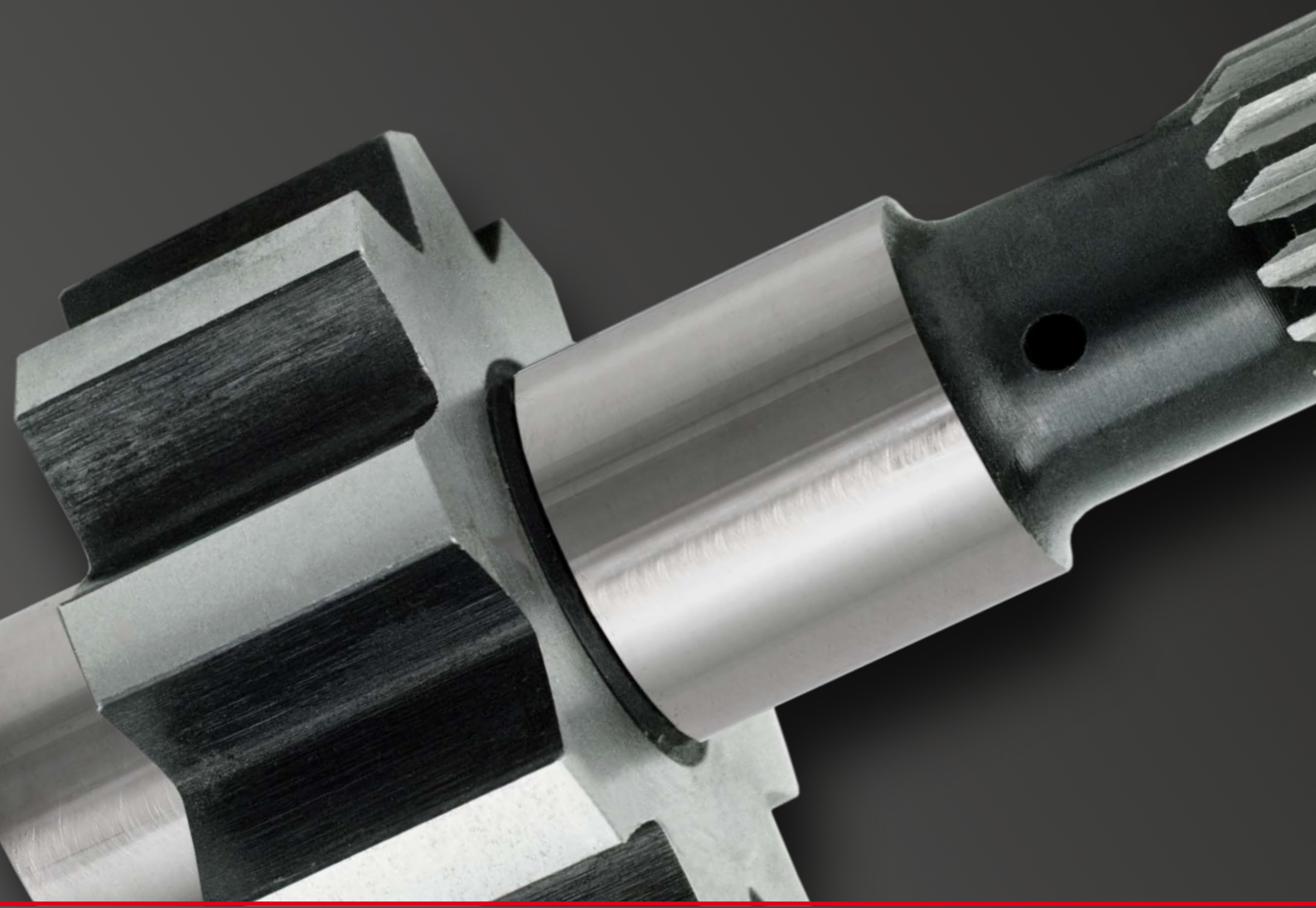
supfina



LCM

“新型的Supfina LeanCostMachine®超精机适用于多种应用加工，具有高性价比，高柔性和价格合理的特点。”

机床的通用性
采用模块化设计
Universal
due to modular construction.

“The new Supfina LeanCostMachine® can handle the most diverse applications at maximum economy. It’s flexible and affordable.”

supfina
LCM

supfina
Surface Finishing Systems
supfina
LCM

新型的Supfina LeanCostMachine®超精机为小型和中型尺寸的工件提供了多种优化的超精方案，兼具高性价比和高柔性化。多样化的模块系统结合当代先进的机床技术，满足了高标准品质的技术要求和工艺可靠性，尤其是在汽车行业和OEM供应商 ；液压和航空工业、发电和医药科技及其他工程应用等领域。

Supfina LeanCostMachine®超精机可以通过预装的模块满足特定的加工任务。无论是固定的，手动调整或数控，可以同时安装最多6套Supfina油石和砂带抛光附件进行刷净和抛光加工。

Supfina's new LeanCostMachine® offers optimal versatility for superfinishing small and medium-size runs of parts — economically and flexibly. Its modular system is equipped with state-of-the-art technology and meets the highest standards for quality and process dependability, especially for the automotive industry and its OEM suppliers; the hydraulics, aerospace, power generation, and medical technology industries; as well as for other engineering applications.

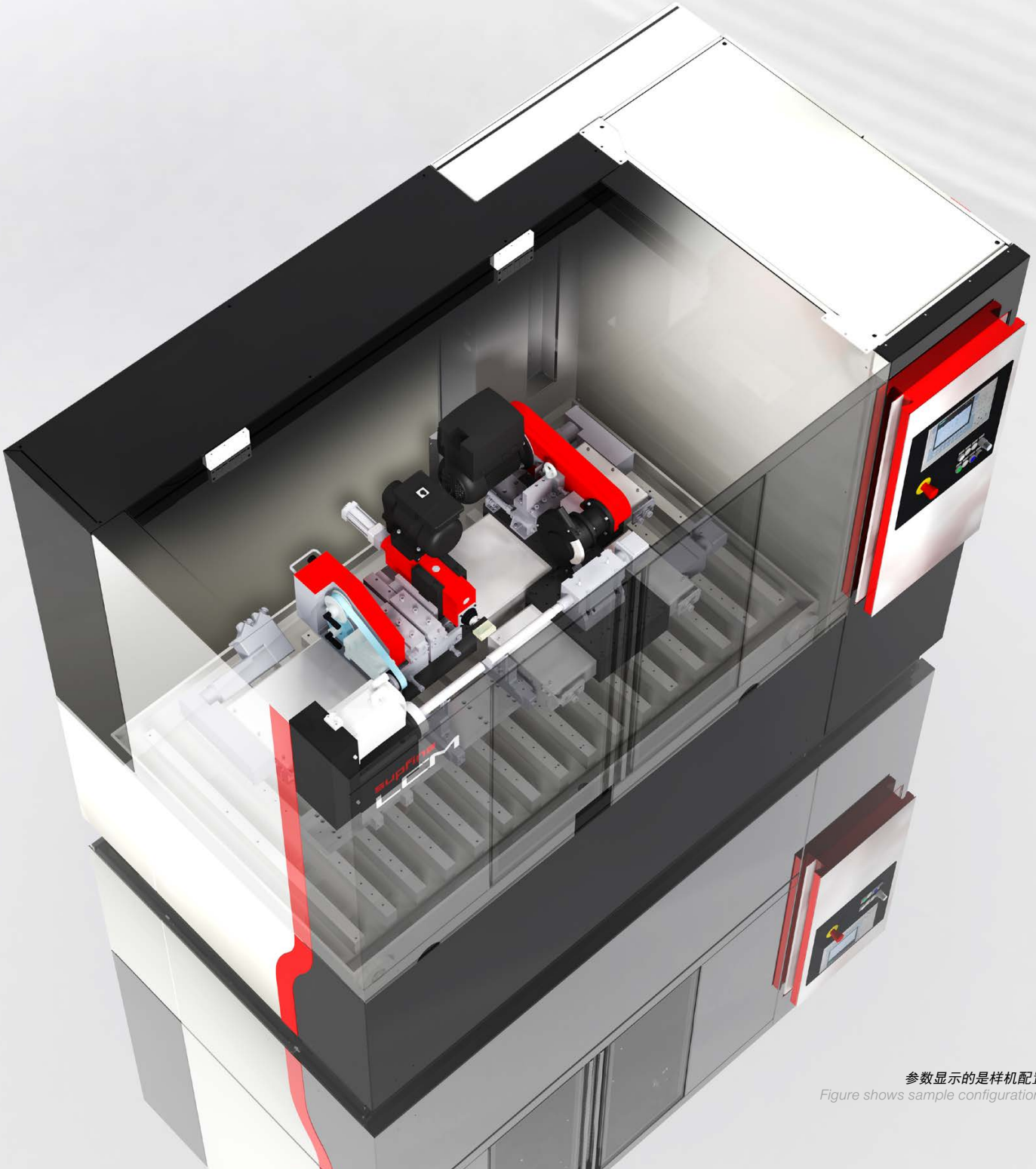
The LeanCostMachine® can be equipped with pre-assembled modules designed to match specific machining tasks. Whether fixed in place, manually adjustable, or NC-controlled, up to six Supfina attachments for stone and tape finishing can be used at the same time as the brushing and polishing attachments.

超精工艺
价格合理，多用途及适应未来的需求
Superfinishing
Affordable, versatile, and fit for the future

supfina LCM

顶尖之间的距离 Distance between centers	40–800 mm
工件直径 Workpiece diameter	250 mm
抛光刀具 Superfinishing tools	抛光砂带或油石；砂轮；毛刷和抛光盘 Superfinishing tape or stone; cup wheel; brushing and polishing disk
抛光附件 Superfinishing attachments	1–6
压缩空气 Compressed air supply	4.5–6.0 bar
上/下料 Loading/Unloading	手动或龙门系统 manual or gantry

外形和功能
理想的接近性
Form and function
Ideal accessibility



参数显示的是样机配置

Figure shows sample configuration.

除加工齿轮轴，平衡轴，凸轮轴和偏心轴之外，Supfina LeanCostMachine®机床还可以加工齿条、密封环平面区域、筒式挺杆和摩擦垫圈。通常来说，任何材质– 从软钢到极硬的陶瓷 – 都可以进行抛光或超精。

每台LeanCostMachine®机床都可进行手动上料或重力输送带，龙门上料或机械手自动上料。因此保证了工件夹持的经济性，无论是单台机床的加工还是整线生产。.

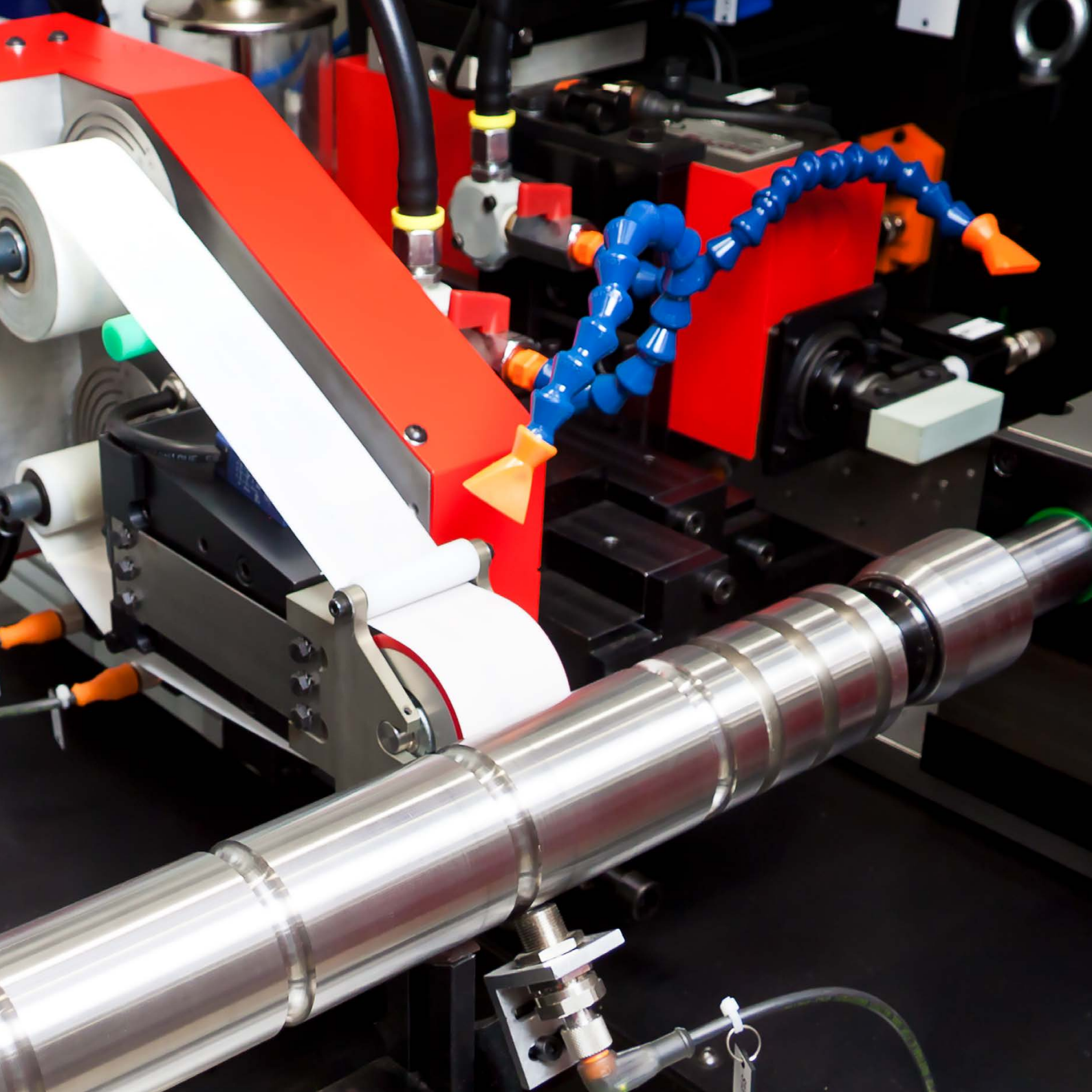
我们可为您解决柔性化和高性价比的工艺方案。

In addition to gear shafts, balancer shafts, camshafts, and eccentric shafts, the LeanCostMachine® can easily machine pinion racks and the flat areas of ring seals, bucket tappets, and friction washers. As a rule, any material — from soft steel to extremely hard ceramic — can be superfinished.

Each LeanCostMachine® can be loaded manually or automatically by gravity feed, gantry feed, or robot load and unload. Thus, economical part-handling is guaranteed, whether it's for one-off manufacturing or for series production.

Ask us how our flexible, affordable solutions can work for you.

超精工艺
小批量加工
Superfinishing
for small runs



- 新型控制面板使操作更简便，工件设定更快捷
- 现代化的过滤设备提高了泵体的功率和表现能力。
- 多达6套Supfina抛光附件可以安装在数控滑板或燕尾式导轨上，也可以永久地安装在床身上。
- 为每种操作工艺提供合适的工件夹持系统。工件换型更快速、性价比高。
- 工件可以手动装夹到可调式夹具。也可以自动定位或通过可选的进给系统在机床顶部，前侧或侧面装夹。这一类自动化集成系统在整条生产线上可发挥快速简便的作用。

- A new comfort control panel allows easier operation and faster workpiece setup.
- A modernized filter cart means increased pump performance.
- As many as six Supfina attachments can be fitted to the NC slide or dovetail guide, or they can be installed permanently on the machine base.
- We provide the exact workpiece-clamping system for every machining process. The changeover is quick and cost-effective.
- Workpieces can be placed manually in adjustable workpiece holders. They also can be positioned automatically or by an optional infeed system from above, from the front, or from the side. Such automated integration into a production line is fast and easy.

细节
主要性能
Facts
Key features

22bCN/EN · www.fischenich.de

Supfina Grieshaber GmbH & Co. KG
Schmelzegrün 7 · 77709 Wolfach / Germany
Phone +49 7834 866-0 · Fax +49 7834 866-200
info@supfina.com · www.supfina.com

Supfina Machine Company, Inc.
181 Circuit Drive · N. Kingstown, RI 02852 / USA
Phone +1 401 294-6600 · Fax +1 401 294-6262
info@supfina.com · www.supfina.com

德国索菲纳有限公司北京代表处
北京市朝阳区东三环北路辛2号迪阳大厦1202B室
电话 +86 10 84536-669 · 传真 +86 10 84536-670
supfina@126.com · www.supfina.cn

Surface Finishing Systems
www.supfina.com

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