



**NAANDANJAIN**

A JAIN IRRIGATION COMPANY



# New Releases and Product Updates

## Drip Irrigation

### TOPDRIP HD

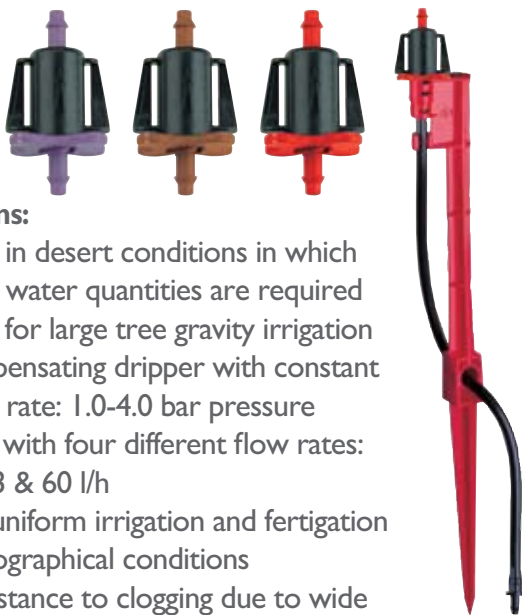
The innovative Top Drip HD is a cost-effective, heavy-duty PC dripper.



- Low pressure operation (0.4-4.0 bar) with low flow rate drippers
- Anti-Syphon (AS) feature ensures reliable operation for sub-surface irrigation (SDI).
- Effective strip irrigation with close dripper spacing
- Diameter: 16, 17, 20 mm
- Flow rate: 1.0, 1.6, 2.0, 2.2 l/h
- W.T: 0.9-1.2 mm



### TURBODRIP - High flow PC dripper



#### Applications:

- irrigation in desert conditions in which high daily water quantities are required
- common for large tree gravity irrigation
- Self-compensating dripper with constant high flow rate: 1.0-4.0 bar pressure
- Available with four different flow rates: 27, 35, 43 & 60 l/h
- Ensures uniform irrigation and fertigation in all topographical conditions
- High resistance to clogging due to wide water passages
- Low maintenance and easy to assemble and dismantle
- Made from chemical-resistant materials

### JAIN TURBO EXCEL

Innovative thin/medium wall dripline with advanced labyrinth 3D water inlet for maximum durability, accuracy and clog resistance



**Applications:** Sugarcane and biofuel crops, vegetables, flowers and other row crops requiring low discharge and close dripper spacing  
Germination and seedling establishment

SDI (sub-surface drip irrigation) and surface installation



### CHAPIN SUPER TOUGH

Extreme strength in a thin wall product - less material, greater strength and efficiency, and less waste

- The unique material blend and patented process to strengthen the material allows the user to down gauge MIL thickness by 30% without sacrificing quality.
- Features Chapin Deluxe inlet filtration and best engineered turbulent flow path design for optimal resistance to clogging.
- Twice the tensile strength of other leading drip tape products.
- Reduced emitter distortion during the installation and retrieval process allows for increased lifespan of the product with superior uniformity.



# NaanDanJain New Releases and Product Updates

## Drip Irrigation

### TOPDRIP & AMNONDRIP with new flow rates

TopDrip PC and AS (Anti-Siphon) compact dripper, now with 2 new flow rates: 2.0 l/h and 2.2 l/h.

AmnonDrip PC, AS and CNL, now with new flow rate 2.0 l/h, all for maximal design flexibility.

### TOPDRIP & TALDRIP 12mm Diameter

TopDrip 12 mm PC and AS (Anti-Siphon) dripline, and TalDrip 12 mm non-PC dripline now available.

Cost-effective solution for small plots and greenhouse applications

Available wall thickness: 13 mil, 15 mil, 18 mil and 25 mil



## Sprinklers

### MAGICDRIVE



The maintenance-free sprinkler with no wear and tear and with a special long term warranty.

#### Applications:

- Irrigation and germination of vegetables and field crops.
- Corn and sugarcane irrigation on high risers of 2-3 m due to its stable operation without vibration.
- Overhead cooling system in orchards and plantations.
- Special low angle version for orchards and plantations, especially bananas and table grapes.

#### Features and Advantages:

- Hermetically sealed silicone chamber protects from leakage.
- Silicone with magnets ensures constant rotation speed and prevents wear and tear.
- Special synchronized diffuser mechanism SECTORS ensures high resistance to wind and maintains excellent uniformity of water distribution in spacing up to 14 m.
- Smooth operation without any vibration facilitates working with high risers, especially in corn and sugar cane irrigation.

- Available with three jet trajectories:
  - 9° & 14° models: for undertree irrigation
  - 24° model: for open field irrigation and plantations
- Flow rate range: 310–730 l/h.

### 5022SD PC



New part-circle plastic impact sprinkler 1/2" Male or 3/4" female

#### Applications:

- Irrigation and fertigation of edges in all field crops, such as potatoes, carrots and flowers
- Unique and innovative PC (Part-Circle) impact sprinkler.
  - Modular PC mechanism makes it easy to change full-circle sprinklers into part-circle sprinklers, and vice versa.
  - Unique hammer combined with SD (Super Diffuser) plate are designed for uniform distribution, even at low operating pressure.
  - Combining 5022SD PC with full-circle sprinklers ensures that 100% of the water remains within the irrigation area.
  - Wide range of flow rates makes it the ideal partner for every full-circle sprinkler in any crop or field.

# NaanDanJain New Releases and Product Updates

## Sprinklers

### NEW GENERATION OF IMPACT SPRINKLERS OF ALL SIZES

#### Transformation comes with innovation

NaanDanJain continues to introduce innovative solutions to the world. Since developing the SD (Super Diffuser) plate that facilitates uniform distribution even with single nozzles, NaanDanJain has now transformed a new generation of impact sprinklers.

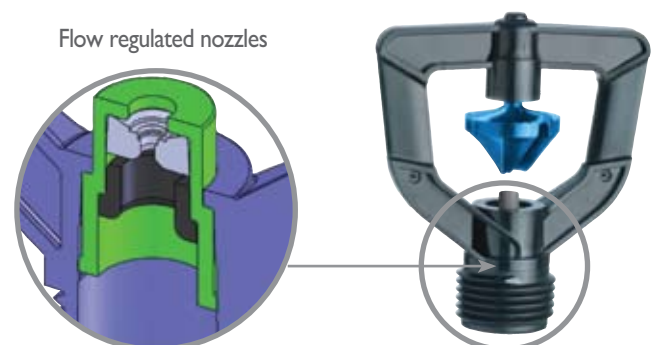
The new and innovative hammer design regulates drive force and maintains steady rotation speed, no matter which nozzle size or working pressure. With different nozzle sizes, single inner components of washers and springs are needed.

The combination of innovative hammers with an innovative SD plate ensures optimal droplet size and water distribution uniformity required for germination, irrigation and fertigation applications.



### Flow Regulated Nozzles for OPAL

Opal with silicone motion controller is the best solution for undertree irrigation and fertigation, especially in banana fields. The unique swivel protects against snails and provides excellent uniformity of water distribution. The new regulated nozzles for Opal maintain flow and facilitate the use of longer laterals. The new regulated nozzles are produced entirely in-house and are of the highest quality.



# NaanDanJain New Releases and Product Updates

## Micro-sprinklers

### SMART JET FAMILY



#### Applications:

orchards, vineyards, citrus groves and landscapes

**Complete family of micro-jets includes four models: Smart Jet, Smart Jet IP (Insect-Proof), Smart Jet PC (regulated) and Smart Jet PC IP.**

- Innovative design using the same frame for all four models with various jet patterns.
- No wear and tear.
- Exclusive approach to insect-proofing based on extended nozzles. Insect-proof model reduces clogging and amount of labor required to check for clogging.
- Wide variety of nozzles and jet patterns can match any tree spacing.
- PC model maintains flow and facilitates the use of longer laterals.
- Smart cap limits wetted area for the irrigation of young trees.



### SUPER FOGGER

**The most economical solution for cooling, humidifying and pesticide-spraying in greenhouses.**



PAT. PEND

- Two & four outlet Super Fogger
- Contains a built-in Leakage Prevention Device (LPD) which prevents drainage after shut-off and ensures that all foggers start working together at the beginning of irrigation
- Very small droplets for minimal foliage wetting during pulsed operation
- Excellent coverage when used for pesticide application.
- Easy installation and service
- Made of chemical-resistant materials
- Available with two working pressure models:
  - Blue for operating pressure of 4.0 bar
  - Green for operating pressure of 3.0 bar



# Automation

**NEWS:** Jain Irrigation Systems has recently acquired Gavish Controllers, optimizing the range of solutions offered by Jain.



## IRRIGATION & CLIMATE CONTROLLERS



### PC AND PLC SYSTEMS

#### Spirit Pro Irrigation (AC):

- 100 Valves • 10 Fertigation heads

#### Spirit Pro Climate (AC):

- 30 Greenhouses

#### Spirit Pro Irrigation + Climate (AC):

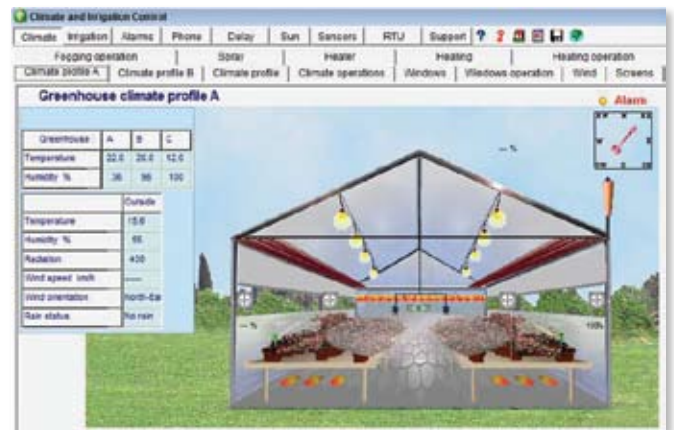
- 50 Valves • 5 Fertigation heads • 10 Greenhouses

#### Spirit customized control systems:

- For special projects

## CLIMATE CONTROL SYSTEMS

### SPiRiT PRO CLIMATE



- Windows • Screens • Fans • Circulators
- Wet pads • Heating systems • Coolers
- Lightings • Foggers • CO<sub>2</sub> control • Evaporators

## FERTIGATION MACHINES

- FertiLine In-Line
- FertiLine By-Pass
- FertiLine Mixer



## FERTIGATION MACHINES

### EC/pH measure:

- Reads EC/pH electrodes for measuring the water ingredients
- Very simple calibration



- EC/pH sampling cell with electrodes



# Projects

## END-TO-END AGRICULTURAL PROJECTS

NaanDanJain's unique technologies enable farmers to leverage cutting edge agro-technical solutions, effectively tailored for a variety of crops and climates. With thousands of successful installations of turnkey projects worldwide, our professional team of agronomists, design engineers, and irrigation technicians work with you to deliver the best solution to meet today's farming challenges. At the end of the season, our job is to customize a best-in-class irrigation system, taking into account specific climatic, topographical, soil and water conditions.

The company's reputation as an industry leader in the irrigation market is based on a combination of in-depth knowledge covering hydraulics, water, analysis, water distribution and agricultural applications.

## INDUSTRIAL APPLICATIONS

NaanDanJain's technologies provide solutions for a wide variety of industrial applications, including mining, dust suppression, fire protection, sewage and effluent disposal, industrial humidification, as well as dairy and poultry cooling.

## BIOFUEL PROJECTS

NaanDanJain is at the forefront of the global effort to leave the next generation a better, sustainable world by developing clean, green energy projects. With farming industry development projects that include subsurface drip irrigation for sugar cane ethanol, we are proud to offer global services covering all phases of biofuel production.

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