

自1996年以来一直专注于塑料管道设备的生产和研发
Focusing on Plastic Pipe Machinery Since 1996

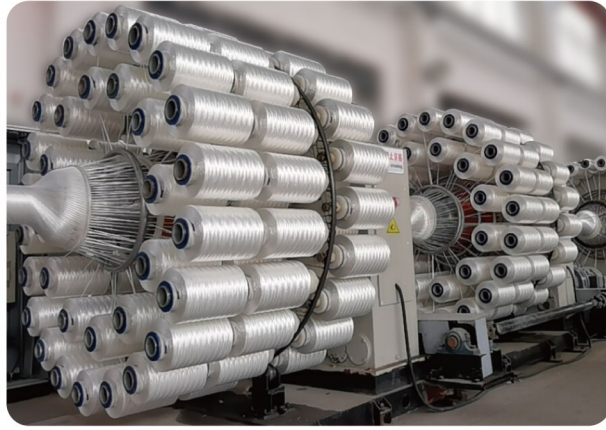


增强热塑性塑料管(RTP)生产线

Reinforced Thermoplastic Pipe (RTP/TCP) Production Line



纤维带缠绕式
Fiber Tape Winding

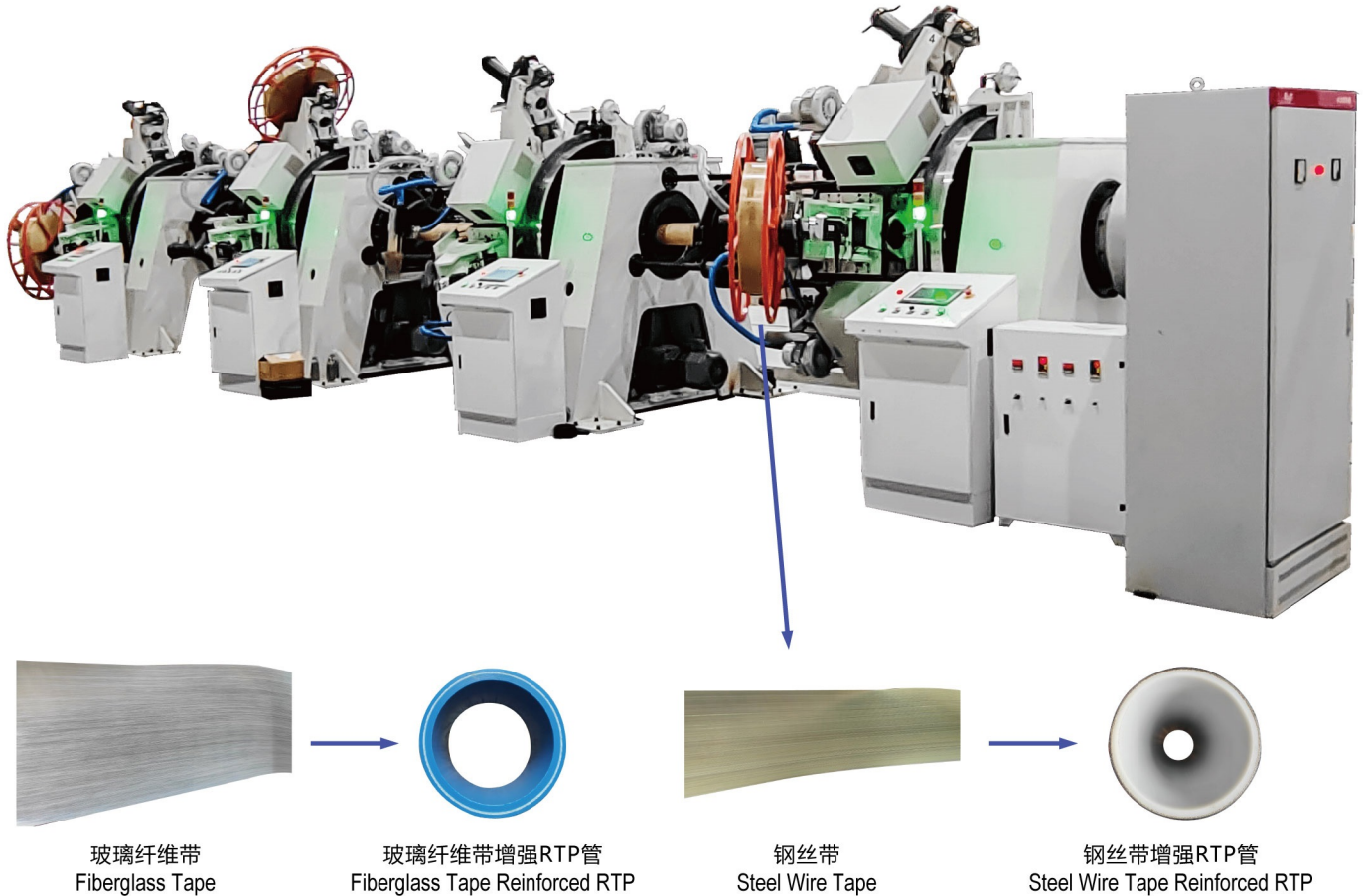


纤维丝缠绕式
Fiber Wire Winding

石油，天然气和供水行业的高压管道解决方案和成套设备。

High-pressure Pipeline Solution for Petroleum, Natural Gas
and Water Supply Industries.

增强热塑性塑料管 (RTP) 生产线 (纤维带缠绕式) Reinforced Thermoplastic Pipe (RTP/TCP) Production Line (Fiber Tape Winding)



我公司生产的增强热塑性塑料管(RTP)生产线(纤维带缠绕式)可以生产的管径范围为：Ø50-630mm。增强热塑性塑料管(RTP)主要用作石油和天然气行业的高压和非金属管道。同时，它也可以用于供水和区域供热。

通过改变内层材料，增强热塑性塑料管(RTP)可以在不同的温度和环境下工作。另外，通过改变缠绕机的数量和增强层的材料，管材将具有不同的工作压力。

Our RTP/TCP pipe production line (fiber tape winding) can produce pipe size range from Ø50-630mm.

The RTP (thermoplastic reinforced pipe)/TCP (thermoplastic composite pipe) is mainly used as high pressure and non-metallic pipes used for oil and gas industries. It can also be used for water supply and district heating.

By changing the inner layer material, the RTP/TCP pipe can working under different temperature and circumstance. Also, by changing reinforced machine quantity and reinforced tape material, RTP/TCP will have different working pressure.

主要技术参数 Main Technical Parameter

型号/Model	管材范围/Pipe Range (mm)	生产速度/Production Speed (m/min)
RTP250	Ø50-250	0.5-2.0
RTP315	Ø110-315	0.3-1.5
RTP630	Ø250-630	0.2-1.2

以上参数仅供参考，根据不同配置参数会有变动。

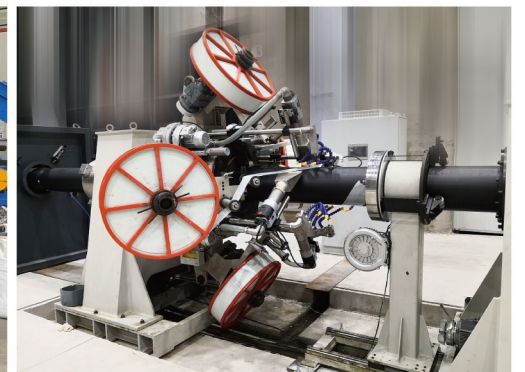
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设备特点:

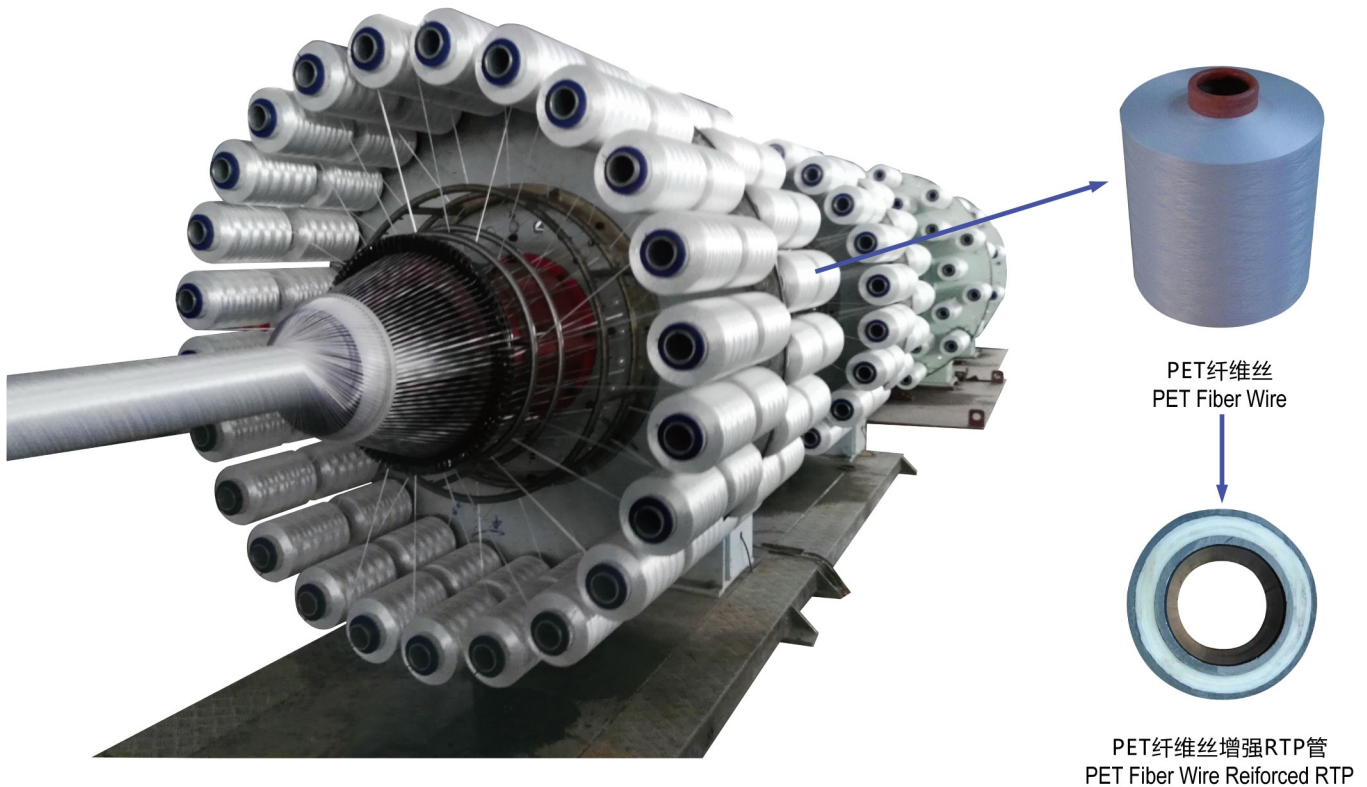
- 这是欣荣公司经过十年不断研究测试，推出的又一自主研发产品。
- 该生产线主要由内管挤出和外包覆层挤出系统、多组缠绕机、冷却定型装置、收卷机及控制系统等组成。
- 关键技术的缠绕机为四盘式（也可以只用其中两盘），根据不同类型的增强带和不同的管道压力要求，配置不同数量的缠绕机。
- 增强带可以是不同的材料，如玻璃纤维带、芳纶带、钢丝带等。
- 采用自动交错螺旋缠绕工艺，通过缠绕机在管材上均匀缠绕呈螺旋状的增强带。
- 全电脑控制使得该生产线具有很高的自动化水平和缠绕效率。

Machine Features:

- This is another equipment independently developed by our company for 10 years.
- The production line is mainly composed of core pipe extrusion and outer layer extrusion systems, tape winding machines, forming and cooling system, coiler and control systems.
- The key technology is tape winding machine with four winding stations (can also use two of them). According to different types of reinforced tape and different pipeline pressure requirements, we will equip different quantities of winding machines.
- The reinforced tape can be in different materials, such as glass fiber tape, aramid tape, steel wire tape, etc.
- Adopt automatic spiral winding process, and evenly wrap the pipe by reinforced tape through the winding machines.
- The full PLC control allows the production line to have a high level of automation and winding efficiency.



增强热塑性塑料管 (RTP) 生产线 (纤维丝缠绕式) Reinforced Thermoplastic Pipe (RTP/TCP) Production Line (Fiber Wire Winding)



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主要技术参数 Main Technical Parameter

型号/Model	管材范围/Pipe Range (mm)	生产速度/Production Speed (m/min)
RTP250	Ø50-250	0.8-6.0
RTP315	Ø110-315	0.5-4.5
RTP630	Ø250-630	0.6-2.5

以上参数仅供参考，根据不同配置参数会有变动。

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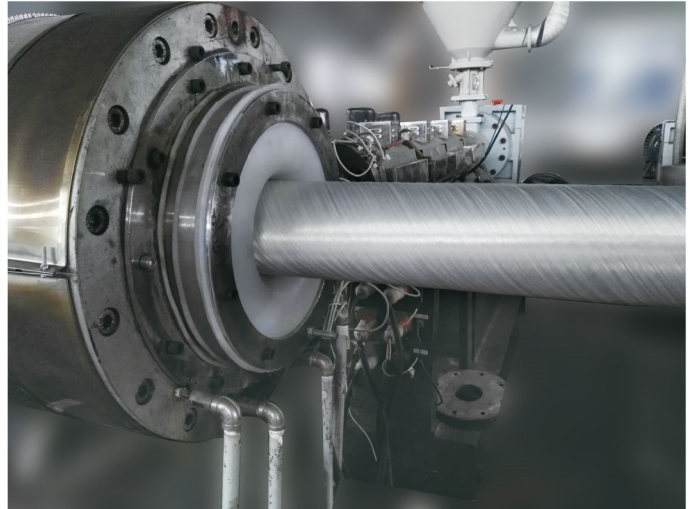
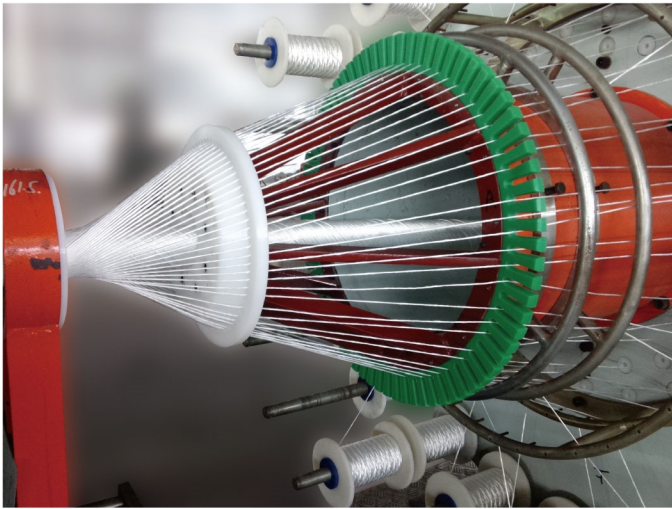
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设备特点:

- 该生产线主要由内管挤出和外包覆层挤出系统、多组缠绕机、冷却定型装置、收卷机及控制系统等组成。
- 缠绕机采用多股缠绕，多台缠绕机同步工作。缠绕机具有独特的增强丝分布和张力控制系统，能确保增强丝分布均匀。
- 缠绕机的转速能根据生产线速度自动调整，确保缠绕角度符合要求。
- 增强丝可以是不同的材料，如涤纶丝、玻纤丝、芳纶丝、钢丝等。
- 全电脑控制使得该生产线具有很高的自动化水平和缠绕效率。

Machine Features:

- The production line is mainly composed of core pipe extrusion and outer layer extrusion systems, wire winding machines, forming and cooling system, coiling and control systems.
- The winding machine adopts multi-strand winding, and multiple winding machines work synchronously. The winding machine has a unique reinforcing wire distribution and tension control system, which can ensure that the reinforcing wires are evenly distributed.
- The rotation speed of the winding machine can be automatically adjusted according to the production line speed to ensure that the winding angle meets the requirements.
- The reinforced wire can be in different materials, such as PET wire, fiberglass wire, aramid wire and steel wire.
- The full PLC control allows the production line to have a high level of automation and winding efficiency.



RTP管材的优点

- 在相同的耐压登记下，与钢管和普通塑料管相比，RTP/TCP管的成本较低。
- RTP/TCP管是柔性的，可以卷曲，这意味着可以收卷，与钢管相比可以降低安装和转运成本。
- 与钢管相比，具有较小的流动阻力，良好的耐磨性和耐腐蚀性。
- RTP/TCP管道可以在非常高的压力下工作，而纯塑料管则无法使用。
- 通过改变塑料和增强材料，RTP/TCP管道将具有不同的耐压等级，并且可以在不同的温度和压力条件下工作。

Advantages of RTP/TCP pipe

- Compared with steel pipe and normal plastic pipe, RTP/TCP pipe has lower cost under same pressure level.
- RTP/TCP pipe is flexible and can coiled in roll, which means long length to reduce installation and transportation cost compared with steel pipe.
- Small flow resistance, good wear resistance and corrosion resistance compared with steel pipe.
- RTP/TCP pipe can work under very high pressure which pure plastic pipes can not.
- By changing the plastic material and reinforced material, RTP/TCP pipe will have work under different pressure level and in different conditions.

专业塑料机械制造商
Professional Plastic Machinery Manufacturer

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