



**STI  
Group**

The precision company

# STI Precision Machining (Changshu) Co., Ltd.

施泰尔精密机械(常熟)有限公司

The STI Production Facility in Changshu, Jiangsu Province



# Leading Surface Technology

"Surfaced by STI" is synonymous with high-end surface technology tailored to making industrial processes more economical, functional and successful. As a worldwide market leader STI Group (STI) has developed a broad range of high-end surface technologies, infrastructures and services. Outstanding know-how, sound knowledge of specific requirements and targeted R&D enable STI to utilise the potential of diverse materials for high-performance, individually optimized surface solutions.

As the industry's solutions partner, STI has bundled its know-how according to business areas. Leading customers in the **paper, print, film, foil, textile, food, automotive** and **aeronautic** industries, in **marine propulsion**, in **defense technology** and in **general machine construction** count on STI's solutions competency.

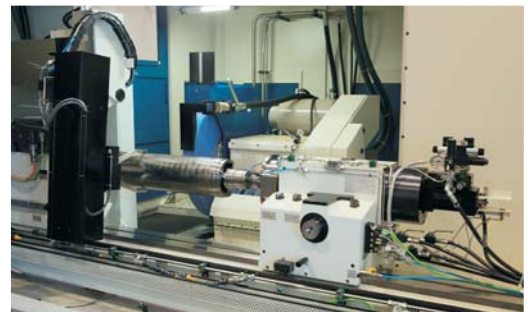


Whether demanding industries require **small, medium-size** or **large**, rotationally symmetric or geometrically complex components: STI offers the necessary infrastructures to reproducibly treat them worldwide. As a market and technology leader, STI sets the **highest standards in quality, precision, safety and environment**. STI Group, a division of the listed AFG Arbonia-Forster-Holding AG, Switzerland. The company thinks globally and is still always onsite locally, at a location near you.

## 表面处理技术的领导者

“施泰尔表面处理技术”是高端表面处理技术的代名词，根据客户需求使工艺更加经济、更具功能性和更成功。作为全球表面处理技术的领导者，施泰尔开发了一系列用途广泛的高端表面处理技术、设备和服务。卓越的专利技术，对客户要求的透彻理解和有针对性的研发使施泰尔能充分利用各种材料的潜力，制定个性化的最优表面处理方案，从而提高产品性能。

作为行业解决方案的合作伙伴，施泰尔将自己的专利技术与不同领域的需求紧密联系在一起，其表面处理解决方案遍及各个行业，例如造纸、印刷、塑料薄膜、金属箔片、纺织、食品、汽车、航空、船舶发动机、国防技术、通用机械制造等。



无论客户需求的是**小型、中型或大型**的构件，是旋转对称构件或是复杂几何形状的构件，施泰尔都能在全球范围提供相应的表面处理解决方案。作为表面处理市场和技术的引领者，施泰尔在**产品质量、精度、环保和安全生产**等方面都在行业内树立了**最高标准**。施泰尔表面技术部作为瑞士上市公司艾府杰集团旗下的一大分部，以纵观全球的视角，为客户提供本土化的服务。



## STI Precision Machining Changshu

## 施泰尔精密机械 常熟

By expanding to Changshu, China, STI focuses on the high quality of the greater Shanghai region as a location. STI is therefore taking an important step towards entering one of surface technology segment's biggest growth markets and further extending its leading market position.

### High-performance surfaces

With the STI surface center in Changshu, STI has built an electroplating and mechanical production site on an area spanning roughly 4,300 m<sup>2</sup>. Equipped with laboratory facilities, state-of-the-art surface treatment and processing lines for cylinders and sieve baskets – the STI surface center Changshu offers precisely specified solutions for the printing, navigation and papers industries as well as for other markets.

### Best Available Technology

The modern infrastructure, coupled with the successful technology transfer within the STI Group, facilitates the design of competitive solutions for customers. With especially designed collection tanks, coated collection basins and other measures, STI once again sets the standards in technology, environment and safety.

在中国常熟建立的生产基地，使施泰尔能将其拥有的高品质带入大上海经济圈。因此，施泰尔向全球表面处理市场份额增长最快的市场之一出了这具有重要意义的一步，进一步提升其市场领导地位。

### 高效的表面处理技术

随着施泰尔常熟表面处理技术中心的成立，施泰尔已在常熟建成一个占地约4300平米的表面处理与机械加工工厂。工厂初期配备实验室、最先进的表面处理和加工生产线，用于生产滚筒和筛筐，为印刷、造船、造纸和其它行业提供专业的解决方案及产品服务。

### 最好的现有技术

先进的工艺装备、顶级的加工机床和测量设备，加上施泰尔集团内部成功的技术转移，使施泰尔能为客户提供出具有竞争力的解决方案。经特殊涂层处理的废水收集池、特殊设计的废水处理技术和其他环保措施，使施泰尔再次在技术、环保和安全方面树立了行业新标杆。

# Treatments & Capacities

The STI Surface Centre in Changshu has been put into operation in the autumn of 2011. STI offers comprehensive customer service, from customized R&D to surface treatments and machining processes, through to quality assurance.

Building Data	
Building capacity	4'300 m <sup>2</sup>
Plating shop	1'500 m <sup>2</sup>
Machining	1'300 m <sup>2</sup>
Laboratory	40 m <sup>2</sup>
Logistics	680 m <sup>2</sup>

## Technology

- Technical hard chrome plating
- Machining processes:
  - multifunctional complete machining (milling, turning, boring)
  - grinding
  - polishing

## Applications:

Cylinders (printing industry), screen baskets (paper industry), other components on demand.

Treatment	Components up to Diameter x Length x Weight
Hard chrome plating	1,400 x 3,200 mm x 5,000 kg
Circular precision grinding	650 x 3,000 mm x 2,500 kg
Surface/ARC grinding	650 x 3,000 mm x 2,500 kg
CNC machining	840 x 3,000 mm x 2,500 kg

# 表面处理及加工能力

施泰尔常熟表面处理技术中心已于2011年秋投入运行。从个性化的定制研发到表面处理和机械加工，直到产品的质量保障体系，施泰尔将为客户提供全方位的专业服务。

厂房参数	
占地面积	4'300 m <sup>2</sup>
电镀车间	1'500 m <sup>2</sup>
机械加工车间	1'300 m <sup>2</sup>
实验室	40 m <sup>2</sup>
物流区	680 m <sup>2</sup>

## 工艺技术

- 电镀功能性硬铬
- 精密机械加工：
  - 多工位CNC切削加工（铣、车、钻）
  - 精密磨削
  - 电解抛光

## 产品及应用领域

滚筒（印刷机制造），筛筐（造纸机械）以及其它各种需求的零部件。

表面处理工艺	可加工零件最大尺度 直径 x 长度 x 重量
电镀硬铬	1,400 x 3,200 mm x 5,000 kg
外圆精密磨削	650 x 3,000 mm x 2,500 kg
平面/弧面精密磨削	650 x 3,000 mm x 2,500 kg
CNC切削加工	840 x 3,000 mm x 2,500 kg

**STI Group** Surface solutions worldwide.



# STI Group Capacity

## Electroplating

- More than 400 baths
- Part sizes up to 12 m length, 4.5 m Ø, 64 t
- Production area 60,000 m<sup>2</sup>

## Machining

- more than 100 Machines
- Part sizes up to 27 m length, 6 m Ø, 64 t
- Production area 17,000 m<sup>2</sup>

## Quality and Precision

- Concentricity, cylindricity < 0.001 µm
- Mirror-finished surfaces R<sub>max</sub> < 0.1 µm
- Modulated surface textures R<sub>z</sub> up to 120 µm

## STI Group Surface Treatments

- Hard chrome plating
- Nanochrome
- Thermal spray coating
- Nickel plating
- Electroless nickel
- Dry Coating
- Cadmium plating
- Rilsan coating
- White zinc plating
- Anodizing
- etc.

# 施泰尔集团 加工能力

## 电镀

- 超过400个电镀槽
- 加工部件（最大尺寸）长12米，直径4.5米，重64吨
- 生产面积 60,000 m<sup>2</sup>

## 机械加工车间

- 超过100台机器
- 加工部件（最大尺寸）长27米，直径6米，重64吨
- 生产面积 17,000 m<sup>2</sup>

## 质量和精度

- 同心度，圆柱度 0.001 µm
- 抛光表面 R<sub>max</sub> < 0.1 µm
- 调整后表面纹理（最大） R<sub>z</sub> 120 µm

## 施泰尔表面处理技术

- 硬铬电镀
- 纳米铬电镀
- 热喷涂
- 镀镍
- 化学镀镍
- 热喷涂
- 镀镉
- 丽绚喷涂
- 白色镀锌
- 氧化
- 其他

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