

END-TO-END AGRICULTURAL SOLUTIONS

Professional Planning and Vocational Training.
Delivering Turnkey Projects.



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ABOUT US

Avnon Academy is part of Avnon Holdings, a derivative of the Avnon HLS Group activities over the past thirty years that can be applied to other market sectors not directly related to HLS and defence, such as Agriculture. The foundations of Avnon Academy Group are built upon years of accumulated knowledge, experience and uncompromising professionalism.

Avnon Academy provides professionals with new insights and capabilities to implement and help build a safer and sustainable future.

Our mission is to create an innovative educational platform, combining field-proven expertise with advanced teaching and research methods, creating relevant, outstanding, and up-to-date training programs in various fields.

Directing the spotlight on Agriculture, we combine Israeli innovation in this field with our proven training capabilities, delivering our clients with comprehensive solutions. From planning the budget, purchasing equipment and goods, and up to vocational training and the entire operation of agricultural facilities.



SERVICES

FEASIBILITY STUDY & BUSINESS PLAN

Avnon Academy's team of agronomists and financial experts will visit the project's site to survey the designated location for soil quality, topography, water, existing infrastructure, markets & marketing options.

Our experts are recruited to provide a plan that integrates solutions and technologies customisable to your requirements to provide you with the most profitable agricultural project.

A modern agricultural project requires professional planning with an adaptation of the right technological solutions that will meet the local conditions, climate and designated markets demand.



FEASIBILITY STUDY & BUSINESS PLAN INCLUDE:

- Client/investor objectives
- Project scope and future project expansion
- Survey of the designated location: Soil, topography, water, climate and existing infrastructures
- Optimal agriculture technology & engineering design
- Market research and marketing plan
- Financial & risk analysis: CAPEX (Capital Expense), OPEX (Operational Expense), Anticipated Yields/
- Revenues, IRR, NPV, Cash Flow and more
- Logistics needs: post-harvest, cooling, transportation and more
- Vertical integration: processing lines, feed production, manure disposal and more
- Project execution plan and timeline
- On-going management

MANAGEMENT

CONSTRUCTION AND SUPERVISION

Avnon Academy's team of experts combines professional agricultural know-how and hands-on experience. Avnon Academy provides an entire range of engineering services needed for your agriculture project while meeting authority approval requirements.

Our team of experts will manage the project on-site, which includes infrastructure development, equipment sourcing, construction of the required structures, implementation of the designed agricultural technologies & required systems that would result in a current agricultural project.

Avnon Academy will ensure the project is constructed within the planned schedule while meeting the quality requirements and approved budget.

TRAINING & KNOW- HOW TRANSFER

Avnon Academy's training program includes on-site practical training to the project management and entire team of workers as well as off-site theoretical and training. We strongly believe in supporting your new project to ensure its success. Our training and support are targeted to hand over the project to your local team, which will take over the entire operational responsibility.

ON - GOING MANAGEMENT

A modern technological & capital-intensive agricultural project today is a sophisticated, complex and profitable business. Avnon Academy understands that success comes from professional management during the early years of the project. Avnon Academy will relocate management for the first critical growing cycle, or first years of the project, to make sure that the project is being managed appropriately.

GROWING MATERIALS & SUPPORT

Avnon Academy's team will provide you with the needed inputs for your farm, such as growing substrates, fertilisers, pesticides, seeds, and irrigation equipment, as well as vaccinations, medicine and growing hormones if the field is livestock. Once the local management and workforce are ready, Avnon Academy will provide a complete handover.



POULTRY

Avnon Academy implements the advanced technology and modular designs. Our turn-key solutions deliver a wide range of professional services to build and develop a modern integrated poultry farm project. A top-down planning methodology is used, considering all the elements that create a cost-efficient production farm that allows potential future expansion.

Avnon Academy's team of experts will provide you with a complete solution for your chosen poultry farm, such as:

- Broilers integrated line
- Layers and pullets
- Breeding

Avnon Academy takes into consideration the markets' demands and correlates them with the farms' requirements.

Hatchery & Genetic line

Through extensive experience in both domestic and overseas projects, Avnon Academy offers the best genetic line suitable for your farm. We work in close cooperation with leading breeders and R&D centres in Israel, using technologies that enable us to integrate state-of-the-art hatching incubators and breeding farms.

Housing

Adapting the required structures (Hens, Pullets and Broilers) to local conditions is the basis for a successful project. The modular & smart systems we offer will ensure the poultry's optimal ventilation and living conditions to produce maximum yields while adhering to the international laws and standards.

Auto-computer controlled systems

Will operate the following systems: artificial light, climate control, feeding, drinking, egg collecting & waste treatment systems to ensure optimal production, maximum yields and profitability.

Feed mill and food center

The key to successful production starts by securing the quality of the consumed food. Avnon Academy offers the best available know-how and experience in the field of food production. The food centre technologies include feed mills, vertical storage, "smart" silos and grain intake combined with weight and volume sensors connected to the main computer system and more.

Bio-Hazard (health control & infection privation) & Engineering

During the planning of a modular integrated farm, our team of engineers and specialists consider all lay-out aspects such as topography, proper drainage, good access roads and particularly Bio-hazard elements.

Processing plant

Avnon Academy will establish the optimal processing plant and its variety of produced food based on the farm's capacity and market demand. Our food engineers will adapt the taste of the products to fit the local market. Products can include: chilled & frozen products as smoked pastrami, canned meat, frozen fried dishes and more.



100%
Quality

POULTRY EQUIPMENT

Ventilation dumpers
Different size, manual or auto - operated.



Feeding troughs
All sizes are available.



Light traps
Different sizes are available



Climate control
■ Fans
■ Automation



Drinking tips



Layers cages & Batteries
Different sizes and models are available.



DAIRY FARMING

Avnon Academy has the capability to create and customise your dairy farm enterprise to meet your specific requirements. Our services are based upon the “Israeli concept”:

- Intensive use of technology
- Years of experience
- R&D approach
- The world’s highest yielding cows (average of 12,000 L/year)
- Cattle Genetics & Fertility
- Avnon Academy offers you a turn-key, end to end solution

Cattle Genetics & Fertility

Once the primary herd is selected, the genetic line must be strengthened year after year using artificial insemination or frozen embryos. Avnon Academy works closely with the leading R&D centres in Israel, enabling us to provide your new milk farms with the best suitable genetic solutions available.



Cow Shades and Farm Buildings

The heart of a dairy farm is the animal shed, which considers the different stages of the animal (milking, pregnant, young calves, treatment area yard and more) and is adapted to climate conditions. The farm requires additional structures such as a milking parlour, storage, milk processing, offices etc. Avnon Academy’s experts will design and supervise the construction locally, on-site.

Field crops and fodder

Since milk production starts with the quality of consumed food, Avnon Academy offers its expertise and experience in food production and food centre technologies. Our solutions are designed according to the animal’s age, health and other criteria while considering economic factors. Avnon Academy will design and construct your food centre for the best animal feed and milk production consisting of:

- Concentrated food cells
- Burns
- Silage pit
- And more



Milking Parlor

Consumers and retailers emphasise milk quality. Avnon Academy delivers you the right milking parlour solution for your farm (Herringbone, Parallel, and Rotary) using state-of-the-art milk meters and milking equipment.



DAIRY - MILKING

Parallel and herringbone milking parlor

Consumers and retailers are emphasizing milk quality. Avnon Academy delivers the right milking parlour solution for your farm (Herringbone, Parallel, and Rotary) using state-of-the-art milk meters and milking equipment.

Small scale milking machines



Parallel and herringbone milking parlor



Herd management equipment



Rotary milking parlor



Cow automated weighing scale



MILK PROCESSING PLANTS

We can offer you a full turn-key solution for milk processing plants to maximise your earnings. "Second hand", high quality, used equipment can be supplied upon request.



Milk pasteuriser



Row milk tank 1,600-8,000 liter

High pressure single stage homogenizer



Cream separator
Processing tanks



Processing tanks



Automatic
pouch
filling machine



Continual ice
cream freezer



Automatic cup
filling & sealing
machine



AQUACULTURE

World Fishing Problems & Solutions.

Billions of people rely on fish for protein. For centuries, our seas and oceans have been considered limitless sources of food. However, increased fishing over the last 50 years has pushed many fish stocks to the point of collapse – The solution, Aquaculture!

Overfishing: According to the WWF (World Wildlife Organization), more than 85% of the world's fisheries have been pushed to or beyond their biological limits and are on the edge of extinction, as well as several substantial commercial fish populations.

Pirate fishing: Illegal, unregulated, and unreported fishing is responsible for 50% of the consumed fish in some places. The value of pirate fish products is estimated between \$10-23.5 billion annually (by WWF).

Solution: Aquaculture technology is a cost-effective solution that enables individuals to grow and harvest fish properly while decreasing the threat to existing fish in our seas and rivers. The diminishing supply and increasing prices economically support new farm activity and secure the business's demand and profitability

Avnon Academy offers state-of-the-art technology with a modular package of services supported with continuous consultation. A modern integrated sustainable fish farm must take into consideration many elements. We will design a tailor-made suite to meet your desired project requirements.

Avnon Academy offers state-of-the-art technology with a modular package of services supported with continuous consultation. A modern integrated sustainable fish farm must take into consideration many elements. We will design a tailor-made suite to meet your desired project requirements.

Avnon Academy's services and turn-key solutions are comprised of all the elements required to create and maintain a sustainable, intensive, and super-intensive fish production farm.

- **Production technology** - Avnon Academy offers its know-how in selecting the ideal technology or combination of technologies to suit local environmental conditions & markets.
- **Top broodstock** - selected carefully to meet local conditions and its market targets.
- **Fingerling farm** - to supply the fry for the main culturing farm, at the same time, fingerling can also be sold to other local aqua farmers in the region as an additional profit centre for your project.
- **Food centre** - fish feed comprises about 60-80% of all production costs! A successful production is based on the quality of consumed food. Avnon Academy offers our know-how and experience in the field of nutrition and dumlping.
- **Production in addition to food centre technologies** - A modern food centre is an integral and vital part of your fish farm project.

Indoor Aquaculture System

It is considered the most advanced super-intensive technology. The indoor aquaculture system offers a fully automatic, computerised, all-in-one control system located under one roof. The indoor system maximises the yield of any given production area and includes all production elements:

- Fish nursery & fry production tanks
- Fish production tanks for different fish size
- Water treatment & oxygen dissolving system
- Biological filtering units
- Drainage collecting and recycling system
- Feeding system
- Fish processing plant
- And more

Earth ponds and cages

Avnon Academy offers you all the production elements needed to maximise yields and improve the farms' profitability. We supply an automatic feeding system, oxygen generating system, harvesting system, production cages for sea & freshwater environment, fish counters and more. All designed and allocated by our team of experts.

Laboratory & health control

Avnon Academy turn-key solution considers the need for veterinarian control, medicine & hormones (i.e., sex reversal) and an implementation program. Our team of specialists will design and set up your laboratory while providing all necessary consultation 24/7 during the first year.



FISH PROCESSING & PRODUCTION

This is one of the main links of the farm's vertical integration business approach. Processing the final product under the same roof provides independence and flexibility to deal with continuous changes in the fluctuating markets. Avnon Academy's complete solution includes the following elements:

- Transportation of the live fish to the processing line in zero time
- Fast chilling of the live fish before processing
- Sorting unit
- Scaling and bleeding machine
- Freezing and ice production units
- Waste and raw materials treatment facility

Fishing nets in different sizes



Screw elevator



"On-field" sorting table



Paddlewheel



Auto scaling machine



Sorting and working tables



Live fish Transporting wagon and tanks 1-26 M3



Feed silo



Feeding equipment



“BACK DOOR FARMING” - THE SMALL SCALE SOLUTION

Highly efficient, modular, easy to operate, plug & play RAS (Recirculation Aquaculture System).

Advantages

- Low cost - Highly affordable
- Operates with all aquaculture methodologies
- Significantly reduces water & electricity use
- Small footprint
- Plug & Play
 - easy set-up
 - easy to operate
 - low maintenance

Production (One unit)

- Catfish - *11 Ton/Annually (1 Kg market size)
- Tilapia/Sea Bass - *10-16 Ton/Annually (0.6 Kg market size)
- Fingerlings - *180-200,000 annually (5g stoking size)

*The combination of more than one unit per hub increases efficiency dramatically!

System requirements

Infrastructure

- Land: 300m2 cleaned and leveled
- Electricity: System requirements are 2.5-7kW/h
- Water: Availability of 3m3/h fresh or brackish water

Operation

- Feed: 45% protein 8% fat or 35% protein 6% fat
- Labor: 1-3 units will need 2 workers only!

Optional fish types

- AFRICAN CATFISH
- TILAPIA
- SEA BASS
- MORE....



GROW
your own
fish!!!

WATER INFRASTRUCTURE

Irrigation Infrastructure

Avnon Academy offers advanced water technology & turn-key solutions. The comprehensive solution will take into consideration the end-to-end water system, which includes the central pumping station, control head, filtering system, air & other valves, water meters, main & sub-main pipes, irrigation & nutrition controllers, irrigation systems, drainage collection and water treatment units.



IRRIGATION

Irrigation techniques:

Drip Irrigation

An ideal solution for the irrigation of orchards, open field crops and greenhouses. Drip irrigation offers the best water saving system whilst providing the optimal irrigation amount to the plant regardless of the terrain's topography.

Overhead & Micro sprinklers

High water distribution is ideal for large areas and the germination period. The modern sprinkler consists of a high accuracy rate to ensure the field's uniformity; the large variety and easy line shifting allows a wide range of solutions suitable to your needs.

Under tree sprinklers

Low angle, low-volume sprinklers, fine water droplets prevent the formation of crust and drainage, providing perfect germination conditions and easy installation—ideal for orchards and germination conditions.

Misters & Foggers

Provides uniform coverage under protective cultivation whilst using a Low-pressure Leakage Prevention Device (LPD) for perfect pulsed the operation, this device is ideal for misting & cooling.

Irrigation Machines

It is a form of overhead sprinkler irrigation consisting of several segments. This system is ideal for large field crops as it's the most cost-effective, large scale sprinkler system and can be easily adjusted for different kinds of crop cultivation requirements.



IRRIGATION

Flat or round drippers for different capacity

Heavy-duty pressure-compensating (PC) and anti-syphon (PC AS) thick and thin-walled drip lines models for all crop types.

- Field crops and vegetables
- Orchards and other multi-seasonal applications
- Subsurface drip irrigation (SDI)
- And more



Button drippers

- Heavy Duty Pressure-Compensating (PC) & Compensating Non-Leakage (CNL) button dripper
- Greenhouses, nurseries, orchards, Vineyards, landscapes and garden plots
- Pulse irrigation and irrigation in soilless conditions
- Prevents surplus drainage in low places (CNL model)



Pointer stakes & accessories

This Delivers precise irrigation of pot plants and grow-bags in greenhouses, nurseries and landscaping.



Overhead sprinkler

Impact sprinklers for field boundaries achieve high uniformity when combined with full-circle sprinklers. Full coverage overhead irrigation of field crops and pastures.

MAIN FEATURES

- Designed explicitly for irrigating field boundaries and edges
- Unique and easy to replace plastic part-circle mechanism
- High water distribution with spacing up to 20 m
- Colour-coded bayonet nozzle for easy service
- Integrated stream-straightening vane for maximum range
- Sand and dust protection sleeve ensures reliable operation and durability



Micro sprinklers

For irrigation, propagation and micro-climate

- Horticulture and viticulture
- Orchards
- Greenhouses and nurseries
- Landscapes

MAIN FEATURES

- Bayonet coupling
- Modular construction for simple use and modification
- Wide range of wetted patterns with 9 different inserts
- Excellent water distribution
- Leakage Prevention Device (LPD)



Foggers and misters

For optimal cooling or humidifying of greenhouses

- Reduces greenhouse temperature
- Increases greenhouse humidity
- Provides perfect conditions for plant propagation

MAIN FEATURES

- Extra fine droplet size (55 microns @ 4.0 bar)
- Range of flow rates for different precipitation rates
- High water distribution uniformity and coverage
- Chemical resistant raw materials
- PE and PVC connections
- Easy installation and service
- LPD (Leakage Prevention Device) for simultaneous startup and shut-down of the system
- High pressure LPD and Medium pressure LPD are available



GREENHOUSES

Avnon Academy provides state-of-the-art greenhouse solutions offering a wide range of models and accessories while taking into account environmental conditions, market demand, cost efficiency and more.

Modern intensive agriculture considers the plants' needs and the grower's desire to maximise yield while decreasing the risk and production costs (i.e. the number of pesticides and herbicides consumed).

A controlled agriculture environment provides the optimal answer!

In addition, the controlled environment meets standard world requirements such as "Good Agriculture Practice" (GAP, Global GAG, ISO, etc.), "Product Safety" and "Product Quality" whether to "Export Oriented Markets" as well as for the local "High End" markets. Applying a controlled environment decreases the probability of catastrophic events such as heavy showers, insect attacks, and extreme temperatures in the winter and summer months.

Applying greenhouse agro-techniques enables year-round production with the possibility to set the main yield peak according to the market demand, export or local. Avnon Academy strives to provide the best greenhouse model suitable to your needs from the large variety displayed in this catalogue and more available upon demand.



Make it
green.



GREENHOUSE MODELS (PE)

“YARIN” Classic

One of the best selling models. Suitable for a wide range of climates. Roll-up curtains on sidewall openings (electrically or manually operated). 50 MASH Insect Prof Net on all openings.

Specifications:

- Span width – 8, 9.6 m
- Gutter height – 4-5.5 m
- Trellising load – 25 kg/m²
- Wind reinforcement – 122 km/h



“YARIN” open roof

One of the bestselling models. Suitable for a wide range of climates. Rain protective roof opening. Roll-up curtains on sidewall openings (electrically or manually operated). 50 MASH Insect Prof Net on all openings.

Specifications:

- Span width – 8, 9.6 m
- Gutter height – 4-5.5 m
- Trellising load – 25 kg/m²
- Wind reinforcement – 122 km/h



“Tropical Saw tooth”

Suitable for hot climates. Robust structure for tropical storms. Roll-up curtains on sidewall openings (electrically or manually operated). Roll-up roof curtains. 50 MASH Insect Prof Net on all openings.

Specifications:

- Span width – 6.4 m
- Gutter height – 4-5.5 m
- Trellising load – 25 kg/m²
- Wind reinforcement – 122 km/h



POLYCARBONATE GREENHOUSE STRUCTURE

“Ori” double roof slope

This structure was specifically designed for extreme weather conditions. The operated roof opening on one side or double (Butterfly) Side R&P electrically operated Snow reinforcement trusses along with the roof frame.

- Span width – 8, 9.6 m
- Gutter height – 4-5.5 m
- Trellising load – 25 kg/m²
- Wind reinforcement – 150 km/h
- Snow load 50-100 kg/m² (according to local standards and requirements)



Polycarbonate – the advantages

- “Transparent Steel”, the toughest polymer, higher impact resistance to weight ratio than steel
- Fire resistant, does not flame-drip
- Wide service temperature range -400 to +1200
- Top side UV protected by co extrusion
- Optional two-sided UV protection
- Highest light transmission of all roofing and glazing materials: 90% LT dry and 92% LT when wet
- Maintains 85% LT at least for 12 years: Field proven in the US and Israel
- Simple and reliable installation of all greenhouse cover materials
- 25 years of service (Almost “Zero claims”)
- Over 25,000,000 m² installed all over the world, in extreme weather conditions of -30°C to +50°C



NET HOUSES, TUNNELS & MORE

Tunnel

This is a simple and effective solution for harsh topographic conditions. It is specially designed for hot and humid climates.

Roll-up curtains on side walls openings – optional! 50 MASH Insect Prof Net on all openings – sidewalls and roof.

Specifications:

- Span width – 9, 10, 12 m
- Trellising load – 25 kg/m²
- Wind reinforcement – 90 km/h



Net houses

A low-cost solution for growers that want to increase yields, product quality, and plant disease suppression with a limited amount of investment.

An ideal solution for arid and semi-arid climates. The structure models are: “Flat roof” or “double slop”.



“BACK DOOR FARMING” THE SMALL SCALE SOLUTION

Small scale farmers solution

This commercial 1,073 Sqm greenhouse kit is an affordable, all-inclusive greenhouse package that includes a professional greenhouse, irrigation & fertigation system. It is designed to be the best value for money for home growers, restaurant owners, or farmers who need small structures.

Advantages

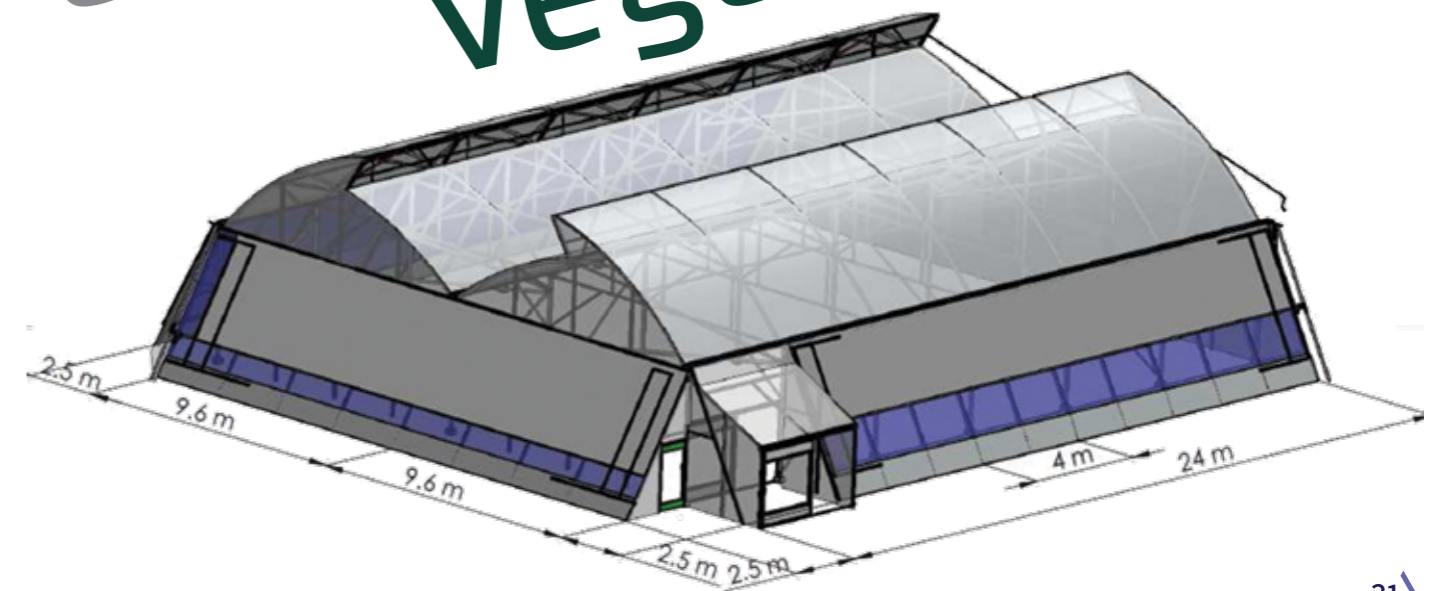
- Commercial affordable, all-inclusive, greenhouse package
- Great for remote areas, no electricity needed
- Gravity irrigation & fertigation system*
- Suitable for warm tropical climates
- High efficient, natural ventilation

Technical data

- Gable span of 8m
- Gutter Height of 4m
- Structure size of 1073sqm (37x29m)
- Reinforced for trellising load of 25 Kg/m²
- Height of opening - 1.10m
- No electricity needed*

*pressure irrigation is available upon request

Grow your own
vegetables!!!



CLIMATE CONTROL

Implementing a controlled environment offers various solutions required for different conditions, such as heavy showers, drop in temperature during the winter months & excessive heat during the summer.

21" – 28" circulating fans

Reduce humidity and help in circulating the air inside the greenhouse, helps in forming homogenous spraying and is a must in any nursery.



Extraction fans

Extract hot air from the greenhouse. Include "auto-close shelters" to prevent insects in the greenhouse.



Gas and Oil Heaters

Avnon Academy offers you a new generation of heaters, which has the main character to be very versatile for the agricultural or industrial user.

Shade nets and thermo screens

Different colours and light transition percentage are available in different sizes.



Wet pad

This is the most efficient and homogenous type of cooling. Different sizes and thicknesses are available, including accessories.

Automation, motors and gears for screens and curtains

Tailor-made for your needs, including all accessories and electricity control boards.



Control your climate

HYDROPONICS, SOIL-LESS & SUBSTRATES

Coconut and different growing inert substrates (Volcanic gravel, Rock wool, etc.) for modular bedding troughs offer efficient disease control & growing substrate. In addition, the system allows the easy change of cultivated products to meet the fluctuating market demands.



Soiless trough

- Easy to install – size and length may be customized to meet your specific needs.
- Suitable for large varieties of substrate (coco-peat, volcanic gravel, rock wool).
- Suitable for large varieties of crops (vegetables, fresh herbs, flowers).



Grow bags – troughs and drainage

- The ultimate solution for “grow bag” drainage collection.
- Easy to install – customized for your needs in size and length.
- Suitable for large varieties of crops (vegetables, fresh herbs, flowers).



Growing substrate

A large variety of growing substrate in Grow Bags and Bulks

- Peat moss
- Coco peat
- Volcanic gravel
- Perlite
- Vermiculite



OPEN FIELD CROPS



Field crops require a high level of mechanisation. Today, farmers are investing in advanced technologies and equipment to ensure the success and productivity of crops and reduce labour and costs.

Avnon Academy delivers advanced “Turn-Key” solutions for field crop enterprises. The combination of advanced farming practices, mechanised tillage, IPM (Integrated Pest Management), modern post-harvest methods, and proper management ensure the project’s success.

The fundamentals of the production plan are:

- **Crop rotation** - allows minimum soil deterioration and destruction, optimizing field performance and manpower management.
- **Professional management** - enables all field and post-harvest tasks to be executed in the most proficient and timely manner.
- **Application of advanced agro - technology** - ensures optimal in-field performance.
- **Mechanized cultivation** - for the assurance of uniform fields and optimal use of resources & agro- inputs.
- **Modern post-harvest methods** - ensures minimal yield loss, optimal storage and marketing.
- **Top quality hybrid seeds** - allows uniform germination, as well as maximal yield and crop quality.
- **Pressure irrigation and fertigation** - during dry season to allow optimal crop development.
- **IPM (Integrated Pest Management)** - minimizes chemical application and environmental hazard.
- **Crop planning** - cultivation, plant protection and weed control are conducted in accordance to the needs of each crop, taking into consideration potential effects on future crops.

CULTIVATING MACHINERY

Avnon Academy's team of specialists will provide you with the best-suited cultivation tools to meet your needs. We have a wide range of equipment suitable for large- or small-scale farming. All tools are produced or designed by Avnon Academy to suit both your needs and conditions on-site. Pictured below are a few of the tools we offer. Additional and tailor-made equipment can be suited and provided upon demand.

Customized implement for "one move" field cultivation

This tailor made product takes into consideration the type of soil, tractor size and crop type to maximize productivity.



Disc plough

Available with 3,4 or 5 discs.



Compost speeder

For effective side spreader "into bed" is available as well as back spreaders.



Field cultivator

Collapsible for easy transportation on road.



Soil motivator and bed shaper

Available also for one bed only or HD "rock crusher".



Subsoiler

2, 4, or 8 Subsoiler legs, for "deep cultivation" without damaging the soil structure.



PLANTERS AND SEEDERS

Different crops, soils, topography, and existing machinery require seeding/planting tools for maximum effectivity.

Avnon Academy will offer you tools that fit your specific requirements. A variety of implementation models are available for big or small-scale farms.

Field crop seeder

Collapsible, for easy transportation, the number of seeding units can be customised, a fertiliser tank and markers are optional but highly recommended.



Vegetable seeder

Fertilizer tank - optional.



Potato planter



Seedling planters

As the growing period is short and maximum yields are requested, quality seedlings should be produced in the nursery and planted mechanically in the field.



Manual and semi manual seeders

Are the optimum solution for greenhouses and small-scale farmers.



SPRAYERS

Different types of crops (field crops, vegetables, orchards and more), cultivation methods (open fields, greenhouses, net houses, etc.) require resilient spraying tools for pesticides and herbicides. Avnon Academy offers equipment for large- or small-scale farming. We will provide you with the best-suited set of tools to fit your exact requirements.

Field sleeve air sprayer
Best coverage with folding spraying arms



Sleeve air sprayer for greenhouses and protective cultivation



Air "sleeve" sprayer for orchards
3 point tractor connected



Motorized air sprayer
Designed for protected cultivation and orchards



Small scale and costume sprayers
For nurseries, indoor commercial use, different sizes, capacity and spraying "drop sizes" are available



Field crop sprayer
3 point tractor with connected folding arms



Backpack sprayer
Moto-sprayer and manual sprayers are available



SEEDS

Avnon Academy develops and produces high-quality hybrid seeds. We have a wide variety of vegetable crops such as peppers, tomatoes, cucumbers, lettuce and more. In addition, we can supply you with a variety of field crop seeds, such as maize, corn, soybeans, and more (not GMO).

Avnon Academy sells its seeds globally to growers, farmers, and projects established and managed by Avnon Academy. Our company's specialists can help you choose the best varieties for each specific project under any climate conditions. Avnon Academy sells a variety of seeds in many countries, including the USA, Mexico, Georgia, South Africa, the UAE, Angola, etc.

Our seeds are available all year round and selected based on their performance, quality, yield, resistances, suitability to the various target markets, flavours, and environmental conditions.

Avnon Academy provides "on-site" screening and variety-trials for better adaptation to growing conditions in different regions, growing seasons and market requirements.

Our people and our products are our strength!

We are focused on developing dependable varieties that drive real and sustainable profit advantages for our customers. We are a unique and compact company. This means we promote short communication lines between our customers and us, resulting in a real market focus. We listen to our customers closely in order to fully understand the challenges and issues they are dealing with.

Our varieties come in an assorted range of colours, shapes, sizes and resistance. Different assortments are available by demand.



RT - 2020 Fruit shape: Globe.

Globe seedless type watermelon, Triploid Highly vigorous plant with very healthy vegetation. Very productive, easy to set variety. Fruits very uniform, intense attractive red color flesh and light green peel.

Fruit size:
8-9 kg*.

Resistances:**
Anthracnose 1.

GAT - 1016 Fruit shape: Globe.

Galia type melon with high yield, very early type. Uniform delicate netting and very sweet flesh. Very good shelf life and excellent for export.

Fruit size:
1000-1500 grams*, light green and very tasty flesh.

Resistances:**
F1-2, PM1

Swing Echo

Cylindrical glossy dark purple fruit, big vigor plant with high yield

Fruit size:
20X5 cm, 220-255 grams*

Lettuce - Olly

Iceberg type lettuce variety with slightly flattened globe and smooth rib and butt appearance. Reaches the average weight of 300-700 grams*.

Maturity after 60-70 days.

Tolerance**:
Bolting, Tip burn.

* Fruit size will vary, depending on growing conditions ** Field resistance *** All images for illustration only.

TOMATO SEEDS

ATG - 415 Fruit shape: Beef.

Indeterminate tomato for growing under protective cultivation. Extra early production. Vigorous and productive plant with short internodes. Growing season: autumn transplanting and spring short crop transplanting.

Fruit size:
250-300 grams*, crispy structure, deep red color, very good shelf-life and firmness.

Resistances:**
Tmv, V, F1-2, N, Cr, C5.

AG-315 Fruit shape: Globe.

Indeterminate tomato for growing under protective cultivation. Vigorous and productive plant with short internodes. Growing season - mid-summer and autumn transplanting.

Fruit size:
190-200 grams*, crispy structure, deep red color, excellent taste, long shelf-life and firmness.

Resistances:**
Tmv, V, F1-2, N, C5.

AG-717 Fruit shape: Globe.

Indeterminate tomato for growing under protective cultivation or open field. Widely adapted to different growing conditions, very vigorous plant. Growing season - mid-summer and autumn transplanting.

Fruit size:
230-300 grams*, big fruit size, crispy structure, deep red color, excellent taste,

Resistances:**
Tmv, V, F2, N, TY, SW5.

TMG - 1176 Fruit shape: Plum.

Indeterminate plum TY tomato for growing under protective cultivation. Easy setting and very early production Vigorous and productive plant with short internodes. Growing season: autumn transplanting and spring short crop transplanting.

Fruit size:
120-150 grams*, perfect shape, crispy structure, nice red color and very good shelf-life.

Resistances:**
Tmv, V, F1-2, N, Ty

CTM - 521 Fruit shape: Oblong Cherry.

Indeterminate oblong cherry tomato for growing under protective cultivation. Well organized cluster ("fish bones") with nice shiny green color of the branch. Vigorous and productive plant with medium internodes. Easy setting and early production, cluster picking. Growing season: mid-summer and autumn transplanting.

Fruit size:
20-25 grams*, perfect shape, nice red color and very good shelf-life. Very tolerant to cracking.

Resistances:**
Tmv, V, F1-2.

CTMP - 1121 Fruit shape: Cherry.

Indeterminate cherry tomato for growing under protective cultivation. Well organized cluster ("fish bones"), long cluster. Vigorous plant for early production. Growing season: mid-summer and autumn transplanting. Good for single or cluster picking.

Fruit size:
20-25 grams*, perfect shape, nice red color and very good shelf-life. Very tolerant to cracking.

Resistances:**
Tmv, V, F1-2.

YCTM - 2213 Fruit shape: Yellow Cherry.

Indeterminate cherry tomato for growing under protective cultivation. Multi cluster type for single picking. Vigorous plant for early production. Growing season: mid-summer and autumn transplanting. Good for single or cluster picking.

Fruit size:
15-20 grams*, perfect shape, nice red color and very good shelf-life. Very tolerant to cracking.

Resistances:**
Tmv, V, F1-2.

Tigris 2012 Fruit shape: Cherry with stripes.

Indeterminate cherry tomato for growing under protective cultivation. Nice shiny special color of the branch. Vigorous and compact plant. Large number of fruits, great taste, very suitable for high quality market. For single picking only. Growing season: spring and autumn transplanting.

Fruit size:
40-50 grams*, nice brown-red color with stripes and very good shelf-life.

Resistances:**
Tmv, V, F1-2.



PEPPER SEEDS

ATP - 701
Fruit shape: Blocky

Red blocky pepper for growing under protective cultivation. Excellent red color. Plant with long internodes easy for pruning. Easy fruit set under extreme climate conditions leading to both a big early production and a very productive winter period. Excellent shelf life.

Fruit size:
200-220 grams*, very uniform with smooth skin and a very beautiful red color.

Resistances:**
Tm3 (L4), TSWV

ATP - 602
Fruit shape: Blocky

Red blocky pepper for growing under protective cultivation. Plant with medium short internodes and quite open plant habit. Good early production in hot conditions with more grouped production. Very fast coloring with perfect blocky shape.

Fruit size:
180-220 grams*, very uniform and a very beautiful red color.

Resistances:**
Tm3 (L4), TSWV.

YTP - 778
Fruit shape: Blocky

Yellow blocky pepper for growing under protective cultivation. Plant with long internodes and open plant habit, easy pruning. Easy fruit set under extreme climate conditions leading to both a big early production and a very productive winter period.

Fruit size:
180-200 grams*, very high total production with a perfect distribution of the yield over the season.

Resistances:**
Tm3 (L4), TSWV.

FTP - 3002
Fruit shape: Blocky

Orange blocky pepper for growing under protective cultivation. Strong plant, high yield with short internodes. The fruits changes from dark green to beautiful orange color.

Fruit size:
180-220 grams*, very high total production with a perfect distribution of the yield over the season.

Resistances:**
Tm3 (L4), TSWV

LP - 1212
Fruit shape: Semi Lamuyo

Red lamuyo pepper for growing under protective cultivation. High yield potential and very good adaptability to different growing conditions, with beautiful shiny red fruits.

Fruit size:
220-240 grams*.

Resistances:**
Tm0.

MCP - 1202, 1607, 1804
Fruit shape: Mini conical - SWEET

Red, Yellow and Orange Lamuyo peppers for growing under protective cultivation. Good vigor plant with large number of fruits, sweet with excellent red, orange and yellow color when ripe.

Fruit size:
Mini conical.

Resistances:**
TMV 1.

FATP - 201
Fruit shape: Ring of fire

Green turns to dark red when ripe, very hot (SHU 30-50K units). High uniformity. Busty and vigor plant

Fruit size:
10-15 cm

Resistances:**
TMV 1.

Shifka - hot pepper

Fruit shape: Short-conical Special small hot pepper for growing under protective cultivation. Plant with short internodes and open plant habit. Easy fruit set under extreme climate conditions.

Fruit size:
Small*, 5-8 cm, very high total production with a perfect spicy taste.

Resistances:**
Tm0.



MORE VARIETIES & VEGETABLE TYPES ARE AVAILABLE UPON DEMAND.

* Fruit size will vary, depending on growing conditions ** Field resistance *** All images for illustration only.

Agri-ERP



An agricultural designed state-of-the-art ERP system “Agri-ERP”. In recent years we experienced the advance of transportation & communication throughout the global agricultural business. As a result, enhanced exports of crops are grown on farms in emerging markets and shipped to supermarkets in developed markets. This trend posed many new challenges to the agriculture and fresh food industry, such as food safety and environmental control. To address those issues, the United Nations Food and Agriculture Organization implemented Global Good Agricultural Practices or “Global GAP”, which required specific guidelines for production, packaging, marketing, etc. To comply with Global GAP’s requirements, an “ID Card” must be constructed for each crop, including its entire history to date. The optimal way to achieve this is to use computerised information systems that enable full control of all the processes as well as complete and accurate documentation of all the growing, packaging, and delivery stages.

Agri-ERP system can be deployed at either your new or existing project. The ERP system comprises an “off the shelf” line of products and an optional “tailor-made” solution.



Customers that use Agri-ERP system benefit from the following:

- Increased daily farm management by implementing a supportive IT tool for an informed decision making
- Improving efficiency & cost effective crop cultivation
- Full documentation and reports of growing cycles, required to meet Global G.A.P. standards
- Accurate cost analysis per crop and per land plot
- Fast response to cultivation planning, production and delivery per market demand
- Simple user friendly GUI software
- On-line growing support by our team of agronomists

Agri-ERP is designed to provide a complete ERP solution for:

- Crop producing farms
- Greenhouse farm
- Field crop farms
- Livestock
- Dairy
- Poultry
- Aquaculture
- Processing & Marketing units
- Wineries
- Oil producing plants (olive oil)
- Slaughterhouses
- Marketing & logistic chains





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