

# PNEUMATIC SEEDERS PS

Standard edition

VISIBLY BETTER &  
NOTICEABLY MORE EFFICIENT



## VERSATILE USE



### TAKE ADVANTAGE OF THE VERSATILE BENEFITS!

- Exact lateral distribution over the whole working width
- Wind-independent spreading of the seeds
- Mounting options on almost any soil tillage implement, seed drill and crop care implement – regardless of the manufacturer
- Versatile combination options for the hopper volumes, seeding shafts, fan types, technical equipment and extension possibilities for the outlets (up to 32 outlets)
- Rapid delivery time even during the season: Our staff at the order centre is happy to provide more information!
- Individual consultation and support before and after the purchase

You can use the Pneumatic Seeder with the following machines and implements.



GRASSLAND HARROW



GRASSLAND LEVELLER



CULTIVATOR



SEED DRILL



ROLLER



DISC HARROW

You are using your Pneumatic Seeder for a different purpose? We look forward to hearing about it! Send us your operations report to [marketing@apv.at](mailto:marketing@apv.at). We thank you for each contribution with photo. In return we will send you an APV surprise package.

## PNEUMATIC SEEDERS

### THIS IS HOW THE PNEUMATIC SEEDER WORKS

The seeds are fed from the seed hopper via the electrically controlled seeding shaft into the air duct. Here, the seeds are conveyed by air support through plastic hoses to the dispersion plates, and then evenly distributed close to the soil. This enables precise seeding even by windy conditions!



### PRECISE METERING WITH EXCELLENT LATERAL DISTRIBUTION

As a modern farmer, you attach value to maximum efficiency with excellent yields. The Pneumatic Seeder from APV helps you to make efficient use of your operating resources because:

- You need less seed due to the precise metering.
- Fewer field passes due to the combined use of a seed drill on a soil tillage implement mean that you can reduce your working hours, implement wear, soil compaction and fuel consumption.
- Professional consultation before purchasing guarantees that you are informed about all kinds of possible applications with the Pneumatic Seeder, thus resulting to choose the right machine for your use.

### FOR EVERY PROFESSIONAL THE RIGHT IMPLEMENT

With the PS from APV you have the option to a customized solution of a professional implement according to your requirements. We offer a large selection of hopper volumes, seeding shafts and types of fans. On technical equipments, we offer tailored solutions for all requirements and any budget.

All versions of the PS from APV are characterised by

- exact lateral distribution over the entire working width.
- wind-independent spreading of seed.
- universal mounting options on virtually all soil tillage implement, seed drill and crop care implement – regardless of the manufacturer.
- precise metering.
- easy adjustment and convenient calibration test.

# PS 120 M1 / PS 200 M1 / PS 300 M1

## THE GREAT „LITTLE ONES“

The PS 120, 200 and 300 M1 are professional implements for use on small as well as medium farms. They differ in terms of the volume of the seed hopper.

### TECHNICAL DATA

↗	Working width. ....	1 - 6 m with electric double fan, 8 outlets 1 - 7 m with hydraulic fan, 8 outlets 1 - 12 m with hydraulic fan, 16 outlets <sup>1</sup>
✂	Dimensions .....	H 90 cm, W 60 cm, D 80 cm (PS 120 M1) H 100 cm, W 70 cm, D 90 cm (PS 200 M1) H 110 cm, W 80 cm, D 100 cm (PS 300 M1)
🍃	Seed hopper .....	Plastic hopper with 120 l / 200 l / 300 l capacity
⚖	Net weight, electr./hydr. ....	45 kg / - (PS 120 M1) 60 kg / 83 kg (PS 200 M1) 70 kg / 93 kg (PS 300 M1)
⚡	Power data .....	12 V / 25 A

For equipment with a hydraulic fan, 1 single-acting control unit (size BG 3) + 1 pressureless return (BG 4) is required.  
Max. required pressure: 180 bar, max. required oil quantity: 38 l/min

### ITEMS INCLUDED

- Choice between Control Box 1.2, 5.2 or 6.2<sup>2</sup> (different price categories)
- Complete seeder with hoses (25 m)
- Seeding shafts for fine seeds, seeding shafts for coarse seeds
- Agitator
- 6 m cable from the seeder to the Control Box
- Calibration slide, counter plate, calibration bag and seed scale
- Fan pressure monitoring<sup>3</sup> with hydraulic fan
- 8 dispersion plates & 4 hexagonal bars (for mounting the dispersion plates)



### YOUR BENEFITS

#### PS 120 AND PS 200 M1

- Due to the compact dimensions, ideal for implements with restricted space conditions (e.g. folding implements)
- Low weight acting on the soil tillage implement

#### PS 300 M1

- Comfortable operation at higher spread rates due to saving time for refilling



### BENEFITS OF ALL PS IMPLEMENTS FROM APV

- Excellent lateral distribution over the whole working width
- Precise spreading of the seed, independent of the wind
- Diverse options for adapting the PS to your requirements due to a large selection of hoppers, seeding shafts, types of fans, outlets, etc.
- Quick and easy to mount
- Electronics with state-of-the-art technology. The degree of automation depends on the controller.<sup>2</sup>
- Easy retrofitting of sensors



### ACCESSORIES

- Calibration button<sup>4</sup>
- Fill level sensor conversion kit<sup>4</sup>
- Fan speed sensor<sup>5</sup> for hydraulic fan
- Extension cable PS MX 2 m
- Extension cable PS MX 5 m
- Power cable for tractors 8 m
- Mounting kit top link PS 120-500
- Sensors<sup>4</sup>



1 optional (8 outlets with 8 Y-distributors (see page 18) or doubling pieces (see page 19) available as accessories)  
2 Select the Control Box based on the functions you require (page 12-15)

2 For use with Control Box 1.2 & 5.2 & 6.2  
4 For use with Control Box 5.2 & 6.2  
5 For use with Control Box 6.2

# PS 500 M2

## THE SOLUTION FOR INTENSIVE OPERATIONS

The PS 500 M2 is the professional implement for farmers with large acreages or spread rates as well as for contractors. With the hopper volume of 500 litres, this Pneumatic Seeder is suitable for diverse areas of application, from reseeding on the Grassland Harrow to the spreading of large seeds with large working widths.

### TECHNICAL DATA

	Working width .....	1 - 6 m with electric double fan, 8 outlets 1 - 7 m with hydraulic fan, 8 outlets 1 - 12 m with hydraulic fan, 16 outlets <sup>1</sup>
	Dimensions .....	H 125 cm, W 80 cm, D 120 cm
	Seed hopper .....	Plastic hopper with 500 l capacity
	Net weight, electr./hydr. ....	93 kg / 116 kg
	Power data .....	12 V / 25 A

For equipment with a hydraulic fan, 1 single-acting control unit (size BG 3) + 1 pressureless return (BG 4) is required.  
Max. required pressure: 180 bar, max. required oil quantity: 38 l/min

### ITEMS INCLUDED

- Choice between Control Box 1.2, 5.2 or 6.2<sup>2</sup> (different price categories)
- Complete seeder with hoses (25 m)
- Seeding shafts for fine seeds, seeding shafts for coarse seeds
- Agitator
- 6 m cable from the seeder to the Control Box
- Calibration slide, counter plate, calibration bag, seed scale, fill level sensor<sup>3</sup>
- Fan pressure monitoring<sup>3</sup> with hydraulic fan
- 8 dispersion plates & 4 hexagonal bars (for mounting the dispersion plates)



1 optional (8 outlets with 8 Y-distributors (see page 18) or doubling pieces (see page 19) available as accessories)  
2 Select the Control Box based on the functions you require (page 12-15)

### YOUR BENEFITS

#### COMFORTABLE OPERATION

- Fill level sensor<sup>3</sup>, that reminds you to refill the seed in due time
- Infrequent refilling due to the large hopper
- Larger hopper opening, which makes filling easier

#### VERSATILITY

- You are equipped for almost any application



### BENEFITS OF ALL PS IMPLEMENTS FROM APV

- Excellent lateral distribution over the whole working width
- Precise spreading of the seed, independent of the wind
- Diverse options for adapting the PS to your requirements due to a large selection of hoppers, seeding shafts, types of fans, outlets, etc.
- Quick and easy to mount
- Electronics with state-of-the-art technology. The degree of automation depends on the controller<sup>2</sup>.
- Easy retrofitting of sensors



### ACCESSORIES

- Calibration button<sup>4</sup>
- Fan speed sensor<sup>5</sup> for hydraulic fan
- Extension cable PS MX 2 m
- Extension cable PS MX 5 m
- Power cable for tractors 8 m
- Mounting kit top link PS 120-500
- Sensors<sup>4</sup>



3 For use with Control Box 1.2 & 5.2 & 6.2  
4 For use with Control Box 5.2 & 6.2  
5 For use with Control Box 6.2

# PS 800 M1

## LARGE VOLUME FOR BIG CHALLENGES

With 800 litres, the PS 800 M1 offers one of the largest hopper volume among our Pneumatic Seeders. All components are perfectly coordinated for the requirements of intensive operation. The implement is equipped with 16 outlets, a strong hydraulic fan, a steel hopper and many other extras. If you do not have the option of mounting the PS 800 M1 on your trailing implement, because of its size and weight, we recommend that you couple the PS 800 M1 with the APV Implement Carrier MT2 between the tractor and the soil tillage implement.

## TECHNICAL DATA

↗ Working width	3 - 12 m with hydraulic fan, 16 outlets 3 - 12 m with hydraulic fan, 32 outlets <sup>1</sup>
✂ Dimensions	H 125 cm, W 100 cm, D 170 cm
🍂 Seed hopper	Steel hopper with 800 l capacity
⚖ Net weight	250 kg
⚡ Power data	12 V / 25 A

One single-acting control unit (size BG 3) + 1 pressureless return (BG 4) is required.  
Max. required pressure: 180 bar, max. required oil quantity: 38 l/min

## ITEMS INCLUDED

- Select between Control Box 5.2 or 6.2<sup>2</sup> (different price categories)
- Complete seeder with hoses (75 m)
- Seeding shafts for fine seeds, seeding shafts for coarse seeds
- Agitator
- 6 m cable from the seeder to the Control Box
- Calibration slide, calibration bag, seed scale, fill level sensor<sup>3</sup>, fan pressure monitoring<sup>3</sup>
- 16 dispersion plates & 8 hexagonal bars
- Crane lugs for easier handling when mounting



<sup>1</sup> optional (16 outlets with 16 Y-distributors (see page 18) or doubling pieces (see page 19) available as accessories)

## YOUR BENEFITS

### COMFORTABLE OPERATION

- Fill level sensor<sup>3</sup>, that reminds you to refill the seed in due time
- Infrequent refilling due to the large hopper
- Easier filling due to the biggest hopper opening for filling with big bags
- Reversible hopper lid

### VERSATILITY

- Spreading of high seed rates per hectare
- You always have a second seeding shaft along in parking position



## BENEFITS OF ALL PS IMPLEMENTS FROM APV

- Excellent lateral distribution over the whole working width
- Precise spreading of the seed, independent of the wind
- Diverse options for adapting the PS to your requirements due to a large selection of hoppers, seeding shafts, types of fans, outlets, etc.
- Quick and easy to mount
- Electronics with state-of-the-art technology. The degree of automation depends on the controller.<sup>2</sup>
- Easy retrofitting of sensors



## ACCESSORIES

- Calibration button<sup>3</sup>
- Fan speed sensor<sup>4</sup> for hydraulic fan
- Filling grid (2 pcs. possible for each PS)
- Extension cable PS MX 2 m
- Extension cable PS MX 5 m
- Power cable for tractors 8 m
- Sensors<sup>3</sup>



<sup>2</sup> Select the Control Box based on the functions you require (page 12-15)

<sup>3</sup> For use with Control Box 5.2 & 6.2

<sup>4</sup> For use with Control Box 6.2

# WHICH PS IS BEST FOR MY FARM?

Find the Pneumatic Seeder that suits your needs. APV offers five different basic versions in the standard edition. These differ in terms of

- the size of the hopper (the numbers 120 to 800 stand for the volume in litres)
- the type of fan
- the equipment level
- the design, the weight and the mounting options

On the following pages, we give you an overview of which PS is suitable for which applications.

TYPE	SEED	RECOMMENDED USE	YOUR BENEFITS
<b>PS 120 M1</b> 	<ul style="list-style-type: none"> <li>• Grass seeds and fine granulated materials<sup>1</sup></li> <li>• Catch crops, nurse crops and reseeded</li> </ul>	<ul style="list-style-type: none"> <li>• Small farms</li> <li>• Viticulture</li> <li>• Fruit and vegetable plantations</li> </ul>	<ul style="list-style-type: none"> <li>• Ideal for mounting on narrow soil tillage implements</li> <li>• Low weight acting on the implement on which the PS is mounted</li> </ul>
<b>PS 200 M1</b> 	<ul style="list-style-type: none"> <li>• All types of seeds</li> </ul>	<ul style="list-style-type: none"> <li>• Spreading of fine seeds with small working widths</li> </ul>	<ul style="list-style-type: none"> <li>• Low space required for transport and mounting, therefore also ideal for folding implements</li> <li>• Easy mounting</li> </ul>
<b>PS 300 M1</b> 	<ul style="list-style-type: none"> <li>• Grass seeds and fine granulated materials<sup>1</sup></li> <li>• Catch crops, nurse crops and reseeded</li> <li>• All types of seeds</li> </ul>	<ul style="list-style-type: none"> <li>• Small and medium farms</li> </ul>	<ul style="list-style-type: none"> <li>• Comfortable operation: reduce the frequency for refilling</li> <li>• Easy mounting</li> </ul>
<b>PS 500 M2</b> 	<ul style="list-style-type: none"> <li>• Grass seeds and fine granulated materials<sup>1</sup></li> <li>• Catch crops, nurse crops and reseeded</li> <li>• All types of seeds</li> <li>• Large seeds<sup>2</sup> (peas, horse gram, wheat, forage rye)</li> </ul>	<ul style="list-style-type: none"> <li>• Large farms</li> <li>• Contractors</li> </ul>	<ul style="list-style-type: none"> <li>• Wide range of applications</li> <li>• Increased working comfort due to more basic equipment</li> <li>• Easier refilling of the seed due to a large hopper opening</li> </ul>

1 Only for non-corrosive granulated materials. For the spreading of corrosive granulated material, we offer the PS fertiliser edition.  
 2 For the spreading of large seeds, we recommend the use of Flex20 or Flex40 seeding shafts and a hydraulic fan.

TYPE	SEED	RECOMMENDED USE	YOUR BENEFITS
<b>PS 800 M1</b> 	<ul style="list-style-type: none"> <li>• Grass seeds and fine granulated materials<sup>3</sup></li> <li>• Catch crops, nurse crops and reseeded</li> <li>• All types of seed</li> <li>• Large seeds<sup>4</sup> (peas, horse gram, wheat, forage rye)</li> </ul>	<ul style="list-style-type: none"> <li>• Large farms</li> <li>• Contractors</li> </ul> <p><b>Recommendation:</b> coupling with the APV machine carrier MT2 between the tractor and the soil tillage implement</p>	<ul style="list-style-type: none"> <li>• Spreading of high rates with large seeds is possible</li> <li>• Perfectly coordinated for intensive operations (16 outlets, strong hydraulic fan, steel hopper)</li> <li>• Increased working comfort due to more basic equipment</li> </ul>

## PS CONVERSION KIT FOR SPECIAL APPLICATIONS

With the PS conversion kit for special application, you can increase the number of hose outlets. Order the conversion kit with your Pneumatic Seeder and it will be installed directly at the APV factory. (More information can be found on page 19)

VERSIONS	SEED	RECOMMENDED USE	YOUR BENEFITS
<b>PS 120-500 CONVERSION KIT: 16 OUTLETS</b>	<ul style="list-style-type: none"> <li>• Grass seeds and fine granulated materials</li> </ul>	<ul style="list-style-type: none"> <li>• Metering of the seed in 16 or 32 seeding coulters.</li> </ul>	<ul style="list-style-type: none"> <li>• Increased accuracy of the seed lateral distribution (compared to Y-distributors) when extending the working widths</li> </ul>
<b>PS 800 CONVERSION KIT: 32 OUTLETS</b>	<ul style="list-style-type: none"> <li>• Catch crops, nurse crops and reseeded</li> </ul>		

 Not for large and heavy seeds.

3 Only for non-corrosive granulated materials. For the spreading of corrosive granulated material, we offer the PS fertiliser edition.  
 4 For the spreading of large seeds, we recommend the use of Flex20 or Flex40 seeding shafts and a hydraulic fan.

# CONTROL BOXES

## THE BRAIN OF THE PNEUMATIC SEEDER

We offer a selection of four Control Boxes<sup>1</sup>.

- For the PS 120 M1 - PS 500 M2, you can choose among the Control Boxes 1.2, 5.2, 5.7 and 6.2.
- For the PS 800 M1, you can choose among the Control Boxes 5.2, 5.7 and 6.2.
- With Control Box 5.7, you can operate two Pneumatic Seeders in parallel.

In the following, you will find an overview of the functions for each Control Box.

# CONTROL BOX 1.2

## THE SOLID BASE

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

- Electronic control and monitoring of the seeding shaft
- Electronic control and monitoring of electric fan
- Electronic adjustment of the spread rate during operation
- Calibration test
- Acoustic and visual error warning
- Emptying
- Implement monitoring (in combination with sensors. Example: fan monitoring)
- Possibility of fill level alert (in combination with sensors. Example: fill level sensor)



## ITEMS INCLUDED WITH ACCESSORY KIT

- Control Box 1.2
- 1.5 m cable for the power supply from the 3-pin plug to the Control Box
- Control Box bracket
- Operating instruction



# CONTROL BOX 5.2

## THE BESTSELLER

Control Box 5.2 is the most popular version of the APV Control Boxes and features an extensive range of functions. With Control Box 5.2, for example, you can precisely calibrate the speed, accurately regulate the electric fan and automatically perform the calibration test.



## FUNCTIONS

- Regulation and monitoring of the seeding shaft through the electronics
- Electronic adjustment of the spread rate during operation
- Emptying
- Automatic calibration test (only weighing!)
- Calibration test: option of displaying in kg/ha and seeds/m<sup>2</sup>
- Calibration of the speed
- Headland management (in conjunction with linkage sensor)
- Automatic adjustment of the spread rate to the forward speed (in conjunction with speed sensor)
- Implement monitoring (in conjunction with implement sensors. Example: fan monitoring and fill level sensor)
- Pre-metering
- Calibration test right at the implement (in conjunction with the calibration button)
- Regulation of the electric fan
- Display of the operating voltage and the amperages
- Total hours and daily hours counter
- Total hectares and daily hectares counter
- Selection of different languages
- Choice between different measuring units (metric, imperial)

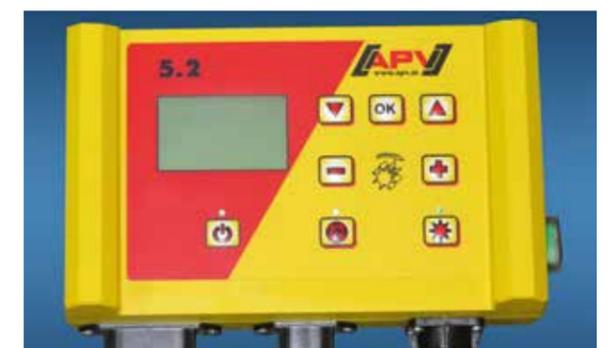


## ITEMS INCLUDED WITH ACCESSORY KIT

- Control Box 5.2
- 1.5 m cable for the power supply from the 3-pin plug to the Control Box
- Control Box bracket
- Operating instruction

Control Box 5.2 is optimised for use with the following PS:

- PS 120 M1
- PS 200 M1
- PS 300 M1
- PS 500 M2
- PS 800 M1



# CONTROL BOX 6.2

## THE TOUCH CONTROLLER

Control Box 6.2 is characterised by its user-friendliness, large colour touch screen and the high-quality aluminium housing. The menu is designed for intuitive operation with self-explanatory symbols. For example, it also enables automatic pre-metering of the seed and the creation of a seed database.



### FUNCTIONS

- All functions of Control Box 5.2 in addition:
- Operation via colour touch screen
- Robust aluminium housing
- Seed library (saving of calibration tests)
- Automatic pre-metering
- Display of the speed for the hydraulic fan (with optional fan speed sensor)
- Update option via USB flash drive and Internet



### ITEMS INCLUDED WITH ACCESSORY KIT

- Control Box 6.2
- 1.5 m cable for the power supply from the 3-pin plug to the Control Box
- Control Box bracket (RAM C ball, RAM C holding arm)
- Operating instruction

Control Box 6.2 is optimised for use with the following PS:

- PS 120 M1
- PS 200 M1
- PS 300 M1
- PS 500 M2
- PS 800 M1



# CONTROL BOX 5.7

## THE MULTI-TASKING WONDER

If you want to operate two Pneumatic Seeders in parallel and independently of each other, Control Box 5.7 is the perfect choice for you. To do so, you need an additional adapter cable<sup>1</sup> for the use of two PS. The Control Box is compatible with all sensor systems. When using two PS at the same time with an electric fan, pay attention to fluctuations in the air output!



### FUNCTIONS

- Regulation and monitoring of the seeding shafts through the electronics
- Electronic adjustment of the spread rate during operation
- Emptying
- Automatic calibration test (only weighing!)
- Calibration test: option of displaying in kg/ha and seeds/m<sup>2</sup>
- Calibration of the speed
- Headland management (in conjunction with linkage sensor)
- Automatic adjustment of the spread rate to the forward speed (in conjunction with speed sensor)
- Implement monitoring (in conjunction with implement sensors such as pressure monitors and a fill level sensor for each seeding shaft)
- Pre-metering
- Calibration test right at the implement (in conjunction with the calibration button)
- Regulation of the electric fan
- Independent controlling of up to two seeding shafts and an electric fan
- Total hours and daily hours counter
- Total hectares and daily hectares counter
- Selection of different languages



### ITEMS INCLUDED WITH ACCESSORY KIT

- Control Box 5.7
- Power supply cable AP 8 m
- Spare fuse
- Controller bracket (RAM C ball, RAM C holding arm)
- Operating instruction

Control Box 5.7 is optimised for use with the following PS:

- Parallel use of
- PS 120 M1
  - PS 200 M1
  - PS 300 M1
  - PS 500 M2
  - PS 800 M1



<sup>1</sup> Not included in the accessory kit

# SEEDING SHAFTS

An advantage of the APV Pneumatic Seeders is the large selection of seeding shafts.

## STANDARD EQUIPMENT

The scope of delivery for all Pneumatic Seeders includes the following seeding shafts.

TYPE	PHOTO	RELIABLE METERING OF THE FOLLOWING SEED TYPES		
fb-f-fb-fb		• Mustard	• Phacelia	
G-G-G		• Grass		

## OTHER SEEDING SHAFTS

You can purchase the following seeding shafts as accessories.

fb-fv-fv-fb		• Clover	• Cress	
fb-fb-ef-eb-fb		• Poppy		
fb-efv-efv-fb		• Oil seed rape		
f-f-f-f		• Grass	• Mustard	• Cress
GB-G-GB		• Buckwheat	• Fodder radish	

## FLEX SEEDING SHAFTS

Use the Flex seeding shaft for the spreading of seed mixtures and large seed types.

fb-Flex20-fb		• Seed mixtures • Cereals	• Lupine • Vetch	• Pea • Beans
Flex40		• Seed mixtures • Cereals	• Lupine • Vetch	• Pea • Beans

*“For the spreading of seed mixtures, I recommend the Flex seeding shaft. The flexible material is optimally suited for seeding large and bulky seed types.”*

Johannes Lehninger, APV Product Manager



# FAN

Depending on the area of application, we recommend different types of fans. The fans differ in terms of the air output, in the requirements for the connection (electric, hydraulic or PTO) and in the price.

- The PS 120-500 can be equipped with all three types of fans - the electric fan, the hydraulic fan and the PTO fan. We recommend that you allow our sales staff or sales partners to advise you about the suitability of the individual fans for your applications.
- For the PS 800, we offer an even more powerful hydraulic fan as a standard.<sup>1</sup>

An overview of the functions for each fan is shown below.

## ELECTRIC FAN<sup>2</sup>



The electric fan is the basic version. It is suitable for spreading over small working widths. Advantage of the electric fan is that you do not need a hydraulic connection.

## HYDRAULIC FAN



If the air output of the electric fan is not sufficient, the hydraulic fan is the right choice. It is suitable for spreading over large working widths or high spread rates.

**Max. required pressure:** 180 bar  
**Max. required oil quantity:** 38 l / min

## PTO FAN



Similar to the hydraulic fan, the PTO fan provides high air output for spreading over large working widths. The PTO fan is the alternative if you cannot use a hydraulic fan.

<sup>1</sup> Due to the special requirements of the PS 800 M1, only the use of the hydraulic fan is possible.  
<sup>2</sup> The electric fan is a powerful double fan.

# WORKING WIDTH

## A QUESTION OF PERFORMANCE

The working width of the Pneumatic Seeder is directly correlated with the output of the fan, the type of seed to be spread and the number of hose outlets. To increase the number of hose outlets, we offer two options.

### DOUBLING BY MEANS OF Y-DIVIDER

Y-dividers allow you to double the number of outlets. You can install the Y-divider horizontally close to the dispersion plates, the hoses upstream from the Y-divider must be at least 1 m long and routed as straight as possible without curves.

The Y-dividers are suitable if

- you want to increase the number of outlets on your existing Pneumatic Seeder.
- you are looking for an inexpensive version for increasing the number of outlets and want to remain flexible.
- you do not require precise lateral distribution.

If you want to maintain the usual APV precision when spreading seed with double outlets, we recommend the 'PS for special applications'.



*"Did you know that the length and the proper routing of the hoses have a significant effect on the spreading results? I have prepared a table for you as orientation."*

*Customer Service APV*

<b>MAX. WORKING WIDTH</b>	6 m	7 m	12 m	12 m	12 - 24 m
<b>MAX. HOSE LENGTH</b>	4 m	8 m		10 m	14 m
<b>SUITABLE SEEDER</b>	PS 120 - 500 with electr. fan	PS 200 - 500 with hydr. fan	PS 200 - 500 with hydr. fan with Y-dividers	PS 800 with hydr. fan	PS 800 with special equipment <sup>1</sup>

<sup>1</sup> Contact our sales staff

# PS FOR SPECIAL APPLICATIONS

The 'PS for special applications' increases the number of hose outlets on your PS. Purchase is only possible when buying a new PS, since the entire seed drill is adapted to the extension. As a result, we guarantee precise metering and excellent lateral distribution.



## YOUR BENEFITS

- The PS 120 M1 - PS 500 M2 are offered with 9-16 outlets.
- On the PS 800 M1, we offer the doubling from 16 to 32 outlets.
- Accurate lateral seed distribution for large working widths
- Precise seed placement
- Direct metering of the seed in up to 16 seeding coulters (PS 120-500) or up to 32 seeding coulters (PS 800)
- Individual adjustment: All components of the PS are adapted to the extended outlets at the APV factory.
- Easy hose routing
- All quality standards stay maintained.

## NOTIFICATION

The Pneumatic Seeders for special applications

- are not suitable for large and heavy seeds (e.g. peas, beans).
- can only be purchased when buying a new Seeder, because it is installed right at the APV factory.

Allow us to advise you for your other planned applications as well.



# SENSORS

To be able to take advantage of all functions of your Pneumatic Seeder, we offer a wide selection of sensors as accessories. The selection of the right sensor depends on different factors. Take advantage of the advice of our experts to help you decide which sensors are suitable for you.

## SPEED SENSORS

Speed sensors transmit your forward speed to the Control Box<sup>1</sup>. Based on this information, the controller automatically adapts the spread rate to the forward speed.

You can select among the following sensors depending on your requirements:

- Sensor GPSa
- Radar sensor MX 35
- Wheel sensor
- 7-pin signal cable

## SENSORS FOR HEADLAND MANAGEMENT

When you lift out your implement, this sensor transmits the information to the Control Box<sup>1</sup>. The seeding shaft stops and starts automatically when the implement is ready for operation again.

You can select among the following sensors depending on your requirements:

- Linkage sensor top link
- Linkage sensor chassis
- Linkage sensor pull switch
- Linkage sensor hydraulic
- Linkage sensor inductive

## SENSORS FOR IMPLEMENT MONITORING

We offer implement sensors such as fill level sensors as well as fan speed sensors, which allow you to work comfortably.

- The **fill level sensor** informs you when the seed hopper is getting empty.
- The **fan speed sensor for hydraulic fan**<sup>2</sup> continuously checks the proper speed of the hydraulic fan for your application.

<sup>1</sup> Control Box 5.2, 5.7 or 6.2 are required  
<sup>2</sup> Control Box 6.2 is required

# OTHER ACCESSORIES

## CALIBRATION BUTTON



Attach the calibration button at your desired position using the integrated magnets. **Your benefit:** Perform the calibration test and residual emptying directly at the implement.

## CALIBRATION SLIDE WITH HOSE



The calibration chute with a hose makes the calibration test and residual emptying of the PS hopper easier at locations difficult to access. **Your benefit:** Easy calibration test

## FILL LEVEL SENSOR



The fill level sensor triggers an alarm on the Control Box when there is not enough seed in the hopper. **Your benefit:** You are informed in due time when you have to refill the seed.

## CONVERSION KIT FOR OIL SEED RAPE



For more precise metering with small or fine seeds. **Your benefit:** You achieve excellent spreading results for fine seeds such as oil seed rape.

## HOSE COUPLER



Disconnect and connect the outlets quickly without tools when changing over the PS on different soil tillage implements. **Your benefit:** Quick change over to other machines and implements

## OTHER ACCESSORIES



### ACCESSORY KIT FOR THE PS ON A 2<sup>ND</sup> SOIL TILLAGE IMPLEMENT



The accessory kit contains the most important parts for mounting the PS on another soil tillage implement. **Your benefit:** No longer needs to take these parts on and off



### FAN SPEED SENSOR FOR HYDRAULIC FAN



This sensor is used to display the speed of the hydraulic fan on the Control Box 6.2. **Your benefit:** You can always check whether the right speed is set depending on the application.



### AIR SEPARATOR AIR GUARD



Due to the cyclone shape, the air separator achieves optimal air separation from the seed or granulated material. **Your benefit:** Reliable placement



### MOUNTING AND PLATFORM KIT UNIVERSAL



This bracket is attached to the rearmost cross beam of the soil tillage implement. Here, the Pneumatic Seeder can be mounted. **Your benefit:** You can use your spreader even if there is no space for mounting it on the soil tillage implement.



### PLATFORM KIT MODULAR



This kit enables you to retrofit a platform including a step on your soil tillage implement. **Your benefit:** You can easily get to your seeder.



### CONTROL BOX BRACKET



The Control Box bracket can be mounted on an existing Müller bracket (tube). **Your benefit:** Attach your Control Box optimally on your tractor.



### COMPANY HISTORY

#### FROM USER TO ENTREPRENEUR

It has been clear to Jürgen Schöls (CEO) right from the start that he loves agriculture. This is why he took over the family farm and is still running it today. As a farmer and handyman, he continued developing his single-disc spreader in 1997. He recognised that his optimisation had potential and founded APV - Technische Produkte GmbH. The first APV implements were handmade by

the young entrepreneur himself and today he has 150 employees. The entire company works under the motto: EVERYTHING IS POSSIBLE! Giving, and then giving some more, and good things will come back! The dynamic company questions everything, takes nothing for granted and optimises good existing concepts.

*"Every modern farmer uses APV technology on his farm."*

*The Managing Director's vision, CEO*

More information on our website at [www.apv.at](http://www.apv.at).

#### Company details

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# *Innovations for the Future*

*- since 1997 -*



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