

COMPANY PRESENTATION



ESDE



**TISSUE LAB
FARM**

• Shaping the future with ESDE MAKINE

ABOUT OUR COMPANY

Since 2001 we've been providing customers around the world with safe machines and installations from our premises in Karatay in Konya.

Esde Makine Turkey produces a complete range of seed processing equipments and peripheral equipment from a simple Helezone Spiralling to complex Full Automatic Seed Film Coating Machine.

- ✓ Innovative and tailor-made machines, designed, manufactured and installed according to the highest standards.
- ✓ Strict quality requirements and the applicable standards and regulations .
- ✓ Produce and develop our own control panels and control software.
- ✓ Testing the machines extensively which makes them very reliable.
- ✓ Building complete installations and projects.
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ESDE

WHY CHOOSE OUR SERVICES

We are also self-critical at Esde Makine. We attach great importance to the quality of our machines. That is why we continuously analyze our processes and adapt where possible. This is the only way we can guarantee the high-quality machines as you have come to expect from us for more than 20 years.

In addition, we are committed to our own R & D department. We continue to develop new machines and innovate existing machines. Our team consists of professional Bioengineers and Agriculture specialists.



We offer comprehensive after-sales service to our clients, which includes maintenance.



We can monitor the performance of our machines via Internet in order to analyze and repair any malfunctions effectively.



Esde Makine Turkey offers a one-stop shop for innovative seed processing.



OUR BUSINESS SEED PROCESSING & PLANT TISSUE LABS

01 Seed Processing

Esde Makine Turkey produces a complete range of seed processing machines & equipments.



02 Key-Ready Plant Tissue Labs

TissueLab Farm provides state of the art tissue culture laboratories, equipments & growing solutions.



TissueLab Farm provides the customer with everything required to build a state-of-the-art laboratory, whether are established or just beginning of the journey in the world of plant tissue culture.

Chambers for growth, equipment for workers or even consultancy are a few of the many services provided. **TissueLab Farm** can help customers acquire not just one of our individual products but also with a complete design of the tissue culture plant factory.

SEED PROCESSING MACHINES

Seed is the start of all food production. At the very beginning of the food supply chain are seed companies whose work is to breed, produce and distribute seeds of agricultural, horticultural, and ornamental plant species. Esde Makine is a vegetable seed expert for seed extraction equipment for sure.

01

Extraction

We have all extraction technologies available to save seeds from tomato, pepper varieties, eggplant, cucumber, melon, watermelon fruits crops without damaging them.

03

Disinfection

Customers will run the risk of pathogens and seed-borne diseases attacking their precious seeds. Fortunately, Esde Makine offers you a solution to sanitize your precious seeds.

05

Pelleting & Film Coating

Irregular seed shapes can be made round using pelleting technologies. When customers started to work with Esde Makine Turkey rotary pelleting machines, their process capacity rapidly increased. The customer has all advanced pelleting operations: powders feeding, pan and rotary coaters, calibrating, sizing, and fluidized drying.



07

Packaging & Sorting

The accuracy of how we fill, count, and pack seeds are not only important for customers as a seed company, but also for customers the growers want to receive what they paid for.

02

Drying

The drying process is such a critical step in maintaining the potential and viability of your vegetable seeds, that is why customers use Esde Makines drying solutions.

04

Cleaning

Esde Makine Turkey advises customers on which separator to use. If the separating and cleaning technology is based on size, shape, weight, or colour, we have all available for breeding- and processing stations.

06

Priming

Seed priming involves procedures that initiate the germination process before the seeds are planted, resulting in higher germination rates and faster emergence of seedlings. Customers are very satisfied with how our priming machine doing this delegate job.

NEW WAY OF PLANT BUSINESS



TISSUE LAB FARM

Transform the future by invoking cutting-edge innovations and technology in customers sapling production process. TissueLab Farm provides the latest and unique growing solutions that are multi-layered and also avant-garde laboratories for tissue culture. We offer our customers a low-risk, safe and reliable method to develop a protocol for growth and material to start with.

TissueLab Farm provides you with everything required to build your state-of-the-art laboratory. The TissueLab Farm products are small, fully controlled, and automated and hence are the greenhouses of the future.



Tissue Culture

Mass Production with the perfect protocol created for a crop and its variety.

Young Plant Production

This ensures a shortened growth period and hence the customers are able to produce more plants per year.

Breeding & Selection

In principle, each individual plant cell can regenerate an entire plant. They are totipotent.

Somatic Embryogenesis

We can define SE as a process in which embryo-like structures are produced using somatic tissues.

Finished Crops

Plant tissue analysis is a valuable aid in crop management. It can be used for making fertilizer recommendations for certain crops.

TISSUE LABORATORY EQUIPMENT LIST

TissueLab Farm is a global supplier of plant tissue culture and seed breeding laboratories.

TissueLab Farm provides you with everything required to build your state-of-the-art laboratory, whether you are established or just beginning your journey in the world of plant tissue culture.

Chambers for growth, equipment for workers or even consultancy are a few of the many services provided. TissueLab Farm can help you acquire not just one of our individual products but also with a complete design of your tissue culture plant factory.



- ✔ **Plant Growth Cabinets**
- ✔ **Biosafety Cabinets**
- ✔ **LED Grow Racks**
- ✔ **Glass Bead Sterilizers**
- ✔ **Laboratory Furniture**
- ✔ **Plant Cutting Set**
- ✔ **Laminar Flow Cabinets**
- ✔ **Plant Growth Racks**
- ✔ **Autoclaves**
- ✔ **Industrial Dishwasher**
- ✔ **Glass Jars**
- ✔ **Track & Trace Software**

and much more



Biosafety Cabinet



Plant Growth Cabinet

SEED PROCESSING MACHINE LIST

Esde Makine cooperating for many years with seed companies and deliver also tailor-made solutions. Esde Makine offers their customers a total package of machines and equipment for all steps of the seed processing process. Our Sales Department with its own sales engineers creates technical high-level solutions, including 3D drawings for quotations for special machines and customized total solutions.

- ✔ Seed Extraction Machine
- ✔ Transporting Helezone
- ✔ Seed Incubation
- ✔ Seed Drying Machine
- ✔ Seed Air Seperator
- ✔ Seed Brushing
- ✔ Rotary Pelletizing
- ✔ Filling and Capping Machine
- ✔ Seed Disinfection Sytem
- ✔ Fruit Conveyor
- ✔ Seed Centrifuge
- ✔ Breeding Seed Drying
- ✔ Seed Blower
- ✔ Seed Film Coating Machine
- ✔ Seed Priming
- ✔ Seed Ozmotic Priming Unit

and much more



Drying Machine



Seed Extraction Machine

THANK YOU

Shaping the future with ESDE MAKINE



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