

JOTA MACHINERY INDUSTRIAL (KUNSHAN)CO.,LTD

盛威达机械(昆山)有限公司



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JOTA MACHINERY INDUSTRIAL (KUNSHAN)CO.,LTD



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COMPOSITES MATERIAL CONVERTING SOLUTION

专业复合材料核心供应商

www.jotamachinery.com

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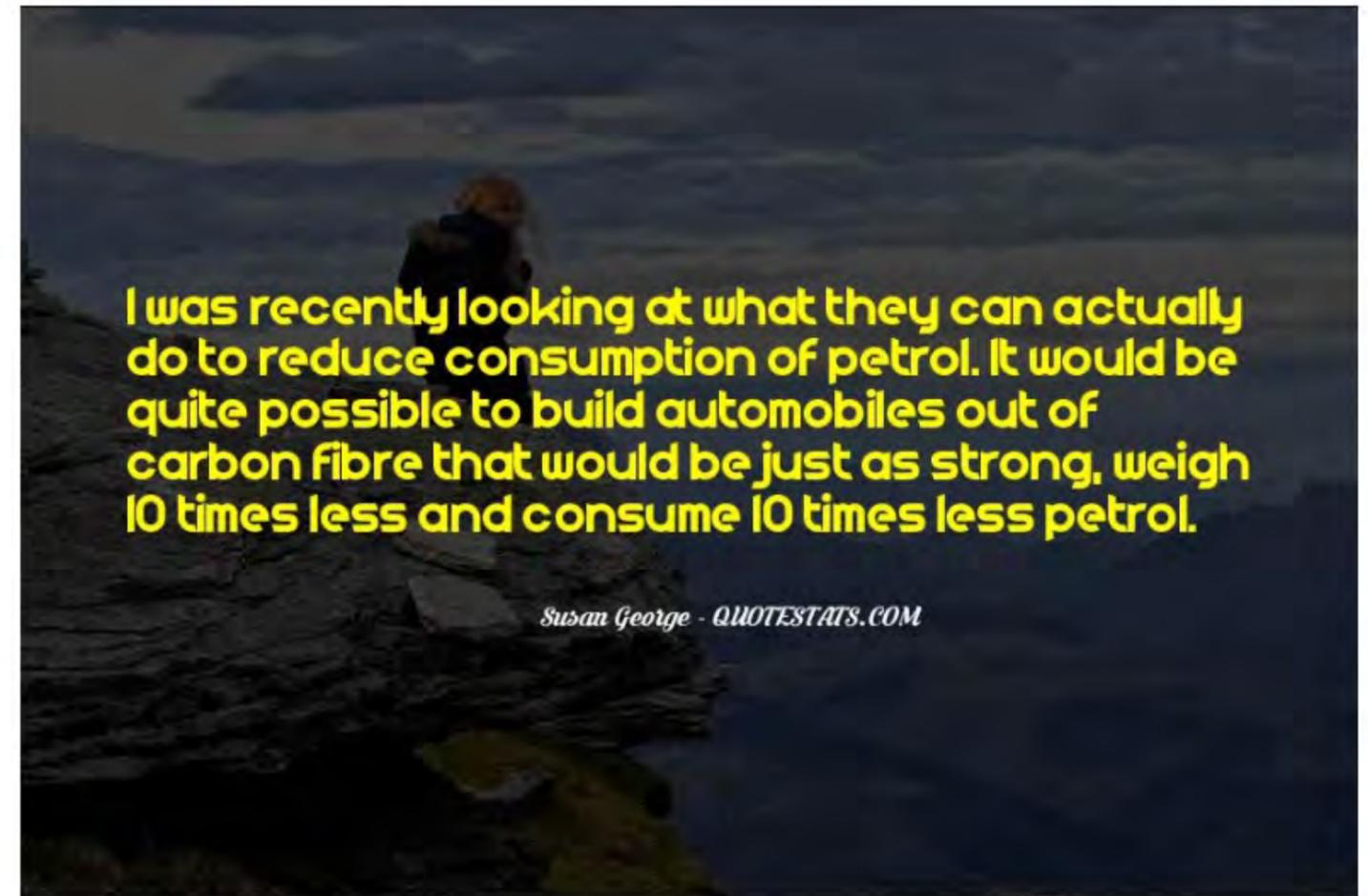
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FOREWORD

“ #2. I was recently looking at what they can actually do to reduce consumption of petrol. It would be quite possible to build automobiles out of **carbon fibre** that would be just as strong, weigh 10 times less and consume 10 times less petrol. ”

[Susan George](#)



I was recently looking at what they can actually do to reduce consumption of petrol. It would be quite possible to build automobiles out of carbon fibre that would be just as strong, weigh 10 times less and consume 10 times less petrol.

Susan George - QUOTESTATS.COM

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04



企业战略 ORGANIZATION STRATEGY

共创客户, 供应商,
员工持续成长平台

Build a sustainable platform
that fosters growth for
clients, suppliers, and
colleagues.

企业愿景 VISION

世界因我们更轻
更强更安全

Our efforts have made
the world lighter, stronger,
and safer.

企业价值观 VALUE

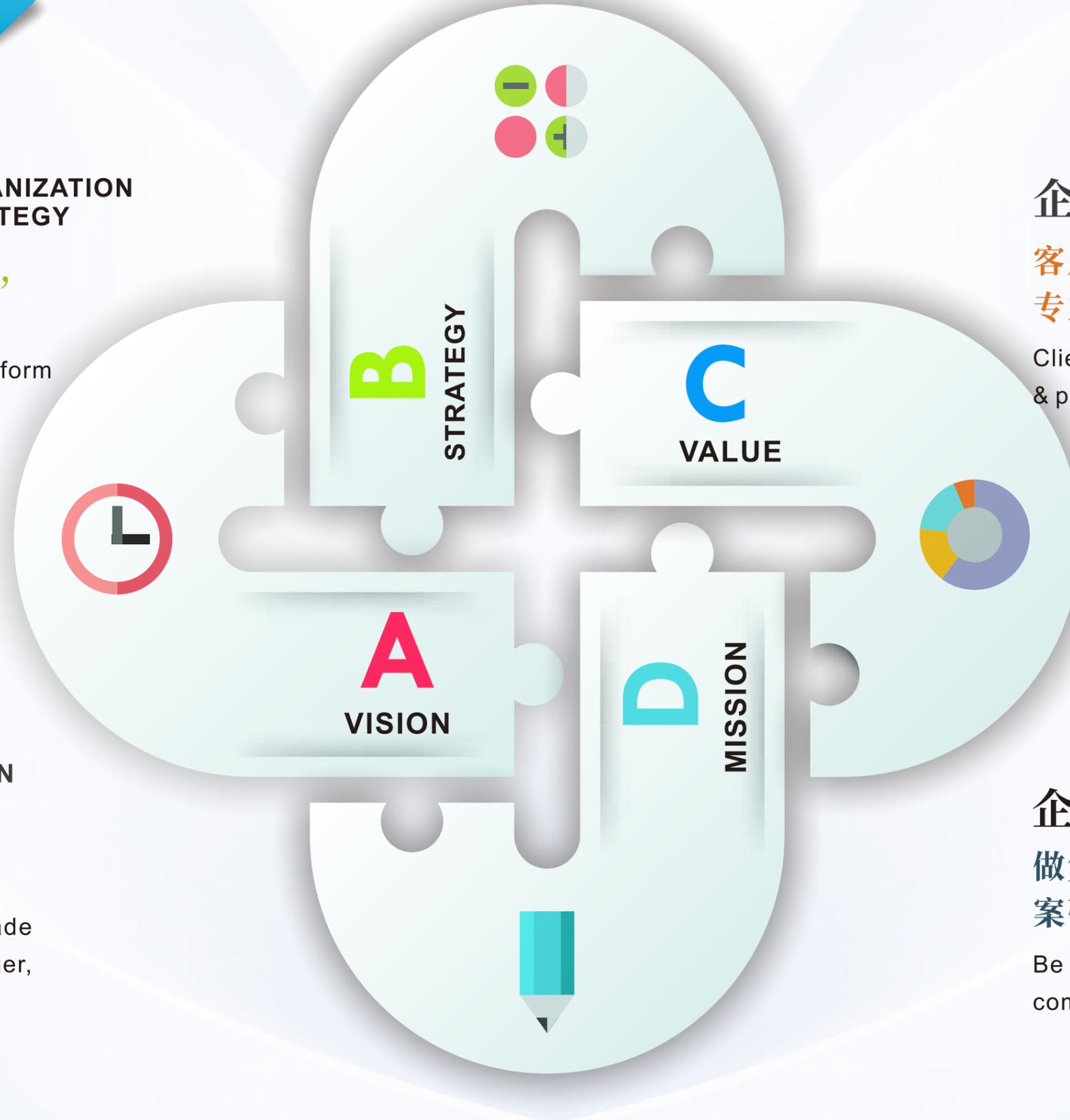
客户至上, 积极主动
专业精准, 持续创新

Client first be proactive be accurate
& professional keep innovating.

企业使命 MISSION

做复合材料核心解决方
案引领者

Be the core solution supplier of
composites material.





ENTERPRISE INTRODUCTION

盛威达机械（昆山）有限公司，成立于2010年，在积累过去十来年CFRT UD带浸渍，压合，分切等实际应用技术积累沉淀基础上，专为研发连续增强热塑性碳纤维材料工艺以及应用成立的专业型公司。

作为国内90%的CFRT-UD带生产企业的核心设备供应商，我们对热塑性连续纤维增强带生产有我们自己独特的理解和国内多家知名上市企业有深度合作经验，在工艺制品，树脂原料配方，产品应用上都有实际经验和成功案例，伴随着国际视野和深厚的行业经验，已经成为国内外20多家CFRT行业标杆客户的首选，为其提供CFRT全套一站式解决方案。

在过去的十三年，我们团队从零到壹，完成一次又一次的自我思维限制和突破，在连国外都空白的熔融浸渍工艺领域，老骥伏枥，苦心研发，经过13年积累，我们掌握了全套核心的工艺装备，应用体系以及材料技术。

我们在现有的技术研发型人才4人（硕士2人），材料应用技术性人才2人，机电一体化人员6人，以及国际视野市场部的基础上，衍生出一支国际化，高素质，专业性人才队伍为中国掌握该领域的制空权和定价权一直在努力。现有实用型专利12项，发明型专利3项。

Jota Machinery Industrial (Kunshan) Co., Ltd. was founded in 2010 as a professional company dedicated to researching and developing continuous reinforced thermoplastic material technology and its applications. Over the past decade, we have accumulated extensive practical experience in CFRT UD tape impregnation, pressing, slitting, and other related technologies.

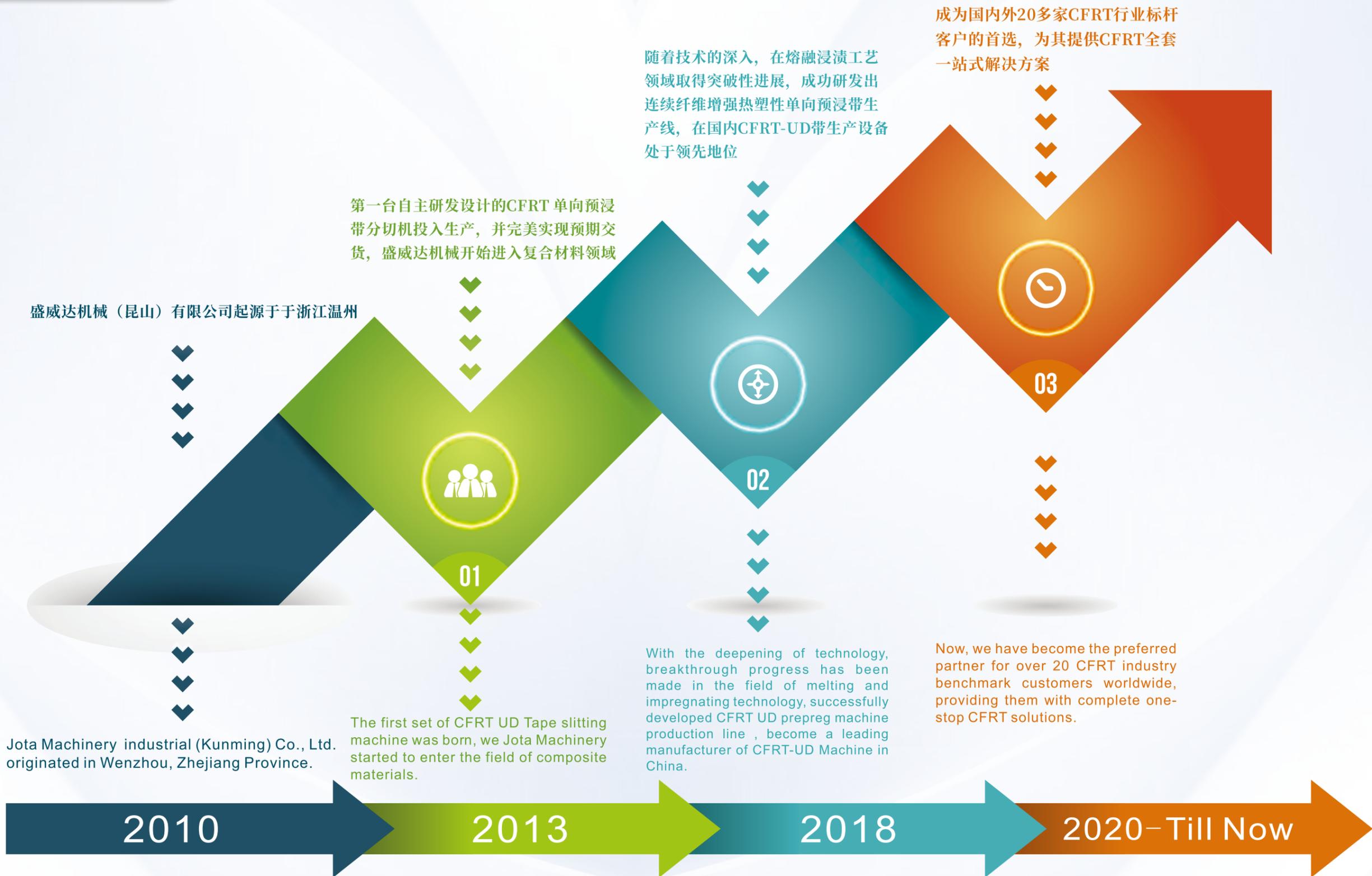
As the core equipment supplier for 90% of domestic CFRT-UD tape manufacturers, we have a unique understanding of thermoplastic continuous fiber reinforced tape production and in-depth cooperation with many well-known domestic listed companies. With an international vision and profound industry experience, we have become the preferred partner for over 20 CFRT industry benchmark customers worldwide, providing them with complete one-stop CFRT solutions.

Over the past thirteen years, our team has overcome self-imposed limitations and achieved numerous breakthroughs in the field of hot-melt impregnation technology, where we have worked hard to develop and master the core process equipment, application system, and material technology. As a result of our efforts, we have achieved 12 utility patents and three invention patents.

Our team consists of four technical research and development talents (including two masters), two material application technical talents, six mechatronics personnel, and a marketing department with an international vision. Together, we form a highly professional and international team that is dedicated to helping China achieve air supremacy and pricing power in this field.



COMPANY HISTORY





OVERSEAS COOPERATIVE CUSTOMERS



DOMESTIC COOPERATIVE CUSTOMERS





CERTIFICATE



CORE SERVICE

我们为您提供了一站式服务。针对您的产品需求,我们可以提供最合适的机型,并根据实际进行个性化定制。

您将从我们提供的多系列和灵活的机型选择方案中收益。从生产到调试再到验收发电机,我们都有专业的技术人员负责,严格执行配置,并在每一环节都做到质量监控。您将通过我们全面的流程化管理,如约获得高质量的产品。

We provide you with one-stop service. We can provide the most suitable machine for your products needs and customize it according to your requirements. You will benefit from the multi-series and flexible machine selection program we provide. From production to commissioning to inspection, we have professional technicians personnel responsible for strict implementation of specification, and quality control in every ink. You will obtain high-quality products as scheduled through our comprehensive process management.



PATENT



CONTINUOUS FIBER REINFORCED THERMOPLASTIC UD TAPE PREPREG LINE

连续纤维增强热塑性单向预浸带生产线

Usage

The hot melt prepreg machine is employed to impregnate fiberglass, basalt fiber, and aramid fiber with various thermoplastics, resulting in the production of high strength UD tapes.

Application

- ◆ Refrigerated container
- ◆ Composites sandwich panels
- ◆ Automotive

Parameters

Applicable Resin	PP/PE/PC/PET
Fiber	Glass/aramid/basalt fiber
Machine width	300-1500mm
UD Thickness	0.15-0.45mm
Production speed	15m/min



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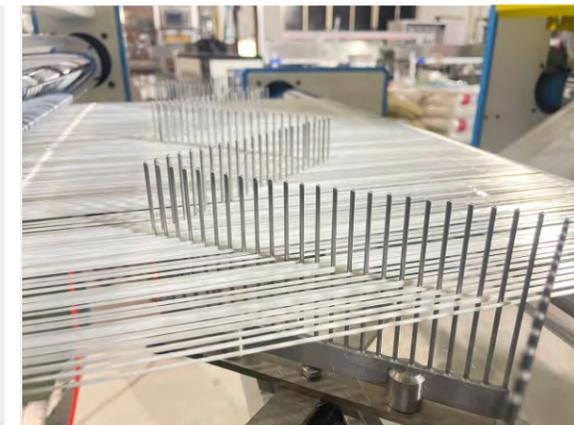
Extruder

Suitable for resins compatible with fiberglass.



Rewinding

6-inch air expanding shaft.



Spreading

W-shaped comb to adjust the UD tape width.

CFRT CARBON FIBER UD PREPREG MACHINE

连续纤维增强热塑性碳纤维单向预浸带生产线

Usage

The UD prepreg machine functions by impregnating continuous carbon fiber with high-performance resin using the hot melt extrusion method.

Application

- ◆ Aerospace
- ◆ 3D printing
- ◆ Medical

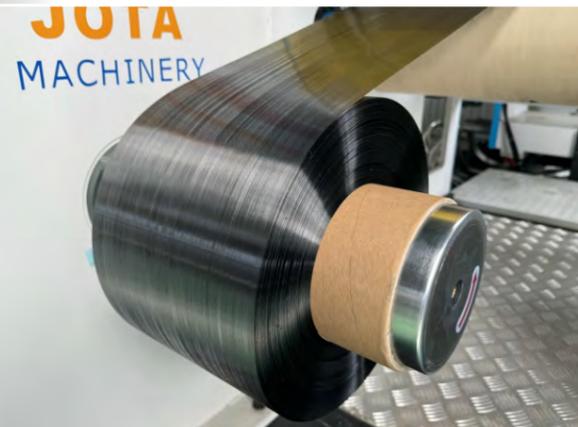
Parameters

Applicable Resin	PEEK/PPS/PC/PA
Fiber	Carbon Fiber
Resin	PA/PC/PPS/PEEK
Effective UD width	250-650mm
Fiber Content	50-65%
Thickness Tolerance	0.2±0.02
Impregnation Die Width	300-700mm



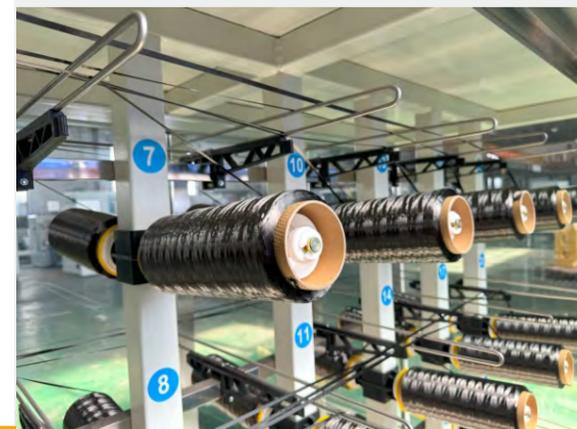
Spreading

W-shaped comb to adjust the UD tape width.



Rewinding

6-inch air expanding shaft.



Unwinding

Constant tension control creel for loading carbon fiber.

DOUBLE BELT PRESS MACHINE

特氟龙双皮带式复合机

Usage

The press machine is utilized to compound continuous fiber-reinforced thermoplastic UD tape with polymer, resulting in the production of sandwich panels using Teflon belts.

Application

- ◆ Reefer container
- ◆ Automotive
- ◆ RVs

Parameters

Applicable Material	Honeycomb Core, Foam Core
Belt Width	3000mm
Belt Thickness	0.45-0.55PTFE Belt
Heating Zone Length	4000mm
Cooling Zone Length	4000mm
Heating Mode	Oil-electric Hybrid
Heating Power	190kw



XY compounding

The skin is used to produce composite sandwich panels.



Press

Double Teflon heating belt for compounding the sandwich panels.



Unwinder

Max 3000mm width stand for loading the laminated sheet jumbo roll.

DOUBLE STEEL BELT PRESS MACHINE

双钢带复合机

Usage

The press machine is employed to compound continuous fiber-reinforced thermoplastic UD tape with polymer, facilitating the production of carbon fiber sheets & laminates using a steel belt.

Application

- Reefer container
- Automotive
- RVs

Parameters

Applicable Material	Thermoplastic Carbon Fiber UD Tapes
Press Machine Width	3000mm
Working Speed	0.5-5m/min
Heating Mode	Heating Roller + Heating Plate
Heating Temperature	300°C
Heating Zone Length	5000mm
Cooling Zone Length	5000mm
Cooling Method	Cooling Roller + Cooling Plate
Cooling Temperature	10-25°C



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Steel belt

The heating and cooling zones adopt a pressure roller and flat plate design with equal pressure and thickness.

Composites

Excellent equipment for producing sandwich panels.

Process

Composite sandwich panels through continuous hot pressing and cooling.



THERMOSET CARBON FIBER PREPREG MACHINE

碳纤维预浸料生产线

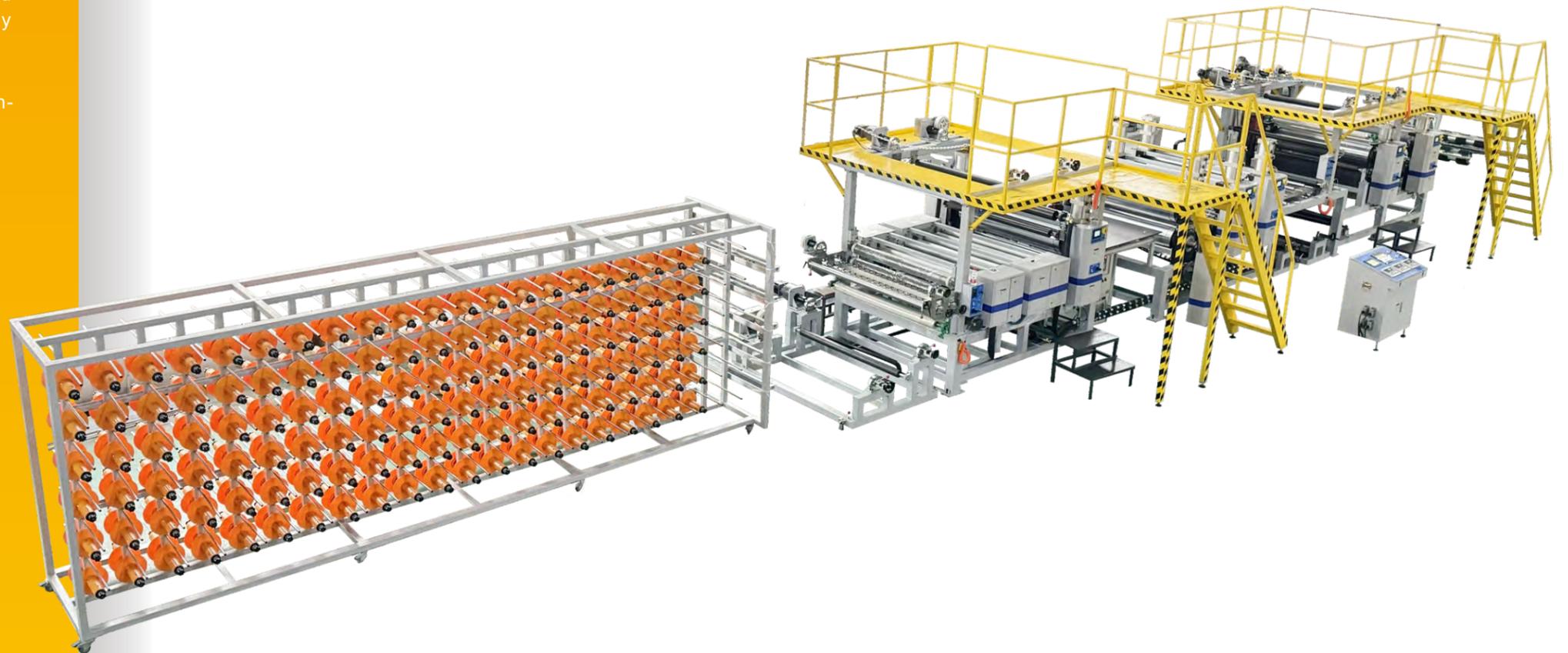
Usage

Carbon fiber prepreg is a composite material composed of continuous carbon fiber or flat fabric, twill fabric, epoxy resin, release paper, and other materials.

Production involves coating, hot pressing, cooling, laminating and rewinding.

Parameters

Applicable Resin	Epoxy, Phenol, Bismaleimide
Machine Width	300/600/1010/1270/1500mm
Resin	Epoxy/Bismaleimide Resin
Coating Speed	1-30m/min
Resin Content	20-50%±1%
Compound Speed	1-15m/min
Fiber Creel	252 Spindles



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Creel

126*2 double side design for loading carbon fiber roving.



Compounding

Working to produce uni-directional fabric prepreg and fiber prepreg.



Process

Prepregs through continuous hot pressing and cooling.



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CFRT UNI-DIRECTIONAL TAPE SLITTING MACHINE

单向预浸带分切机

Usage

The slitting machine is utilized for converting thermoplastic UD tape into smaller sizes.

Application

- Reinforced thermoplastic pipes
- Thermoplastic sandwich panel

Parameters

Applicable Material	Uni-directional Tape
Max. Unwinding Width	900mm
Max. Unwinding Diameter	1000mm
Max. Rewinding Diameter	1000mm
Material	CFRT Uni-Directional Tapes
Slitting Width	30-900mm
Max Speed	50m/min



Unwinder

Hydraulic shaftless unwinder for lifting heavy UD tape jumbo rolls.



Slitting Knives

Special material for cutting thermoplastic tapes.



Pusher

Automatic pusher make unloading easier.

NARROW UD SLITTING MACHINE

热塑预浸窄带分切机

Usage

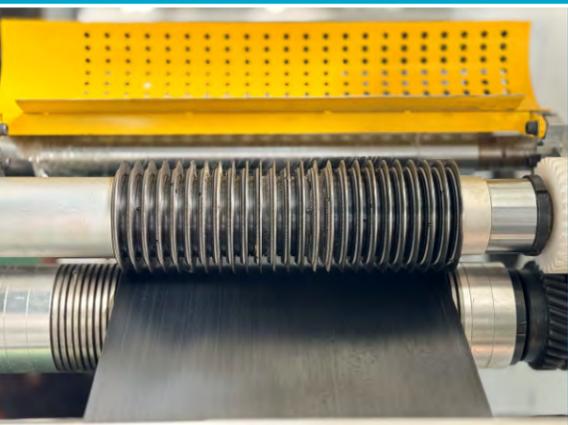
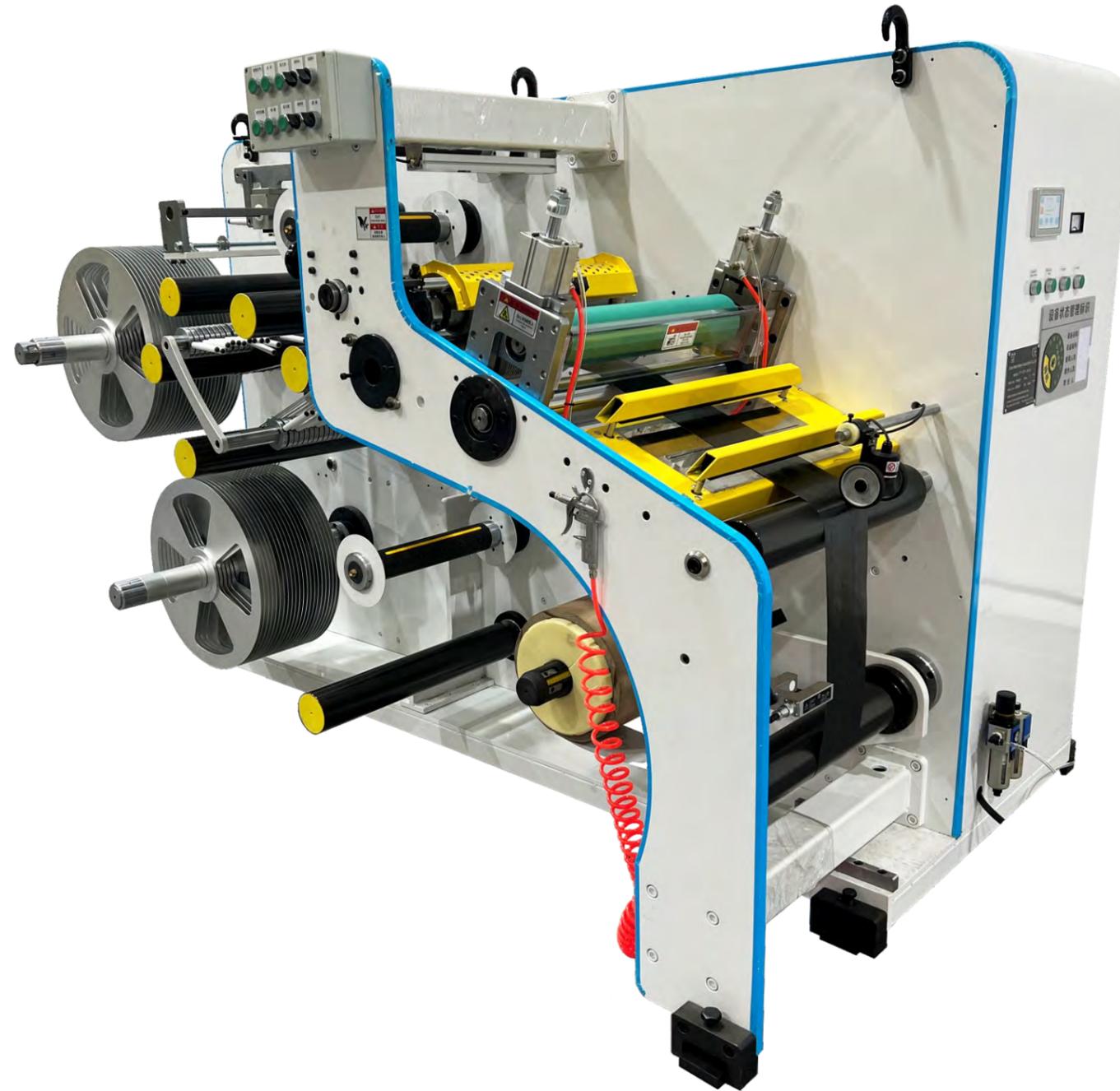
The UD tape slitting machine is a narrow web equipment set that we have developed in-house. It is designed for slitting thermoplastic prepreg into strips with a minimum width of 3mm.

Application

- ▶ Automatic tape laying (ATL)
- ▶ Continuous fiber 3D printing

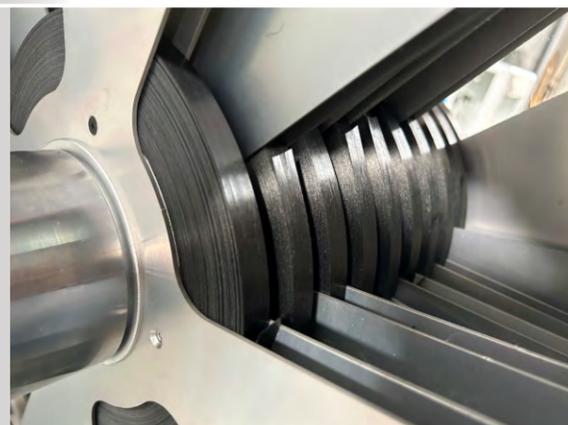
Parameters

Applicable Material	Carbon Fiber UD Tape, Fiberglass UD Tape
Max. Unwinding Width	320mm
Max. Unwinding Diameter	650mm
Max. Rewinding Diameter	630mm
Slitting Width	3.175/6.35/12.7mm
Material	Thermoplastic uni-Directional Tape
Rewinding Shaft	2 pcs Differential Friction Shafts



Blade

Self-developed round slitting for cutting narrow size.



Rewinding

Both are applicable to the ATL machine and the spooling machine.



Slitting

Neat UD tape edge without any burrs.

CARBON FIBER PREPREG SLITTING MACHINE

热固碳纤维预浸料分切机

Usage

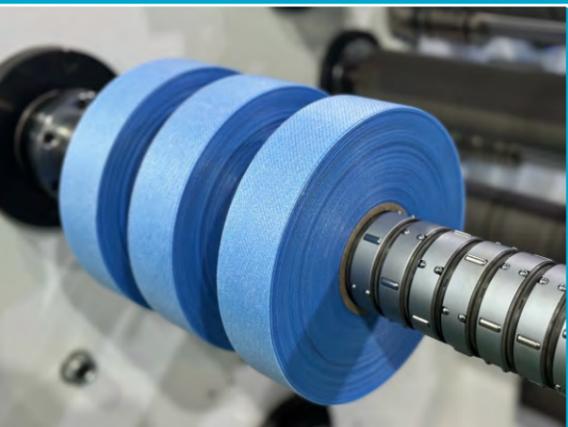
The prepreg slitting machine is utilized to convert prepreg carbon fiber into smaller, narrow sizes. This marks the initial stage in the aerospace equipment manufacturing process.

Application

- Automated tape laying (ATL)
- Automated fiber placement (AFP)

Parameters

Applicable Material	Thermoset Prepreg
Max. Unwinding Width	320mm
Max. Unwinding Diameter	650mm
Max. Rewinding Diameter	630mm
Slitting Width	3.175/6.35/12.7mm
Material	Thermoset CF/GF prepreg
Rewinding Shaft	2 pcs Differential Friction Shafts



Blade

Self-developed round slitting for cutting narrow size.



Patent

Anti-stick designed blade for slitting epoxy prepreg.



Spreading

Special design rewinding narrow prepreg.

UD/ PREPREG SLITTING TRAVERSE SPOOLING MACHINE

分切往复式收卷机

Usage

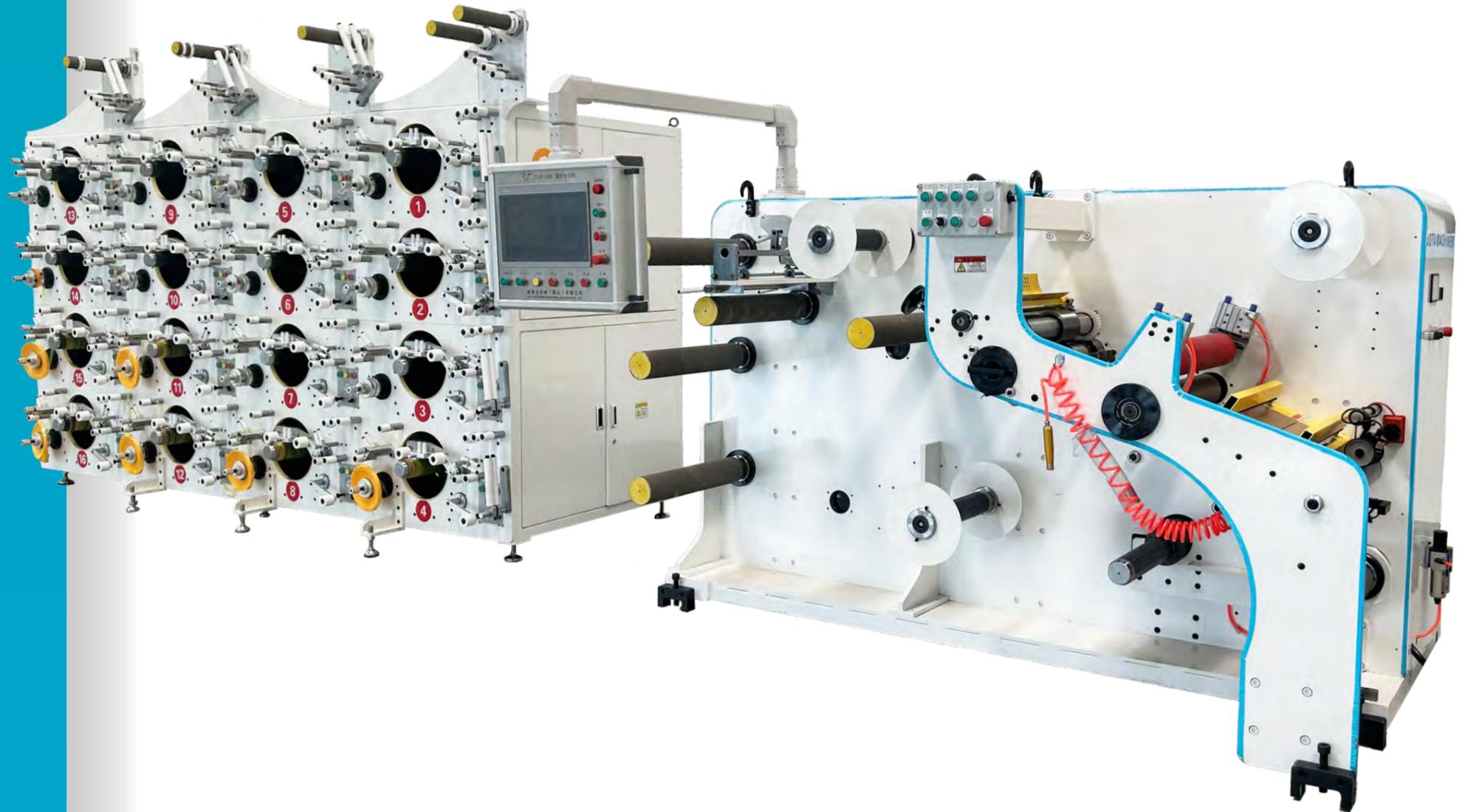
The slitting machine is designed to slit both thermoset prepreg and thermoplastic UD tapes into narrow sizes while facilitating traverse spooling.

Application

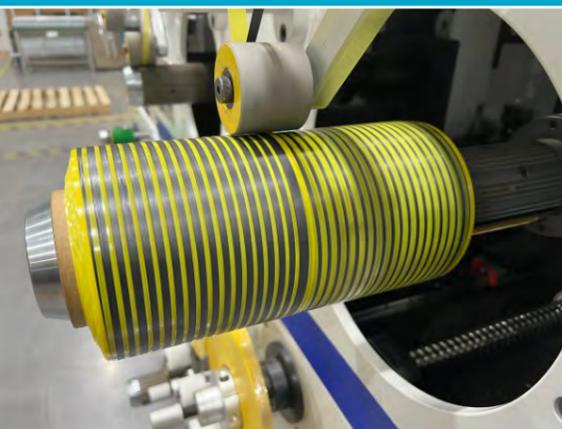
- ▶ Automated fiber placement
- ▶ Hydrogen cylinder filament winding
- ▶ Thermoplastic composites pipes
- ▶ Achitechive

Parameters

Applicable Material	Prepreg
Max. Unwinding Width	320mm
Max. Unwinding Diameter	650mm
Slitting Width	3.175/6.35/12.7mm
Material	Thermoplastic UD & Thermoset Prepreg
Spooling	Traverse Spooling
Precision	±0.1mm



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Spooling

Traverse spooling for producing narrow prepregs on the AFP machine.



Slitting

High precision round anti-stick slitting blade.



AFP machine

16-axis towpreg spooler for automated fiber placement.

FRAME TYPE UD TAPE SLITTING MACHINE

龙门式单向带分切机

Usage

The frame-type slitting machine is employed to converting large jumbo rolls into smaller UD tape rolls. It is the front-end process for the production of PE glass fiber reinforced RTP pipes.

Application

- Reinforced thermoplastic pipes(RTP)
- Thermoplastic composite sandwich panels

Parameters

Applicable Material	Fiberglass Thermoplastic UD Tape
Max. Unwinding Width	900mm
Max. Unwinding Diameter	1300mm
Max. Rewinding Diameter	1200mm
Thickness Range	0.15-0.6mm
Unwinding/Rewinding Shaft	6" Differential Friction shafts
Material	CFRT Uni-Directional Tape



Slitting

H. S. S slitting knives with safety cover.



Web guide

Web guide for high slitting precision.



Rewinding

Water cooling differential friction shafts improve the use of life.

UD TAPE SHEETING MACHINE

单向带横切机

Usage

The sheeting machine is utilized to convert thermoplastic UD tape rolls into sheets.

These sheets collaborate with UD tape rolls to produce laminated panels using a double belt press machine.

Application

- Thermoplastic sandwich panel

Parameters

Applicable Material	Uni-directional Tape
Max. Unwinding Width	1000mm
Max. Unwinding Diameter	2000mm
Max. jumbo roll weight	4000kgs
Material	CFRT Uni-directional Tapes
Unwinding/Rewinding Shaft	1000mm
Max. Speed	10-20 cuts/min



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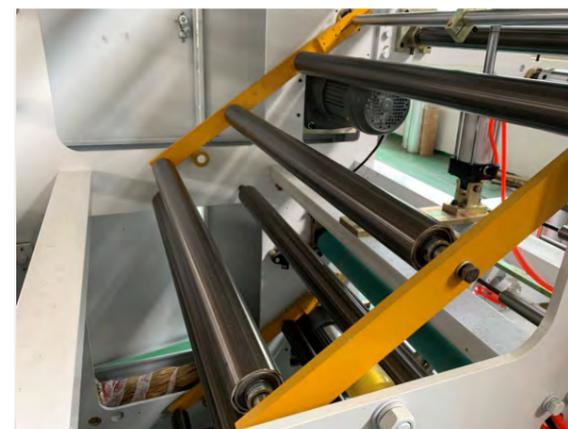
Sheeting

Upper & lower cutter's moving is controlled by inverter motor.



Unwinder

Choosing pneumatic or hydraulic unwinder stand.



Dancing roller

It is used for paper storage & feeding which controlled by servo motor.



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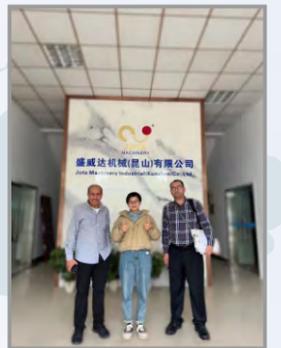
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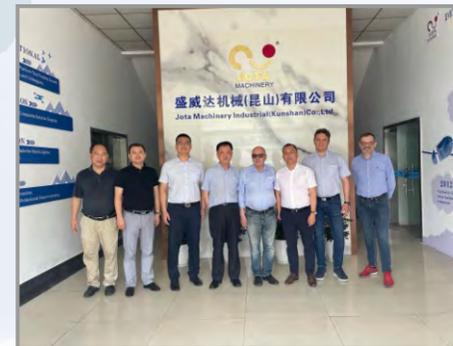
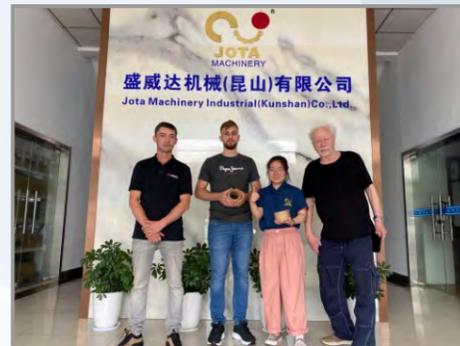
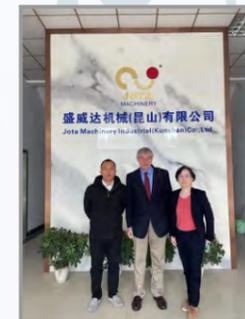
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OUR CUSTOMERS





OUR SERVICE

01

PRE-SALES

- 了解需求
Explore your deep needs.
- 解决方案
One-stop solution.
- 定制服务
OEM service.

02

IN-SALES

- 专业精准的安装
Assembly be accurate & professional.
- 质量控制
Quality control.
- 进度更新
Schedule update.

03

AFTER-SALES

- 现场安装调试
On-site installation & commissioning.
- 24小时在线技术支持
24-hour online technical support.
- 自有仓库配件齐全
Own warehouse with complete accessories.



OUR TEAM





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