APV MULTI-METERING SYSTEM MD

THE “TRANSFORMER” AMONG SEEDERS



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AMBITION. PASSION. VISION.

GROWTH IS THE WAY.

GROWING SINCE 1997

Jürgen Schöls is an agriculturalist at heart. In 1997, the passionate farmer and inventor built his first machine, a spreader. Ever since, he has been developing agricultural equipment "for professionals, by professionals". Jürgen Schöls, himself a Demeter-certified farmer, develops each machine in a lively exchange with users, before it is professionally enhanced by the design department.

As an innovative company, naturally APV desires to play an important role on the market with its products. Together with customers around the world, APV refines its products on an ongoing basis.
At the Dallein site in Waldviertel in Lower Austria, approximately 130 employees make a significant contributution towards preserving the environment and improving cultivation and soil tillage.





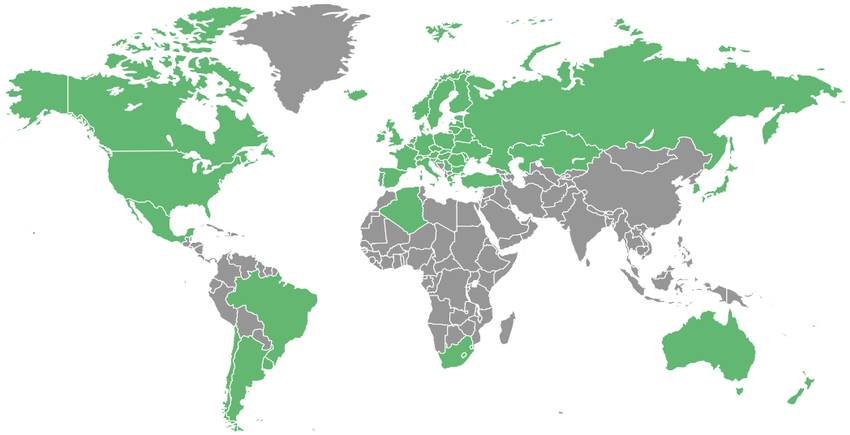
Today APV is an agile family-owned company that is proud of its employees. Many of our employees have been involved with agriculture since their infancy and know precisely what matters and what's important for farmers when it comes to modern implements. An abundance of positive feedback from many, many satisfied customers confirms this approach.



AND THE GOAL.

GROWTH KNOWS NO LIMITS

Over the years, the APV Team has fostered a consistent, unbroken drive for achievement; today the enterprise is a presence on the international market. There are APV locations and own sales subsidiaries in Poland, Romania, Brazil, Turkey and the USA. Our network of APV contract partners in over 50 countries assures that our customers enjoy the highest level of service competence.





MULTI-METERING SYSTEM MD

THE PRODUCT INNOVATION

The Multi-Metering System (MD) series arose from the idea of combining the best features of our most popular products. We use the metering unit from our Pneumatic Seeders and combine it with different spreading methods. For us, the „two in one“ principle means putting together excellent product features to make one exceptional seeder or spreader. This results in different types of Multi-Metering Systems - versatile products for diverse farming applications!

As standard, the Multi-Metering Systems are available in four versions. As an option, these versions can be variably upgraded and converted. For example, you can turn your Multi-Metering System with spreading disc into a Multi-Metering System with pneumatic spreading in just a few quick steps!

Multi-Metering System MDD: The „D“ stands for „disc“. The seed is precisely metered by a seeding shaft and is then spread by a spreading disc and is particularly suitable for large working widths, e.g. up to 28 m for slug pellets. The system is controlled via Control Box 1.2 or 5.2 (see page 12-13).

Multi-Metering System MDP: The „P“ stands for „pneumatic“. Its function and use are similar to those of a classic Pneumatic Seeder, the Multi-Metering System offers 2 to 6 outlets for a working width of up to 4.5 m. The system is controlled via Control Box 1.2 / 5.2 / 5.7 or ISOBUS (see page 12-13).

Multi-Metering System MDG: The „G“ stands for „gravitation“. Its function and use are also similar to those of a Pneumatic Seeder, however, the metered material is only metered and then spread without air (without a fan, only through gravitation). This spreader is particularly suitable for pellets which are metered into an existing air current or can be spread based on gravity (e.g. mouse bait, silage additives, slug pellets, ...). The system is controlled via Control Box 1.2 / 5.2 / 5.7 or ISOBUS (see page 12-13).

Multi-Metering System MDC: The „C“ stands for „chemicals“. This product is a special form of the MDG spreader, which has been developed for spreading chemical crop protection pellets. Due to the special seal the spreader is suitable for spreading pellets that may only be spread in two rows for each metering unit and without air support (e.g. Vydate, Belem, Goldor Bait, Attracap, Mocap, ...). The combination of two MDC‘s enables 4-row application.
The system is controlled via Control Box 1.2 / 5.2 / 5.7 or ISOBUS (see page 12-13).

MODULAR IMPLEMENT EXTENSIONS

Our Multi-Metering Systems have justifiably earned their name. We developed a concept for them that combines the best features of APV spreaders and seeders. And you can expand this concept yourself. The requirements made of today‘s agricultural technology and the versatile range of use of products in modern agriculture are an important factor. We support you and for each Multi-Metering System, we offer the conversion kits for the other Multi-Metering Systems as an accessory.



CONVERTIBLE EFFICIENCY

MDD 40 M1 & MDD 100 M1 WITH SPREADING DISC

The Multi-Metering System MDD combines the benefits of a Pneumatic Seeder and a Disc Spreader: Precise metering is performed by a seeding shaft, the seeds are distributed via a spreading disc - ideal for slug pellets on large working widths. Also suitable for spreading a great variety of catch crops. Due to the varied mounting options and the simple and fast installation and adjustment for various soil tillage implements, the MDD can be used several times in the course of a year for a variety of applications.

The scope of delivery includes:

- Complete spreader with hopper, metering unit, frame and spreading disc
- Point of impact adjustment
- Top link mounting and counter plate
- Calibration bag for easy execution of a calibration test
- One seed wheel set for 2 seeding shafts (Flex, fine and fine-blind seed wheels)
- 6 m cable from spreader to Control Box



MDP 40 M1 & MDP 100 M1 WITH FAN

The Multi-Metering Systems of the MDP series are similar in use and function to the Pneumatic Seeders of the PS series. Due to its compact construction and the varied mounting options, this type covers a wide range of applications. The MDP is very well suited for spreading all the common small seeds, seed mixtures and slug pellets, as well as for reseeding the grassland. Due to the simple installation and adjustment for various soil tillage implements, the MDP can be used several times in the course of a year for a variety of applications.

The scope of delivery includes:

- Complete seeder with hopper, metering unit, frame, and fan
- Top link mounting and counter plate
- Calibration bag for easy execution of a calibration test
- 6 dispersion plates, 3 hexagonal rods, each 1.2 m & 25 m hose
- One seed wheel set for 2 seeding shafts (Flex, fine and fine-blind seed wheels)
- 6 m cable from spreader to Control Box / ISOBUS



COMPACT CONCEPTION

MDG 40 M1 & MDG 100 M1 AIRLESS, WITHOUT FAN

The Multi-Metering System MDG offers through its compact construction and the precise metering ideal conditions for the airless spreading of seeds and granules. The MDG series is thus especially well suited as additional metering unit on an existing seeder or for the placement of granules, mouse bait or slug pellets simultaneously with the soil tillage. Silage additives can be dosed during grass harvesting.

The scope of delivery includes:

- Complete spreader with hopper, metering unit and frame
- Top link mounting and counter plate
- Calibration bag for easy execution of a calibration test
- 2 dispersion plates, 1 hexagonal rod at 1.2 m & 8 m hose
- One seed wheel set for 2 seeding shafts (Flex, fine and fine-blind seed wheels)
- 6 m cable from spreader to Control Box / ISOBUS



MDC 40 M1 AIRLESS, FOR CHEMICALS

The MDC 40 M1 is a special form of the MDG 40 M1. It is specially sealed and its concept is perfectly suited for granules (e.g. Vydate, Belem, Goldor Bait, Attracap, Mocap, etc.), which are spread without air support. The granules are reliably metered by our well-tested seeding shaft. Through two hoses, the granules go directly to the fishtail units, which safely and precisely place the granules in the row.

The scope of delivery includes:

- Complete seeder with hopper, metering unit, and frame
- Top link mounting and counter plate
- Calibration bag for easy execution of a calibration test
- 2 fishtail units incl. 2 fast couplers and 5 m hose
- Seed wheel set for seeding shaft
- 6 m cable from spreader to Control Box / ISOBUS

Tip
Install 2x MDC 40 M1 to equip a 4-row seed drill or potato planter. The two Multi-Metering Systems are operated using just one controller (Control Box 5.7 + adapter cable) or ISOBUS M2, with full functionality and setting options on both spreaders!
The optimum combination is 2 pieces of MDC with ISOBUS control, so you save an additional screen and additional cables!



	MDD 40 M1 & MDD 100 M1[1]	MDP 40 M1 & MDP 100 M1[1]	MDG 40 M1 & MDG 100 M1[1]	MDC 40 M1[1]
Working width	up to 28 m (with „Metarex“ slug pellets“)[2]	up to 4.5 m (6 outlets)		
Max. spread rate	up to 5 kg / min (depending on the seed)	up to 5 kg / min (depending on the seed and implement structure)	up to 7.5 kg / min (depending on the seed/ granules), 2 outlets	up to 7.5 kg / min (depending on the seed/ granules), 2 outlets
Dimensions in cm (H x W x D)	83 x 55 x 60 (MDD 40 M1) 105 x 55 x 60 (MDD 100 M1)	83 x 47 x 60 (MDP 40 M1) 105 x 55 x 60 (MDP 100 M1)	83 x 47 x 60 (MDG 40 M1) 105 x 55 x 60 (MDG 100 M1)	89 x 47 x 60 (MDC 40 M1)
Seed hopper (plastic)	40 l or 105 l	40 l or 105 l	40 l or 105 l	40 l
Net weight	28 kg (MDD 40 M1) 30 kg (MDD 100 M1)	28 kg (MDP 40 M1) 30 kg (MDP 100 M1)	22 kg (MDG 40 M1) 24 kg (MDG 100 M1)	27 kg
Power data	12 V / 25 A	12 V / 25 A	12 V / 10 A	12 V / 10 A
Optional				
Precision dispersion plate 1-4 m working width	x			
Accessories kit for fill level sensor[3]	x	x	x	x
Calibration button[4]	x	x	x	x
PS MX extension cable 2 m	x	x	x	x
PS MX extension cable 5 m	x	x	x	x
Switch accessories kit MDD – MDP	x	x		
Cable set for tractor 8 m[5]	x	x	x	x
Power supply Control Box 5.7[6]				x
Implement triangle bracket	x	x	x	x
Mounting kit for quad (ATV) bracket height-adjustable	x	x	x	x
Mounting kit for quad (ATV) bracket	x	x	x	x
Pick-up mounting bracket	x	x	x	x
Test badge for crop protection products	x	x	x	x
ISOBUS control		x	x	x

[1] You need a suitable control box (page 12-13)
[2] To achieve uniform distribution with a working width under 4 m, we recommend use of a precision dispersion plate (see accessories) or the modular implement extension on MDP.
[3] For use with the Control Box 1.2 & 5.2 & 5.7 & ISOBUS M2
[4] For use with the Control Box 5.2 & 5.7 & ISOBUS M2
[5] For use with the Control Box 1.2 & 5.2
[6] For 4-row use, you require 2x MDC, one Control Box 5.7, and one adapter cable or ISOBUS M2.

CONTROL BOX

CONTROL BOX 1.2: THE SOLID BASIS

The Control Box 1.2 is the ideal entry-level box. Its compact size is one of its main advantages. It handles the most important basic spreading functions and it is also compatible with selected implement sensors. The rotational speed of the seeding shaft and fan can be configured quickly, easily, and without complications.



CONTROL BOX 5.2: OUR BEST-SELLING MODULE

The Control Box 5.2 is the most popular version of the APV Control Boxes; it handles an extensive range of functions. For example, functions such as adapting spread rate to travel speed, automatic shut-off on headlands, precise adjustability of the electrical fan, or automatic execution of the calibration test, massively facilitate your work.



CONTROL BOX 5.7: THE TWIN MODULE

The Control Box 5.7 enables separate control of two seeding shafts. With an additional adapter cable, you can operate up to two APV seeders in parallel and independently of each other. To round off the multitasking module package, the Control Box is compatible and can be combined with any sensor system.
When using two MDPs together, please note that the air output may be reduced due to the higher power consumption.



ISOBUS M2

The MDP, MDG and MDC Multi-Metering Systems from APV can be controlled via the tractor‘s own terminal using the ISOBUS function. Only a standardised ISOBUS connection is required on the tractor. This enables even more professional operation and more efficient use of the Multi-Metering Systems. You do not need an additional monitor in the cab and therefore have a better overview. There is only one cable from the spreader to the tractor. Section-Control enables automatic seed shaft switch-off depending on the GPS position. You can name your seed individually in the seed library.



CONTROL BOX	1.2	5.2	5.7	ISOBUS[1]
FUNCTIONS				
Controlling and monitoring all the electronics	x	x	x	x
Spread rate adjustment in running operation	x	x	x	x
Automatic emptying function	x	x	x	x
Performing a calibration test	x	x	x	x
Fill level warning option (together with machine sensor. For example: fill level sensor)	x	x	x	x
Calibration test: display options - kg/ha and seeds/m^2		x	x	x
Headland management (in conjunction with linkage sensor)		x	x	x
Control Box is sensor-enabled	x	x	x	x
Pre-metering		x	x	x
Total hours and hectare counter		x	x	x
Selection of different languages and units of measure (metric, imperial)		x	x	x
Seed library: Save your standard seeds and change the application at the touch of a button (without a new calibration test)				x
Remaining-quantity display (area & distance)				x
Display of rotational speed for the hydraulic fan		x	x	x
Automatic pre-metering				x
Operation via color touch display				x
Update possibility via USB stick				x
Robust aluminum housing			x	
Independent activation of two seeding shafts and an electric fan (MDP 100 M1)			x	x
Independent, parallel operation of two APV seed drills with electric or hydraulic fan			x	x
Section Control: Automatic seeding shaft shut-off depending on the GPS position[2]				x
Variable Rate Control: Application rate is controlled depending on an application map				x
SCOPE OF DELIVERY WITH ACCESSORIES KIT				
Control Box	1.2	5.2	5.7	ISOBUS M2[1]
Cable for the power supply from the 3-pin plug to the Control Box	1,5 m		8 m	
Control box bracket	X			
OPTIMIZED FOR USE WITH THE FOLLOWING IMPLEMENTS				
MDD	x	x		
MDP	x	x		x
MDG	x	x		x
MDC	x	x		x
2 pieces MDC			x	x

[1] Display is not included in the scope of delivery!
[2] Depending 16 on the tractor equipment

SENSORS

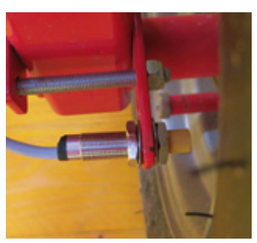
GPSA SENSOR[1] (ACCESSORIES KIT)



RADAR SENSOR MX 35[1] (ACCESSORIES KIT)



WHEEL SENSOR[1] (ACCESSORIES KIT)



7-PIN SIGNAL CABLE[1]



LINKAGE SENSOR TOP LINK (ACCESSORIES KIT)



LINKAGE SENSOR CHASSIS (ACCESSORIES KIT)



LINKAGE SENSOR PULL SWITCH (ACCESSORIES KIT)



LINKAGE SENSOR INDUCTIVE (ACCESSORIES KIT)



SPLITTER CABLE



EXTENSION CABLE FOR MX SENSORS



[1] This sensor is also available as a set with the APV linkage sensors (top link, chassis, pull switch and inductive).

ACCESSORIES

CALIBRATION BUTTON



MOUNTING KITS FOR QUAD (ATV), TRAILER COUPLING AND PICK-UP



FILL LEVEL SENSOR



MOUNTING AND PLATFORM KIT UNIVERSAL



PS MX EXTENSION CABLE 2 M OR 5 M



PLATFORM KIT MODULAR



PRECISION DISPERSION PLATE FOR MDD



MODULAR IMPLEMENT EXTENSIONS



APV - Technische Produkte GmbH
Dallein 62
3753 Hötzelsdorf
Austria

Phone: +43 2913 8001
office@apv.at
www.apv.at

Also visit us on Facebook, YouTube, LinkedIn, Instagram and TikTok.

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