

IC45-DYNARATE

QUICK START GUIDE

**SPRAYER
JOB COMPUTER**



TeeJet
TECHNOLOGIES

A Subsidiary of  **Spraying Systems Co.**

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IMPORTANT SAFETY INFORMATION

FOREWORD

This guide is intended for the user of the sprayer for the current operations of treatment of the crops or fertilization of the fields. It is considered that the settings inherent to the tractor, the sprayer, the ISOBUS terminal (TECU), the calibrations and the advanced settings have been carried out beforehand in the workshop.

Instructions for these operations, which are limited to qualified personnel from agricultural machinery manufacturers and dealers, are available from TeeJet technologies.

All safety related and operating instructions should be read before the system is operated. Safe operation of machinery is the operators responsibility. Safety procedures must be posted close to the equipment and clearly visible to and legible by the operator. Safety procedures should meet all company and local regulations, as well as MSDS-requirements. For assistance, please contact a local dealer.

Safety Alert Symbol Definitions:



DANGER! This symbol is reserved for the most extreme situations where serious personal injury or death is imminent.



WARNING! This symbol indicates a hazardous situation that could result in serious personal injury or death.



CAUTION! This symbol indicates a hazardous situation that could result in minor or moderate personal injury.



NOTE: This symbol addresses practices in which the operator should be aware.

GENERAL WARNINGS AND PRECAUTIONS



DANGER!

- Read and follow instructions. If instructions are unclear after reading the manual, please contact a local dealer.
- Keep children away from equipment.
- Do not operate machinery under the influence of alcohol or any illegal substance.
- Some systems include a fan heater. Never cover the heater otherwise there will be a serious danger of fire!



WARNING! ELECTRICAL / SHOCK HAZARDS

- Before working on any particular component, make sure that all power supplies have been switched off and cannot be accidentally switched on.
- Disconnect power leads before using an arc welder on equipment or anything connected to the equipment.
- Systems including frequency drives have a risk of electric shock due to residual voltage. It is not permissible to open the equipment neither to disconnect the system or any quick connection until 5 minutes after the power has been removed.
- Only operate the system from the power source indicated in the manual. If you are not sure of the power source, consult qualified service personnel.
- Do not use a high pressure cleaner to clean electrical components. This could damage electrical components and subject the operator to risk of electrical shock.
- The electrical supply to the equipment must be properly routed and connected to the equipment. All connections must meet the specified requirements.



WARNING! PRESSURIZED HYDRAULIC SYSTEMS

- Always wear personal protective equipment (PPE) when performing work on hydraulic systems.
- Adhere to the machine manufacture's approved maintenance instructions when working on the hydraulic system.
- Always turn equipment off when working on the hydraulic system. Take appropriate precautions when opening systems that have been previously pressurized.
- Be aware that hydraulic oil may be extremely hot and under high pressure.



WARNING! CHEMICAL HANDLING

- Always wear PPE when handling any chemical substance.
- Always follow safety labels and instructions provided by the chemical manufacturer or supplier.
- The operator should have full information on the nature and the quantity of the material to be distributed.
- **ADHERE TO FEDERAL, STATE AND LOCAL REGULATIONS REGARDING THE HANDLING, USE OR DISPOSAL OF AGRICULTURAL CHEMICALS.**



WARNING! PRESSURIZED SPRAY SYSTEM

- It is important to recognize proper safety precautions when using a pressurized spray system. Fluids under pressure can penetrate skin and cause serious personal injury.
- The system pressure should never exceed the lowest rated component. Always know your system and all component capabilities, maximum pressures and flow rates.
- Filters can only be opened when the manual valves in front of and behind the filter are in closed position. If any appliance has to be taken out of the piping, manual valves in front of and behind this appliance have to be in closed position. If they are reinstalled, make sure that this happens correctly, that this apparatus is well aligned, and that all connections are tight.
- The plumbing supply to the equipment should meet all company and local regulations and must be properly routed and connected to the equipment. All connections must meet the specified requirements
- It is advised to drain and purge the liquid train when the equipment shall not be used for a longer period of time.



WARNING! AUTO STEERING SAFETY

- To prevent serious personal injury or death from being run over by the vehicle or automated motion of the steering system, never leave the vehicles operator seat with the system engaged.
- To prevent serious personal injury or death from being run over by the vehicle or automated motion of the steering system, verify the area around the vehicle is clear of people or obstacles before startup, calibration, tuning or engaging the system.
- Make sure equipment is tightly secured to the proper components.
- Never drive on public roads with system engaged.



CAUTION! EQUIPMENT SAFETY, MAINTENANCE, AND SERVICE

- The equipment should be operated only by properly trained, qualified personnel. They must have proven their skills in the operation of the equipment.
- Before using the equipment, the operator has to check if the equipment is in good condition and can be used safely. If not, the equipment cannot be used.
- All necessary PPE must be readily available to the operator at all times.
- Routinely check the system and components for wear and damage. Replace or repair when necessary.
- Only qualified authorized experts are allowed to repair or maintain the installation. The maintenance and operating instructions shall be rigidly observed and followed.
- A complete manual for the equipment must be available to the operator or maintenance technician at all times.



CAUTION! HARNESS CABLE AND HOSE SAFETY

- Routinely check all harness cables and hoses for damage or wear. Replace or repair when necessary.
- Do not route harness cables and hoses with sharp bends.
- Do not strap harness cables and hoses to lines with high vibration or spikes in pressure.
- Do not strap harness cables and hoses to lines transporting hot fluids.
- Protect harness cables and hoses from sharp objects, equipment debris, and material buildup.
- Allow sufficient length for harness cables and hoses to have free movement on sections that move during operation, and be sure that harness cables or hoses do not hang below the equipment.
- Allow sufficient clearance for harness cables and hoses from implement and machine operational zones.
- When cleaning equipment, protect harness cables from high pressure wash.



NOTE: TOUCH SCREEN CARE

- Keep sharp objects away from the touch screen device. Touching the screen with a sharp object could result in damage to the display.
- Do not use harsh chemicals to clean the console/display. The correct way to clean a console/display is to use a soft damp cloth or anti-static wipe, similar to cleaning a monitor on a computer.



NOTE: RECOMMENDED REPLACEMENT PARTS

- The system has been designed with components that work together to provide the best system performance. When the system requires replacement parts, only TeeJet recommended components should be used to maintain proper system operation and safety.



Safety information

TeeJet Technologies is not responsible for damage or physical harm caused by failure to adhere to the following safety requirements.

As the operator of the vehicle, you are responsible for its safe operation.

The IC45 in combination with any assisted/auto steering device is not designed to replace the vehicle's operator.

Do not leave a vehicle while the assisted/automatic steering is engaged.

Be sure that the area around the vehicle is clear of people and obstacles before and during engagement.

The IC45 is designed to support and improve efficiency while working in the field. The driver has full responsibility for the quality and work related results.

Disengage or remove any assisted/auto steering device before operating on public roads.



DID YOU KNOW...

The origins of the TeeJet brand can actually be found in our spray tips?

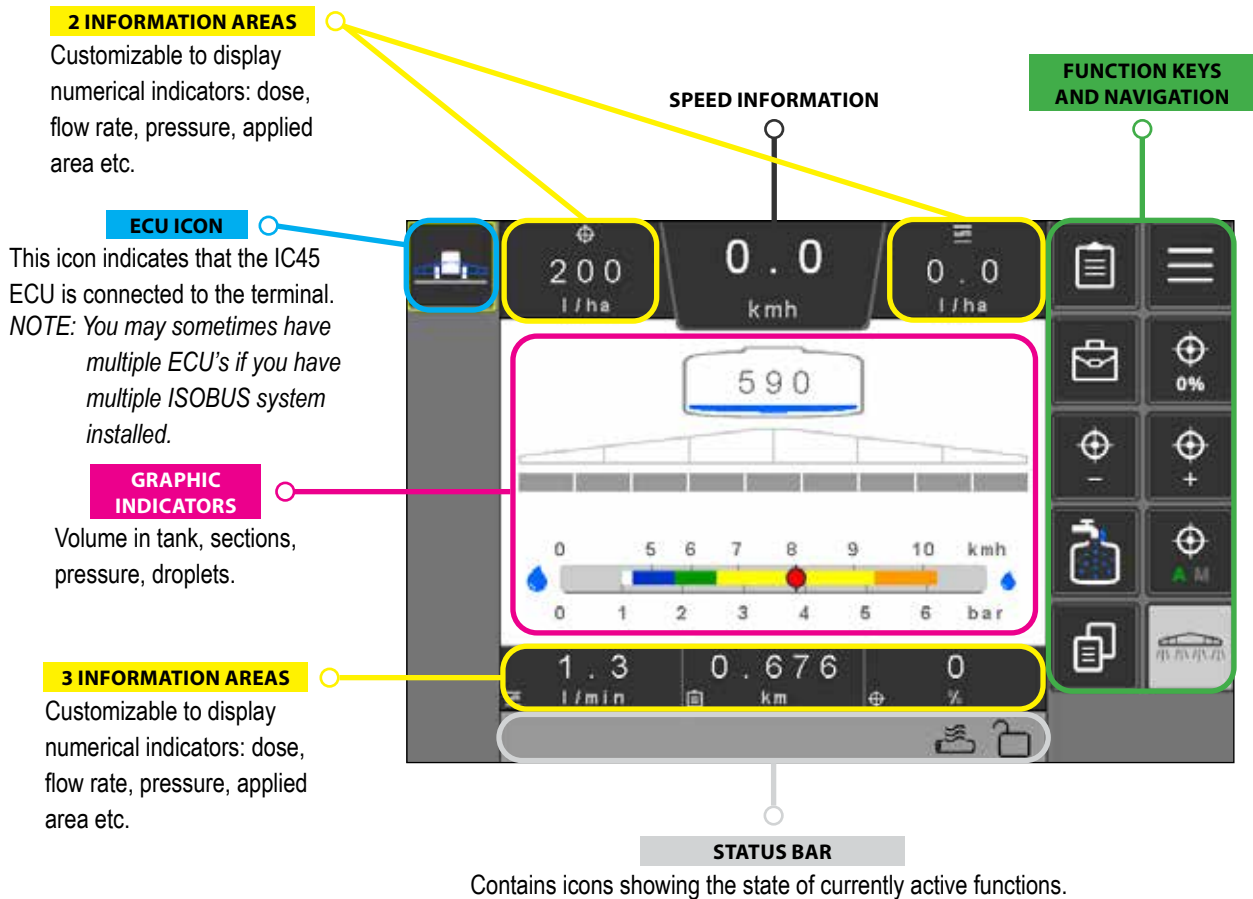
If you look at the side profile of the spray tip below, you'll notice its distinctive "tee" shape.

That characteristic, combined with our "Jet" family of names, is how the TeeJet name was born.



INITIAL INFORMATION

ORGANIZATION OF SCREEN AREAS

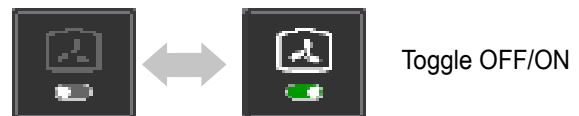


Description of Function Keys

Key set may be different depending on your sprayer's features.



This key is always available at the bottom right of the screen in work mode. Its colour indicates its status:
Grey = OFF / Green = ON



In multiple menus, there are keys with buttons at the bottom. The key pictograms' colour, as well as the colour of the slide behind the toggle, is grey when it is turned OFF.

When turned ON, the key pictograms' colour will turn white, and the slide behind the toggle will turn green.

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GETTING STARTED

SPEED SOURCE

Enter the Main Menu

Machine

Job Settings

Operation

Speed Source

Select the desired Speed Source:

- Automatic: selects the best source available (GNSS if available)
- Ground Based: selects the GNSS speed
- Wheel Based: selects the tractor's speed
- Vehicle Based: selects tractor's on-board sensor (radar...)
- Implement: selects the sprayer's wheels sensor

Ensure that the source used is the preferred one and see the full manual for how to calibrate it, if the speed is incorrect.

PRESETTING NOZZLES

Go to the Main Menu



Machine



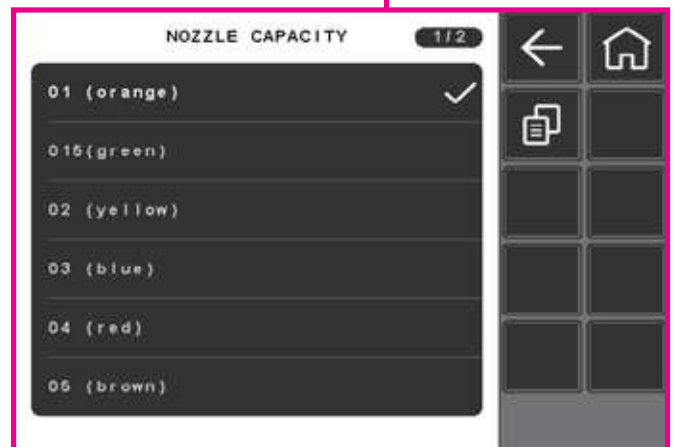
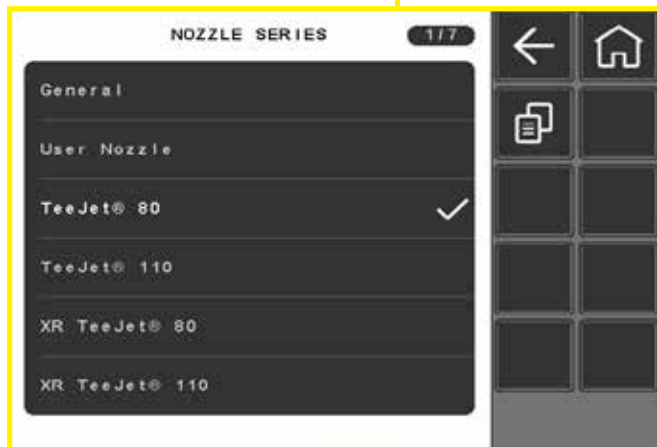
Nozzle Presets



The Nozzle Presets section contains 5 pages that can store up to 5 nozzles installed on the machine.

NOTE: The preset nozzles will appear in the nozzle list when entering the spray parameters in the JOB WIZARD.

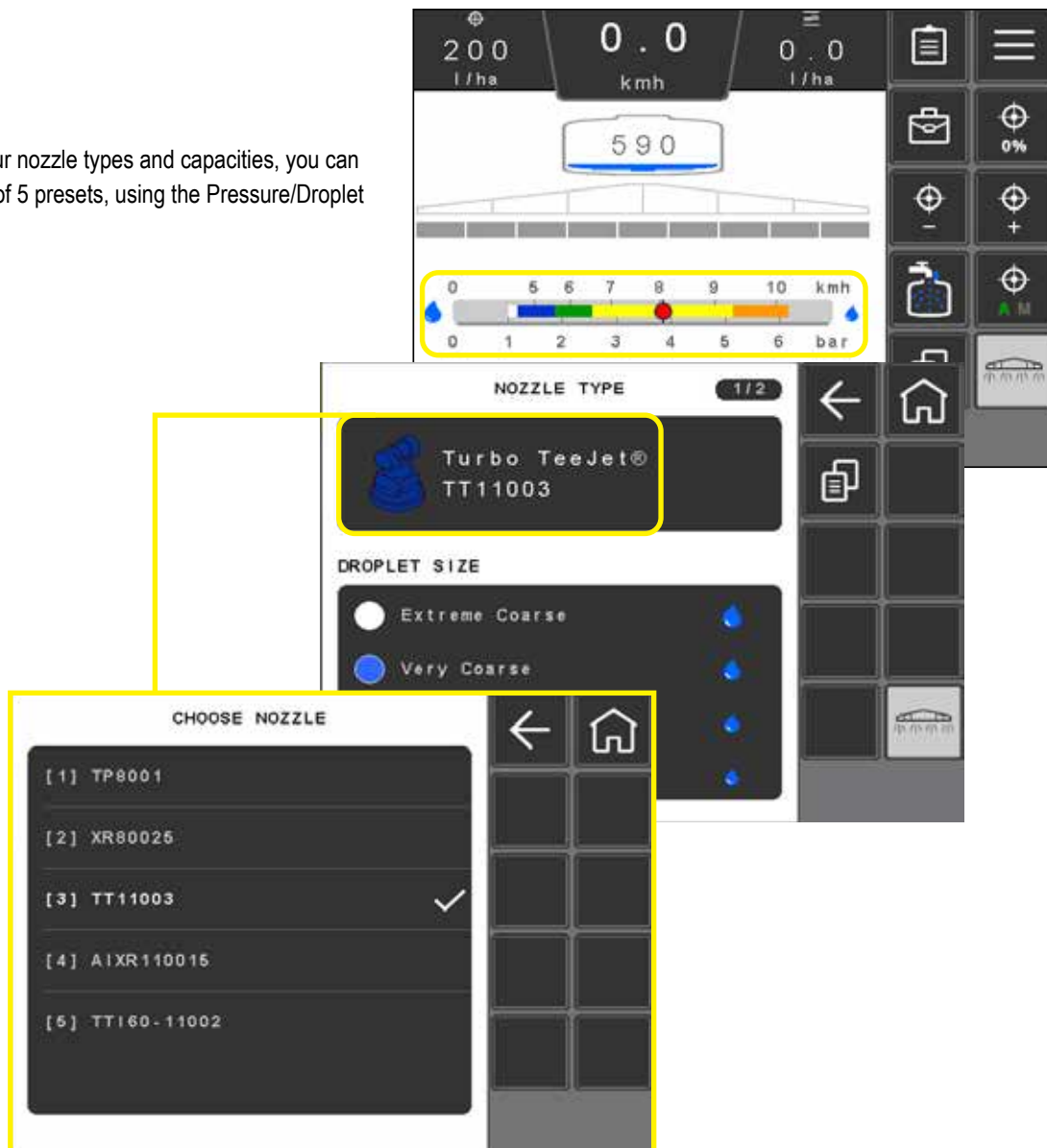
- Press Nozzle Series to choose the nozzle type.
- Press Nozzle Capacity to select the nozzle size.



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SELECT NOZZLE FOR SPRAY JOB

Once you have preset your nozzle types and capacities, you can easily change to another of 5 presets, using the Pressure/Droplet Size Bar.



DID YOU KNOW...

In 1981, TeeJet Technologies introduced the Quick Teejet® system, which was adopted by the entire industry.

The 1/4-turn quick attach cap and body system significantly reduced the effort required to install or change spray tips, while also providing automatic spray pattern alignment across the boom for optimum distribution

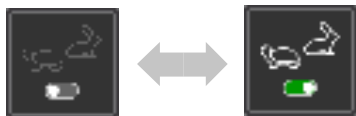


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SIMULATED SPEED

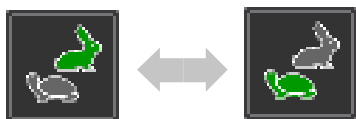
How to Use Simulated Speed

This key activates or deactivates the simulation mode. The key is only available when no other speed source is available.



NOTE: Simulated speed will be disabled, if there is another speed source, with a speed higher than 0.0 km/h.

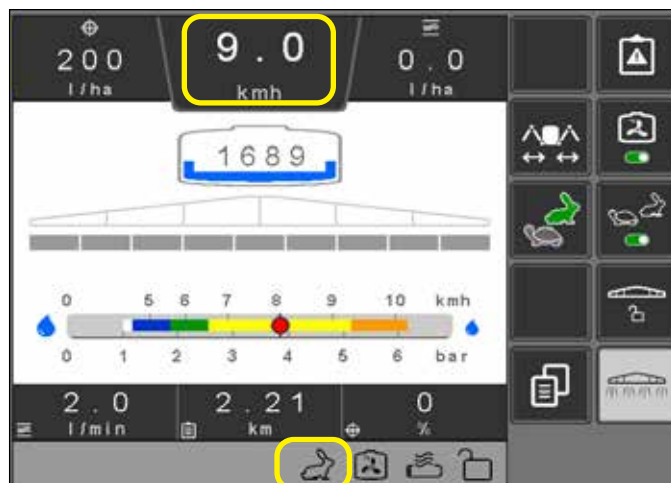
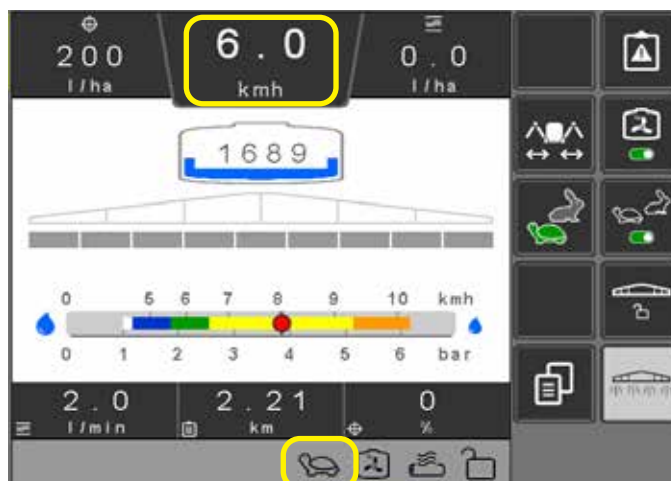
This key toggles between slow and fast simulated speed. The pictograms change colour to indicate the selected speed, with green indicating the selected speed.



NOTE: Using GPS speed may cause slight movements, which will disable the simulated speed.

The status of the simulation mode is displayed in the status bar:

- Simulation active:
The icon (tortoise or hare) corresponding to the selected simulated speed, is visible in the status bar.
- Simulation inactive:
The icon (tortoise or hare), won't be present in the status bar.



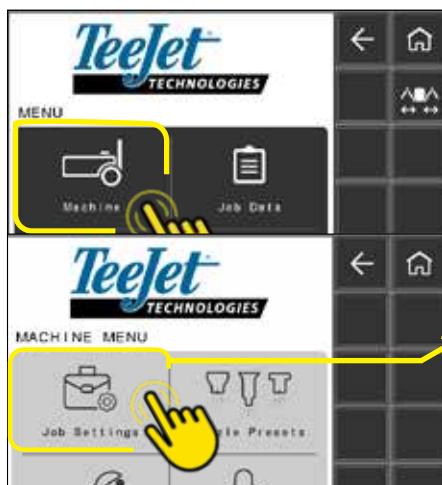
Set Low and High Simulated Speeds



Enter the Main Menu

Machine

Job Settings



Operation



Press the lines to change the speed settings of the low (tortoise) or high (hare) speeds.

TARGET RATE AND TANK AGITATION

Selecting the Target Rate



Press JOB WIZARD key from Work Screen.

Press Target Rate line to open screen for entering desired target rate.

Tank Agitation

NOTE: Agitation mode may not be available on all sprayers. For more information, contact your manufacturer.

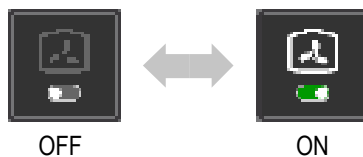
The tank agitation system performed by the spray pump can be activated/deactivated both from the Sprayer Job computer, as well as other physical locations, according to the ongoing task:

- Dedicated key on the work screen/Job Wizard menu.
- Joystick, switch box and DynaFill Terminal.

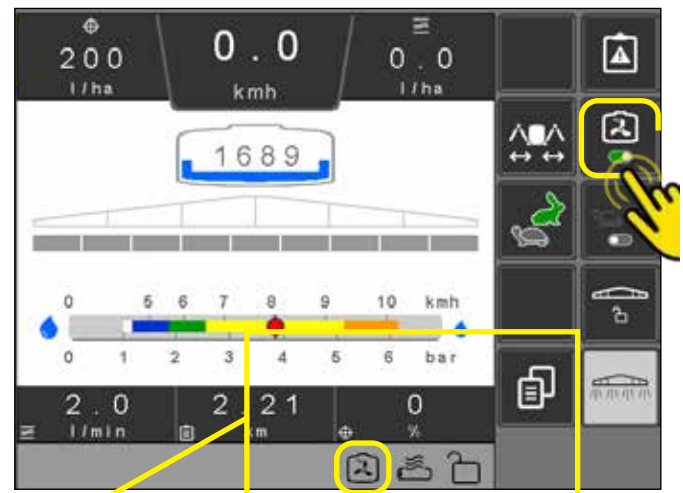
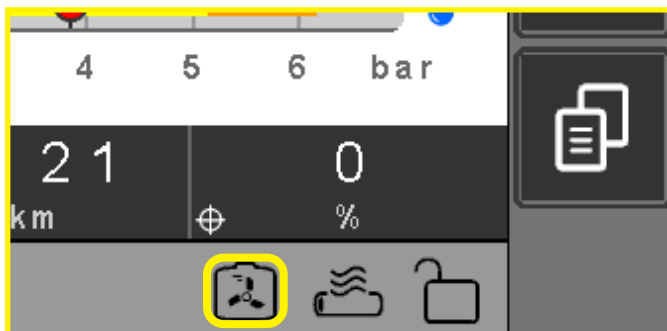


STARTING AGITATION FROM WORK SCREEN:

Pressing the key activates/deactivates the agitation system.



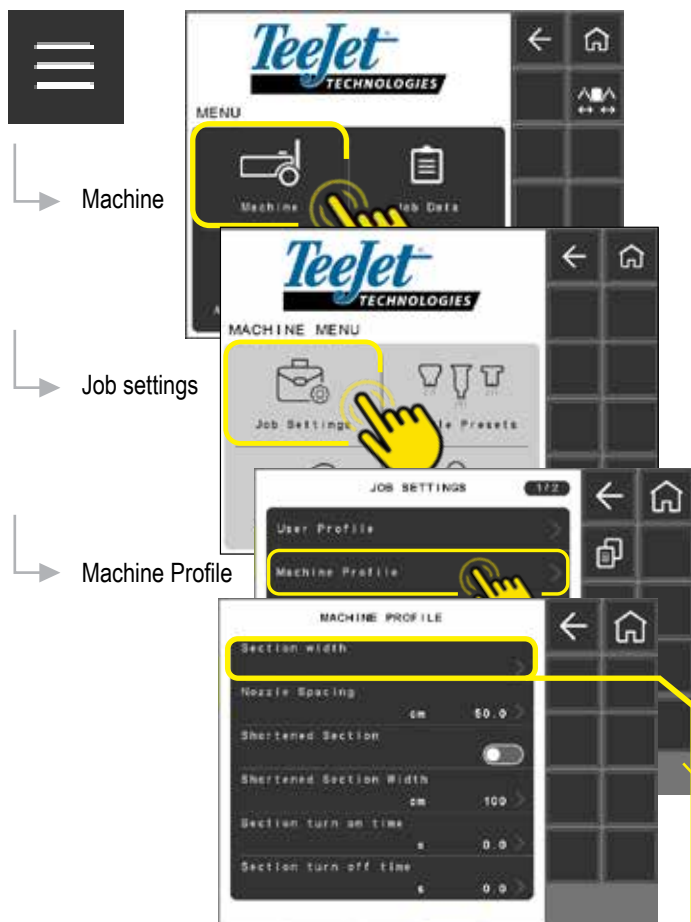
The status of the agitation is also displayed in the status bar. The icon is visible when the agitation is active. It disappears when it is inactive.



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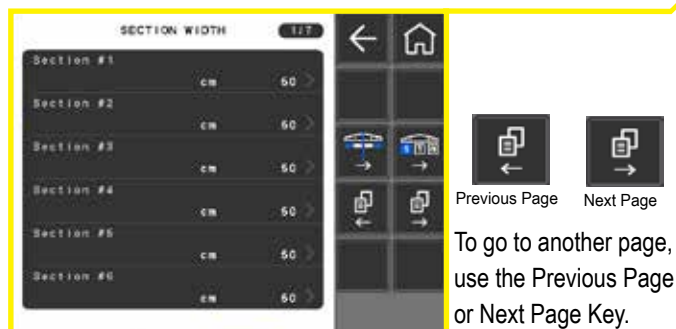
MACHINE PROFILE

Go to the Main Menu



Section Width

Press the Section you wish to change the numerical value of (cm).



The number of pages in this menu, depends on how many sections you have programmed into the device.

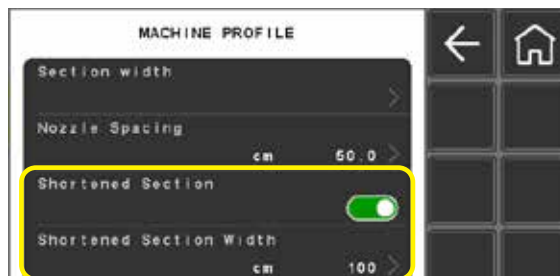
NOTE: In our example, we have chosen 40 sections, so 7 pages are available.

Nozzle Spacing

Enter value (cm), how far there is between your nozzles.

Shortened Section

Pressing line, activates Shortened Section function, altering your outermost working widths, by the value entered below.



Shortened Section Width

Pressing line, enters value (cm), which your Shortened Section alters your outermost working widths.

Example:

If using a 3 meter outermost segment, using Shortened Working Width set to 100 cm, only first 100 cm (1m) of your outermost working widths will be digitally counted.

NOTE: Shortened Section Width set above zero (0) doesn't turn OFF section. You need to manually turn OFF the nozzles, for physical amount of liquid, to match digitally counted amount.

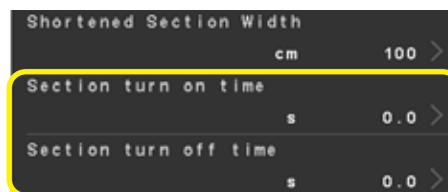
NOTE: Shortened Section Width set to zero (0), will turn OFF entire outermost sections.

Section Turn ON and OFF Time

Section Turn ON Time

Enter time between activating spraying, till liquid physically comes out of sprayer.

Function will turn spraying ON before entering spraying area, to ensure full coverage.



Section Turn OFF Time

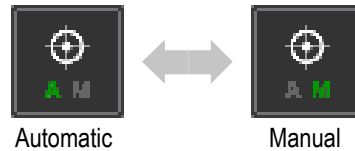
Enter time between deactivating spraying, till liquid physically stops coming out of sprayer.

Function will turn spraying OFF before exiting spraying area, to ensure full coverage.

CHOICE OF REGULATION MODE

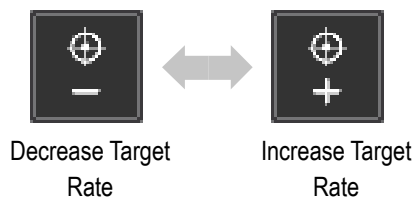
Automatic and Manual Modes

This key on the Work Screen allows you to select the control mode between manual and automatic regulation.



Automatic Mode

These keys allow you to adjust the current target rate in configurable steps (1%, 5%, 10%, etc.). Default is 10%.



Return to original target rate.

Manual Mode

In manual mode, the target rate is adjusted manually by pressing the Rate decrease or increase keys.

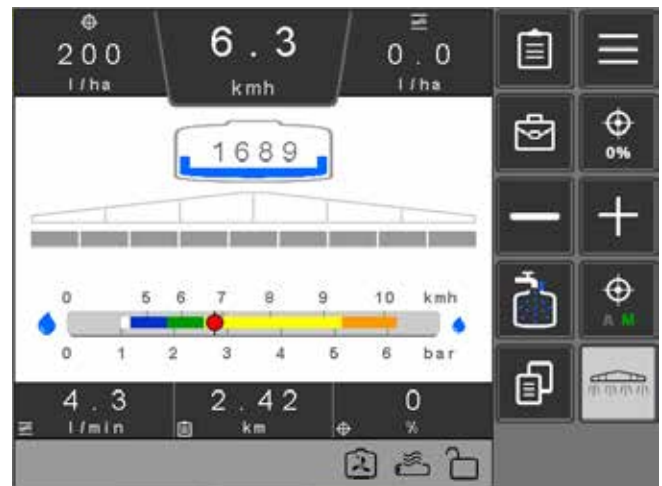


These keys will open or close the control valve and adjust the target rate as desired.

WARNING : Pressure in boom is not controlled automatically, hence it is possible to set the pressure so high that it may damage the sprayer.



The target rate adjustment can be displayed in one of the customizable information areas.



DID YOU KNOW...

The colour-coding system VisiFlo® was developed and introduced by TeeJet Technologies in 1985.

By incorporating a colour-coded plastic tip body with a stainless-steel orifice, farmers were able to quickly and easily identify the nozzle capacity.

The VisiFlo® colour scheme promptly became the industry standard and was adopted by ISO as the world standard in agricultural tip capacity identification.



FILLING THE SPRAYER TANK

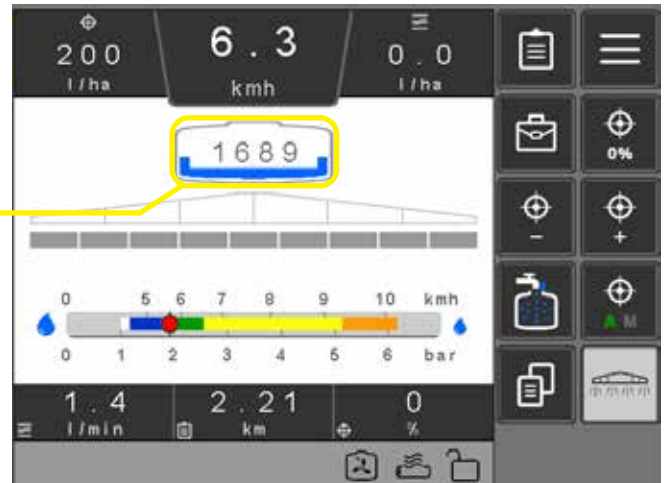
Tank filling can be done in different ways, depending on the functions supported by your sprayer.

Please see the Full IC45 Manual for Further Information.

Filling with the In-Cab Terminal

If your sprayer is equipped with DynaFill, please use the full IC45 manual to learn about using this function.

If your sprayer does not have DynaFill capabilities, Follow the steps below.



Press the Fill key or the tank image on the Work Screen to enter the Tank Filling menu.

NOTE: You may have to press the Next Page key, if the Tank Filling key isn't on the currently viewable page.

It is also possible that this key isn't part of your keypad.

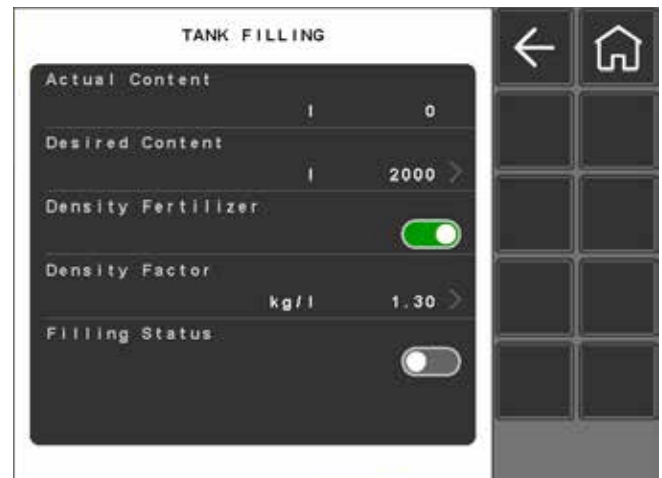
Calculate the required volume in the tank to fulfill the spray job you intend to do. Press the "Desired Content" line and enter the value.

If your sprayer does not feature an electrically-controlled fill valve, open the fill valve manually.

When the "Actual content" value, equals the "Desired content" value, step back to the sprayer controls and manually turn the fill valve OFF.

Liquid Density

If you are using liquid with a density different than water, pressing the Density Fertilizer line will allow you to enter the Density Factor, of your currently used liquid.



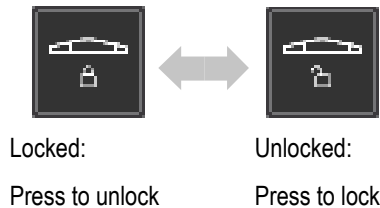
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USE OF THE HYDRAULIC FUNCTIONS OF THE BOOM

NOTE: Folding options depend on the sprayer's configuration.

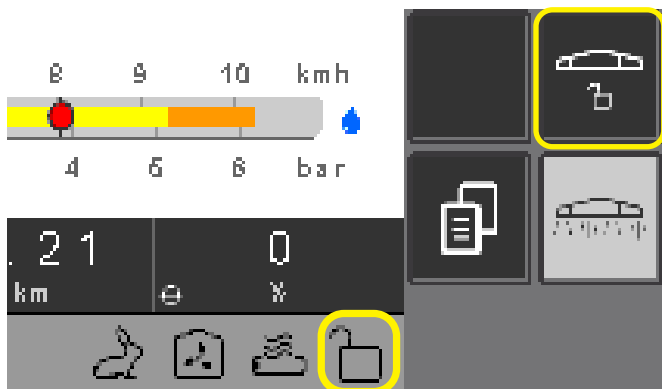
Boom Lock

Whether driving on the road, folding or unfolding boom, the boom's pendular suspension must be locked, both for safety and to ensure a proper fixed position.



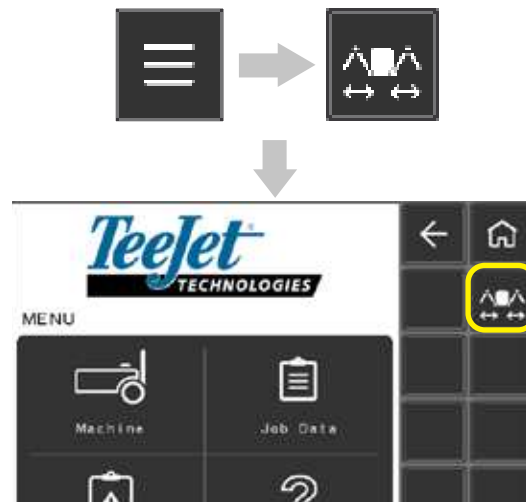
The key's padlock icon changes its appearance to indicate the boom lock status.

NOTE: The Boom Lock key may not be displayed on the work screen. It may require either browsing pages using the "Next page" key, or going to the Folding Menu by pressing the Main Menu Key (shown below).



Whether you have access to the Boom Lock key on your main screen key-set or not, you will always be able to see the current state of your Boom Lock, in the Status Bar at the bottom of the page.

Entering the Boom Menu



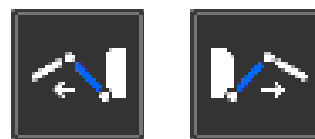
TIP: The "Boom Control" key is always displayed on the main menu if you have hydraulic functions on your sprayer.

This screen may feature several key pages, depending on the sprayer type and configuration.



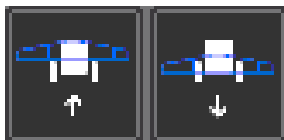
Unfolding

To unfold, use the following keys:



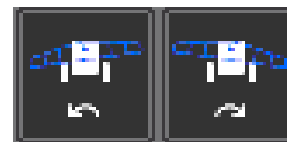
As long as the key is pressed, the hydraulic system performs the desired movement and the terminal screen displays an illustration of the moving part colored in blue and with a direction arrow.

Up / Down



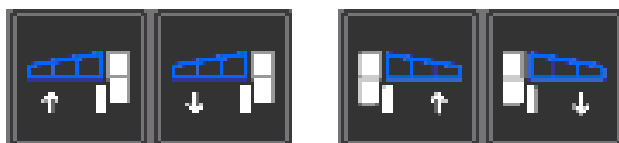
Use Boom Up and Boom Down to regulate the height of your boom.

Tilt Left / Right



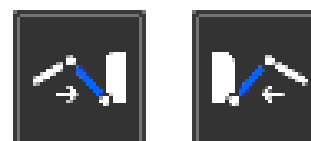
Use Tilt Up and Tilt Down to regulate tilt of your boom.

Wing Up / Down



Use Wing Up and Wing Down to regulate the height on one side of your boom.

Folding



As long as the key is pressed, the hydraulic system performs the desired movement and the terminal screen displays an illustration of the moving part colored in blue and with a direction arrow.

START SPRAYING

FINAL STEP

When all settings are completed and the sprayer is ready for work, start spraying by pressing the "Spray" key.

The working screen displays the information in real time, the automatic regulation sets the required rate.



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