

Greenhouse Supplies

- Greenhouse Bench
- Greenhouse Trolley Cart
- Greenhouse Fan
- Soil Tester
- Agricultural Film
- Plant Netting
- Garden Greenhouse



Horticulture and Agriculture Supplies

Address: 1F, Building# 1032, 999 Wangqiao Road, 201201 Shanghai China

Tel: 0086 137 6492 6104 Email: info@jychinasourcing.com Contact: Shirley Jiang

1. Greenhouse Bench

- Greenhouse bench is the seedbed in the greenhouse, Ideal for crops growing, nursery planting, plants displays, retail garden center applications, and so on. Greenhouse bench can easily be connected to run the entire length of a commercial greenhouse.
- The frames are manufactured from galvanized structural steel with extruded aluminum side rails. Assembled with stainless steel fasteners and topped with durable expanded metal.
- Mobile Benches are commonly used in professional horticulture. There are mainly three types of mobile benches, side-shifting benches, floor-rolling benches and multi-move benches.
- Since every greenhouse is limited by its own size, the mobile benches ensure the optimization of the space used in your greenhouse.
- The most common benches used in greenhouse are the Side-Shifting Benches, called as rolling benches. Their legs are fixed to the ground, and the bench tops roll side to side. Therefore it gives you the opportunity to create paths in between different rows of benches to access your plants and also increasing growing space.
- Floor-Rolling Benches are on wheels; therefore you can move them from one side of your greenhouse to the other, optimizing growing space.
- Multi-level Benches create additional space to display plants and growing space. And multi-move benches are able to move plants throughout the whole nursery, also make it a transportation system.
- Generally speaking, with the help of mobile benches, about 80% or even 90% of a greenhouse space can be used for growing.

Features:

- **greenhouse bench** has the following benefits including:
 - *To make better use of the greenhouse area, movable seedbed is a good choice for potted plants.
 - * It's easily operated manually, simple in structure.
 - *The frame of seedbed is aluminum material, light weight.
 - * While the bracket and meshwork is hot dip galvanized steel. It is prefabricated assembly style
 - * Size:1.5m-1.8m width, 0.6m height, or customized.
 - *It is high corrosion resistance and good load-bearing capacity, design working life is 20 years.
 - *Between any two beds, can leave 0.6/0.8 m width access way.
 - *Good ventilation for plants growing.

Material:

- Seedbed net: hot dip galvanized steel, or plastic dip coating
- Seedbed frame: Aluminum alloy
- Seedbed foot: Galvanized rectangular steel

Specification of the seedbed wire mesh:

- diameter:3.0-4.0mm
- wire mesh opening:30*130mm, 20*130mm, 125*30mm
- wire mesh panels size:1000*2500mm, 910*1500mm and so on
- The size of greenhouse bench is customized.



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1. Greenhouse Bench



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1. Greenhouse Bench

Greenhouse Rolling bench is a kind of solid and economic greenhouse bench with metal mesh tops.

- Its unique structure allows maximum air and light penetration to make seedlings grow better and stronger. Its rolling design allows 25-30cm adjustable distance each side to create flexible aisle and facilitate the grower looking after seedlings. In this way, it greatly reduces the labor cost and saves the cultivation area to make you gain higher profits, the cultivation area to make you gain higher profits.

Features of Rolling Bench:

- Its mesh opening allows maximum air and light penetration to make seedlings grow better and stronger.
- Its rolling design allows 25-30 cm adjustable distance each side to create flexible aisle and facilitate the grower looking after seedlings.
- It greatly reduces the labor cost and increases the cultivation area to make you gain higher profits.
- Its galvanized surface treatment make it have excellent corrosion resistance performance and enjoy a service life of up to 20 years.
- Anti-tip brackets are provided to prevent bench top from overturning arising from the weight of plants on it.
- Rounded corner brackets prevent injury from sharp edges.

Material of Rolling Bench

- Bench top, Middle cross beam, Bench stand, Wheel beam, Diagonal ligament, Bench end braces, Feet : All in hot-dip galvanized welded wire mesh.
- Frame: 6063-T5 aluminum profile.
- Corner bracket : ABS
- Waterproof cap, Wheel beam cap : plastic
- Steering wheel : bakelite
- Anti-tip bracket : Nylon
- Clip on bench side profile : aluminum alloy + ABS



2. Greenhouse Trolley Cart

Greenhouse trolley cart is important in the greenhouse industry for moving plants or displaying. As trolley carts, they are available to meet almost any grower needs for transport, shopping, displaying and customer service. The hot dip galvanized steel make the shelves are durable and strong with good quality wheels. The shelves are adjustable and movable, so the racks fit the higher or shorter sizes of plants. Furthermore, it is also good for storage and save the space.

The production are delivered with flat packing, they are easily assembled before use.

Features of Greenhouse Trolley Cart

- * Display Trolleys are fully mobile, so you can move them wherever you like easily.
- * Adjustable Shelf in height.
- * Base panels are stackable for easy storage and saving the space.
- * Wheels provide easy movement & positioning.

Additional shelves can easily be fitted.

- * The panels can be printed with your logo.

Applies of Greenhouse Trolley Cart

These trolley carts are widely used in greenhouse, floral shops, garden, etc.



3. Greenhouse Fan

3.1 Greenhouse Circulation Fan

This fan circulates indoor hot and cold air to reduce temperature difference. Through air circulation to optimize the heat distribution and to reduce the humidity in the greenhouse , providing low-speed flowing air for crops better growth, reducing energy costs.

- Horizontal Circulation Fan

The outer frame of circulating fan is made of 304 stainless steel. Made of molding, beautiful appearance and not easy to rust.

Adjustable fixing frame, which can adjust different air supply angles according to needs.

Nr.1 The fan blades are made of aluminum plate, with beautiful appearance, Light weight, large air volume and small vibration.

Nr.2 The fan blade is made of high-quality nylon, beautiful and low noise, Fan blade angle, reasonable design and high efficiency.

The motors are separately designed according to the high temperature and humidity in the greenhouse Features: customized high-quality fully enclosed national standard motor to ensure good operation of fan.



- Vertical Circulation Fan

Nr.3 Through air circulation to optimize the heat distribution and to reduce the humidity in the greenhouse , providing low-speed flowing air for crops better growth ,reducing energy costs.

Circulate the air in the greenhouse vertically to reduce the temperature difference between the upper and lower sides and facilitate the temperature control.

Reuse the hot air on the top of the greenhouse to reduce heating costs.

Nr. 4 The air and heat at the top of the greenhouse are transferred to the bottom of the greenhouse by connecting the $\Phi 500\text{mm}$ air supply duct, so that the air in the greenhouse circulates from top to bottom, reducing the temperature difference between the upper and lower sides of the greenhouse, promoting the growth of crop roots, and reducing energy costs.

Precise transfer of heat to promote the growth of crop roots.

Optimize heat distribution in the greenhouse to save energy costs.

Enhance internal air circulation to promote plant growth.



3. Greenhouse Fan

3.2 Greenhouse Ventilation Fan

- Greenhouse Ventilation Fan

When building a greenhouse, it is very important to consider both horizontal and vertical air circulation. The fan is installed on the inner wall of the corridor, it is connected with an air duct to distribute the adjusted air evenly in the whole greenhouse. Through the recirculation, air flow and air mixing under the crops, the temperature, humidity and CO₂ distribution in the greenhouse are more uniform, preventing mold and disease, saving energy, improving the quality of agricultural products and increasing production.

Features: The fan is made of high zinc hot-dip galvanized steel, the surface is sprayed with plastic treatment, double protection, corrosion resistance, no rust.

Air duct connector adopts double air duct design and can be installed with single air duct or double air duct.

The fan adopts square design, easy installation, all around equipped with mounting holes and greenhouse skeleton docking.

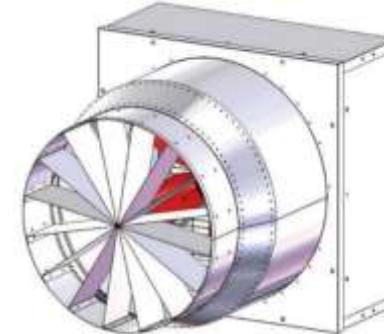
The safe net is made of hot-dip galvanized wire, the surface is treated by spraying plastic, double layer protection, no rust.

Fan blades are made of high quality nylon, beautiful appearance, low noise. Reasonable fan blade angle design, high efficiency.

With 485 communication function, can connect indoor and outdoor sensors and computer control terminal, completely control the fan speed and start time

Easy control, **you can** choose fixed speed, voltage speed regulation, current speed regulation, 485 communication.

* Greenhouse ventilation fan is low noise, large air volume and high efficiency.



3. Greenhouse Fan

3.3 Greenhouse Exhaust Fan

* Greenhouse Exhaust Fan

Fan frame is excellent quality hot-dip galvanized sheet with zinc, which is for longer lifespan and strong anti-oxidation. Frame 304 or 430 stainless steel both can be customized.

Blades material is Krupp self-cleaning 430BA Stainless Steel, large air volume, high efficiency, no deformation, no dust, beautiful and durable. 304 2B Stainless Steel blades can also be customized.

Centrifugal opening system can ensure that the shutters are fully opened or closed. Material : high quality nylon, long service life. The fasteners and guide rod are 304SS, wear resistance, no rust, good flexibility, reduce friction coefficient.

Belt pulley and flange are made of high-strength aluminum-magnesium alloy by die-casting, light weight, low vibration, high strength, and no breakage.

High-quality nylon shutter fixed parts, long service life and flexible opening. Shutters are made of 275g/ m² thick hot-dip galvanized sheet, good sealing, no deformation. The auxiliary shutters thickness:0.8mm, The middle opening shutter: 1.5mm

Mitsuboshi belt imported from Japan to guarantee quality and service life.

Thickened aluminum alloy linking parts, light weight, no deformation, no aging. The plastic parts are automatically locked, which is easy to install and will not fall off.

Sanhe motor, Siemens motor, WEG motor, ABB motor are optional. Voltage and Frequency can be customized. Protection Grade: IP55 Insulation Level:F

Aluminum-magnesium alloy base, low vibration, firm fixation, beautiful appearance and no rust.

* Greenhouse exhaust fan is low noise, large air volume and high efficiency.



4. Soil Tester

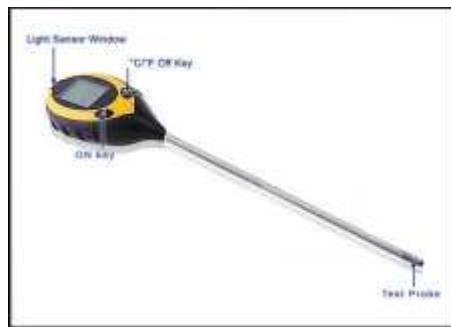
- **Soil tester with 4 functions test for PH of soil, moisture, light, temperature**

Electronic digital soil analyzer is the latest speed measuring devices, the main test soil pH, moisture, humidity, temperature and light intensity plants, using a 9V carbon-zinc batteries, simple operation, probe length 200 mm. The instrument parameters measured by the liquid crystal display. This instrument also has a battery low indicator and auto power off function (5 minutes automatic shutdown is not used.) It saves time and effort, and high efficiency. The instrument is suitable for planting flowers and grass, landscaping.

- **Features:**

measurement of the current environment of light intensity;
measurement of soil water content;
measurement of soil temperature and pH;
Large LCD user interface;
temperature metric conversion;
power shortage prompts;
Automatic power off function can be simple, easy to carry

- **Product size:** 122mm * 36mm * 63mm



Operating:

Please install the batteries before use, remove the probe protective cover.

1. light measurement:

- Press the ON button to turn the instrument
- Align the highest point of the light source sensor window.
- The current intensity of light will be displayed on the LCD monitor.

Tips: Do not block light or light sensors to create shadows.

2. PH range of measurement:

- Press the 【PH / TEMP】 button on the back of the PH value of the location
- the probe vertically into the soil, the need for testing as soon as possible. Do not probe too deep insertion of the side damage plant roots.
- Press the 【ON】 button to start the measurement.
- The PH value test will be displayed on the LCD screen.
- more than a few times come to the exact measurement value.

Tips:

- 1 vertical insertion probe, in the middle of the edge of the plant stem.
- 2 Gently push the soil survey in order to avoid damage to the probe.
- 3 If the measurement of the soil is too dry or too fertile can not accurately measure the PH value, the user can sprinkle a little water, then measure it again half an hour

3. Moisture measurement:

- Press the 【PH / TEMP】 button in the back of the instrument TEMP
- vertically into the soil as much as possible. Do not probe too deep insertion of the side damage plant roots.
- Press the 【ON】 button to start the measurement.
- Testing of soil moisture values will be displayed on the LCD screen.
- more than a few times come to the exact measurement value.

4. Temperature measurement:

- When measuring humidity at the same time, soil temperature will also be displayed on the LCD screen.
- Press 【°C / °F OFF】 button to set the temperature display is °C or °F.

Tips: If the user not to probe into the soil, then shows the exact temperature of the external space environment.

	sunlight (9 levels)	LOW-, LOW, LOW+, NOR-, NOR, NOR+, HGH-, HGH, HGH+
Test range	moisture(5 levels)	DRY+, DRY, NOR, WET, WET+
	PH value(12 levels)	3.5~9.0 pH (display resolution 0.5)
	Temperature °C	-9~50°C (16~122°F)



5. Agricultural Film

5.1 Greenhouse Film

Agricultural film includes Greenhouse film, Grain bag, Mulch film, Nutrient film, Plant bag. The film is widely used in agriculture, gardening and greenhouse.

Greenhouse film is thick, flexible material that comes in sheets of various thickness, high quality greenhouse film has ultraviolet (UV) protection and offers excellent tensile strength durability. This material is premium virgin PE, color in clear, yellow, green, blue, width in 0.5m~16m, thickness in 10mic~1000mic, 3-layer extrusion. Popular size for option: 2m, 4m, 8m, with thickness 120mic~250mic.

Nutrient film is waterproof, light reflective, hard wearing film for lining the walls and floors of greenhouses and growrooms. It can be used to cover up windows, make partitions too. This film material is premium virgin PE, color in white and black, or clear, the width in 0.5m~8m, thickness in 10mic~100mic, 3-layer extrusion. Popular size for option: 2m*50m*100mic, 3m*30m*150m, 4m*50m*150mic, 8m*50m*150mic.



5. Agricultural Film

5.2 Mulch Film

Mulch film is also as the ground cover, suppress weed growth, control bed temperature, protect against leaching of fertilizers, increase the efficacy of fumigation and protect the crop from touching the soil directly. This film material in 100% virgin PE, colors could be clear, green, white and black, width in 0.6m~8m, thickness in 10mic~350mic, 2-layer extrusion, and popular size for option: 1.0m*400m*25mic, 1.2m*400m*25mic, 1.5m*400m*25mic, 1.8m*300m*30mic.



Biodegradable mulch film is the same usage of the mulch film, suppressing weed growth, controlling bed temperature, increasing the efficacy of fumigation and protecting the crop from touching the soil directly.

Application: asparagus and other fruits and vegetables' growing, hydroponic poly film.

This biodegradable mulch film save more than 75% petrochemical resource, and reduce 60% co2 emission, comparing to the normal plastic. It is ECO friendly, as it is made from nature crops starch, non-toxic and no pollution, no residual damages to soil, animals, drainage, etc



Email: info@jychinasourcing.com Contact: Shirley Jiang

5, Agricultural Film

5.3 Weeding Mat

The weeding mat is used to cover the ground of the greenhouse shed floor and garden ground for potted flower, vegetable production, or seedling.

Excellent to prevent weed growth, avoid using herbicides, reduce maintenance, no need manual weeding, breathable, strong shading, very good durability, anti UV, anti aging, strong pulling resistance and wear resistance, normal service life of 3-5 years

This weeding mat is made of high density polyethylene (HDPE) by UV stabilizer and anti oxidation press.

Size: Width in 1m~6m, rolling length 100m



5. Agricultural Film

5.4 Silage Film

Silage film as PE stretch film is widely used on agriculture for wrapping, covering, packing, strapping, and this film is suitable for manual operation and machine work.

Moisture-proof, high intensity and transparency, stretch rate 50%~70%, excellent puncture and tear resistance, non-toxic, UV protection

100% new material PE stretch film, recyclable and environment friendly.

Size: width 100mm~1800mm, thickness 15mic~50mic, length 100m~1500m



5.5 Grain Bag

The Grain bag also called Silo bag or Silage bag, it is a new system which stores the grain and forages in a safe, economical and profitable way. The bags are made with a unique combination of advanced polythene, offering strength, softness, UV-resistance and low creep, this material is premium virgin PE, color in white over black, diameter of bag 1ft~10ft, thickness 120mic~350mic, 3layer extrusion, and popular size for option: 9ft*60m*200mic, 9ft*75m*200mic



5. Agricultural Film

5.6 Grow Bag

Grow bag as the plant bag, has anti UV + punching holes, bright white exterior reflects valuable light in your garden, back up to the plants and keeps containers cool under sunlight while the opaque black, interior inhibits algae growth and keeps the root zones healthy. This material in premium virgin PE, color in black, or white and black, thickness in 10mic~350mic, 2/3-layer extrusion. Popular size for option: 1/2, 1, 2, 3, 5, 7 or 10 Gallon.



6. Plant Netting

6.1 Trellis Netting

Plant netting, widely used as agriculture, greenhouse and garden netting, applies on trellis netting, harvest netting, shade netting, windbreak netting, anti-bird and anti-insect netting, and so on.

Trellis net is applied to support the vine plants growing and climbing on the net, material in 100% PP with UV protection, colors in green, white, or transparent. The size of opening mesh 15*17cm, and the rolling size could be 1m*1000m, 1.7m*1000m, 2m*1000m.



Material	PP+UV
Colour	White, green, and transparent color
Opening size	150x170mm, 100x100mm,
G/m ²	7~10g/sqm
Width	1m, 1.7m, 2m
Length	500m, 1000m
Quantity for 20' container	4 tons per 1x20' container
Tensile Strength	50N/m ²
UV content	0.3%-0.5%
Temperature range	-20 ~ +50° C



6. Plant Netting

6.2 Harvest Netting

- **Harvest net** is used to hold the olives or nuts, hanging between the trees with the strengthen corner holes, or put on the ground around the olive tree. Its material is HDPE and UV protection, any color is available, and various sizes for choice.

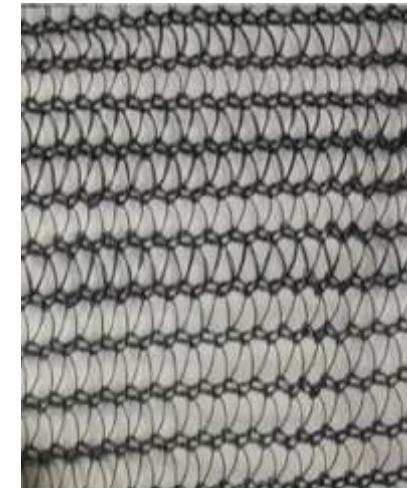


6. Plant Netting

6.3 Shade Netting / Windbreak Netting

Shade netting is also the windbreak netting or anti hail net, which applies to agricultural cultivation for vegetables, fungus plants, flowers, aquaculture, etc, with advantages of shading and heat preservation, also moisture preservation, and with the quality of strong stretching resistance, radiation resistance and corrosion resistance. This shade net provides shade against sunlight and to control temperature, in meanwhile, this also named windbreak netting or anti hail net can also protect plants against frost, wind and hail damage, and also can be used for temporary fencing, packaging applications, greenhouse covering. Material in HDPE with UV protection, colors can be in black, green, white, etc. for shade rate 30%~95%, and long using.

The aluminum foil shade screen or shade thermal screen used in high level greenhouse indoor, this shade screen can shade and cool the greenhouse, saving energy, anti-drip and frost, with advantages of shading, energy saving, ventilation or keeping moisture. The sizes can be customized.



6. Plant Netting

6.4 Anti-bird Netting

Anti-bird netting as the bird control product is perfect for draping over fruit trees or covering rows of grape vines, can also be propped up to form a bird barrier over vegetables, material in high density polyethylene (HDPE) with UV protection. The using life is more than 3years.



6.5 Anti-insect Net

Anti-insect netting applies to vegetable cultivation, it prevents pests and diseases with very small opening mesh eyes, strong product strength, radiation resistance, corrosion resistance, as well as non-toxic and tasteless. The material in HDPE and UV protection, color in transparent with good transparency, various opening sizes for choice: 0.07*0.27mm, 0.22mm*0.31mm, 0.27mm*0.77mm, 0.49mm*0.77mm, 0.95mm*1.05mm, 1.35mm*1.35mm, 2mm*7mm.



7. Garden Greenhouse

- Garden greenhouse is small greenhouse, easy assembly for DIY, any sizes can be designed to fit for your garden or outdoor. The aluminum frame has light weight with a strong structure, with aluminum color, or black, green color coated. The material of wall and roof is made by polycarbonate panels or PE cover material with UV, the greenhouse can be designed in a single or double sliding door, according to the size of greenhouse, and windows are available if needed. Screws and anchoring accessories are provided inside of the packing box. Plants and propagating seeds are protected well from too much cold or heat, or big wind, birds, pests. The durable and stable quality is guaranteed. You can choose the models or sizes from ours, or, we make your model and size according to your artwork.
- Garden greenhouse with seedling trays and shelves



Garden greenhouse with sunshade awning



Garden greenhouse with seedling trays and shelves

