



**AUTOMATED
GUTTER SYSTEM
FOR
HYDROPOONICS**



AGS

The LUBING GREENTEC Automated Gutter System (AGS) is an automated NFT gutter system for hydroponics, designed for small to medium-sized greenhouses. It automatically adjusts gutter spacing, streamlines planting and harvesting, and optimizes production flow – ensuring maximum plant density, high efficiency, and excellent crop quality with minimal labor.

ADVANTAGES

- » Automatic adjustment of gutter spacing for each growth stage
- » Convenient planting and harvesting area at the front of the system
- » High plant density throughout all growth phases
- » Low maintenance – no belts required
- » Web-based control via smartphone or computer, anytime and anywhere
- » Modular design adaptable to individual customer requirements
- » Optional trolley for maintenance and plant-protection applications



INSERTING THE PLUGS (01)

- » Plugs are placed at the front of the system
- » Production starts with narrow gutter spacing



START WITH A NARROW SPACING (02)

- » Gutter spacing increases automatically as plants grow
- » Individually adjustable



IRRIGATION AND FERTIGATION (03)

- » Supplied by the fertigation system
- » Feed via hoses from the aisle



TRANSFER UNIT (04)

- » Fully automatic transfer between the two tracks
- » Split design for easy maintenance access
- » Secured transition with no safety risks



TROLLEY (05)

- » Optional tool for maintenance and transport
- » Can also serve as a base for a plant-protection sprayer



EASY MAINTENANCE ACCESS (06)

- » Split transfer unit for quick, safe access to maintenance
- » Fully secured transfer – no safety risk



HARVESTING (07)

- » Ideal access at the front of the system
- » Simple and ergonomic operation



CONTROLLER

- » Programmable settings for all movements
- » Web-based access via smartphone, tablet, or PC



HOW THE SYSTEM WORKS

FLEXIBLE FOR EVERY GROWTH STAGE

The production cycle begins at the front of the system, where plugs are placed into the gutters. The gutters start in a narrow spacing and automatically widen as the plants grow, ensuring that the distance always matches their requirements. Irrigation and nutrient supply are managed by the connected Fertigation-System, which feeds the gutters through hoses from the central aisle.

At the end of the track, the split transfer unit moves the gutters safely and fully automatically to the opposite lane while maintaining easy access for maintenance work. Harvesting also takes place at the front of the system, providing ergonomic, fast, and convenient access to all gutters.

BEST SUPPLIED

FERTIGATION-SYSTEM

The LUBING GREENTEC Fertigation-System automatically and precisely adjusts pH and doses two-component liquid fertilizers using solenoid diaphragm pumps. It enables:

- » Precise pH control
- » Constant EC through automatic fertilizer dosing
- » Use of high-quality stainless-steel and plastic components
- » Web-based control, diagnostics, and operation via smartphone, tablet, or computer
- » Flexible installation on wall or floor stand
- » BUS system for networking all components
- » System layouts up to 10 m width and 50 m length per line; larger on request



POWER SUPPLY & CONTROL

- » 1 x 230 V / 50 Hz
- » BUS-system networking of central controller and field components
- » Web-based control and full remote operation
- » Operation via smartphone, tablet, or computer
- » System diagnostics available via LUBING technical support

TECHNICAL DATA AGS

- » Systems up to 10 m wide and 50 m long per line
- » Larger systems available on request
- » Precise adjustment of positioning and time intervals at any time

Suitable compliment

FOGGING-SYSTEM | PAD-SYSTEMS | PLASTIC-PADS

LUBING
GREENTEC

LUBING Maschinenfabrik GmbH & Co. KG
Lubingstraße 6 | 49406 Barnstorf
Germany

T +49 (0) 54 42 98 79 - 0
F +49 (0) 54 42 98 79 - 33
M info@lubing-greentec.com

LUBING-GREENTEC.COM

Status: 01 / 2026 | Technical changes, further developments and improvements are subject to change.