



DYNAJET®

SPRAY APPLICATION

A NEW WAY



**THE RIGHT
DOSE,
JUST THE
RIGHT DOSE**

TeeJet®
TECHNOLOGIES



DYNAJET is a new technology generation with spectacular performance and ultra-fast reaction time.

DYNAJET provides functions previously inaccessible, and manages all the advanced spraying functions by itself, for the greatest benefit to the user.

With DYNAJET, discover the new way of spraying, easier, more precise and more eco-responsible.

A NEW WAY TO SPRAY





**More efficiency on the plant and
better for the environment;
it's a win-win situation.**

SUMMARY

- p. 4** Simplicity for the user
- p. 6** Unrivalled application quality
- p. 8** Reduce spray drift
- p. 10** Just the right dose
- p. 12** DynaJet®, ultra-targeted spraying

DYNAJET®

MAKE IT EASY

No more stress of having to choose between pressure, nozzle color, speed...

DYNAJET adjusts the settings automatically for you:

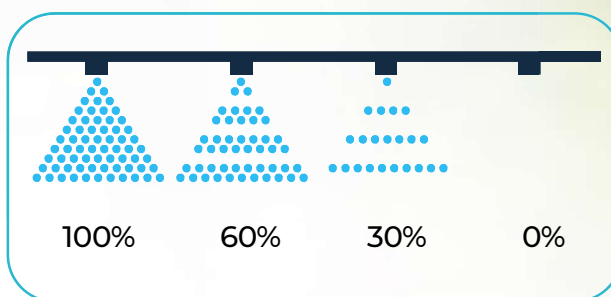
- 1 Maintain the correct drop size in all conditions
- 2 Drive at the speed you want
- 3 Flow rate adjusts automatically
- 4 Individual nozzle control, turn compensation: and much more
- 5 Treat more hectares... and above all treat them better!



DYNAJET is PWM regulation at the nozzle, which frees your sprayer from its technical limits (pressure/speed/drop size).

Each nozzle body is equipped with a solenoid operating at 20 Hertz or 20 pulsations per second. The objective is to manage the opening time of each nozzle according to the forward speed.

DynaJet maintains constant pressure regardless of flow. This guarantees spraying unrivaled quality.





I set the dose/ha
and I choose the
droplet size



150L/ha

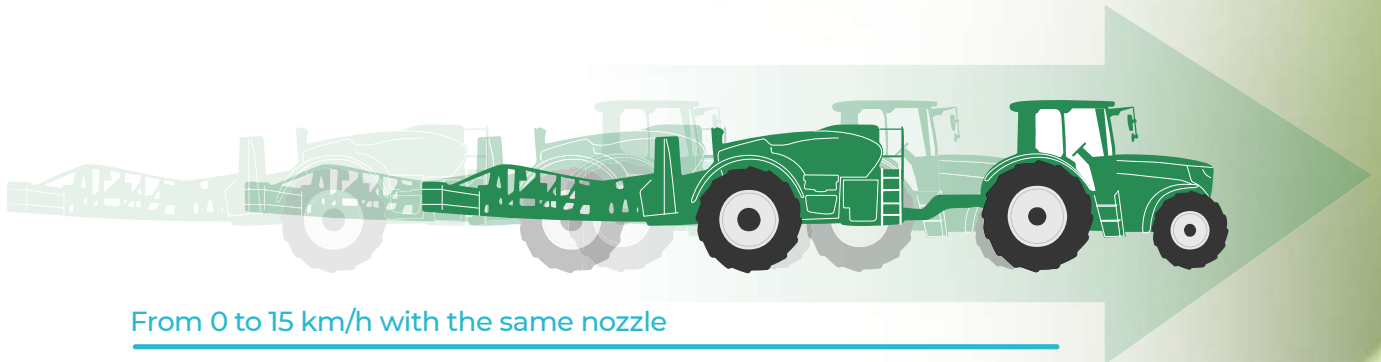


DYNAJET® CONTROLS DROPLET SIZE

NEW

The **high-performance DynaJet-equipped sprayer maintains a consistent, user-defined droplet size**. It can then drive as it wants, speeding up or slowing down without affecting the size of the droplets, without compromising the quality of its treatment.

**REGARDLESS OF SPEED AND DOSE,
DROPLET SIZE REMAINS CONSTANT**



From 0 to 15 km/h with the same nozzle

Current sprayers regulate the flow rate (dose/ha) , which is adjusting the pressure.

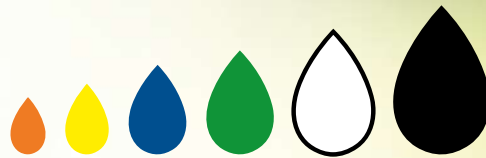
With the pressure difference, the size of the droplets produced by the nozzles varies depending on the working speed:

- When starting and arriving at the headlands, in the event of a turn or slowdown (obstacle, relief...), the droplets become bigger and the coverage of the leaves may decrease.
- Upon acceleration, the drops become finer and may be affected by spray drift or evaporation.



DYNAJET[®] REDUCED SPRAY DRIFT

No need to change the nozzles when wind is increasing, DYNAJET and the appropriate nozzle make it easy, you adjust the droplet size via the spray computer without getting off the tractor.



Returning to initial settings is also instantaneous as soon as conditions permit to improve application quality by reducing droplet size.

**DYNAJET is approved
by the JKI institute
for 90% drift reduction.**

**To comply with regulations
related to drift, reduce
waste and the risk of pollution.**





DYNAJET® EFFICIENT



The liquid fertilizer nozzle for fertilizer application with dose modulation

The SJ7A-VR nozzle offers a large flow range to cover the ranges of 5 classic SJ7 nozzles.

Reduces the risk of crop burns

**No herding effect in the culture
(good distribution)**

Not very sensitive to ramp height

The jets are not aimed directly at the crop

JUST THE RIGHT DOSE

The confidence of a high performance application

Always the right pressure relative to the nozzle = always the right droplet size managed by DynaJet®.

The principle of successful spraying, without drift, without losses on impact, with the expected result for the crop.

The same nozzle for a wide flow range

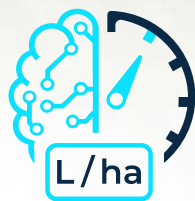


No need to manipulate nozzle holders, or resort to complex and expensive technologies to do it automatically.

Drive fast or drive slowly, at low or high volume, DYNAJET always works with the right droplet size... and the same nozzle.



+



DYNARATE

Associated with DYNAJET®, the ISOBUS DYNARATE on-board sprayer job computer provides access, without any intervention on the hardware, to a wide range of functions which further improves the performance of the spray application, the dose rate and the targeting of the application.

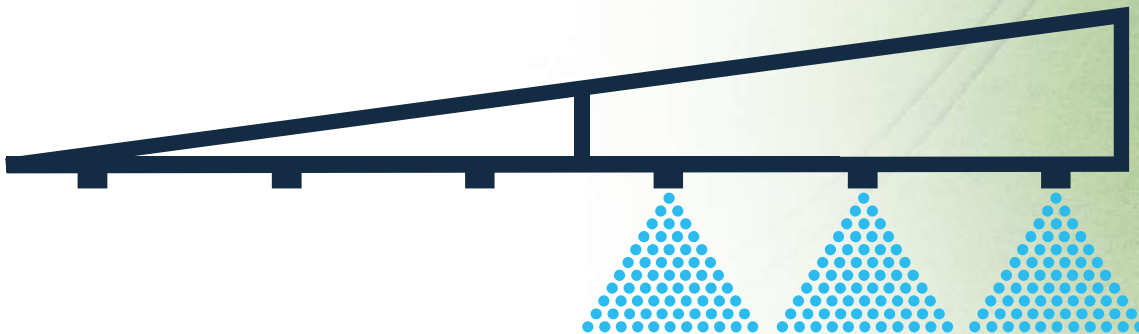


- 1 Individual nozzle shut-off**
- 2 Turn Compensation**
- 3 Variable rate application by nozzle**
- 4 Nozzle patterns**
- 5 Multirates**
- 6 Spot spraying**

DYNAJET®

AUTOMATICALLY MANAGES INDIVIDUAL NOZZLE SHUT-OFF

To completely eliminate overlapping at the headland or in the points: DYNAJET manages to turn on/off nozzle by nozzle.



Each nozzle is controlled by a solenoid valve, and therefore independent.

By controlling nozzle by nozzle instead of cutting by boom sections, overdosing/underdosing is reduced to the minimum.

Without DYNAJET
Fertilizer overdose





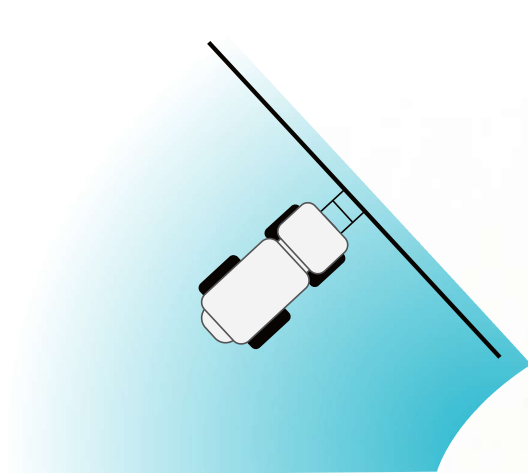
With DYNAJET®

DYNAJET®

THE RIGHT AMOUNT IN THE TURNS

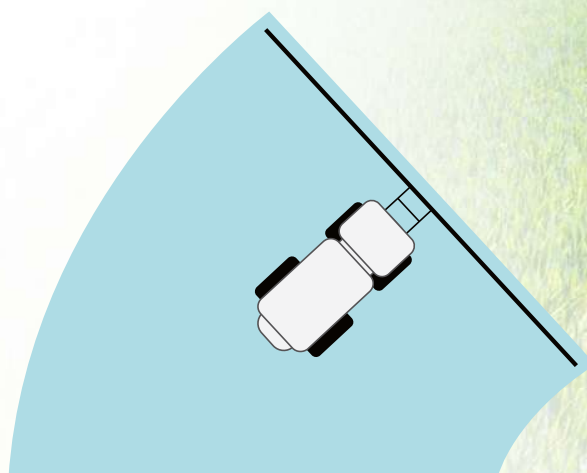
With DYNAJET and Turn Compensation, spray turns as well as straight lines

Depending on the turning angle, the electronics calculate and apply an inconsistent flow (increasing or decreasing) all along the boom to deliver the exact dose to the crop, under each nozzle, even when turning, at 100% of the plot.



TRADITIONAL SPRAYER

**UNDERDOSING OUTSIDE
OVERDOSE INSIDE THE TURN**

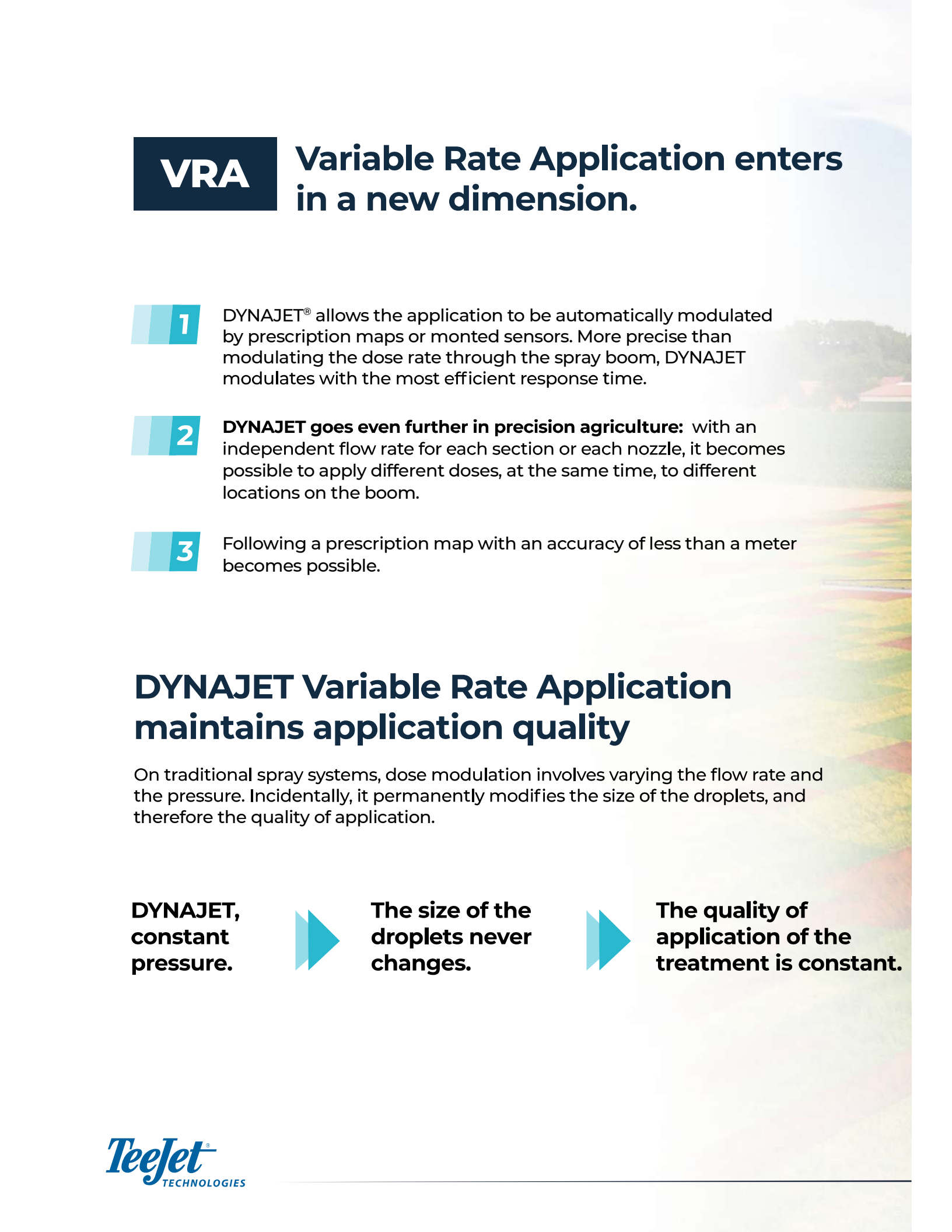


SPRAYER WITH

EVEN DISTRIBUTION BY





**VRA**

Variable Rate Application enters in a new dimension.

1

DYNAJET® allows the application to be automatically modulated by prescription maps or mounted sensors. More precise than modulating the dose rate through the spray boom, DYNAJET modulates with the most efficient response time.

2

DYNAJET goes even further in precision agriculture: with an independent flow rate for each section or each nozzle, it becomes possible to apply different doses, at the same time, to different locations on the boom.

3

Following a prescription map with an accuracy of less than a meter becomes possible.

DYNAJET Variable Rate Application maintains application quality

On traditional spray systems, dose modulation involves varying the flow rate and the pressure. Incidentally, it permanently modifies the size of the droplets, and therefore the quality of application.

**DYNAJET,
constant
pressure.**



**The size of the
droplets never
changes.**



**The quality of
application of the
treatment is constant.**



Targeted spray application

The flexibility allowed by DYNAJET® makes it possible to program the nozzles for localized spraying reduced to the width of the crop row (for weeded plants in particular).

Without wasting product between rows, savings are achieved, along with good practices for the environment.

NOZZLE PATTERNS

Bed crops can benefit from reduced targeted spraying at the bed without wasting product in intervals.

MULTIRATES

Spray multiple rates through your spray boom.
Spray only the right dose to the right place.





DYNAJET®

Untreated inter-row

DYNAJET® Includes Spot Spray Compatibility

Open a nozzle (or several) as you pass over a weed, and close it immediately. Independently and simultaneously at any point on the spray boom.

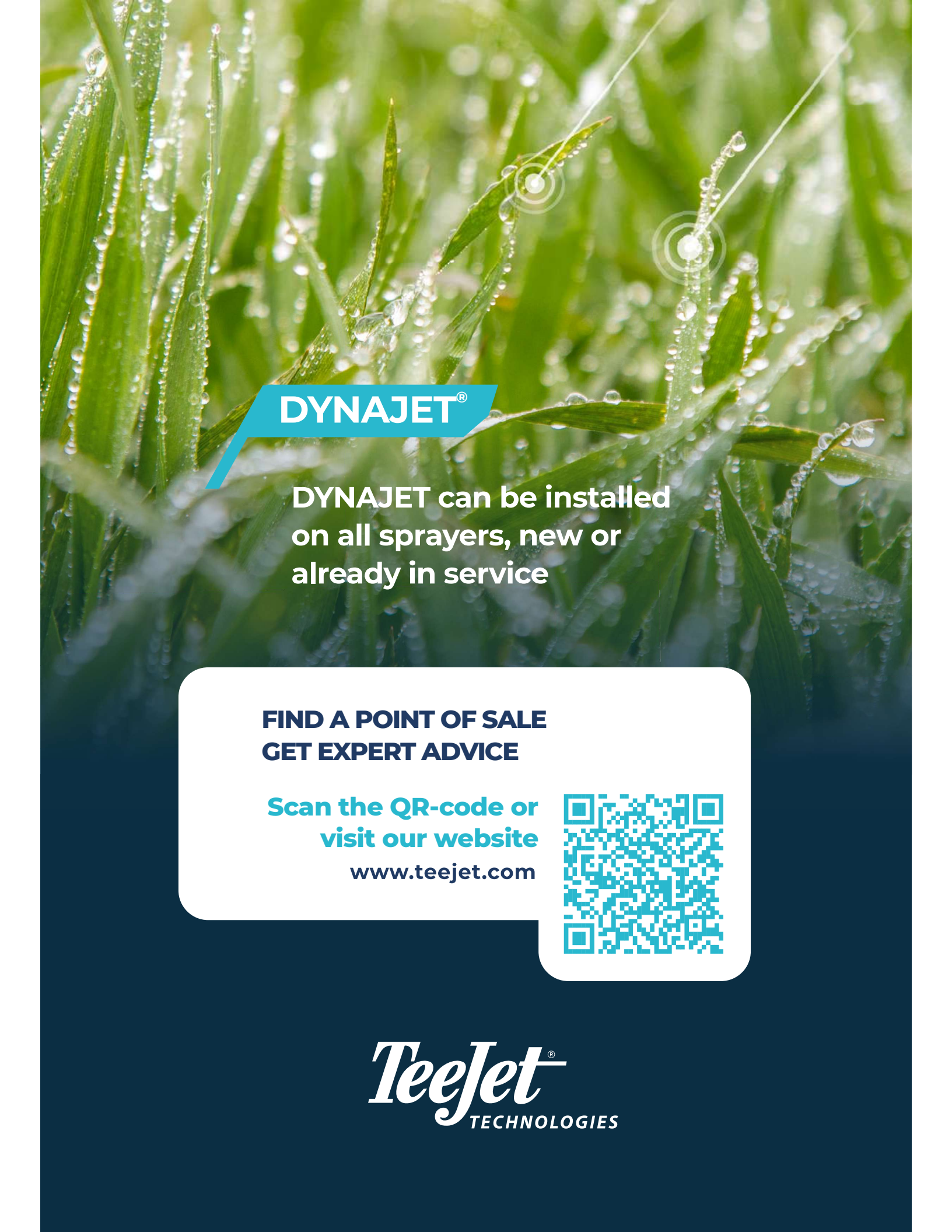
This is how DYNAJET, paired with a weed detection system, can offer a ready-to-use spot-spraying function, with a simple software update or unlocking of the function by code.





DYNAJET®

The weeding techniques of tomorrow are included in your existing sprayer.



DYNAJET®

**DYNAJET can be installed
on all sprayers, new or
already in service**

**FIND A POINT OF SALE
GET EXPERT ADVICE**

**Scan the QR-code or
visit our website**

www.teejet.com



TeeJet®
TECHNOLOGIES