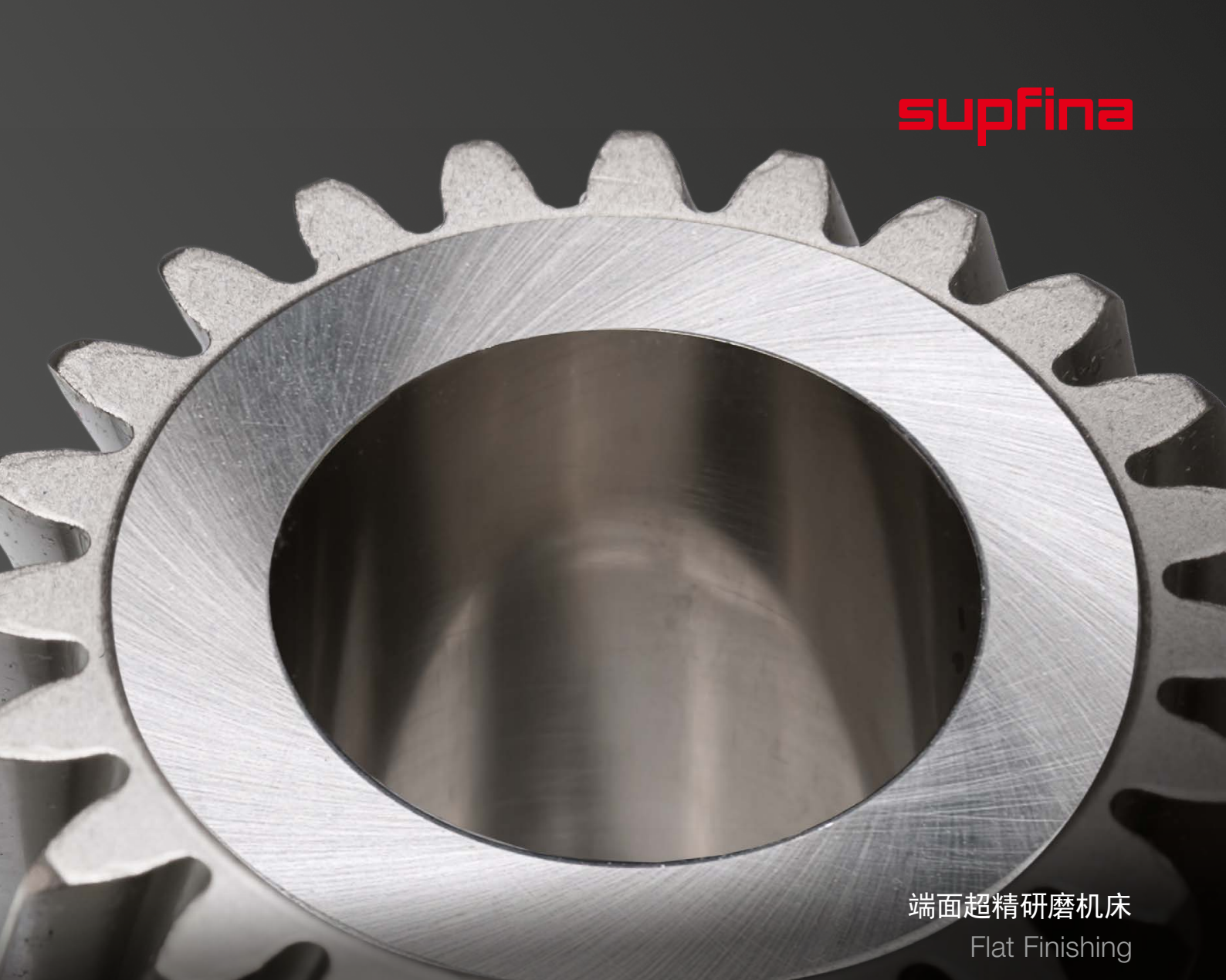




supfina

端面超精研磨机床
Flat Finishing

NANO

“有效的密封实际应用要求端面加工质量完美。最新设计的索菲纳NANO端面超精研磨机床可以达到这种纯粹的完美。”

**经过不断的尝试和测试
现在日趋完美**

Tried and tested
now perfected.

„Perfection in a plane is a requirement for effective sealing applications. The newly designed Nano Flat Finishing Machine from Supfina is perfection at its purest.”







最新设计的德国索菲纳NANO端面超精研磨机床涵盖了非常广泛的端面超精研磨领域的加工范围。

燃油喷射领域、传动系统使用的工件，液压或发动机相关的工件采用十微米范围内的极其严格的公差制造标准，具有最高的可靠性和生产效率。

操作上的简便以及不多的占地面积降低了投资成本，是非常令人信服的产品优势。

The Supfina Nano machine series with a new machine design covers a wide range of flat finish processing needs.

Components from the fields of injection technology, transmission components, hydraulic or engine parts can be produced with the tightest tolerances in the tenth micrometer range and with highest reliability and efficiency.

Ease of use and very low space requirement at low investment costs are the convincing advantages.

端面超精研磨 完美的端面加工工艺 **Flat Finishing** Perfection in a Plane

supfina NANO

工件长度	150mm
Workpiece length	
工件直径	100mm
Workpiece diameter	
加工直径	50mm
Machining diameter	
超精研磨装置	1-2
Superfinishing attachments	
主轴转速	30000
Spindle speed rpm	

外形和功能
优化的机床易接近性

Form and function
Optimized accessibility



索菲纳NANO端面超精研磨机床是为喷油气体密封端面的超精研磨而设计的, 例如支座, 喷油嘴或阀片的精加工; 齿轮类的行星齿轮也可以在此机型上进行精加工。

索菲纳NANO机型可以应用于小批量生产 (如原型机床) 到大型柔性化生产线, 涵盖了全部的应用范围, 向用户提供最高的可靠性和生产效率。

根据用户的具体要求, 可以在单台机床上整合不同的工件卡盘系统。优化的易接近性使用户可以非常方便的更换工装, 减少换型时间, 同时还可以确保优化的生产加工公差。

The Supfina Nano has been designed for flat finishing of sealing surfaces of injection components such as holding elements, nozzles or valve plates. Planetary gears are examples of the kinds of gear components that can be processed with this tool.

The Supfina Nano is suitable for everything from small batch production (e.g. the creation of prototypes) to series production in flexible production lines, covering the entire range of applications and always offering optimal reliability and efficiency.

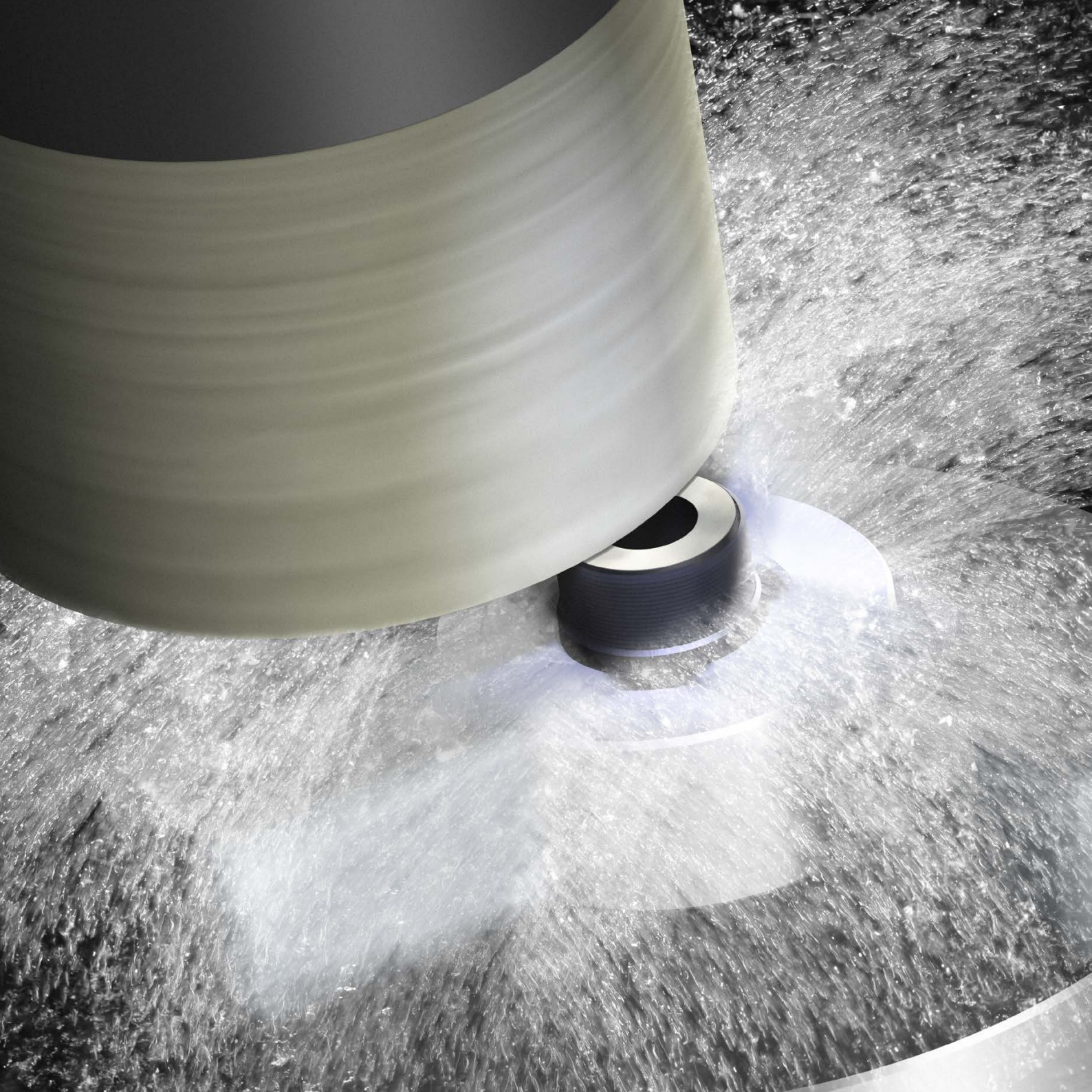
Depending on the intended use, it is possible to integrate a number of different clamping systems into a single machine. Optimal accessibility allows tools to be changed quickly, minimizing changeover time but still ensuring optimal production tolerances.

端面超精研磨 平面和密封表面的加工技术

Flat Finishing

Machining of flat and sealing surfaces





- 自动调节杯型砂轮中心线
- 简易的刀具换型
- 适用于传统型或超级耐磨材质的刀具（CBN / 金刚石）
- 新增刀具的有效调整
- 万能上下料机构：手动，配上料台或机械手上料
- 优化的易接近性
- 可移动和柔性化的在线测量系统
- 适用于优化和恒定的加工结果的现代化加工工艺
- 球面加工的角度调节

- Automatic adjustment of the cup wheel center line
- Simple tool change
- Suitable for use with conventional and super abrasive tools (CBN/diamond)
- Efficient adjustment for new tools
- Universal loading and unloading:
manually, with a portal loader or robot systems
- Optimal accessibility
- Moveable and flexible in-process measuring system
- Modern process adjustment for optimal and
consistent quality results
- Angle adjustment for spherical processing

细节 主要特性

Facts Key Features



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