



Product Description

WPC profile machinery/ WPC machine extruder/wood plastic composite decking machine

WPC decking machine, Plastic Lumber machinery make WPC products from recycled plastic and wood.

Machine list for turnkey production project

Machine	Capacity	Application
Wood/husk/straw powder making machine	300 kg/h	For making the wood/husk/straw into powder size, it needs wood chipping, wood crushing, Wood milling and wood drying process
PP/PE plastic recycling machine	300 kg/h	For recycling PP/PE wastage, it needs crushing, washing and drying process
WPC mixing machine	500 kg/h	mixing the material according to the formula, generally it can be max 70% wood powder
WPC granulation machine	400 kg/h	Making the material into WPC granules by hot granulation.
WPC profile extrusion line	150 kg/h	making the WPC Profiles by extrusion and moulding, such as decking, wall panel, post, fence. you can make different products by changing mold
WPC co-extruder	15kg/h	for co-extrusion anti-environment material on surface for increasing the quality and using life
Online embossing machine		for making beautiful design on the produce surface
Sanding machine		for making the product surface with unglassy feeling
Brushing machine		for making the product surface with rough wooden feeling



WOOD PLASTIC WPC PROFILE PRODUCTION LINE



Recycled PP and PE material:



Wood powder : made from rice husk/rice straw/wheat straw/wood sawdust/chipped wood



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Processing: mixing → granulating → extrusion and molding → WPC products



Application of WPC products: decking, fence, pergola, gazebo, house wall





Wood plastic WPC decking machine

The wood-plastic is a new kind of synthetic material which uses PVC,PP,PE resin or recycled plastic and plant fibre (wood powder,chaff,straw etc.) as raw material and through the process of mixing,extrusion,calibrating,drawing off and cutting. This kind of wood-plastic materials are not only very similar with natural wood in appearance and feel,but also with the same characteristics as wood of excisable, planeable,sawable, unmatched grip,low bibulous rate, good moisture resistance, mothproof,mildew resistance,good resistance to acid and alkali,anti-corrosion, and it has the feature of fire resistance.The products are non-toxic,non-polluting,environment-friendly and save-energiend, without formaldehyde, benzene and ammonia and other harmful substances.The wood-plastic products are widely used in outdoor floor,hydrophilic construction,balcony,landscape architecture,chairs and benches, fences, indoor doors and windows, furnitures, etc.

Pictures of WPC products



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Description of WPC products

- 1, New product: The wood-plastic is a new kind of synthetic material through the process of mixing, extruding, calibrating, hualing off and cutting,
- 2, Material: uses PVC, PP, PE resin or recycled plastic and plant fibre (wood powder, chaff, straw etc.) as raw material.
- 3, Advantages: This kind of wood-plastic are not only very similar with natural wood in appearance and feel, but also have the same characteristics as wood of excisable, planeable, sawable, unmatched grip, low bibulous rate, good moisture resistance, mothproof, mildew resistance, good resistance to acid and alkali, anti-corrosion, and it has the feature of fire resistance. The products are non-toxic, non-polluting, environment-friendly and save-energiend, without formaldehyde, benzene and ammonia and other harmful substances.
- 4, Application: The wood-plastic products are widely used in outdoor floor, close to water construction, balcony, landscape architecture, chairs and benches, fences, interior doors and windows, furniture, etc.

WPC application





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WPC application



WPC application



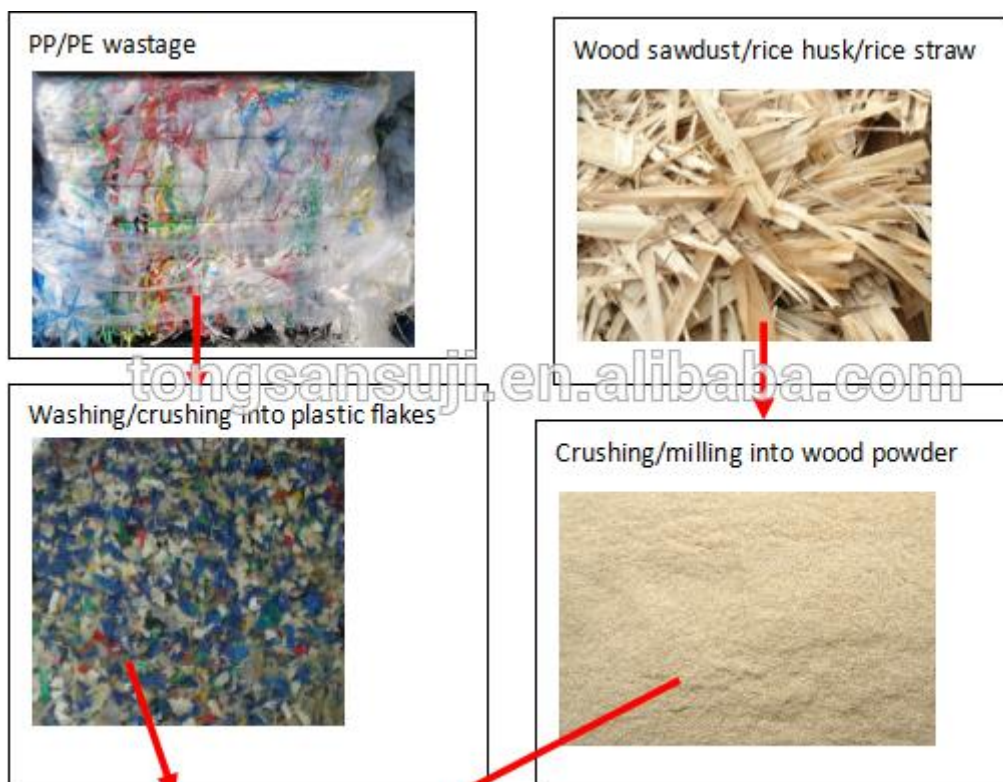


Production flow for wood plastic WPC decking machine

1, Preparing the material:

wood powder material: 80-100mesh wood powder, it can be made from wood sawdust, rice husk, rice straw, wheat husk and straw, cotton staw and agriculture wastage. machine need is wood crushing and pulverizer machine

plastic material: recycled PP/PE plastic after washing and crushing into flakes. machine need is plastic washing and crushing line.



2, WPC material mixing and granulating

Mixing: put all the material into the mixing machine, such as PP/PE recycled flakes, wood powder, chemical additives

Granulating: it is important to use a high quality granulating machine to make WPC granules, moisture exhausting system is necessary for granulating process.



3, WPC products extrusion-molding-surface treatment

Extrusion and molding: Our conical double screw extruder is specially designed for high quality WPC products extrusion, it can make WPC material fully mixed and melted and uniform, equip with good designed mold and calibration, online cutting device, our Wood plastic WPC profile machine can make good WPC products, such as decking profiles, garden profiles, chair profiles, pergoza profiles, railing system profiles.

Surface treatment: sanding, brushing and embossing process can make the WPC products with nature wooden grain which is good accepted by customers.



A mix of natural wood and plastic fiber forms wood-plastic composites. These help in reducing the overall weight of a vehicle, and in turn, it enhances its fuel efficiency. Wood plastic composites are a low-priced and eco-friendly substitute to plastic and steel components in construction applications. Hence, their demand is constantly growing in the market.

The wood-plastic composites market is segmented by types: Polyethylene (PE), Polypropylene (PP), Polyvinyl Chloride (PVC) and others. Polyethylene based wood plastic composites dominate the industry. The building & construction products segment is regarded to be the largest consumer of Polyethylene and Polyvinyl Chloride wood-plastic composites. The automotive components segment comes in next where wood-plastic composites are used in the making of lightweight automotive components



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Based on their application, this market has been segmented into building & construction products, decking, fencing, industrial & consumer goods, automotive components, and others. Among these, the building and construction segment appeared as the largest in the global wood-plastic composites market.

Detailed images

Wood powder making machine

wood chipping--wood crushing--wood milling--wood drying

Technical parameter as below:

Model	JFS60-50
Capacity	200-300kg/h
Feed material	wood log, wood sawdust, chipped wood, rice husk, rice straw, wheat straw, wheat husk, cotton straw, and other agriculture wastage
Wood powder	60-100 mesh





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WPC granulation machine

Auto feeding--Extrusion with venting system-- Hot cutting granulation--cooling blowers

Model	SHMS75 parallel double screw extruder with venting system
Capacity	350-450 kg/h
Power	90 KW
Material	25% recycled PP/PE +70% wood powder + around 5% Chemicals





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WPC profile extrusion line

Auto feeder--Conical double screw extruder--customized mold--calibrating device--Pull off and cutting machine--stacker

Model	SJMS65/132 conical double screw extruder
Capacity	150-250kg/h
Power	37kw
Speed	0.8-1.5meter/minute





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Our service

TURNKEY PROJECT SERVICE:

- 1, we will provide all the machines for the complete production according to customer's requirements.
- 2, we will provide complete service for factory layout and other informations to help customer to build the factory.
- 3, we can also provide the raw material to the customer if you need.
- 4, we will provide good service for machine installation and training, until the customers can run the machines and make stably production.
- 5, Except one year quality guarantee,we will provide after-sell service for all the life.
- 6, for long-term cooperation, we always provide good quality, good price and good service to customer. we are the professional and trustable supplier for turnkey projects. let us do win-win business together.

INSTALLATION AND COMMISSIONING

WE WILL SEND THE TECHNICIAN TO BUYER'S FACTORY FOR INSTALLATION AND TESTING THE WHOLE LINE, AND OUR ENGINEER WILL DO TRAINING TO BUYER'S WORKERS UNTIL THEY CAN RUN OUR MACHINE FOR STABLY PRODUCTION

AFTER SELL SERVICE: ONE YEAR GUARNTEE, FOREVER SERVICE!

WITHIN THE GUARANTEE OF ONE YEAR, WE WILL PROVIDE EFFICIENT AND ON TIME MAINTAINS,IF ANY SPARE PARTS DAMAGED IN THE GUARANTEE TERM BECAUSE OF QUALITY PROBLEM, WE WILL PROVIDE NEW SPARE PARTS FOR FREE FOR REPLACEMENT.

Company strength

Factory picture and company style:

Quality is Tongsan's style ,prestige is Tongsan's character, and innovation is Tongsan's eternal pursuit .Welcome domestic and overeas customers to visit our company with full passion. We are willing to work with you to unite as one with effort to create a bright future.



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Exhibitions attended

- 1, Chinaplast exhibition in Shanghai and Guangzhou each year
- 2, Indiaplast exhibition each year
- 3, Russian, Uzbekistan, Ukraine exhibitions each year
- 4, Mexico, Colombia, USA exhibition
- 5, Other exhibitions in Algeria, Pakistan, Vietnam...

Certificate of us

1, Supplier Assessment Report(s)

We have been inspected onsite by Bureau Veritas , a third-party verification agency. They offer Assessment Reports and Verified Videos. This gives buyers trust and authoritative information about suppliers.

You can download the reports for free and view the company verified video for free:

2, CE certificate of our machines

Our machines has been certificated by CE, if customer requires, we also can make SGS inspection report and Quality control report according to customer's requirements.