

熔喷生产设备

MELT BLOWN PRODUCTION EQUIPMENT

可根据客户需求进行定制

Customizable to customer needs

- 可设计, 制造整套熔喷设备
- 可对应纳米纤维·混纤·芯鞘等
- 可对应以下树脂原料
 P P (聚丙烯), P E (聚乙烯), P E T (聚对苯二甲酸乙二醇酯), P B T (聚对苯二甲酸丁二醇酯),
 P A 6 (聚酰胺 6), P L A (聚乳酸) T P U (热塑性聚氨酯) 等
 ※特殊原料, 添加剂等, 以及最终产品非无纺布的情况, 请来函咨询。

- Design and manufacture melt blown equipment unit
- Meeting the needs of nanofibers, combined fibers, and sheath and core
- Compatible with various polymers as below
 PP(Polypropylene), PE(Polyethylene), PET(Polyethylene terephthalate),
 PBT(Polybutylene terephthalate), PA6(Polyamide6), PLA(Polylactic acid),
 TPU(Thermoplastic Polyurethane) and others
 ※Please feel free to contact us for products other than non-woven fabric,
 such as special polymers(materials) and polymer with additives.

**Japan
Quality**

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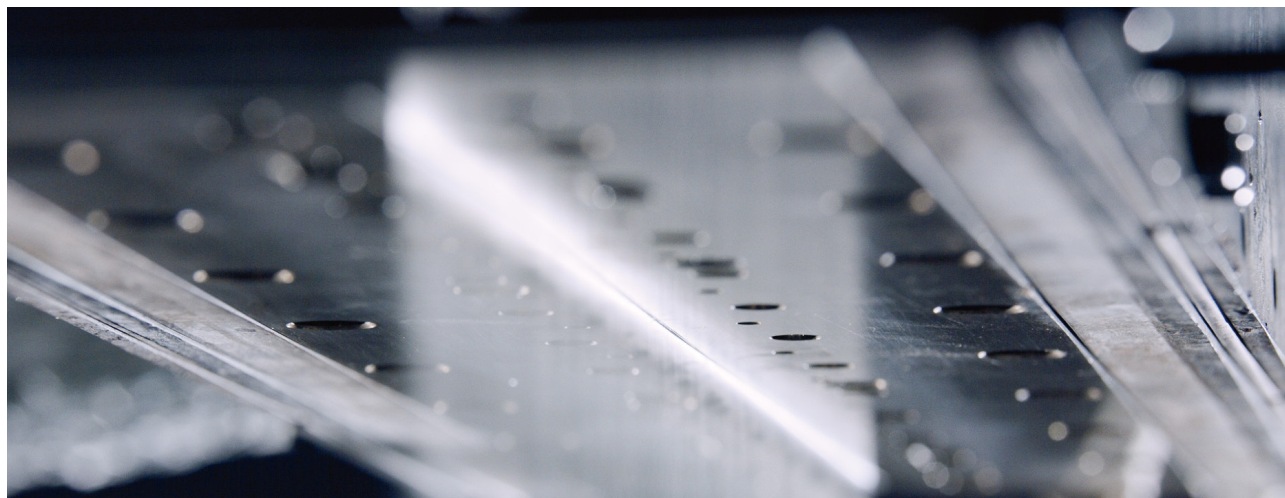
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熔喷无纺布生产试验

NON-WOVEN FABRIC MANUFACTURING TEST

支持产品开发和设备引进前的验证

Supportable to products development and validation before installation of equipment

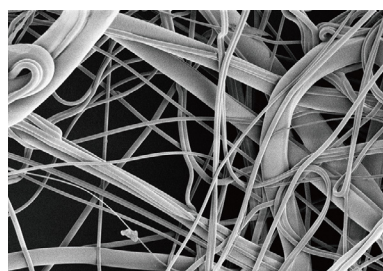


熔喷无纺布的纤维扩大照片

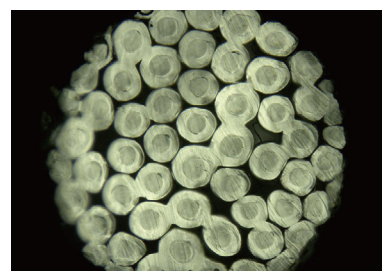
The photo of Melt Blown Non woven fiber under the microscope.



纳米纤维
Nanofibers



混纤(粗 / 细)
Combined fibers(Thick / Fine)



芯鞘纤维
Sheath and Core fibers

通过大小3台设备, 可对应纳米纤维, 混纤, 芯鞘等复合熔喷纺丝。

We can provide testing support of nanofibers, combined fibers, and sheath and core by 3 different type of Melt blown equipment in-house.



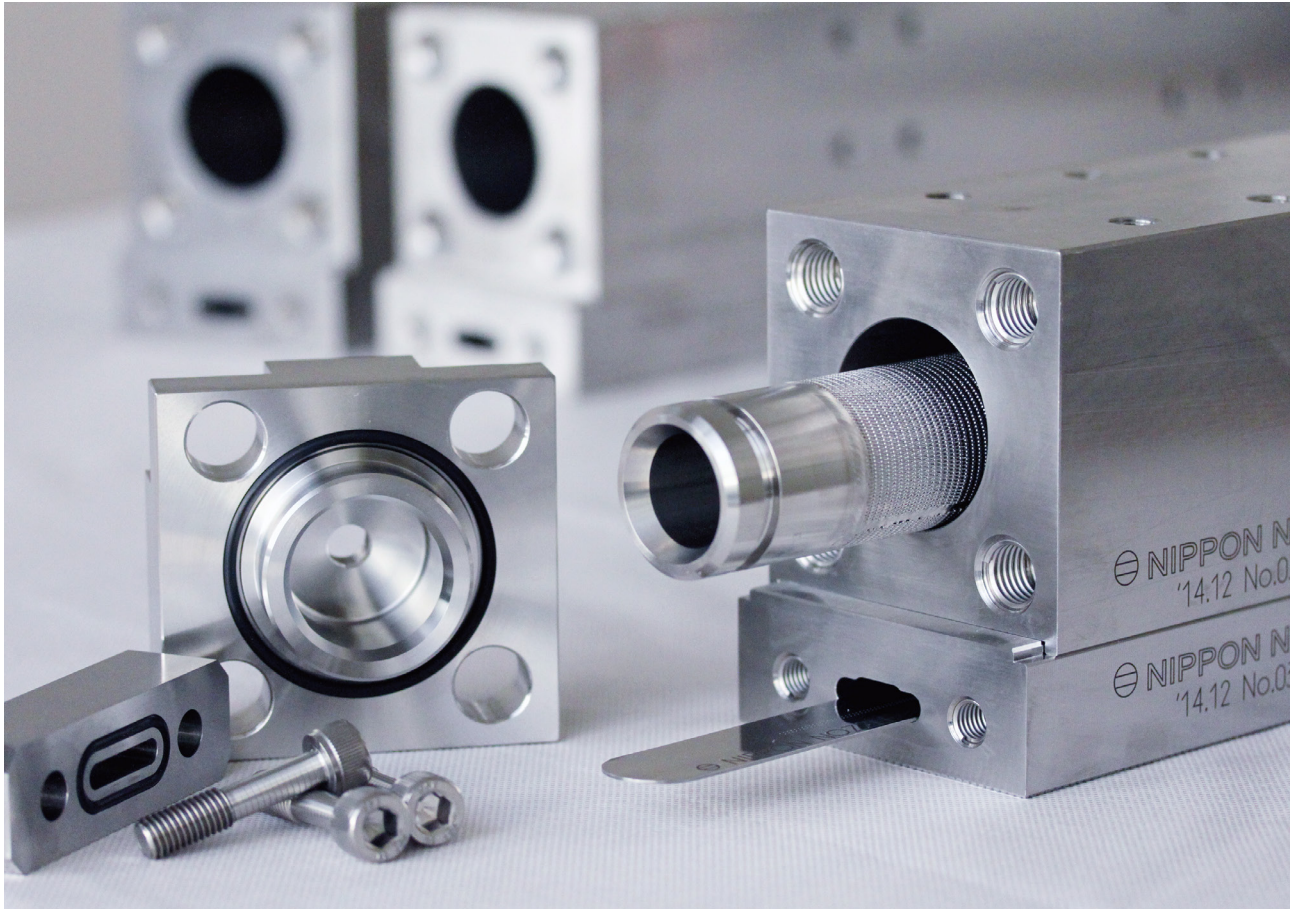
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水刺头 SPUNLACE INJECTOR

在整个宽度上可实现出色的水流分配性能
Best performance, even water distribution
by Nippon designed Injectors.

- 内压密封结构的简单设计
- 可简单更换喷丝板及过滤芯
- 通过精巧的设计,可减少维护时间,降低成本
- Perfect sealing by internal pressure.
- Design to quick removal jetstrip and filter parts
- Reduce cost by compact and easy to maintenance structure



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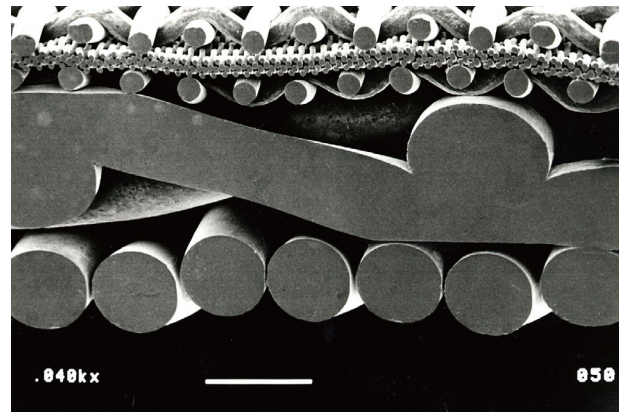
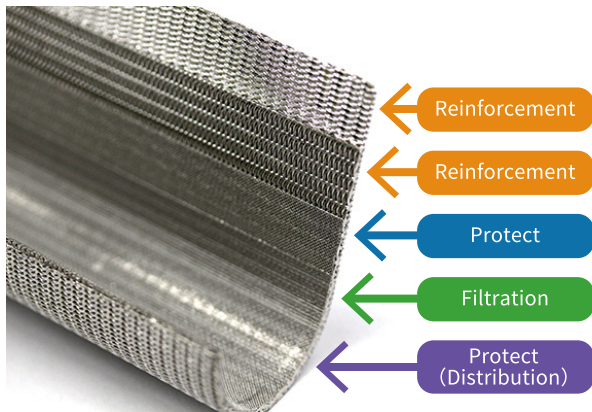
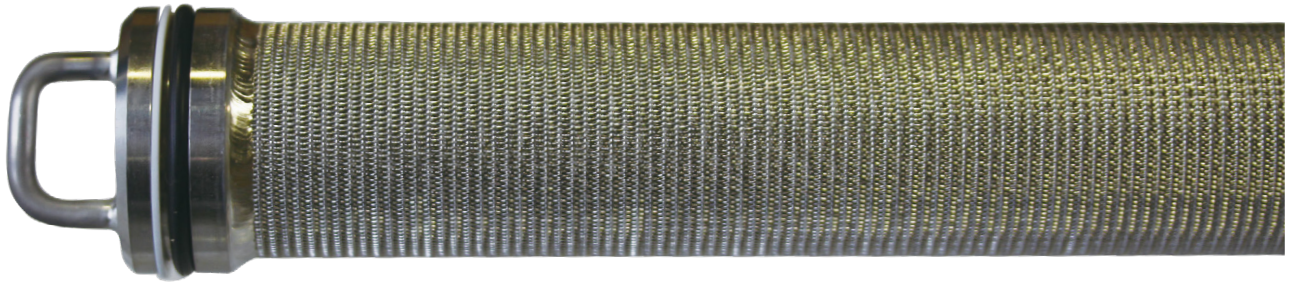
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过滤芯 SPUNLACE CARTRIDGE FILTER



通过耐用高效的过滤芯降低生产成本
Fine durability filter,
bring good advantage on your production.

- 通过 5 层筛网“烧结”，实现无错位的高精度过滤
- 通过保护层·过滤层·加固层的 3 种组合，实现高耐久性
- 通过定期清洗，可反复使用，降低成本
- 通过 5 层滤网，有助于有效且均匀地分配水流
- Combine by "Sintering" 5-layer mesh to made high precision filtration
- Achieve product's durability by three function layers: protection, filtration and reinforcement.
- Could be repeatedly use by proper and regular cleaning.
- 5 layers filters mesh make positive effect on distribution of water flow.



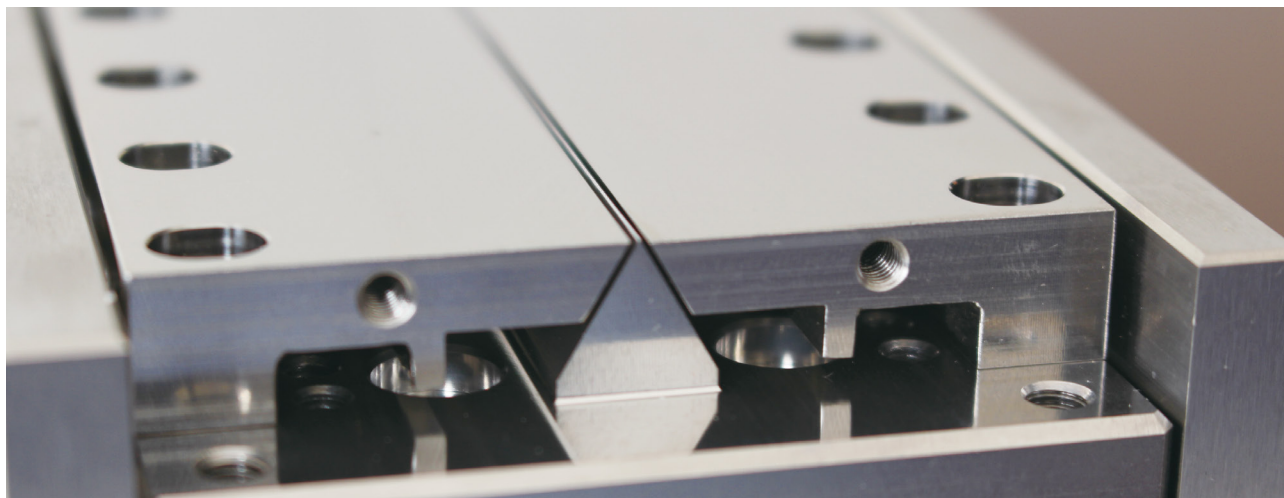
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熔喷喷丝板

MELT BLOWN SPINNERET

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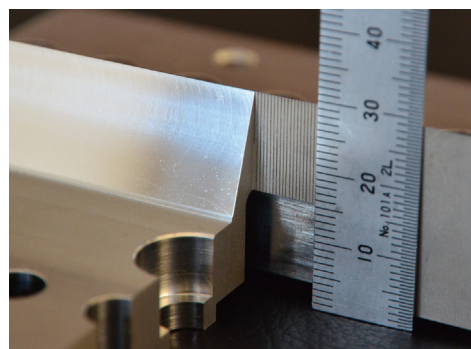
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可实现类似纳米纤维等高长径比的孔加工

Realization of high aspect ratio hole processing
to Nano size fibers

- 喷丝板制造商独有的高精度孔加工
- 可实现高长径比(30~100倍)的加工
- 可实现最小孔径 $\Phi 0.08\text{mm}$ 的加工
- 通过窄间距设计和制造可提高产量
- 可根据树脂原料的特性提案孔径及规格
- 从风刀的角度到孔径·孔长可定制
- 可灵活利用自有 MB 试验线的经验·业绩进行设计
- 完善的维修服务(有偿服务)

- High precision processing that only spinneret manufacturer specially has
- Realization of high aspect ratio(30~100times)
- Realization of the small-diameter hole $\Phi 0.08\text{mm}$
- The production capacity can be increased by narrow pitch designed and manufacturing
- Possible to propose hole diameters and specifications that match the characteristics of the polymer
- Customizable from air lip angle to hole diameters, hole length
- Utilize the experience and achievements of an in-house MB tester for design
- Maintenance service and Repair service(Compensation for a fee)



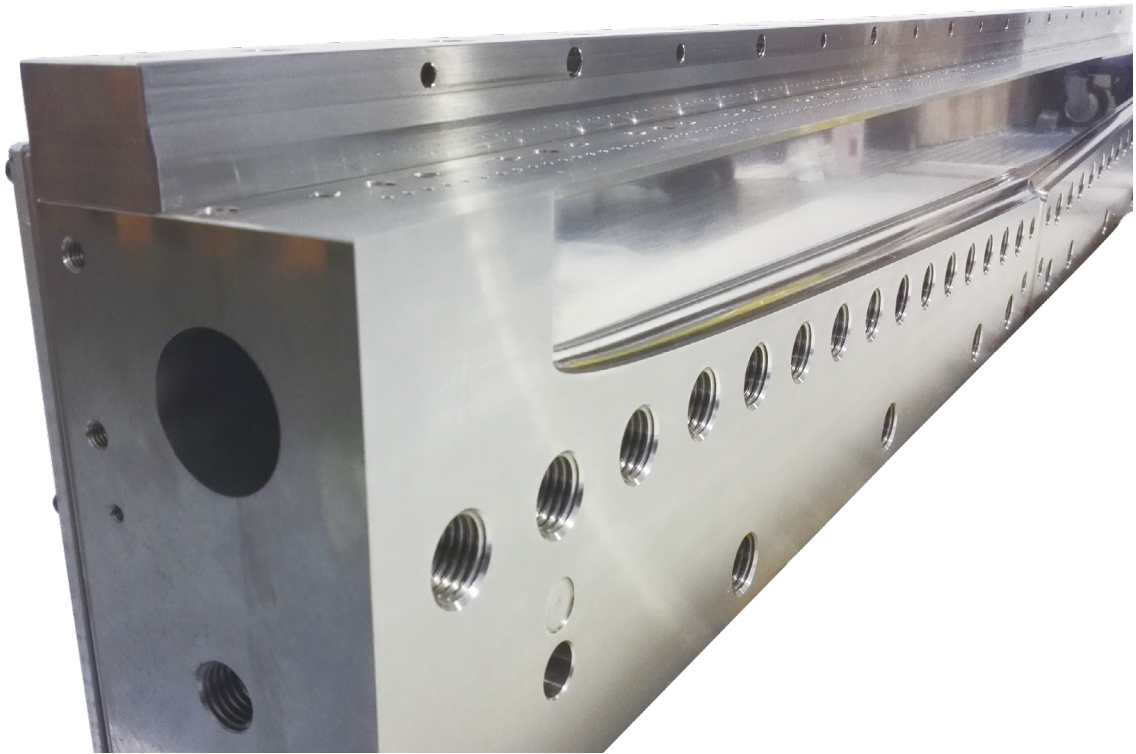
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模头

HIGH PERFORMANCE T-DIE

可根据树脂原料的特性进行各种提案

Possible to propose specifications
that match the characteristics of the polymer

- 喷丝板制造商独有的高精度孔加工
- 聚物流道上的表面光洁度精加工
- 通过独自的设计理念来实现精巧设计
- 可灵活利用自有 MB 试验线的经验·业绩进行设计
- 可通过流体分析模拟聚物流动(有偿服务)

- High precision processing that only spinneret manufacturer specially has
- Smooth surface finish on polymer flow passage
- Compact structure designed by own tools
- Utilize the experience and achievements of an in-house MB tester for design
- Possible to simulate of polymer flow on flow analysis software(Compensation for a fee)



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水针板 SPUNLACE JETSTRIPS



实现水流的高均匀性和高直进性

Achieves high quality, straight and uniform water flow.

- 提供世界顶级份额的高性能水针板
- 在品质·价格·交货期方面,追求完美
- 产生长柱状(无湍流的水流)水流的同时,可形成高缠绕性,对产品的加工损耗,电力,水量的节能起到改善效果。
- Has the world's top market share by providing high performance Jet strips
- High quality, short delivery and reasonable price
- With longer columnar of water flow (without turbulence), it brings a positive impact on high entanglement performance and reduces processing loss at your production site. The saving of energy and water consumption can also be expected.



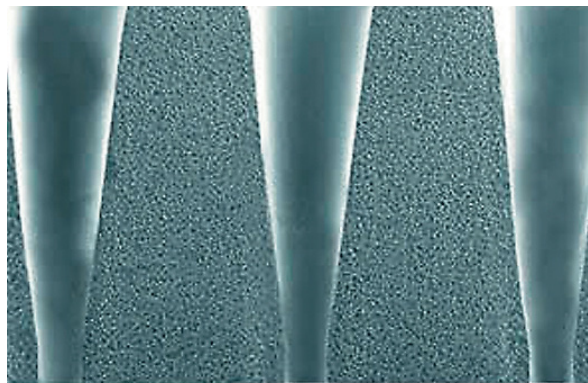
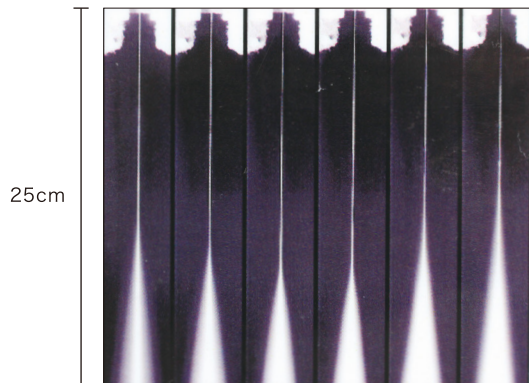
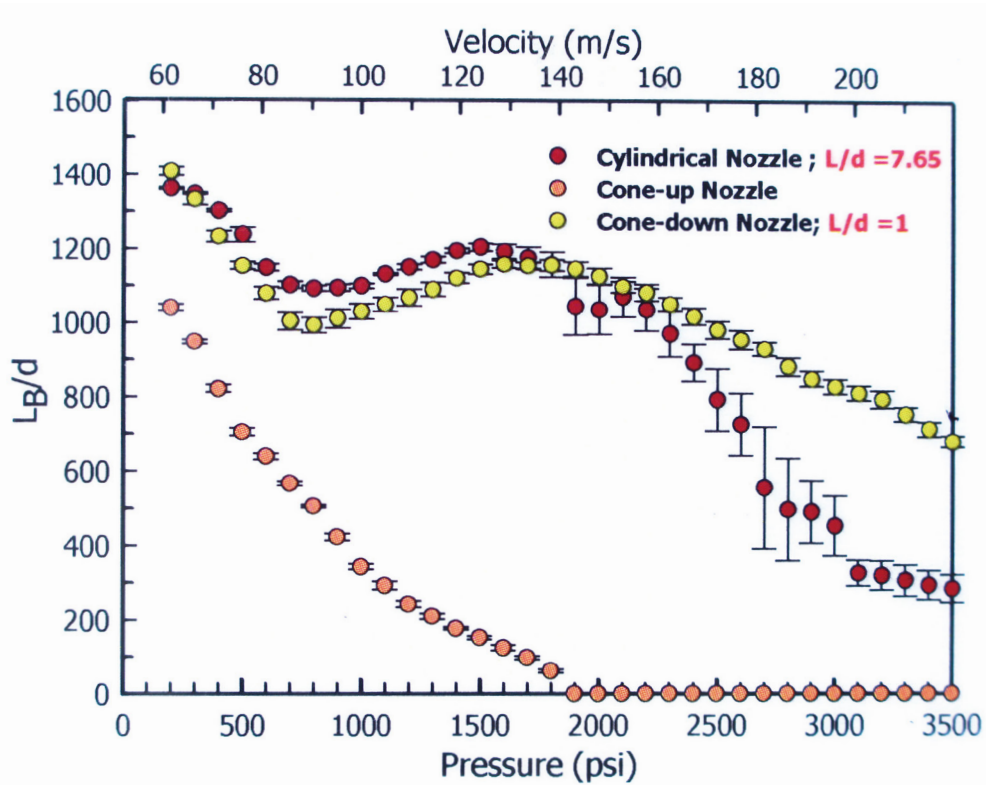
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- 材质 / SUS316、SUS631、NN50、NN01 etc.
- 孔形状 / 圆孔
- 全长 / 7000mm(加工可能范围)
- 生产品目 / 纸巾、电子擦拭布、化妆用品、手术袍、人工皮革、面膜等

- Materials / SUS316、SUS631、NN50、NN01 etc.
- Hole shape / Round hole
- Total length / 7000mm(Length of hole area)
- Product Application / Wet wipes, Disposable paper wipes, cosmetics, surgical gown, artificial leather, face mask, etc.

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纺丝喷丝板

SPINNERETS

提供世界最高品质的各种纺丝用喷丝板
 Providing all kinds of spinning spinnerets
 with best quality in the world!



湿法喷丝板

通过我们独特的加工技术挑战产品的极限。
 最小孔径 $\Phi 0.016$ 加工可能。
 单个喷丝板最大孔数 10 万孔以上加工可能。

Wet Spinnerets

Challenge the limitation of the products-by our unique processing technology. We achieve to processed minimum $\Phi 0.016$ size of holes. In one spinneret allows maximum 100,000 holes or even more.



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干法喷丝板

即使对孔加工要求最高的干法喷丝板，也能安定供给。
 对于追求差异化产品的开发，会提供相应的技术支持。

Dry Spinnerets

Supply spinnerets with the stable and highest quality of holes. We cooperate with clients in research and develop new spinnerets to make differentiated products.



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干湿法喷丝板

通过高超的加工精度来实现孔品质的均匀性。通过孔的均匀性最低限度抑制纤度的不稳定性，进而支持纤维的高强度，高弹性。

Air-Gap Spinnerets

Achieves uniform hole and high quality by accuracy of processing. The uniformity fineness of holes can minimize unevenness on fiber; this achievement makes advantage, especially on high strength and high elasticity of product.



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熔融喷丝板

可提供高耐腐蚀性功能原材料。
 可进行超镜面孔边缘加工，以提高纤维的剥离性。

Melt Spinnerets

We provided spinneret in functional materials such as high corrosion resistance etc. It's possible to give a sharp edge around hole by super mirror surface processing which made advantage on thread separation from the spinnerets.



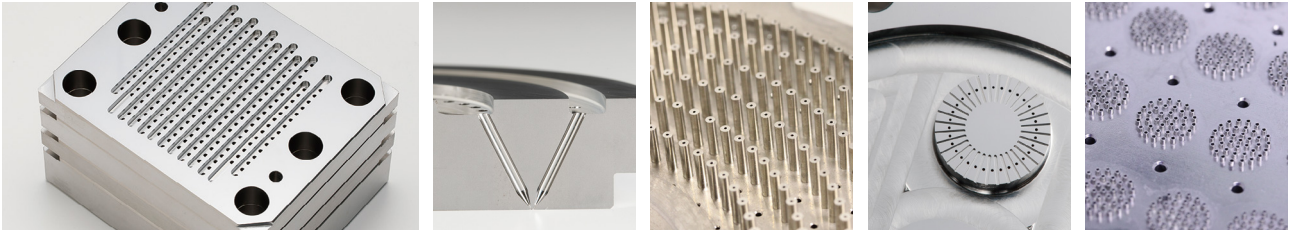
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复合纺丝用喷丝板 CONJUGATE SPINNERETS

配合各种复合功能性纤维的开发

Manufacture and design conjugate spinning parts depended on your need

- 类似海岛·桔瓣等超细纤维的设计·制造
- 类似并列·芯鞘等功能性纤维的设计·制造
- 可进行异型孔同复合纺组合的设计·制造
- Ultra-fine micro fiber use Sea-island / Segmented-Pie Spinneret.
- Functional fiber use Side by side / Sheath core Spinneret.
- It's possible to Combine different shape of hole in conjugate spinning.



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Japan Quality

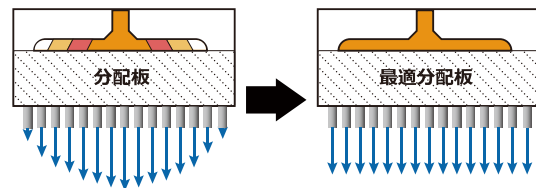
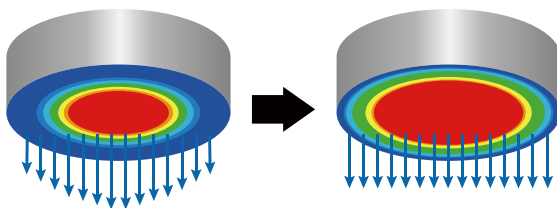
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纺丝用喷丝板组件设计·制造 DESIGN OF CONJUGATE SPINNING PACK

通过抑制断丝, 纤度不均, 提高产品的品质和改善生产性

To minimize yarn breakage, improve the products' uniformity and quality

- 通过增加孔数, 改变排列的再设计, 来实现安定纺丝, 增加产量
- By increase hole amount, re-design hole arrangement to give a stable and maximum production capacity.
- 通过流道设计, 温度控制的合理话设计, 进而提高清洗频度时间, 改善生产性
- By design the flow distribution and temperature control in the spinning pack, improve the pack life and extend cleaning cycle.



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