

VerTechX

For a Smart Green World!



**MANSOURA
ROBOTICS**

Soybean





Soybean

Why Soybean ?

Soybeans are a widely traded commodity, and there is a strong demand for them in many parts of the world. Soybeans can be used in a variety of ways, including as a food source for humans and livestock, as well as for industrial purposes such as biofuels, plastics, and textiles and by providing the suitable conditions it will consume a less amount of water .

Cultivation requirements :

1-Climate: Soybeans require warm temperatures to grow, ideally between 20°C to 30°C (68°F to 86°F). They also need plenty of sunlight, so it's best to grow them in areas with at least 6 to 8 hours of direct sunlight each day.

2-Soil: Soybeans prefer well-draining and fertile soil with a pH between 6.0 and 7.0. The soil should also be free of weeds and debris. If your soil is too acidic, you can add lime to raise the pH level.

3-Water: Soybeans need consistent moisture to grow, but they don't like to be waterlogged. Make sure to water them regularly, but avoid overwatering, which can lead to root rot.

4-Pest and disease control: Soybeans are susceptible to various pests and diseases, so it's important to keep an eye out for any signs of damage or infection. You can use natural or synthetic pesticides and fungicides to control these problems.

5-Fertilizer: Soybeans require nitrogen-rich fertilizer to grow. You can use organic fertilizers such as compost or manure, or you can use synthetic fertilizers.

6-Planting date: Soybeans are typically planted in the spring or early summer, depending on the region and climate. Planting too early or too late can affect yield potential, as soybeans require a certain number of growing degree days to mature.

Suitable conditions to grow ::

Temperature	(20 ~ 30)°c
sunlight	6 to 8 hours a day
soil moisture	(50~75)%
humid air level	(60~80)%

These needs can be provided only in like four months a year but in VerTechX it can be provided any time 😊 .