

DAMMANN Trailed Sprayer

Classic

Profi-Class Tandem





Classic

- 4400 5800 I capacity
- 500 I internal fresh water tank
- 18 39 m boom
- 5 12 sections
- Large suction and pressure filter permanent pressure filter flushing controlled via control valve
- ISOBUS control via terminal BASIC, joystick III and ECU III MAXI
- Injector for increasing the suction power during filling
- Piston diaphragm pump 250 l/min or 320 l/min, driven by the power hydraulics of the tractor.
- Single nozzle carrier

Options:

- Tyre pressure control system
- 14 sections
- Centralized lubrication

	Classic	Tyres
Capacity	4400 I	20.8 x 38
	5000 I	520/85 R38
	5800 I	520/85 R42
Fresh water tank	500 I	
Boom width	18 m	
	20 m	
	21 m	
	24 m	
	27 m	
	28 m	
	30 m	
	33 m	
	36 m	
	39 m	
Pump capacity	250 l/min - 320 l/min	
Track width	1,80 - 2,25 m	
Speed	40 km/h	



Profi-Class

- 5000 7000 I capacity
- 500 I internal fresh water tank
- 24 39 m boom
- 7 12 sections
- Large suction and pressure filter, with regulated permanent pressure filter flushing, can be pneumatically switched off
- ISOBUS control via terminal BASIC, joystick III and ECU III MAXI
- Injector to increase the suction power at the fill
- Piston diaphragm pump 320 l/min or 500 l/min, driven by the tractor's power hydraulics
- Tandem nozzle carrier

Options:

- Tyre pressure control system
- 14 sections
- Quattro nozzle carrier
- Central lubrication

Profi-Class Tandem

- 8000 14000 I capacity
- 500 I internal fresh water tank
- 30 42 m boom
- 7 12 sections
- Large suction and pressure filter, with regulated permanent pressure filter flushing, can be pneumatically switched off
- ISOBUS control via terminal BASIC, joystick III and ECU III MAXI
- Injector to increase the suction power at the fill
- Piston diaphragm pump 500 l/min, driven by the tractor's power hydraulics
- Tandem nozzle carrier

Options:

- Tyre pressure control system
- 14 sections
- Quattro nozzle carrier
- Central lubrication

	Profi-Class	Profi-Class Tandem	Tyres
Capacity	5000 l	-	520/85 R38 155 A8
	6000 I	-	520/85 R42 162 A8
	7000 I	7000 I -	
	-	- 8000 I	
	-	- 10000 l	
	-	12000 l	520/85 R38 164 B
	-	14000 l	520/85 R38 166 B
Fresh water tank	50		
Boom width	24 m	-	
	27 m	-	
	28 m	-	
	30 m 33 m 36 m 39 m		
	-	42 m	
Pump capacity	320 l/min - 500 l/min	500 l/min	
Track width	2,00 - 2,25 m	2,00 - 2,25 m	
Speed	40 km/h	50 km/h	



ISOBUS-System

- Individual adaptation options for almost every function of the crop protection sprayer
- Volume measurement via flow meter and pressure sensor
- Pressure control of the constant-pressure diaphragm body
- Control of hydraulic functions
- Level measurement (EasyControl)
- Circulation control
- Integrated order counter
- Operation via:
- Joystick
- S-Box
- ISOBUS terminal
- Automatic boom control (option)



Overview Terminal

	1	2	3	4
	BASIC Terminal	MC 1	HD 8 pad	HD 12 pad
Standard as of classic	standard	option	option	Option
Screen	5,7"	10,4"	8"	12,1"
Operation by	buttons	buttons	touch	touch
GSM Modem*	-	option	option	option
Connector of cameras	-	option	yes	yes
USB connector	yes	yes	yes	yes
Update with APPS	yes	yes	yes	yes

^{*} SIM card not included

The DAMMANN terminals comply with the ISO 11783 standard and are AEF-certified. Please refer to the AEF database for the current status of certified functionalities*.

ISOBUS-TC — TASK-Controller for ISOBUS Processing

(option for BASIC terminal und HD 8 pad)

- Convenient documentation
- Simple planning of applications
- Data exchange to the Farm Management Information System
- About ISO-XML
- · Shape format
- Imports and exports finished documentation for the Farm Management Information System (FMIS)













- 1 BASIC-Terminal
- 2 MC 1-Terminal
- 3 HD 12 pad
- 4 HD 8 pad
- 5 Joystick

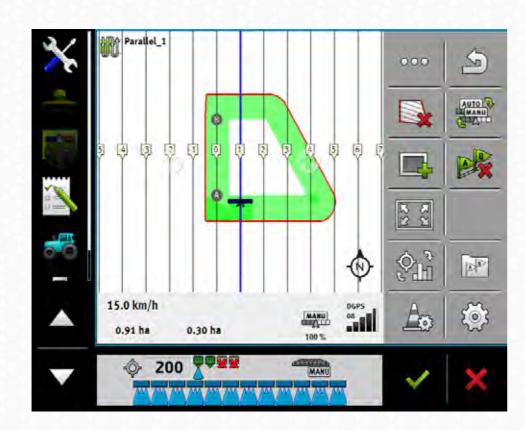




TRACK-Leader Parallel Driving System

(option)

- Exact driving of parallel tracks
- In A/B, A+, headland or contour mode
- Mark obstacles and save field data such as boundaries
- Interrupted operations can be saved and continued at any time
- On-screen-lightbar
- HEADLAND-Management[®] included

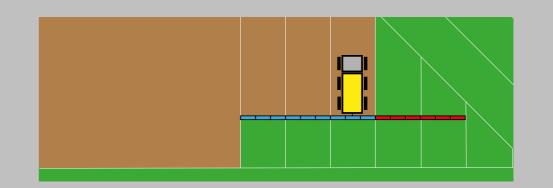




SECTION-Control

- GPS-controlled switching on and off of boom sections or individual nozzles
- Advantages:
- Fewer overlaps
- Work even at night or in poor visibility
- Savings in resources
- Can also be used for other devices







GPS Receiver

(option)

- Correction signals EGNOS, WAAS GLONASS, GLIDE or RTK
- Deviations between 2 25 cm (depending on GPS receiver)



Weather Station

(option)

- Recording by ISOBUS
- Display of data on ISOBUS terminal:
- Air temperature
- · Wind direction
- Air pressure
- Relative humidity
- Longitudinal inclination
- Cross slope
- · Apparent and actual wind speed



DAMMANN Fluid Indicator

(option)

Display of pH value and temperature

- Measurement of the pH value and the temperature in the tank sump
- Indication in the display
- The user can influence the pH value of chemical mixture during the induction process

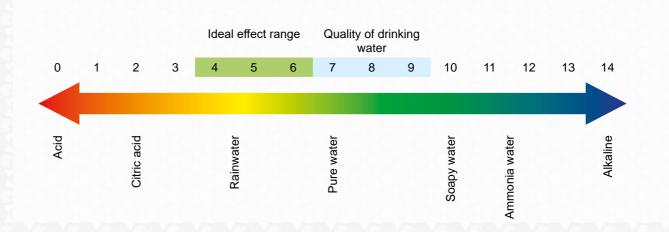
Influence of the pH value on pesticides

- Greater effect of the plant protection product in the case of an ideal pH value
- Reduction of saponification
- Resistances are avoided by optimal pH-value

The water temperature also plays a role

Better solubility in warm water, especially with salty components in the PSM





Nozzles and Nozzle Switches

Nozzle Carrier and Nozzle Tube

- Standard electropneumatic tandem nozzle carrier
- 1/2" stainless steel nozzle tube
- 1" stainless steel nozzle tube (option)
- Pressure circulation flushing
- Immediate availability of spray liquid at the nozzle carriers
- Prevents an uneven start of the nozzles (butterfly effect)
- Individual adjustment of 5 14 boom sections according to customer requirements (for partial EDS up to 18 boom sections)
- Further nozzle carriers are available as an option:
 - · Single nozzle carrier
- Triple nozzle carrier
- · Quattro nozzle carrier with multifunction switch

Nozzle Control

(option)

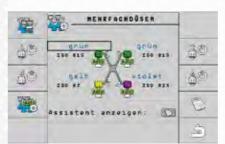
varior select	Vario-Select Automatic multifunction circuit	
Multi Select	MultiSelect Management of two nozzle sets in one nozzle line	
E'D'S	EDS (TB-EDS) Single nozzle control	
TwSwD	T-S-D Partial surface-specific nozzle switching for surface treatment according to application chart with different spray rates within one working width	
S-D-S	S-D-S Sensor nozzle control	
Curves - Control - Application	C ~ C ~ A® Curves ~ Control ~ Application	



Vario Select

(option)

- Constant drop size at alternating speed
- Automatic change between nozzles for nozzle carriers with multi-function switching
- Use of several nozzles on the tandem and quattro nozzle carrier
- Nozzle change without work interruption







MultiSelect

(option)

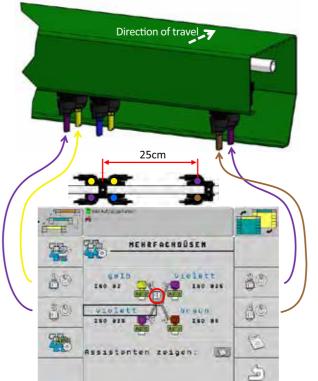
Innovation

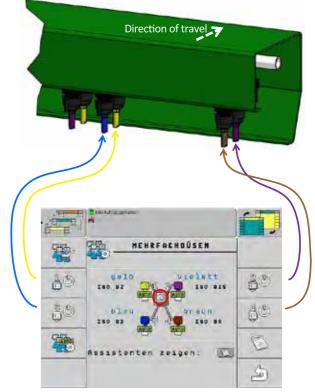
- Management of two nozzle sets per nozzle line
- Up to four nozzles per nozzle set possible

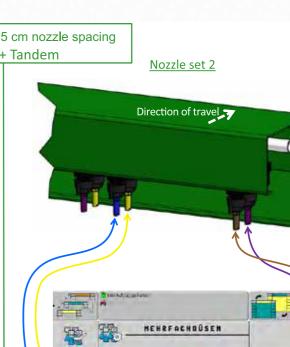
Nozzle set 1

- Quick change from 25 to 50 cm
- Selection and control of the nozzle sets by Vario-Select on the ISOBUS terminal
- Use of single to quattro nozzle holders possible every 25 cm







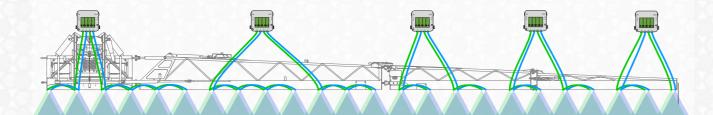


Multi

Partial EDS-pro

(option)

- Up to 18 sections can be switched independently of each other via ISOBUS
- Incl. VarioSelect software
- Incl. C~C~A® Curve~Control~Application (recommendation: Quattro nozzle holder)
- More precise SECTION-Control ▶ thus higher savings potential in the PSM area

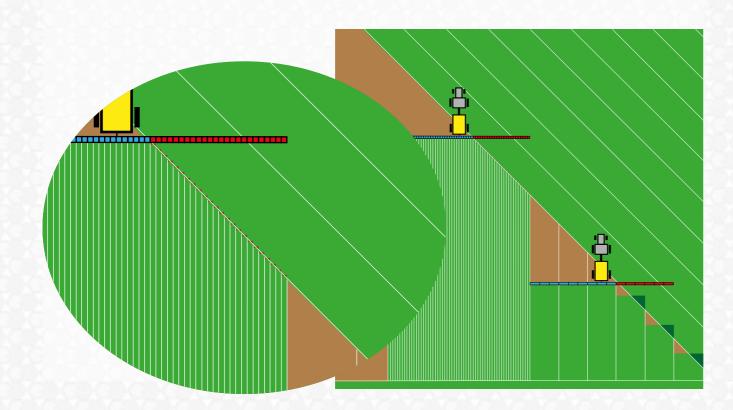


E-D-S — Individual Nozzle Control

(option)



- Savings potential by reducing the total overlap area
- Less than 1% overlap possible due to GPS-controlled circuitry
- 10 15 % savings in pesticides possible
- User friendly



T-S-D — Partial Area Specific Nozzle Switching

(option for TB-EDS or EDS)

Different application rates for the individual boom sections







(option for TB-EDS or EDS)

- Spray rate after sensor measurement
- 2, 4 or 6 sections with one sensor each
- Data exchange with the external computer unit

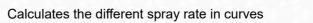


S-D-S





C ~ C ~ A® — Curves ~ Control ~ Application (option)



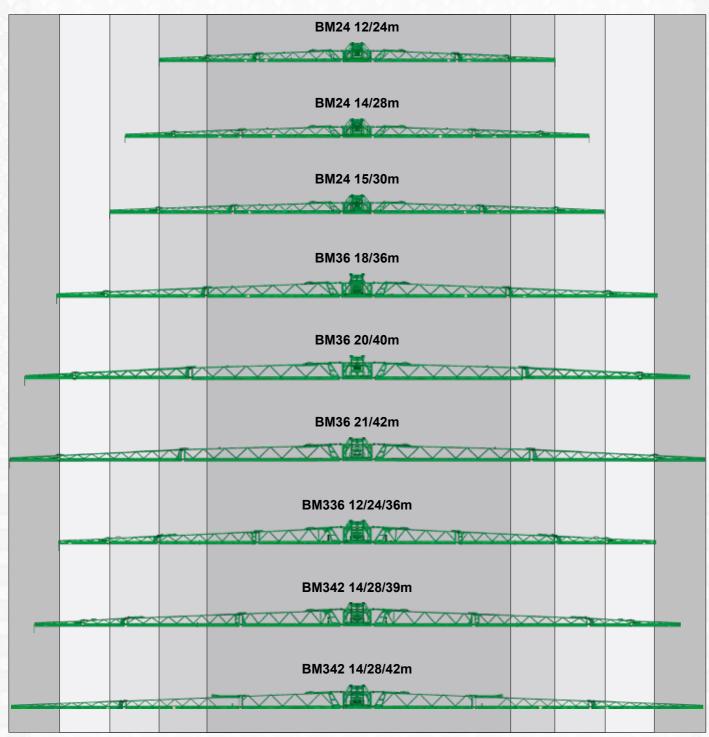








Booms



Booms can be shortend in the outer part

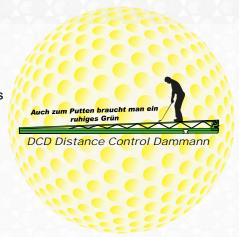
G-Booms

- Sturdy sprayer boom with hydraulic folding and special G-shape for protection of the nozzles
- Standard slope control for work on hilly terrain
- Electropneumatic slope compensation via double cylinder
- Outer aluminium booms for weight reduction with collision protection
- Spring-loaded, horizontally and vertically damped boom suspension
- Sturdy lift mast with stepless height adjustment without weight shifting
- Stable pendulum suspension for quiet boom guidance, even in hilly terrain

DCD Distance Control DAMMANN

(option)

- Combines the advantages of hydraulics (speed) and pneumatics (gentle repositioning) in one boom control system
- Monitoring of the optimum boom position by ultrasonic sensors
- Detection and anticipation of gravitational forces in curves
- Quick and easy operation
- Precise boom working height above the crop in the terminal adjustable
- Calibration of the boom control takes place via the terminal
- Possible types of control depending on the equipment of the DCD's
- Raising/lowering the boom
- Tilting the boom
- · Angling (optional negativ angling) of the boom
- · Lifting/lowering + tilting the boom
- Raising/lowering + angling (optional negativ angling) of the boom
- Switching off the height control
- · Manually by the operator
- Automatic when the maximum permissible excavation height is reached







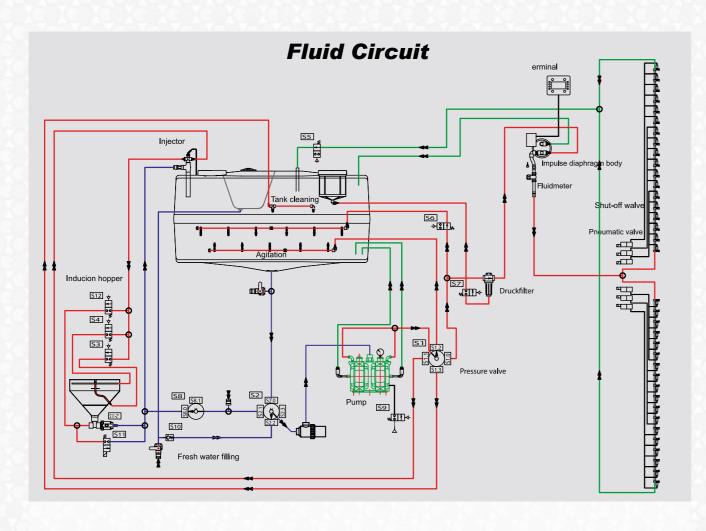
Boom Angling and Negative Angling

(option)

- Perfect extension for boom control
- Angle of advantage in cropped terrain
- Keeps constant distance through sensors to the inventory

Flexible Working Width

- On different strokes through:
 - Flange plates
 - Folding hinges
 - · Hydraulic folding hinges
 - Special folding at the pivot point
- Controllable via the ISOBUS terminal



Innovation

EasyControl

Digitale fill level indicator

- Integrated in the ISOBUS system
- Switching functions of the ISOBUS system on the device
- Work lights, agitator, filter flushing, ...
- CID and RRW are controlled via EasyControl
- Series for all Profi-Class devices (option for Classic)

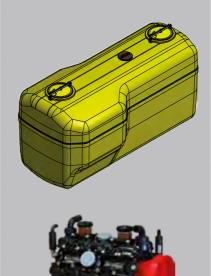
Tank

- Proven case shape
- GFK coated
- Easy cleaning due to smooth inner walls
- Baffles for additional safety
- Integrated fresh water tank

Pump

- Self-priming piston diaphragm pump
- Robust and durable design
- Pump capacity from 320 750 l/min depending on equipment and customer requirements





Pneumatic Constant-Pressure Diaphragm Body

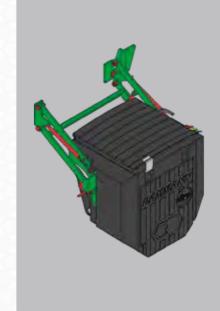
 Always ensures constant spraying pressure due to pneumatic counter pressure in the lines, even with open or closed nozzles

Induction Hopper and Injector

- 60 I volume
- Fresh water supply during filling, ergonomic working height
- With ring flushing, which produces a rotating liquid flow. For dilution and lump-free irrigation of plant protection agents
- Jet nozzle for easy loosening of solid clumps
- Integrated, powerful canister flushing system for crop protection containers
- Pneumatic lifting and lowering of the induction bowl
- Ergonomic and user-friendly working height
- Injector enables the suction of solids from the induction centre into the tank
- System suction capacity with pump and injector up to 800 l/min
- Faster filling of the tank

proControl III

- For recurring filling and cleaning processes
- Automated cleaning modes
- Easy to use
- The functions of proControl III can be controlled from the cabin
- Via the ISOBUS terminals
- Remote control of the valves on the machine
- Leave additional functions, such as pump or lighting
- Operate via the terminal on the device
- proControl III also cleans the induction hopper during cleaning processes





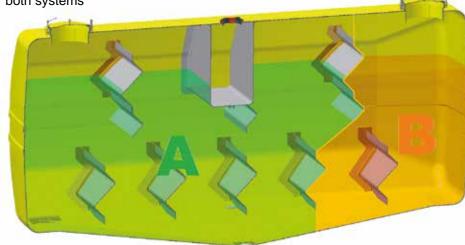


MFS — Multi-Fluid-System

Two tanks in one sprayer (option)



- One tank with two parts
- Two spray systems
- One terminal
- One or two nozzle lines
- One induction bowl for both systems



External Filling

(option)

- Filling via 2" or 3" external filling connection with Camlock coupling and shut-off valve
- Filling via hydrant filling connection with C- or B-coupling and non-return valve
- Pneumatic emptying of the external filling hose
- Bypass at the injector for direct external filling

Filling Pump

(option)

- Filling with 900 I/min
- Hydraulically driven











RRW — Rotating Agitator and Cleaning Unit (option)

- Central mounting in the lower part of the tank
- Special injector nozzles for stirring and cleaning the tank
- The swivel angle is controlled as a function of the filling level
- The driver can start the cleaning program via *EasyControl* in the cab
- Complete tank interior cleaning through 360° rotation of the nozzle shaft
- JKI tested

CID - Continous Insidecleaning DAMMANN

- Level sensor-controlled automatic start of CID, interrupts cleaning if the level is to high
- Easy handling and thorough cleaning of the crop protection implement
- High cleaning efficiency with lower fresh water requirement
- High user protection, as the driver can start internal cleaning from the cab or via EasyControl
- Easy handling prevents point loads of PSM into surface waters due to improper handling cleaning (environmental protection)
- No premature dilution of the spray liquid due to operating errors
- Sufficient fresh water remains in the fresh water tank for the final interior and exterior cleaning
- JKI tested







(option)

- Ideal rolling resistance on the road to save fuel and minimise tyre wear
- Optimum ground pressure in the field
- Control via the ISOBUS terminal
- Optional automatic level-controlled adjustment of the internal tyre pressure by ATC
- Optional additional compressor for fast filling

60 km/h

(option Profi-Class Tandem)

The Profi-Class Tandem is also available with 60 km/h depending on the tyres.





Drawbar

Steering Drawbar

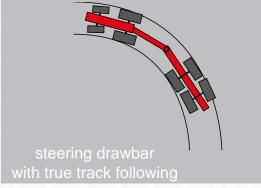
(option)

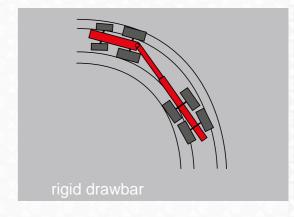
- True tracking of the trailed sprayer within the
- Tramline
- Increased manoeuvrability
- Minimization of crop damage

Hydraulic Support Leg (option)

Convenient parking











Traction Reinforcement for Profi-Class Tandem

(option)

- Relief of the front axle at low tank capacity
- Better traction
- Easier handling by securing the support loa

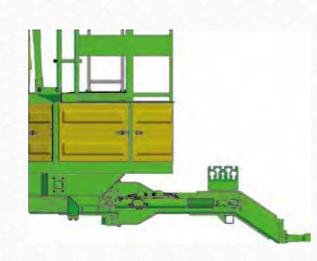
Rear Axle Steering for Profi-Class Tandem

- Soil and crop protection
- Smaller turning circle
- Reduced tyre wear
- Tractor protection
- Lower maintenance costs

Bottom Hitch

(option, not in combination with D-A-S)

- Fixed and steering drawbars
- K-80 clutch



Maintenance Made Easy with a Central Lubrication Bar

(option)

- Each axle is centrally greased via a lubrication bar
- Easy to reach

Central Lubrication System

- While the machine is running, the central lubrication system supplies each lubrication point with the necessary grease.
- Absolutely reliable, electronically precisely controlled and precise dosed
- Each bearing and bushing of the axles receives the amount of lubricant it really needs
- No annoying downtimes
- Increases operational readiness and reliability
- Reduces maintenance costs
- Monitoring of flow rate, pressure and grease level
- Automates maintenance
- Operation integrated in the vehicle display
- In addition, the central lubrication system can be fitted to the lifting mast, the boom and all parts of the sprayer







D-A-S — Dual-Air-System

The intelligent solution for the environmentally conscious economist

- Reduced drift, even with low stand heights and on bare soils
- Greater independence from weather influences treatment time windows are increased
- Higher travel speeds, resulting in increased area performance
- More even active ingredient accumulation in the stock
- Stronger crop penetration, especially for special crops such as vegetables, salads or potatoes
- The powerful air jet turns the active ingredient into the target area even in high populations (e.g. maize)
- Better active ingredient accumulation in the stock leads to less evaporation losses at high temperatures
- Reduction of medium and water application rates
- Devices are entered in the JKI's list of "loss-reducing devices"

Lighting and Exterior Cleaning

Best possible and safe working at dusk and at night.

HD-Night LUX

(option)

- Each spraying cone is illuminated by an LED
- Optical control of the function of all activated nozzles
- No overilluminated field
- With the special obstacle finder, the operator can identify obstacles and reacting to them in good time





LED Worklight

(option)

- Mounting of two or four LED worklights
- Positioning of the lighting according to customer requirements

Exterior Cleaning

(option)

DAMMANN offers three options for exterior cleaning:

- Washing brush with hose reel
- Vario spray pipe with hose reel 15 bar
- High pressure cleaner with 120 bar, hydraulically driven















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