

VIEMOSE DGS

Automated NFT farm systems for high-yield sustainable vegetables/herbs growing

Viemose DGS is Scandinavia's largest manufacturer of automated farm systems such as Moving Gutter Systems, Vertical Farming, greenhouses and traditional indoor farming on benches. Established in 1947 we have developed a strong international presence, exporting our greenhouse production systems to all of Europe, Russia, USA and Canada, The Middle East and Africa.

A **Moving Gutter System (MGS)** consists of an automated NFT growing field where plants are placed in custom-made gutters.

As the plants grow the spacing between the gutters increases automatically, ensuring optimal growing space for each plant, simultaneously the gutters move along the growing field so that young plants are set at one end and the harvest takes place at the other end. The results is a 28-fold productivity increase over traditional ground-based farming. An MGS system can be fitted with any level of automation required by the customer.

Irrigation - Pre-fertilized water is fed directly into each gutter, allowing the plants to take up the exact amount of water needed. The remaining water is recycled to 100% in the system. Any type of pre-fertilized water works in the MGS-system and it is highly suited as part of an aquaponics solution. Savings of water are up to 95% vs. traditional ground-based farming.

Labor - Only few people are required to operate the automated MGS-systems, enabling significant savings in labor costs, up to 80% vs. ground-based farming.

Vertical Farming - When floor space is limited the MGS lines can be stacked above each other, to achieve automated Vertical Farming with the same advantages as the single-layer MGS but achieving up to 7 times higher yield using the same floor spacing.



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