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1. Progression of MF Sprayer
2. A New Sprayer Concept
3. Main Customer Benefits
4. South Africa Specification
5. Questions



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PROGRESSION OF THE MF SPRAYER

Timeline Class 3 MF sprayers

MF9030
2011



- AGCO Power engine
- Flex Frame chassis
- 4WD crossover
- Independent axle
- Active suspension
- PWM valve

MF9030 Plus
2016



- Stainless steel lines
- End Cap systems
- New filtering system
- Ramp cap. 28%
- Air-ride seat
- Boom height system 5 sensors
- New freshwater tank
- Pneumatic pump

MF9130
2016



- AGCO Power electronic engine
- Improved fuel efficiency
- Less maintenance

MF9300
2018



- New boom design
- 30 and 32 m
- 9 pneumatic sections
- Multidirectional tripping
- Active boom control
- Pro Stop valves

MF 500 R

2022



- 36 sections
- New Liquid Logic System
- New AWD Smart Drive MF Guide Technology
- MF Connect Telemetry
- Weather Station



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IN ADDITION TO THE NEW
ADDITIONS, WHAT WAS ALREADY
GOOD REMAINS...

FLEX FRAME CHASSIS

**ACTIVE AIR
SUSPENSION**

**EXCELLENT
WEIGHT/POWER RATIO**

**NORAC BOOM HEIGHT
CONTROL**



A NEW SPRAYER CONCEPT



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A New Sprayer Concept

Farmer benefits



+ Product savings
+ immediate product application

Liquidlogic spray system



+ Decision making data

NEW MF Connect

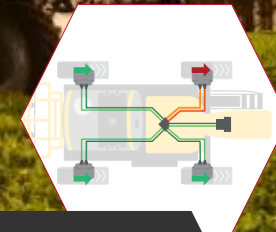


+ Greater accuracy and reliability
+ Easy to operate

New MF Guide

+ Smaller sections for even more savings

New section control



36% ramp capacity
Entering the crop in wet conditions
fuel savings

New Smart Drive transmission

SALES TRAINING ON THE NEW MF500R SERIES

5 A New Sprayer Concept

WHERE WE ARE

- Mechanical hydraulic system, 4WD crossover
- 28% ramp capacity
- 9 pneumatic sections
- Standard spray loop
- Side reloading without digital panel
- C3000 technology with AGI4 antenna
- No telemetry
- No weather station
- No camera
- Standard cab and mechanical mirrors
- Halogen lighting

WHERE WE ARE HEADING

- AWD Smart Drive system with independent traction control
- 36% ramp capacity
- 36 electrical sections
- LiquidLogic spraying system
- Side and front reloading with digital panel
- MF Guide with Trimble receiver
- Massey Connect telemetry
- With weather station
- Up to 4 cameras
- Spacious cab with electric mirrors
- LED lightning

COMMON RAIL AGCO POWER ENGINE

Designed for lower RPM agricultural applications

- **AGCO Power Electronic 66CW3 6-cylinder** agricultural engine (*Tier III*)
- Engine Power: 210 hp @ 1900 rpm
- Average consumption: **11.0 liters/hour**

Why is our engine the most economical in its class?



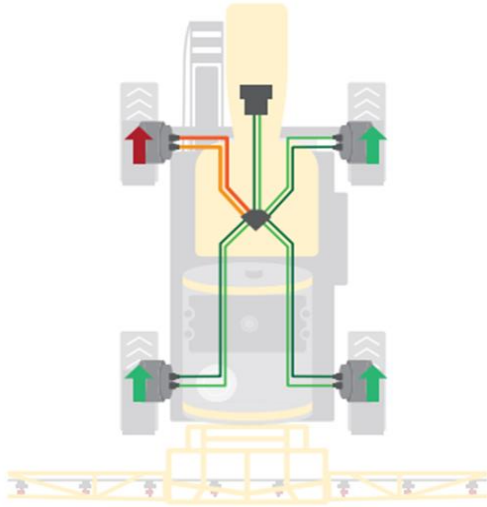
- Engine runs at lowered RPM with full operating capacity
 - ✓ **Full spray pump capacity at 1650rpm**
 - ✓ Increased engine component life
 - ✓ Cooling package with hydraulic oil cooling
 - ✓ Reduced noise in the working environment (68 db)
 - ✓ **AWD Smart Drive transmission system – 15% less consumption than the previous generation**



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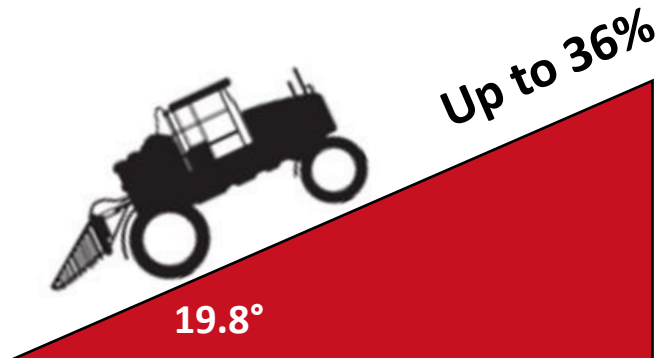
SMART DRIVE TRANSMISSION



AWD Smart Drive Transmission

- ✓ **Independent Electronic 4WD Transmission**
 - State-of-the-art transmission
 - Increased traction capacity
 - Early entry into wet conditions
- ✓ **Automatic RPM and ground speed control**
 - Reduced fuel consumption
 - Improved quality in the application
 - Reduced operating fatigue
 - Improved efficiency
- ✓ **Hydrostatic lock**
 - Prevents slippage and wheel block
 - Improved braking performance and safety
- ✓ **Wheel speed compensation**
 - Less damage to the crop
 - Less disruption of the topsoil layer

**High operating capacity
for high-sloping terrain**

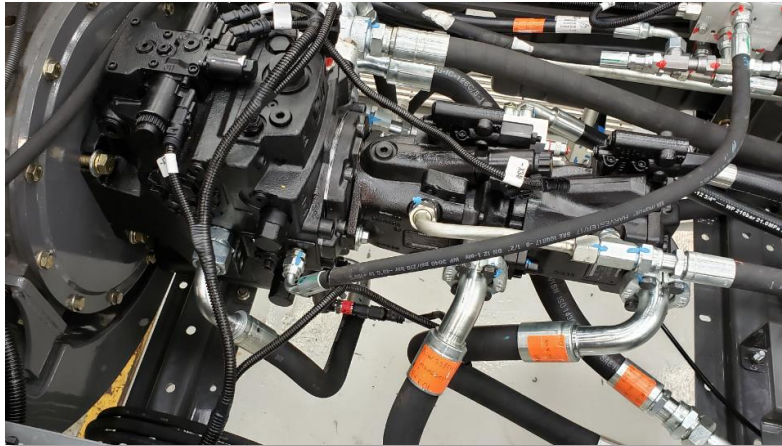


*This may vary depending on the soil,
moisture or previous crop stubble.*

SALES TRAINING ON THE NEW MF500R SERIES

5 A New Sprayer Concept

AWD Smart Drive Transmission



Danfoss piston pump



Bonfiglioli final drive



Danfoss motor

Field mode	Road mode	Headland braking (braking distance)
0 to 32 km/h	0 to 45 km/h	12m @ 20 km/h

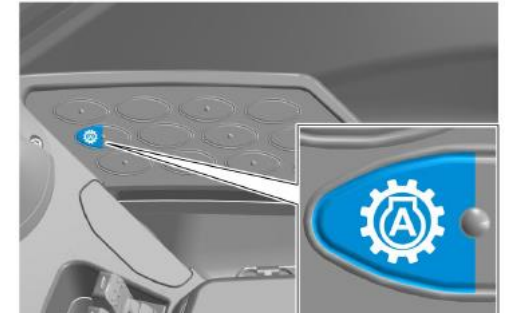


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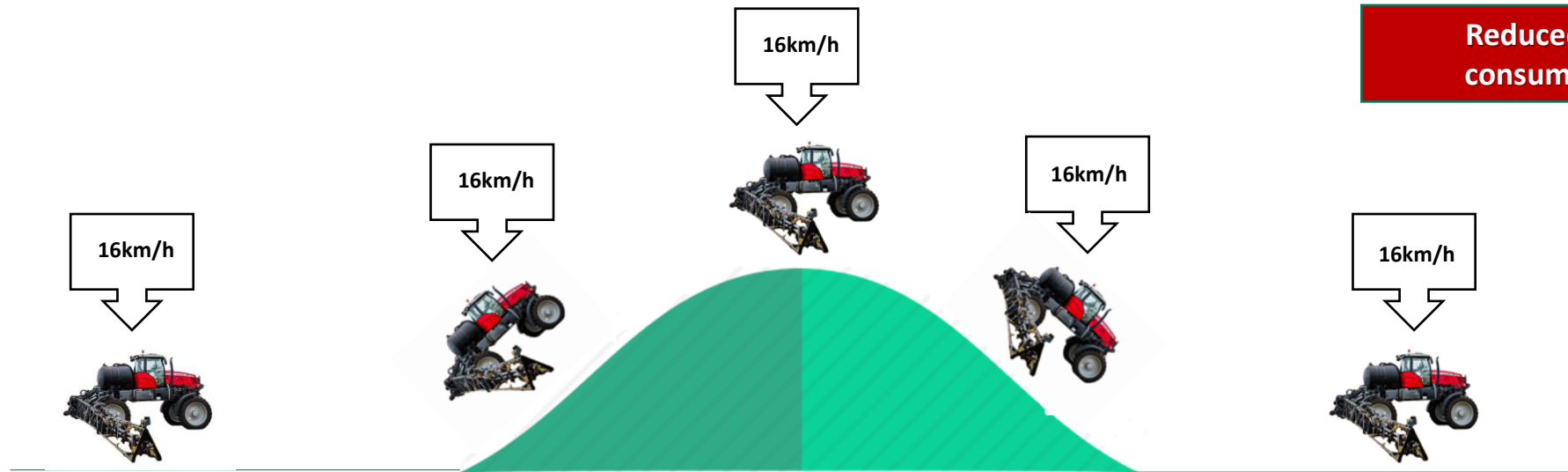
AWD SMART DRIVE TRANSMISSION

- Keep the same speed by controlling rpm automatically
- Ease of operation with just one command
- Reduced fuel consumption
- More efficient application



**Improvement in the
application window**

**Reduced fuel
consumption**



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NEW MF GUIDE



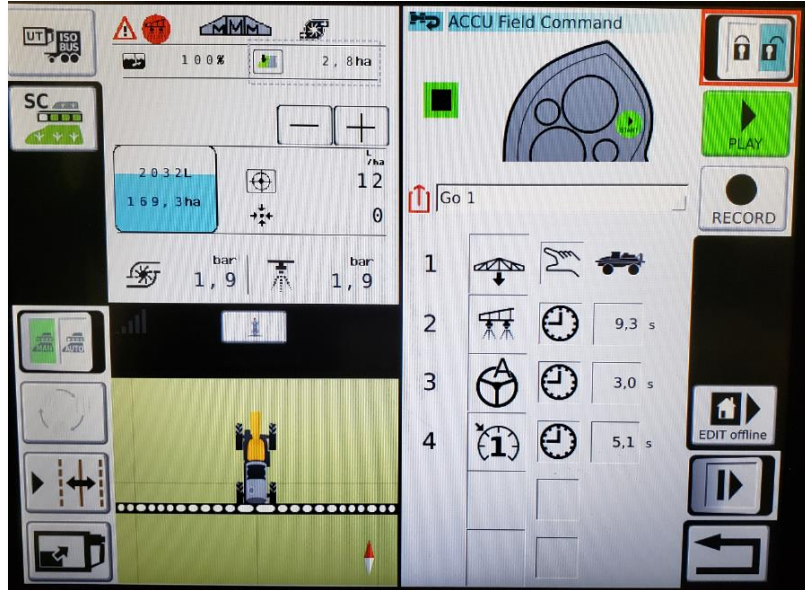
- ✓ Spray and section controller, guidance system, machine monitoring and cameras (up to 6) all in one screen
- ✓ 10.4" with simple, intuitive controls
- ✓ Headland turning
- ✓ DTM automatic speed control
- ✓ Weather Station display
- ✓ Monitor-integrated boom height control



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NEW MF GUIDE



HEDLAND TURN (Accufield Command™)

With AccuField Command™ headland management, operators can activate automated headland operation sequences at the touch of a button, saving time and increasing productivity.

Up to 32 sequences and 2 speeds!

10% increase in operating efficiency



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SPRAYING – NEW LIQUIDLOGIC® SYSTEM



**Digital reloading panel
(greater precision)**

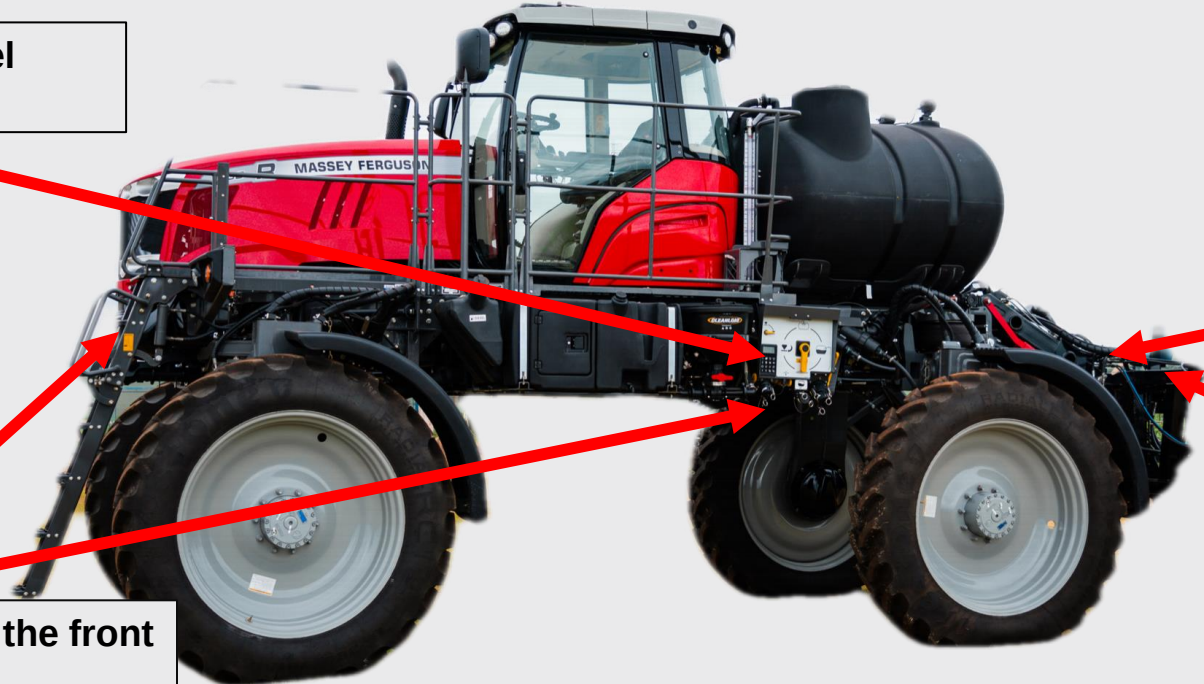
**Auto (proportional) agitation
system
(best solution mixture)**

**Reloading on the side and at the front
(versatility)**

**Product recirculation on the
boom
(improved solution mixing)**

**Automatic cleaning system
(ease and quality)**

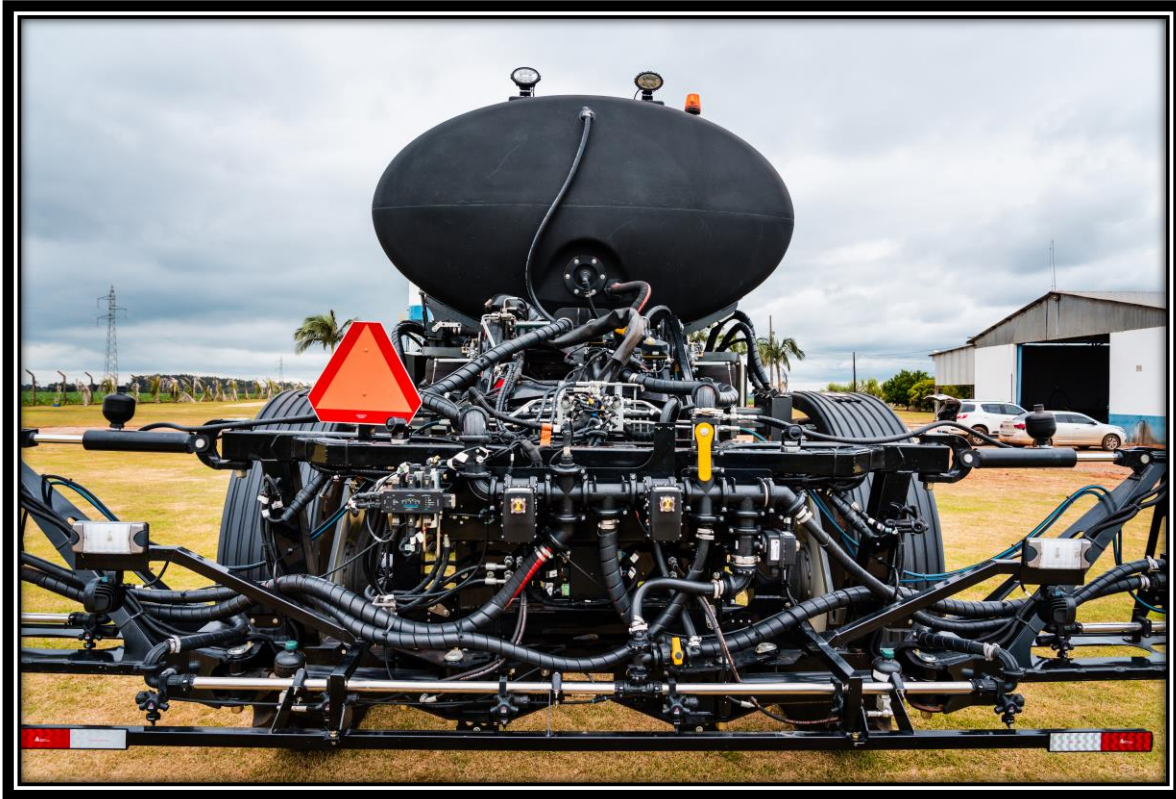
**Product recovery
(product savings)**



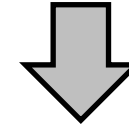
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SPRAYING – NEW LIQUIDLOGIC® SYSTEM

Product recovery

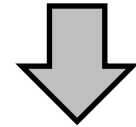


No product recovery



56L of boom solution is lost when the product is changed

With product recovery



Only 6L of boom solution is lost when the product is changed

Product saving



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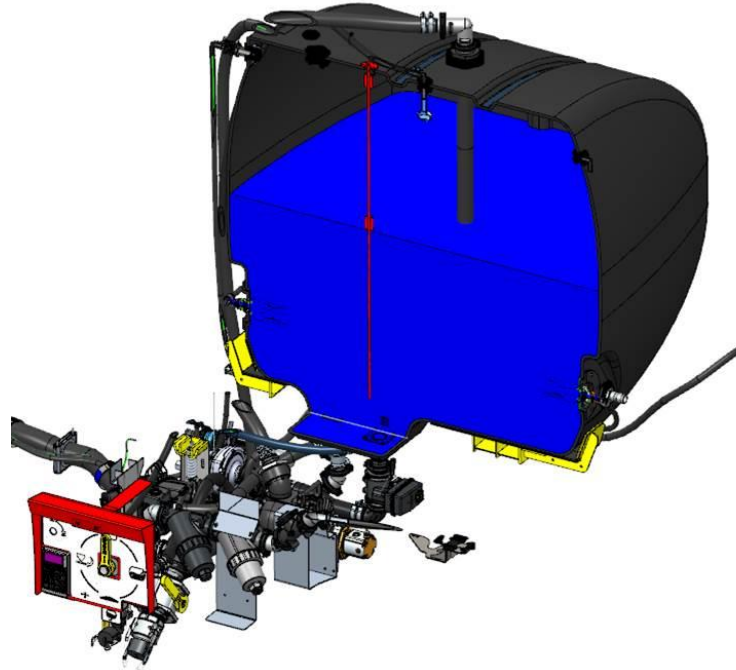
SPRAYING – NEW LIQUIDLOGIC® SYSTEM

Automatic agitation

Agitator with auto-scaling

Constant agitation rate

Proportional to remaining volume



Less foaming

Improved mix quality

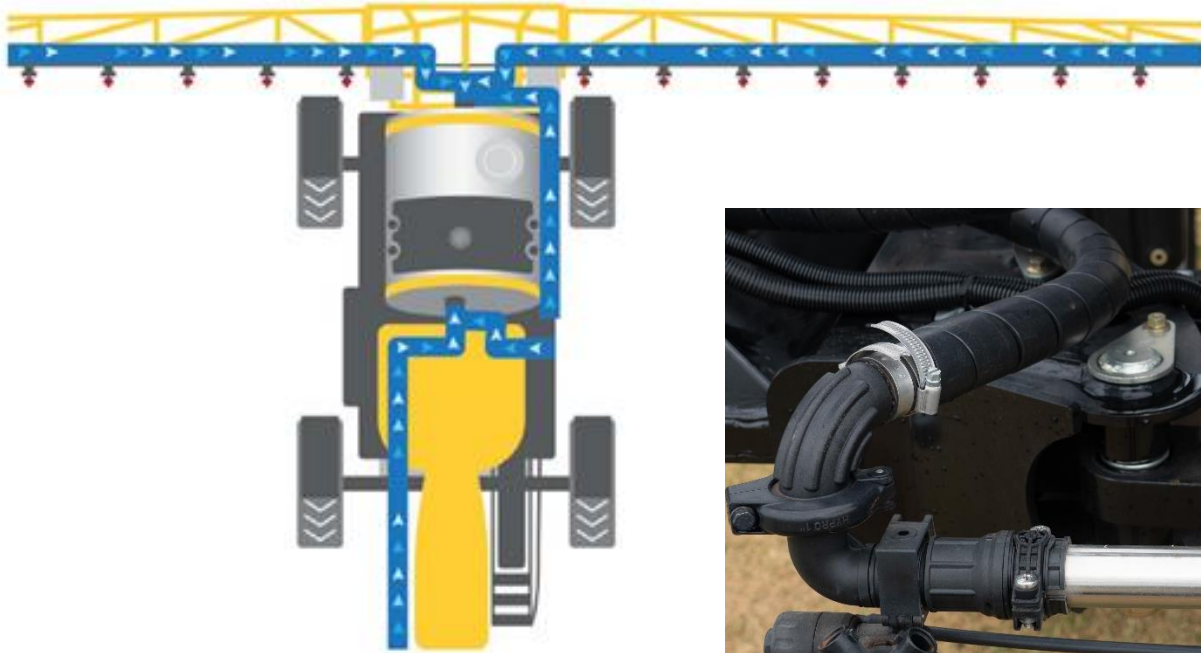


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SPRAYING – NEW LIQUIDLOGIC® SYSTEM

Recirculation

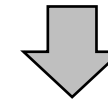


Helps prevent nozzle clogging

Product immediately available in the boom

Improved solution homogeneity

Improved quality in the application!



Higher application quality

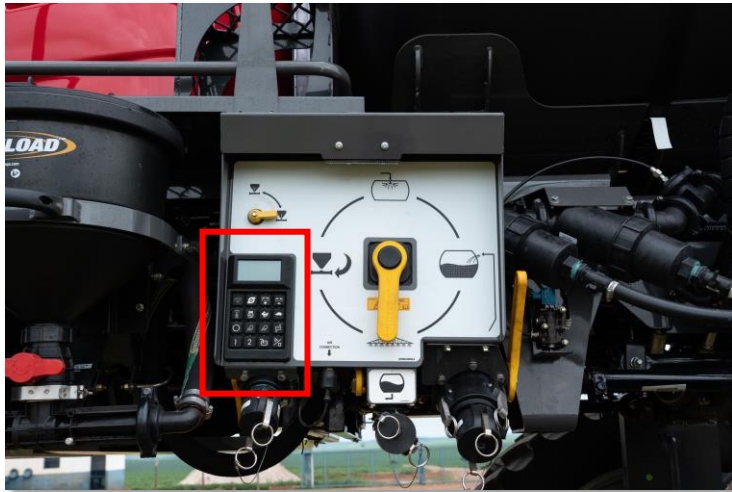


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SPRAYING – NEW LIQUIDLOGIC® SYSTEM

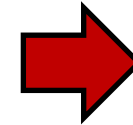
Digital reloading panel



Digital side reloading panel



Front reloading



Customer knows exactly how many hectares they will spray

Refill the tank to the exact desired volume

Higher operating performance

Prevents product waste



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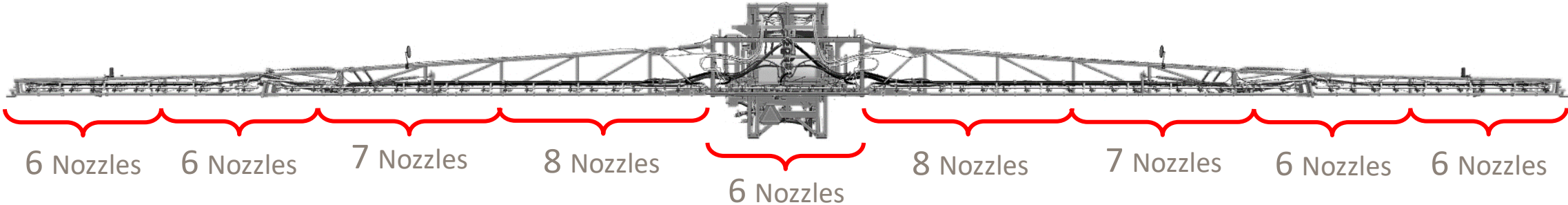
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MF500R SERIES

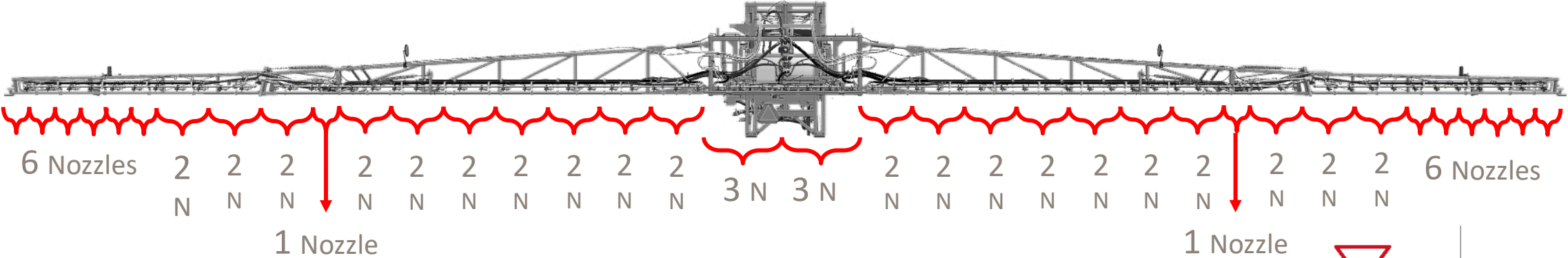
SPRAYING – NEW SECTION CONTROL SYSTEM

30m Boom

9 Pneumatic Sections



36 Eletronic Sections

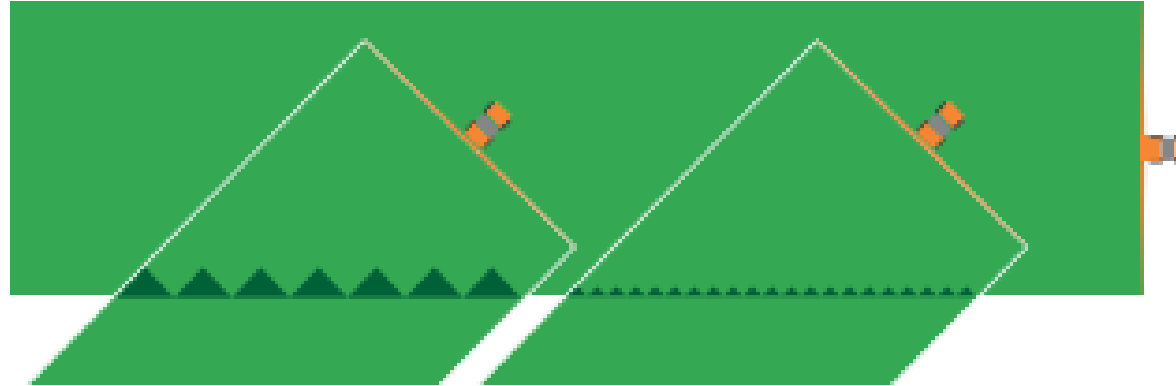


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NEW SECTION CONTROL

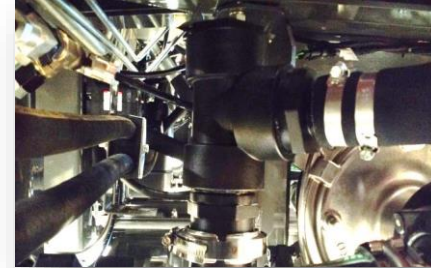
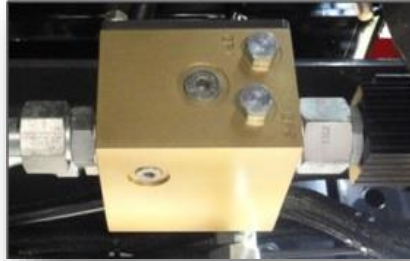
9 pneumatic sections



36 electric sections

Reduction in spraying overlap

PRODUCT APPLICATION



- ✓ Hypro high flow, low pressure centrifugal pump
- ✓ Speed sensor: constant spraying for different engine rpm
- ✓ Reliability

- ✓ PWM control
- ✓ Faster rate control
- ✓ Longer pump life
- ✓ No contact with pesticides

- ✓ Fewer in-line filters while maintaining efficiency
- ✓ Pressure surge protection system

- ✓ Nozzle tip with electrical control
- ✓ Response time of 0.25 sec to open and 0.05 sec to close

Improved quality and reliable application

AUTOMATIC BOOM HEIGHT CONTROL

+ 5 Sensor NORAC standard on all MF 500R models

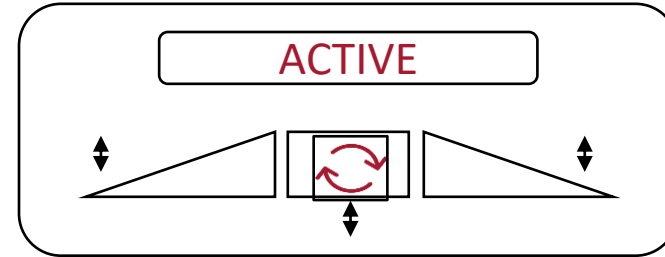
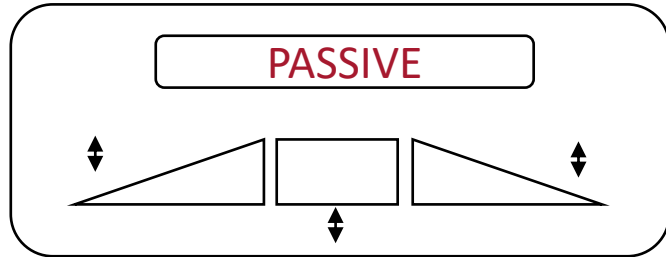
+ Optimal boom height produces optimal spray pattern
+ Without operator input



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ACTIVE BOOM TILT COMPENSATION



Faster leveling with active boom tilt compensation

NEW MODERN CAB



Completely new cab

- Wider and more modern
- Greater visibility
- Ergonomically designed controls and integrated armrest
- Less internal noise
- Electrical rear mirrors
- USB port
- Air-ride seat

+ Convenience + Operating efficiency

NEW LED LIGHTS

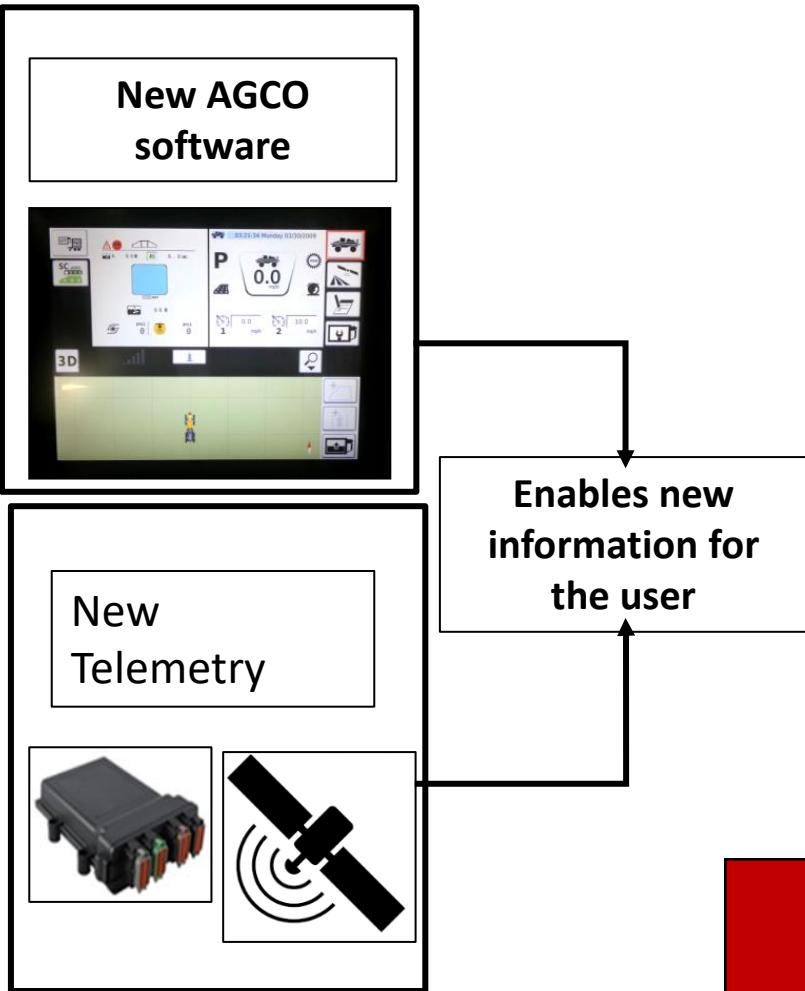


LED headlights - 8 headlights on the roof - 4 front + 4 rear + 2 on the boom
Blue Light

Higher operating efficiency with enhanced visibility

Product visibility at night

MF CONNECT



Machine Management	Spraying Management
Engine hours	Application rate
Water temperature	Section control
Engine load	Applied area
Oil pressure	Machine status
Fuel consumption rate	Product level in the tank
System hydrostatic pressure	Temperature (Weather Station)
Oil temperature	Wind speed (Weather Station)
Vehicle speed	Moisture (Weather Station)

+ Decision making data

+ Farm manager can ensure
the sprayer is running
optimally



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ADVANTAGES AND BENEFITS FOR THE CUSTOMER



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NEW SERIES OF MF500R SPRAYERS

Advantages to the customer from starting the engine to storage

1

ENGINE

- + 30% savings
- + DTM auto RPM management

7

LIQUIDLOGIC® SPRAYING SYSTEM

- + Spray quality
- + Product savings

2

NEW CAB

- + Operating comfort
- + Safety
- + Worked hours

6

NEW SECTIONS CONTROL

- + Reduced cost/ha

3

SMART DRIVE TRANSMISSION

- + Higher average infield speed
- + Ease of use

4

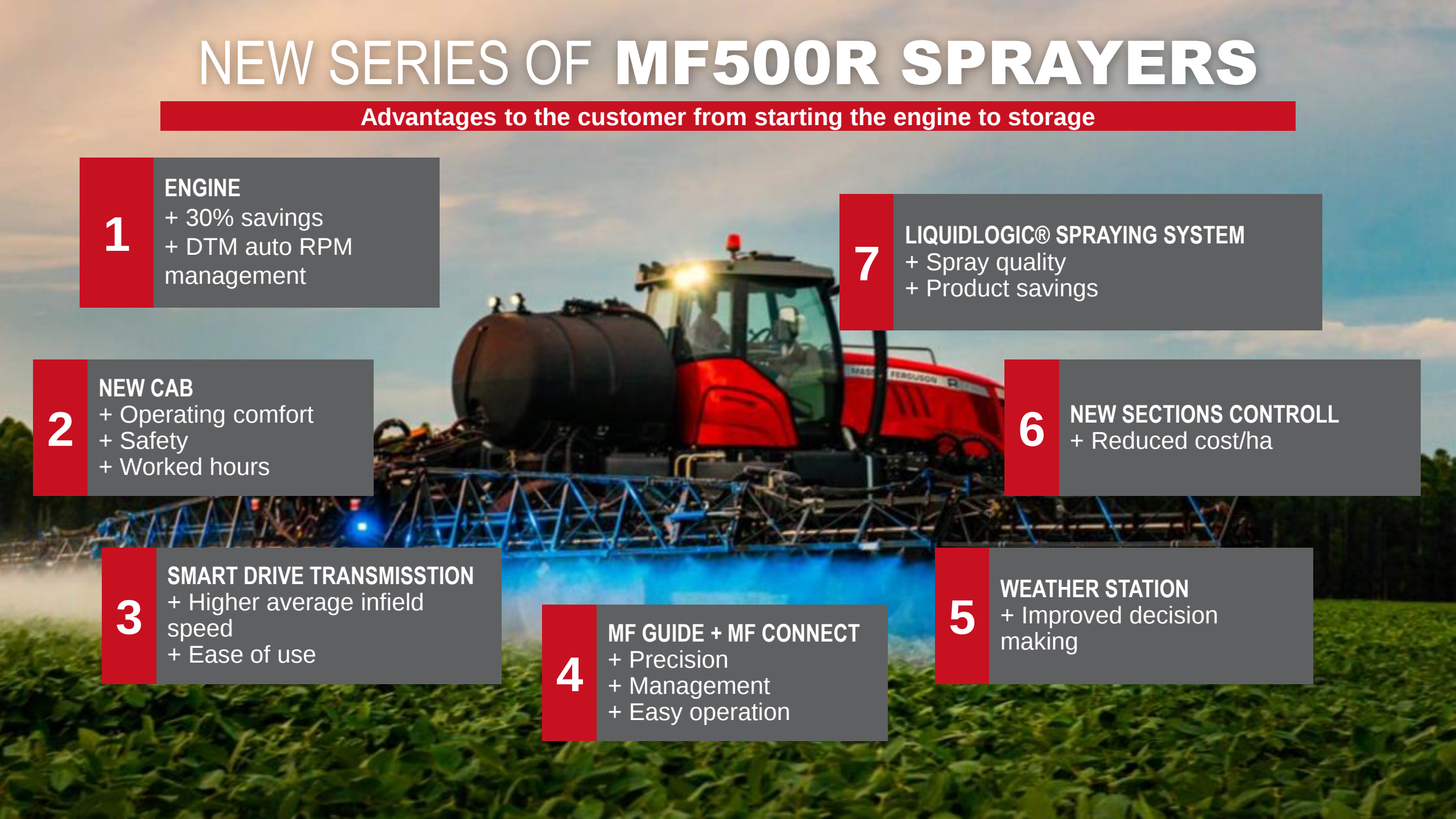
MF GUIDE + MF CONNECT

- + Precision
- + Management
- + Easy operation

5

WEATHER STATION

- + Improved decision making



MF500R Specification



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AFRICA SPECIFICATION

MF 530R - 30m Active		
	530R	3000 Liter Tank
Telemetry	C	Telemetry ACM High Spec
Tyre	1	IF 380/90R46 R1W Michelin Agribib, VL 1,65 m
Boom	3	30m Boom - 50cm nozzle spacing
Accuracy	A	Trimble CenterPoint unlocked
Tech Option	E	Liquid logic + Reload Pump + Weather Station
Boom	F	Active + 36 Sections
Market	X	Africa

MF 535R - 30m Active		
	535R	3500 Liter Tank
Telemetry	C	Telemetry ACM High Spec
Tyre	1	IF 380/90R46 R1W Michelin Agribib, VL 1,65 m
Boom	3	30m Boom - 50cm nozzle spacing
Accuracy	A	Trimble CenterPoint unlocked
Tech Option	E	Liquid logic + Reload Pump + Weather Station
Boom	F	Active + 36 Sections
Market	X	Africa

Liquid Logic	Recirculation
	Product recovery
	Boom Clean Out
	Electric Mirrors
	LED Light
	2 Cameras
	Front Reload with Clean out
	Fence row nozzle