

MAF

3180 3180MC

MAF

3580HP

MAF

4080HP



POWERFUL AND COMPACT!

MAF raised the self-propelled segment, taking it to a level of power, performances, comfort and safety previously unknown.

Responsive and agile, specifically designed as a lightweight self-propelled, fast and maneuverable.

An extended range to further increases the offer of customization in the segment of premium selfpropelled compact vehicles. The different traction and capacity identify the different use of the MAF in Small Grain, High valued crop, hilly or muddy and rice conditions.

■ MAF 3180

Capacity 3100 Lt or 2600 Lt

■ MAF 4080 HP

High performance, capacity 4200 Lt
HP Powerful transmission

■ MAF 3580HP

High performance, capacity 3600 Lt or 3100 Lt
HP Powerful transmission

■ MAF 3180 Mc

Capacity 3100 Lt, 3600 or 2650 Lt
Final transmission by mechanical axles

CABIN

Real time, info logic TERA 10 color touch screen. All information about working/transport setting, hydraulic system, engine and warning maintenance are displayed in real time.

TERA 10 can display up to 2 cameras and the possibility to consult the Use and maintenance book which are stored in the memory. For some Countries is available the function of remote control of data or software update.

Innovative working and diagnostic solution, for the best performance and the maximum operative comfort.



New dashboard simplifying operation, visualized on TERA monitor.



Round Joystick to select function on Tera 10 alternatively to touch Screen.



Ergonomic joystick Speed/direction, Hydraulic boom functions control, spray master switch, Air inclination (if equipped).



A new John Deere Cabin, with interior developed and engineered by Mazzotti, to make it: comfortable for long day usage, safe with an level 4 recirculation, friendly use with intuitive commands, soundproofed and entertained to stay connect, and a wide visibility around.



Homologated and certified Level 4 system, for a clean air into a pressurized ambiance

Electric mirrors

Ladder folding outside and always visible, with large side access



3+3 Led Light for night working

Clothing Locker



Nr 6 road lights

Stereo AM/FM, Bluetooth, internal microphone Electric mirrors

Large box container on the right side of the cab

Pneumatic adjustable and heated seat, with passenger folding seat



ENGINE AND TRANSMISSIONS

MAF are equipped with the John Deere PowerTech PSS 4 cylinders, 4.5L, 129 Kw (175 hp), Tier 5 DEF.

Or with the 6 cylinders 6,8lt 129 Kw (175 HP), Tier IIIA.

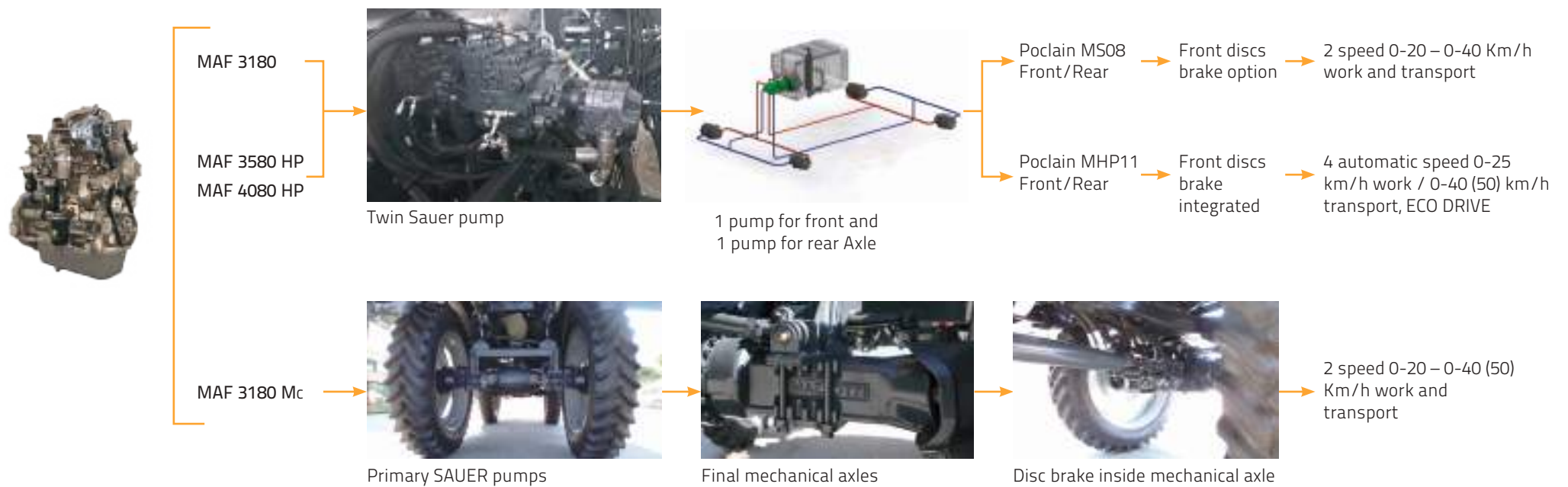
Engine is contained in a completely openable boxes, accessible by the hydraulic ladder for the maintenance.

Separate cooling circuits for engine, hydraulic oil and air conditioning, for a perfect efficiency.

Option for MAF 4080 HP the new John Deere engine 6.8L, 6 cylinders, 168 Kw (225hp) Tier 5 DEF.



NR 3 TRANSMISSION ORIGIN FROM THIS ENGINE:

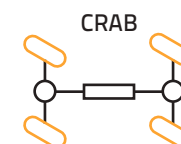
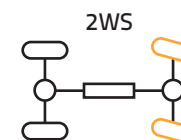
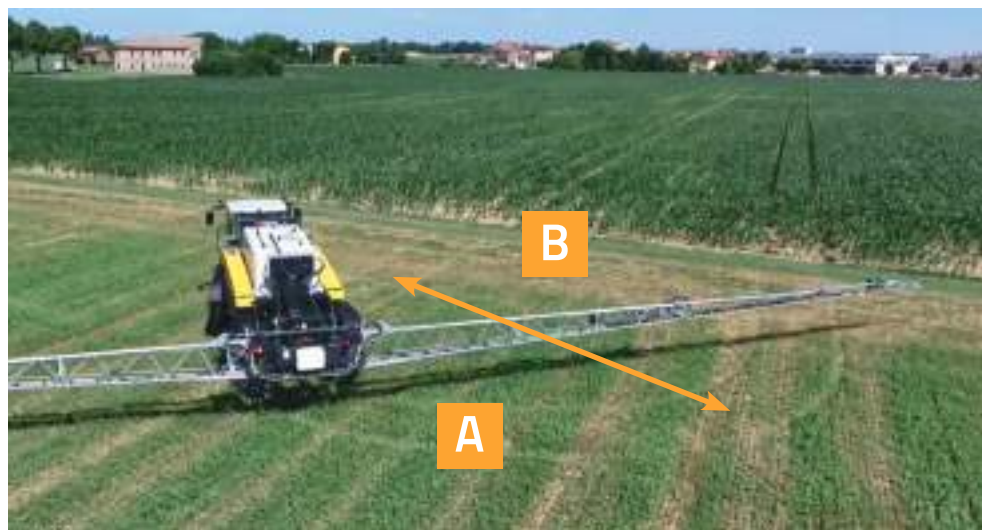


4 WHEELS STEERING

4-wheels steering system is critical to reduce the time for accessing the field and not to damage the crops. The rear wheels always follow the front ones leaving two path (A) on the soil, and allowing a tight 5350 mm steering radius (B).

The MAF allows 3 combinations of steering, two front wheels, four-wheel steering, and crab steering.




Security to drive only with two wheels steering on the road, with the exclusive Mazzotti axle lock, is a key security driving at 40 km/h.



ALL 3 models MAF, MAF HP and MAF Mc are equipped with 4 wheels steering, in different configuration.

MAF 3180Mc, 3580HP, 4080 HP are standard equipped with Mazzotti-Sauer automatic 4 WS S-2C system, including redundant angle sensors on steering Cylinders, 2 steering pumps, 2 independent oil lines, and the auxililar manual release system in case of malfunction.

MAF3180 is equipped with 4WS and offer the S-2C system as option.

Model	4 WS, 2 WS, Crab	Number of Oil pump/ steering circuit	Safety Pin		4WS pedal		4 WS safety valve	
MAF 3180 Mc	Yes	Nr 2	NO		Pedal change from 2 to 4 WS in field. Mazzotti S-2C Electronic software controls the alignment, making operation precise and faster.		In case of malfunctions electronic or Hydraulic, the safety valve allow to proceed work or drive back home.	
MAF 3180	Yes	Nr 1	Yes, manually inserted by in cab-switch or pedal during work in field.		Pedal change from 2 to 4 WS in field. Safety pin must center to align. (OPTIONAL Mazzotti S-2C steering)		NO	
MAF 3580 HP MAF 4080 HP	Yes	Nr 2	Yes, automatically inserted from 27 km/h, and disengage below 17 km/h. Alignment made with sensors on 4 wheels steering.		Pedal change from 2 to 4 WS in field. Mazzotti S-2C Electronic software controls the alignment, making operation precise and faster.		In case of malfunctions electronic or Hydraulic, the safety valve allow to proceed work or drive back home.	

TRACK AND CLEARANCE

MAF 3180 - MAF 3580 - MAF 4080 HP

MAF is standard delivered with the Hydraulic adjustment of the track on the single wheels, including lifting device. This system has been developed for seldom track adjustment, the whole adjustment will be made in less than 45 minutes.

Available as option the Automatic track from cabin, offering the possibility to change track from open to close and other way around from the cabin. Intermediate position are available by positioning bracket ordered on purpose. Both models are offered with the standard clearance of 1000 mm and the option clearance of 1300 mm.



MAF 3180 Mc

MAF 3180 Mc offer two clearance possibility, clearance 600 mm with the straight differentials and clearance and approximate 900 mm with the portal drive Axle.



Model	MAF 3180	MAF 3580 HP	MAF 4080 HP
Clearance 1000 mm	Track maintained up to wheels sections 340 mm (up to 420 mm if with rim 46)		
Hydraulic track Available mm	1500 / 1600 / 1700 / 1800 1800 / 1900 / 2000 / 2100 / 2250 2250 / 2500 / 2700 / 2800 / 3000		1800 / 1900 / 2000 / 2100 / 2250 2250 / 2500 / 2700 / 2800 / 3000
Automatic track Available mm	1500 / 1800 1800 / 2250 2250 / 3000		1800 / 2250 2250 / 3000
Clearance 1300 mm	Track with Wheels section up to 340 mm (up to 420 mm if with rim 46)		
Hydraulic track Available mm	1800 / > 1900 / 2000 / 2100 / 2250 2250 / 2500 / 2700 / 2800 / 3000	2000 / 2100 / 2250 / 2450 2450 / 2700 / 2900 / 3100 / 3200 2250 / 3000	
Automatic track Available mm	2250 / 3000	2000 / 2450 2250 / 3000	

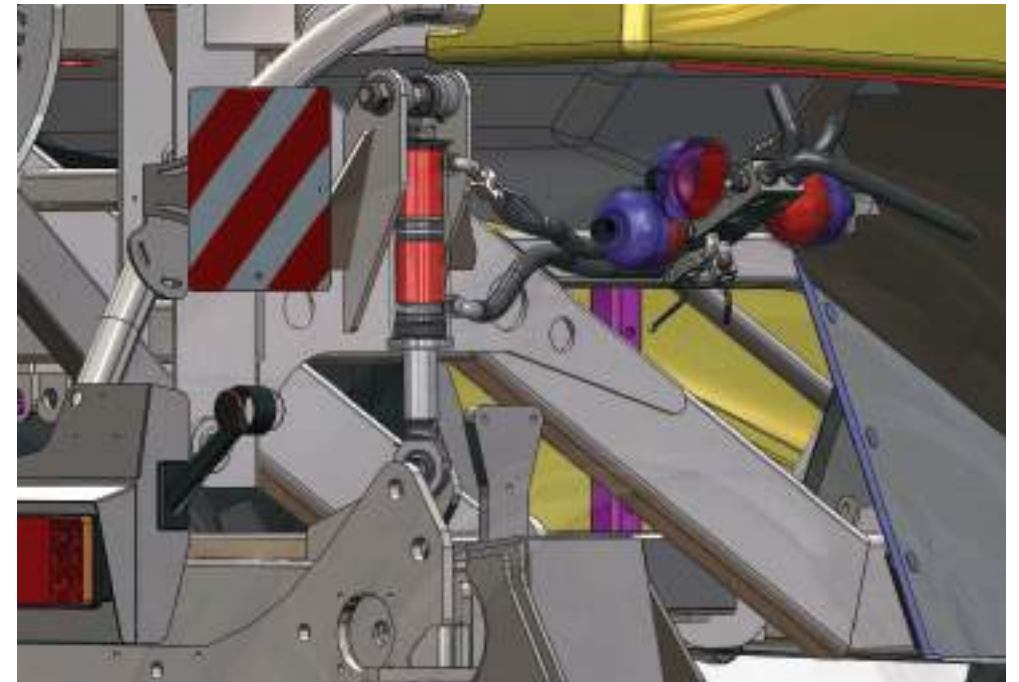
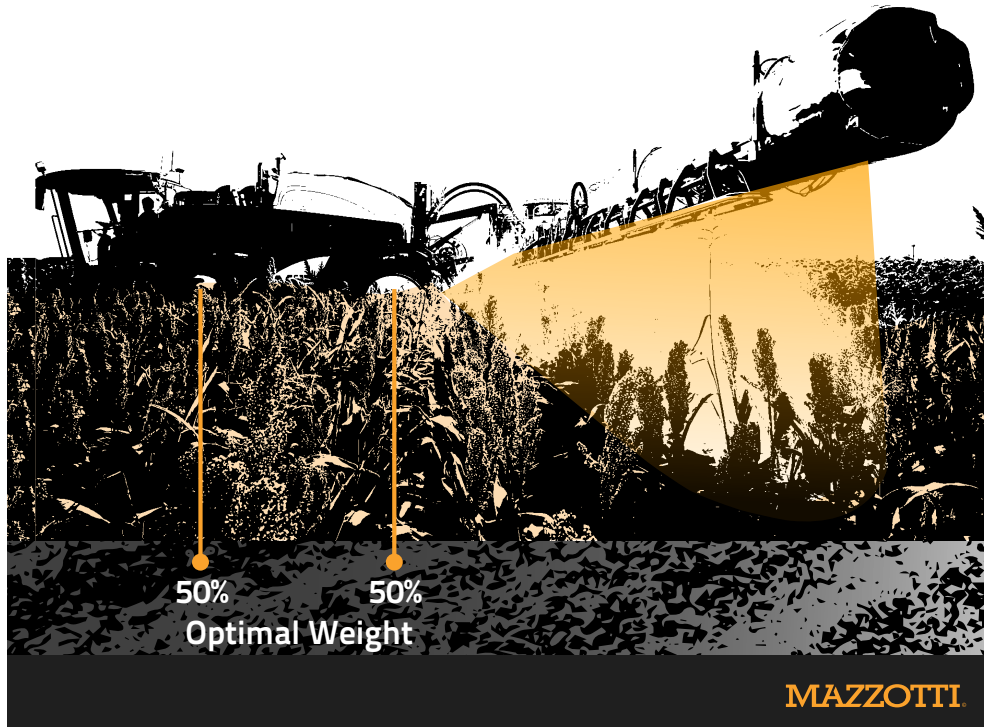
MAF 3180 Mc	Track
Clearance 600 mm (bolded rims)	1800 - 2000 1600 - 2100
Clearance 900 mm	2000 - 2250

WEIGHT DISTRIBUTION AND SUSPENSION SYSTEM

Main fiberglass tank with capacity of 2650, 3100 and 3600 lt and a new Polyethylene tank with 4200 lt equipping MAF 4080 HP. All MAF tank are equipped with breakwater bulkhead, and clean water tank. The position of tanks and components have been carefully studied during project phase to achieve an optimal weight distribution of 50% on each axle, in the worst conditions of full tank and open boom.



The sturdy frame, oversized for improved safety, has undergone a specific process to protect it from corrosion, including sandblasting, washing cycles, anti-rust treatments, powder varnish and baking. The hydraulic suspensions, assembled on a suspended front axle and rear delta axle, are supported by shock absorbers with double oil chamber, high speed seals and 6 hydro pneumatic accumulators.



WATER SYSTEM / BOOM

Designed for easy access and use. The 330 lt pump, is located in the right compartment, along with all suction and delivery filters. Above the compartment are positioned the centralized hydraulic pumps controls, suspensions settings and electrohydraulic valves.



The left compartment includes the multifunctional water valves for filling, chemical mixer and washing operation, and the electric panel to operate engine and pump. The after work washing operation perform a complete washing including tank, or just a partial washing of the circuit. An electronic litercounter displays the quantity of water in the tank.



CHOICE OF MONITOR AND SPRAYING SYSTEM
 MAF assemble as standard the Bravo 400s with Seletron single nozzle controls, or the larger Delta monitor.

Can assemble JD Deere monitor G4, with SF 6000 receivers, using the same ARAG controller and Seletron single nozzles controls.

Standard Bravo 400



Optional the larger Delta 80 Monitor



Seletron



Seletron Twin is available as an option, which allows automatic selection or manual of the nozzle to be used (or both nozzles at the same time) depending on the speed, conditions, and culture.



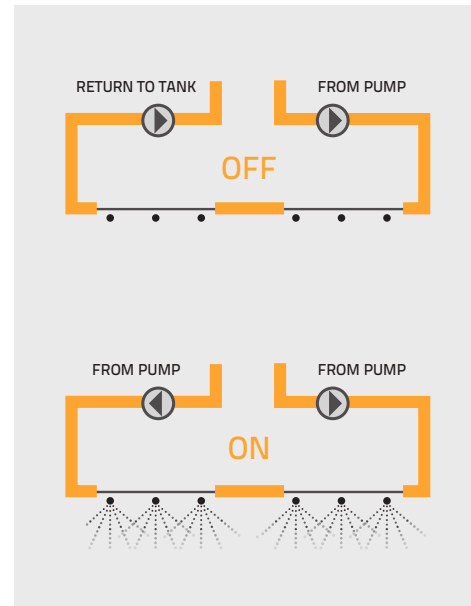
On T-M EVO boom is possible to fit Nozzles at 25 cm spacing



WATER CIRCULATION SYSTEM

Standard with Selectron or John Deere INC.

- Less risk on sedimentation in the lines, less risk on blocked nozzles.
- Immediate spray start possible no time lose, and always a concentrated start, no missed areas.
- Less risk of weed triangles at the spray start
- Circulation Pressure can be preset, immediate pressure build up at the nozzle.



PRESSURE CIRCULATION

Electric single nozzle control.

■ OFF MODE

Liquid circulates from pump to tank and along the nozzle bodies.

■ ON MODE

Circulation line becomes supply line with spray.



JOHN DEERE SOLUTION SYSTEM 4240 - 4640

Generation 4 Monitors



Monitor 4240

Monitor 4640

GPS Receiver SF 6000



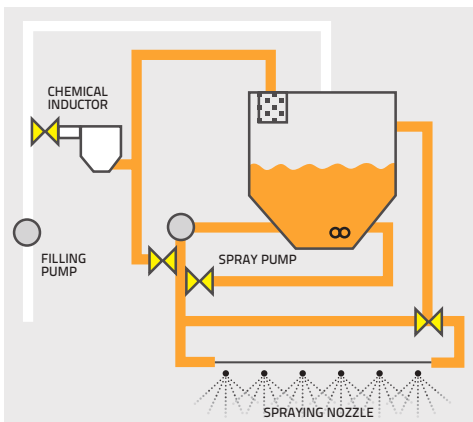
John Deere M-Spray and INC (Individual Nozzle Control)



John Deere Joystick



M-Spray Solution System



ATC300 or ATU autosteering



WORKING STATION

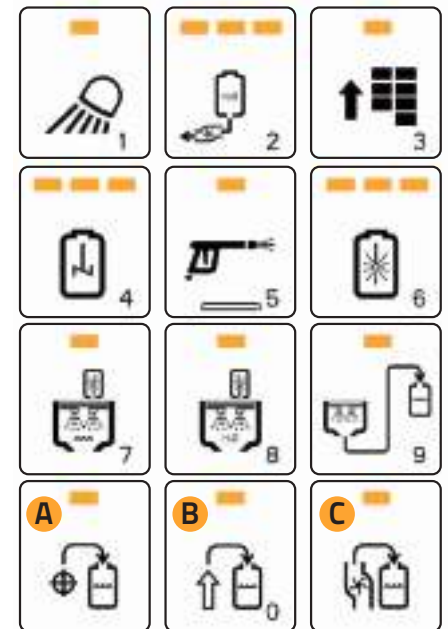
- 1 Emergency Stop
- 2 Panel power switch
- 3 Induction hopper (Mixer) Power lift/lower
- 4 Electric tank drain
- 5 Engine remote throttle



COMMAND DISPLAY

COMMAND KEYPAD

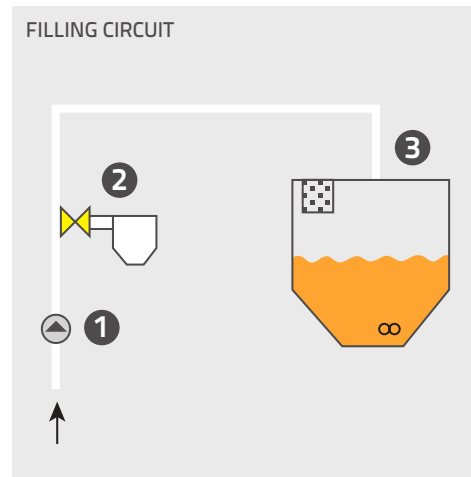
- 1 Load station light
- 2 Suction from clean water tank
- 3 Main menu / Transfer (pump out)
- 4 Agitation
- 5 Wash brush
- 6 Rinse
- 7 Inductor (suction from Solution tank)
- 8 Inductor (clean water suction)
- 9 Inductor empty
- A Auto-fill target tank content
- B Push-fill start
- C Suction fill start



M-SPRAY: DUAL CIRCUIT SOLUTION SYSTEM

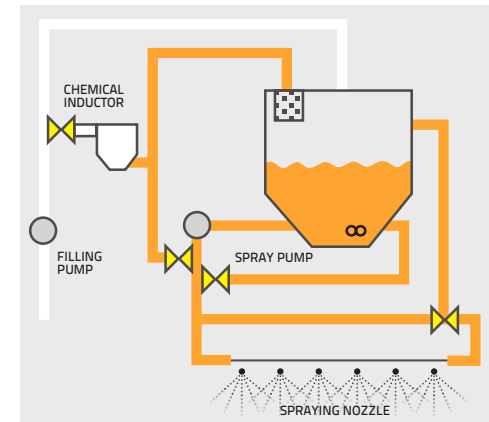
FILLING CIRCUIT

- Includes the 600 lt/min Filling pump (1), clean water feed to the chemical inductor (2), and the clean water feed into the solution tank (3).
- Suction from outside water sources or the clean water tank only.
- Able to draw water from a 7.6 m depth
- Reverse flow from solution tank to the filling circuit is NOT possible.
- Lower engine RPM needed during filling.



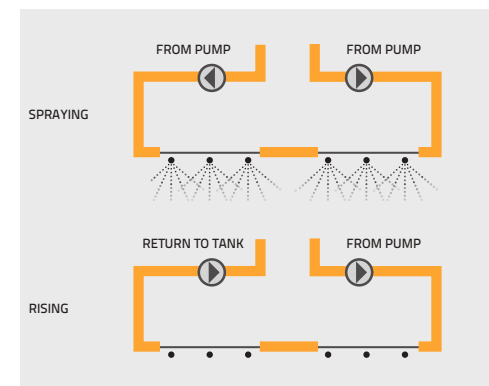
DIRECT RATE CONTROL

- Extremely fast Application Rate control for 98% spraying accuracy.
- Application rate control via pump speed
- No slow Pressure Regulators: Faster control & less to go wrong.
- Over or under dosing when speed changes almost eliminated.
- Amazing accuracy when combined with fast-switching Individual Nozzle Control.



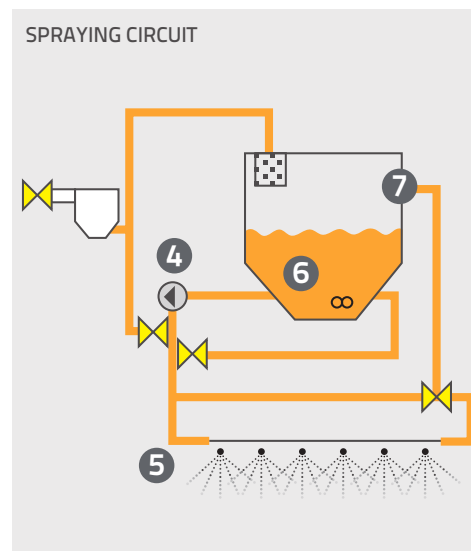
FULLY-AUTOMATED TANK AGITATION

- Manual intensity control 0 - 100%
- Auto Intensity control as solution tank level reduces.
- Auto shut-off at minimum tank level.
- Power Agitation - 'Aggressive mode' uses total. Spraying pump output to really stir-up the tank contents.
- Pressure circulation to avoid sedimentations and nozzle blockage.



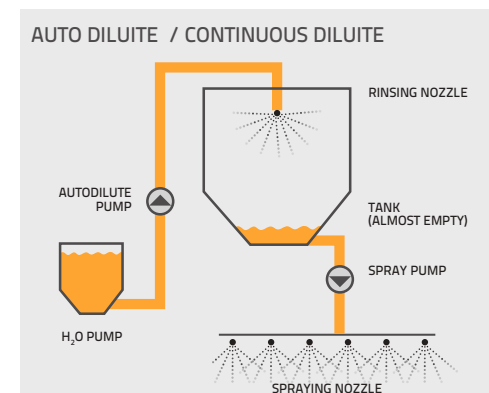
SPRAYING CIRCUIT

- Incorporates the 750 lt/min centrifugal Spraying pump (4), the Spray Boom and recirculation system (5), the Agitation Nozzles (6), and the solution tank rinse (7).
- Direct rate control – application rate adjusted by hydraulic control of pump speed.
- Maximum 9.7 bar pressure, 6000 rpm.



FULL-AUTOMATED RINSING FROM THE CAB

- Rinse Cycles – 'Washing machine' cycles fully rinse the machine ready to change chemicals.
- AutoDilute – multiple dilute-circulate-spray cycles for precise rinsing.
- Continuous dilute – clean water progressively added while spraying is completed.
- Boom rinse – wash out the boom only; perfect when weather stops spraying.



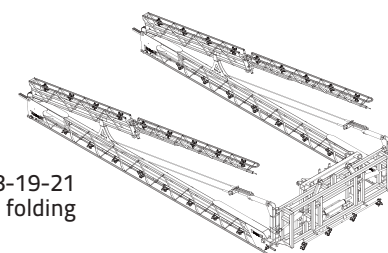
WATER SYSTEM / BOOM

MAF can assemble 2 boom series, the Ti-M series and the MK. Both series are standard delivered with single nozzle control Selectron (or option with John Deere INC) for a better water distribution managing each single nozzle independently by GPS signal.

MK boom has been developed having small grain in mind, with specific feature for MAF, Like the 3 parts folding arms, and the partial folding of the 36 mt into 24 mt. The MK boom is designed with a special profile which combine its minimum weight with maximum strength and stability. The central frame with two pivoting points allows the boom to freely balance around.

Ti-M is specifically designed for HVC, with the possibility to host the air assisted and with the variant EVO the nozzles spacing at 25 mt.

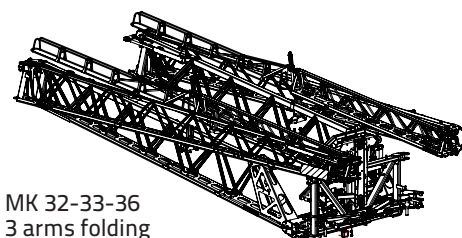
Ti-M booms is available with optional stainless steel arms, now presented with further protection cycles to offer an increased protection, an easy washability, and a unique shining look.



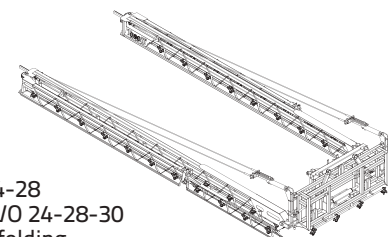
Ti-M 18-19-21
vertical folding



MK 24-28-30
2 arms folding



MK 32-33-36
3 arms folding



Ti-M 24-28
Ti-M EVO 24-28-30
lateral folding

Boom Model	Boom length / (partial folded) mt	Nr Part folding	Spacing cm	Tilting	Variable Geometry	Transport lock	Nozzle control	Stainless steel arms	Air assisted
Ti-M / vertical	18 / 19 / 21	2	50	NO	YES	YES	Single nozzle	Option	Option
Ti-M / lateral	24 / 28	2	50	NO	YES	YES	Single nozzle	Option	Option
Ti-M EVO/side	24 / 28 / 30	2	25	NO	YES	YES	Single nozzle	Standard	Option
MK	24 / 28 / 30	2	50	YES	YES	YES	Single nozzle	Not available	Not available
	32 / 33 / 36	3							

Both Ti-M and MK boom have a width in transport limited to 2550 mm, independently from the boom Length, allowing road circulation without width limitation

AIR ASSISTED OPTION

Offers excellent coverage of tall & leafy crops.

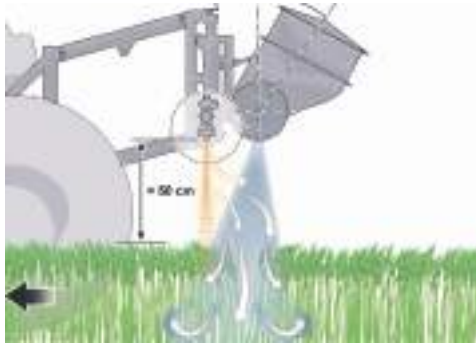
Air curtain opens the crop & swirls the spray mist into the foliage Ideal in salad, vegetable & potato crops.

Air speed & angle adjustable from the cab.

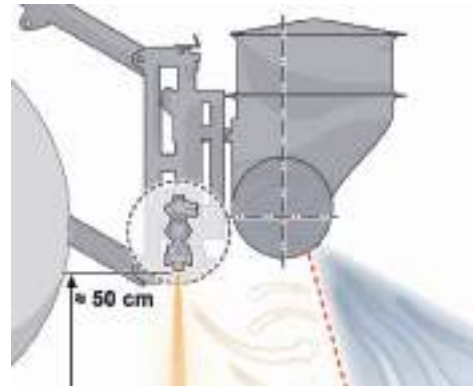
Excellent drift reduction.

Obtaining a great quality of Job with spray effectiveness and a waste reduction

In extremely dense & difficult crops NOTHING gives better coverage !



Front air delivery orientation enhances product placement, turbulence created cover both side of leaves.



Rear oriented air delivery function like a barrier to avoid drift.

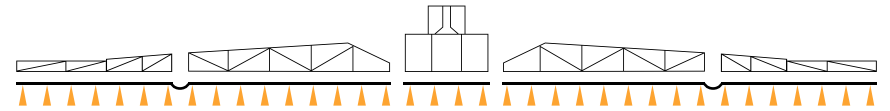


Air Assist turbulence increases canopy penetration for greater coverage.

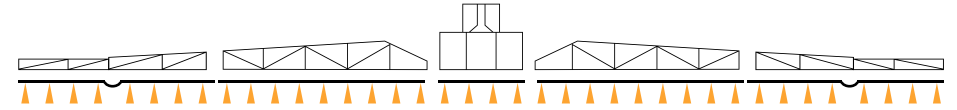
5 BOOM SECTIONS
2 ARMS FOLDING



BOOM WIDTH WHEN
PARTIALLY FOLDED



Ti-M 18m vertical folding	18/11	7	9	4	9	7
Ti-M 19m vertical folding	19/11	8	9	4	9	8
Ti-M 21m vertical folding	21/11	12	9	4	9	12

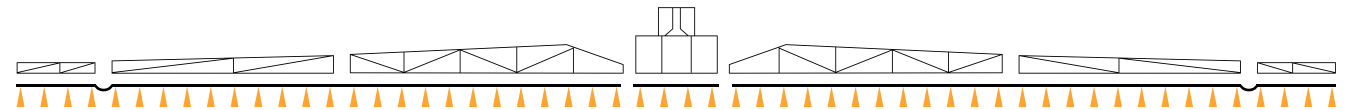


Ti-M EP 18m vertical folding	18/11	4	3	9	4	9	3	4
Ti-M EP 19m vertical folding	19/11	4	4	9	4	9	4	4
Ti-M EP 21m vertical folding	21/11	5	4	10	4	10	4	5
Ti-M 21m lateral folding	21/12	4	5	10	4	10	5	4
Ti-M 24m lateral folding	24/13	4	7	11	4	11	7	4
Ti-M 28m lateral folding	28/14	7	7	12	4	12	7	7
Ti-M EVO EP 24m 25 cm or 50 cm lateral folding	24/13	10/5	12/6	22/11	8/4	22/11	12/6	10/5
Ti-M EVO EP 28m 25 cm or 50 cm lateral folding	28/14	10/5	18/9	24/12	8/4	24/12	18/9	10/5
Ti-M EVO EP 30m 25 cm or 50 cm lateral folding	30/16	10/5	18/9	28/14	8/4	28/14	18/9	10/5
MK 24m lateral folding	24/12	6	6	12	4	12	6	6
MK 28m lateral folding	28/15	4	9	13	4	13	9	4
MK 30m lateral folding	30/15	6	9	13	4	13	9	6

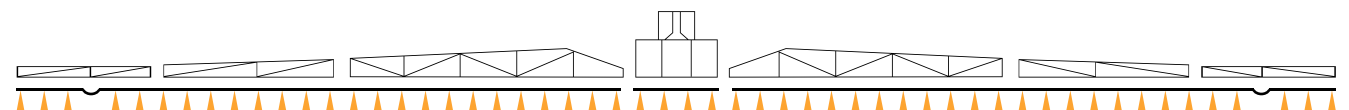
7 BOOM SECTIONS
3 ARMS FOLDING



BOOM WIDTH WHEN
PARTIALLY FOLDED

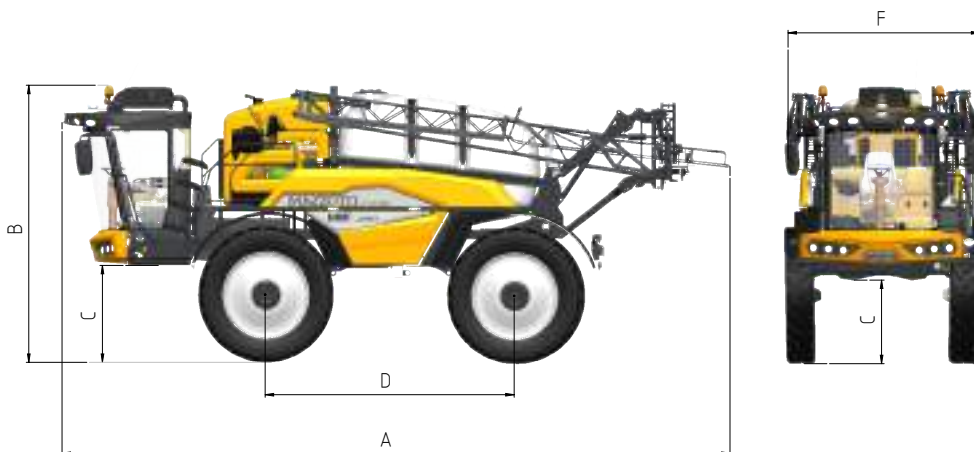


MK 32m lateral folding	32/28	4	14	12	4	12	14	4
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MK 33m lateral folding	33/24	3	6	12	10	4	10	12	6	3
MK 36m lateral folding	36/24	6	6	12	10	4	10	12	6	6

DATA SPECIFICATIONS	MAF 3180	MAF 3580 HP	MAF 4080 HP	MAF 3180 Mc
Engine (opt)	POWER Pack silenced JD Engine 4 cylinders, 4,5 L, 175 HP Stage V - available 6,8 L, 6 cylinders Stage IIIA 175 HP For MAF 4080HP JD Engine 6,8 L, 6 cylinders, 168 Kw (225hp) Tier 5 DEF			
Cooling	Water			
Traction to wheels	Nr 4 Poclain MS08	Nr 4 Poclain MHP11		Mechanical
Hydrostatic pumps	Nr 2 Sauer Danfoss			Nr 1 Sauer Danfoss
Antislipping device	Twin Pump Sauer Danfoss			Lock differentials
Shift Gears	2 speeds	4 automatic speeds		2 speeds
Working speed	0 - 20 km/h	0 - 25 km/h		0 - 20 km/h
Transfer speed	0 - 40 km/h	0 - 40 km/h (50) km/h		0 - 40 km/h (45) km/h
Braking	Hydrostatic (discs opt.)	Integrated discs brakes + Hydrostatic		Integrated brakes
Parking brakes	Negative brakes on rear wheels			
Suspensions	Hydropneumatics on the 4 wheels			
Tracking adjustment	Hydraulic on single wheels			By turning Rims
Track available	See chart			
Clearance Standard (opt)	1000 (1300) mm			600 (900) mm
Indicative list of wheels	270/95R44 - 270/95R48 300/95R46 - 320/90R42 380/80R38 - 480/70R34 540/65R34 - 600/60R34	270/95R44 - 270/95R48 300/95R46 - 320/90R42 320/90R46 - 340/58R46 380/80R38 - 380/90R46 420/80R46 - 480/58R38 540/65R34 - 540/65R38 600/60R34 - 650/60R38	270/95R48 - 320/90R46 380/95R38 - 380/90R46 420/80R46 - 540/65R38 600/70R28 - 600/65R34 600/65R38 - 650/60R38	270/95R44 - 270/95R48 300/95R46 - 320/90R42 320/90R46 - 340/58R46 380/80R38 - 460/85R38 520/70R38 - 540/65R38 600/60R34 - 600/65R34 600/60R38 - 650/60R38
Steering Radius outer mt	5,35	5,35	5,95	5,35
Main tank Max capacity lt	Std 3100 lt (opt 2600)	Std 3600 lt (opt 3100)	4200 lt	Std 3100 lt (opt 3600)
Fresh water tank	260 lt		520 lt	260 lt
Hand Wash tank	15 lt			
Fuel tank	235 lt			
Oil Tank	170 lt			
Premixer tank	50 lt			
Cabin	New JD cabin, pressurized, pneumatic and heated seat, passenger seat, Level 4 filter, electric mirrors, entertained, new dashboard with large diagnostic monitor TERA 10 inches			
Light	6 transport Light and 6 Led working light for accurate night working			
Ladder	Hydraulic			
Ground operation	Side panel activating all main functions and multifunctional valves for filling, mixing and cleaning solutions. Option for activate electrically valves in cabin			
Boom	Ti-M boom from 18 to 30 mt and MK boom from 24 to 36 mt			
Boom equipment	Variable Geometry, self levelling system, single nozzle control Seletron, recirculation			
Spraying Computer	ARAG or John Deere G4 monitors ISOBUS connected			
Guidance Systems	Different Guidance solution John Deere or Trimble			
Water pump	330 lt/min 20 bar (or centrifugal pump with option MSpray)			
Filling standard (opt)	By water pump, or by 2" filler directly in main tank (dedicate centrifugal pump filling at 500 lt/min)			
M-SPRAY	Centrifugal pump 600 l/min			
Weight from	7500/8100 Kg	8500/9500 Kg	9000/10200 Kg	7800/8800 Kg



Model		A	B	C	D	E	F
MAF 3180	Mm	7650	3600 (3900) ⁽²⁾	1000 (1300) ⁽¹⁾	3100	1020	2550
MAF 3580HP	Mm	7650	3600 (3900) ⁽²⁾	1100 (1300) ⁽¹⁾	3100	1020	2550
MAF 4080HP	Mm	8170	3600 (3900) ⁽²⁾	1100 (1300) ⁽¹⁾	3400	1020	2550
MAF 3180Mc	Mm	7650	3300 (3600) ⁽²⁾	600 (900) ⁽¹⁾	3100	1020	2550

(1) optional clearance

(2) total height with boom up to 30 mt



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