

# 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 170 employees make a significant contribution towards preserving the environment



and improving cultivation and soil tillage. At APV job security is a high priority. All activities are aligned to economic success and growth.

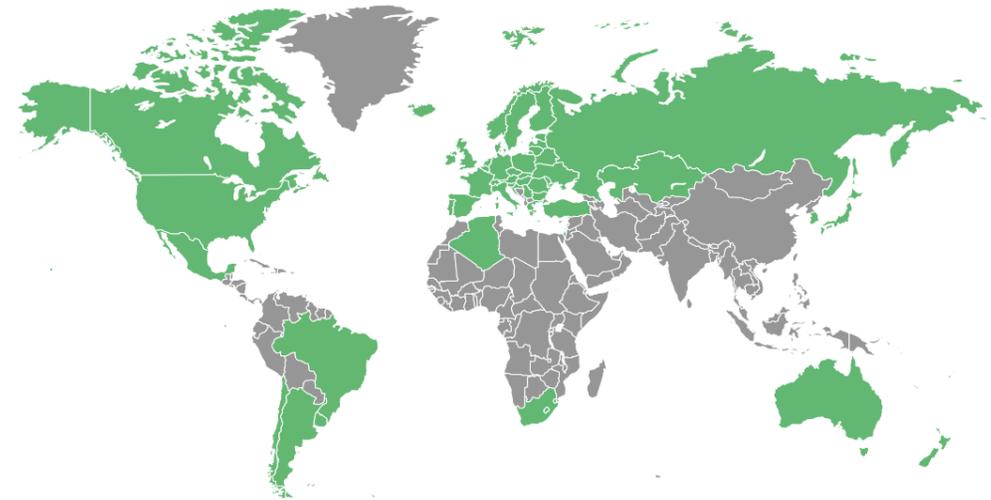


# AND THE GOAL.

## 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, Russia, Germany, 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.



## A PASSION FOR GROWTH

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.



# 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.

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 6 outlets for a working width of up to 4.5 m.

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, ...).

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 and the Surefill adapter, 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, ...).

## 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



# 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



## 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 only spread in 2 rows without air support. Thanks to the already-installed sure-fill adapter, you do not come into contact with other agents while filling. The granules are reliably metered by our well-tested seeding shaft. Through two hoses, the agent goes 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
- Sure-fill adapter mounted in the hopper lid
- 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
- One seed wheel set for 2 seeding shafts (Flex, fine and fine-blind seed wheels)
- 6 m cable from spreader to Control Box

### Tip

Install 2x MDC 40 M1 to equip a 4-row planter. The two Multi-Metering Systems are operated using just one controller (Control Box 5.7 + adapter cable), with full functionality and setting options on both spreaders!



	<b>MDD 40 M1 &amp; MDD 100 M1<sup>1</sup></b>	<b>MDP 40 M1 &amp; MDP 100 M1<sup>1</sup></b>	<b>MDG 40 M1 &amp; MDG 100 M1<sup>1</sup></b>	<b>MDC 40 M1<sup>1</sup></b>
Working width	up to 28 m (with „Metarex“ slug pellets) <sup>2</sup>	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)	83 x 47 x 60 (MDC 40 M1)
Seed hopper	40 l or 105 l plastic hopper	40 l or 105 l plastic hopper	40 l or 105 l plastic hopper	40 l plastic hopper
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)	22 kg
Power data	12 V/25 A	12 V/25 A	12 V/10 A	12 V/10 A
<b>Optional</b>				
Precision dispersion plate 1-4 m working width	x			
Accessories kit for fill level sensor <sup>3</sup>	x	x	x	x
Calibration button <sup>4</sup>	x	x	x	x
PS MX extension cable 2 m	x	x	x	x
PS MX extension cable 5 m	x	x	x	x
Accessories kit for MDD — MDP toggle switch MDD - MDP	x	x		
Cable set for tractor 8 m <sup>5</sup>	x	x	x	x
Power supply Control Box 5.7 <sup>6</sup>				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

<sup>1</sup> You need a suitable control box (page 12-13)

<sup>2</sup> 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.

<sup>3</sup> For use with the Control Box 1.2 & 5.2 & 5.7

<sup>4</sup> For use with the Control Box 5.2 & 5.7

<sup>5</sup> For use with the Control Box 1.2 & 5.2

<sup>6</sup> For 4-row use, you require 2x MDC, one Control Box 5.7, and one adapter cable.

# CONTROL BOX

## CONTROL BOX 5.2

The Control Box 5.2 is the most popular version of the APV Control Boxes and offers 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 electric fan, or automatic execution of the calibration test, massively facilitate your work.

### Functions

- Controlling and monitoring the seeding shaft via the electronics
- Electronic adjustment of the spread rate in running operation
- Emptying
- Automatic calibration test (only weighing is necessary!)
- Calibration test: display options - kg/ha and seeds/m<sup>2</sup>
- Calibrating the speed
- Headland management (in conjunction with linkage sensor)
- Automatic adjustment of the spread rate to the travel speed (together with speed sensor)
- Pre-metering
- Implement monitoring (together with implement sensor. Examples: fan monitoring and fill level sensor)
- Calibration test right at the implement (in conjunction with the calibration button)
- Regulation of the electric fan (on the MDP) or the spreading disc (on the MDD)
- Display of the operating voltage and the amperage
- Total hours and daily hours counter
- Total hectares and daily hectares counter
- Selection of different languages
- Choice between different measuring units (metric, imperial)



## CONTROL BOX 1.2

The Control Box 1.2 is the ideal starter module and is characterised by its compactness. It controls the fundamental seeding functions and is compatible with selected machine sensors. Adjustment of the speed of the seeding shaft and fan is easy, quick and straightforward.

### Functions

- Controlling and monitoring the seeding shaft via the electronics
- Electronic control and monitoring of electric fan (for MDP) and the spreading disc (for MDD)
- Electronic adjustment of the spread rate during operation
- Calibration test & Emptying
- Acoustic and visual error warning
- Implement monitoring (together with implement sensors). Example: Fan monitoring)
- Fill level warning option (together with machine sensor. Example: Fill level sensor)



## CONTROL BOX 5.7

With the 5.7 Control Box, in conjunction with an adapter cable (available as an accessory), it is possible to control two Multi-Metering Systems units independently of each other. The full functionality and all setting options for each device are retained.

### Functions

- All functions of the Control Box
- Additionally:
- Parallel operation of two Multi-Metering Systems independently of each other
  - No limits when using additional machine sensors



# SENSORS

**GPSA SENSOR<sup>1</sup>  
(ACCESSORIES  
KIT)**



**RADAR  
SENSOR MX 35<sup>1</sup>  
(ACCESSORIES  
KIT)**



**WHEEL SENSOR<sup>1</sup>  
(ACCESSORIES  
KIT)**



**7-PIN SIGNAL  
CABLE<sup>1</sup>**



**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**



# 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**



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



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