

APV PNEUMATIC SEEDERS

STANDARD EDITION



Version: 6.0 EN / Item no.: 00230-3-001019

AMBITION. PASSION. VISION.



PNEUMATIC SEEDERS

Seed is transferred from the seed hopper into the air duct by the electrically controlled seeding shaft. In the air duct, by means of the fan, seed is conveyed through plastic hoses to dispersion plates that distribute it uniformly and close to the ground. This enables precise seeding, even when the wind is blowing.

PRECISION METERING WITH EXCELLENT LATERAL DISTRIBUTION

The Pneumatic Seeder from APV helps you deploy your operating resources efficiently.

- Less seed is required thanks to precise metering.
- Fewer field passes thanks to the combined use of a seeder on a soil tillage implement; and this means reduced work time, less implement wear, reduced soil compaction, and you save fuel.
- Before making a purchase, take some time to learn about all the possible applications of the Pneumatic Seeder in order to choose the best implement for use on your farm.

ADVANTAGES OFFERED THE APV PNEUMATIC SEEDERS

- Precise lateral distribution across the entire working width
 - Spread seed, regardless of wind conditions
 - Easy operation with ISOBUS possible
 - Mounting options on virtually all soil tillage implements, seed drills and cultivation implements – regardless of the manufacturer
 - Versatile combination options for hopper sizes, seeding shafts, fan types, technical equipment and expansion possibilities for the outlets (up to 32 outlets)
 - Precise metering
 - Easy adjustment & convenient calibration test
 - Fast and easy mounting
 - State-of-the-art electronics The degree of automation depends on the control system
 - Easy retrofitting of sensors
 - Fast delivery times even during the season: Our employees at the order center would be pleased to answer any question you might have!
- Individual consultation and support before and after purchase

You can use the Pneumatic Seeder with the following machines and implements (see photos on the right):

Grassland Harrow	Harrow
Cultivator	Potato planter
Roller	Ridge plough
Grassland leveler	Corn seeder
Seed drill	Hoeing implement
Disc harrow	Manure tanker
Combine harvester	...and much more.

We look forward to your application reports! Send your application reports to marketing@apv.at. As a thank you for each contribution with photo, we will send you an APV surprise package.



THE APV SEED EXPERTS

PS 120 / PS 200 / PS 300: THE SUPERB "SMALL SEEDERS"

The PS 120, 200 and 300 are professional implements for use on small and medium-sized farms. They differ only in the volume of the seed hopper. Thanks to the compact dimensions, PS 120 and PS 200 are ideal for implements where space is at a premium (e.g. folding implements). Another advantage is that minimal weight is exerted on the soil tillage implement. The PS 300 enables convenient work at higher spread rates thanks to reduced refilling times.

PS 500: THE SOLUTION FOR INTENSIVE APPLICATIONS

The PS 500 is the professional implement for farmers and contractors with large areas under cultivation or where high spread rates are required. With a hopper volume of 500 litres, this Pneumatic Seeder offers versatile implementation possibilities, ranging from reseeding on the grassland harrow to spreading large seeds at large working widths. The factory-standard fill level sensor provides timely alerts when seed must be refilled. Thanks to the high capacity of the hopper, fewer refills are required.

PS 800 / PS 1100: BIG VOLUME FOR BIG CHALLENGES

The PS 800 with its 800 litres and the PS 1100 with its 1,100 litres enable the application of high quantities of seed per hectare. All components are perfectly designed and matched for the requirements of intensive operation. For example, the implement is equipped with 16 outlets, a strong hydraulic fan, a steel hopper, and many other extras.

If you are unable to mount the PS on your trailed implement due to the size and weight, we recommend combination with the APV MT2 implement carrier between tractor and implement. Easier filling thanks to the largest hopper opening for big bag filling. This implement has a reversible hopper lid. This means you always have a second seeding shaft onboard in parking position.

PS 1600: THE GIANT AMONG THE PS IMPLEMENTS

The PS 1600 can be combined with many trailed soil tillage implements and has various seeding shafts for coarse and fine seed. This giant among the seeders saves time and effort, since far less refilling is required. The large opening also enables big bag filling. Furthermore, the PS 1600 is equipped with implement monitoring sensors such as a speed sensor and fill level sensor. The implement has crane straps for easier mounting.



	PS 120	PS 200	PS 300	PS 500	PS 800	PS 1100	PS 1600
Working width	up to 6 m	up to 12 m*	up to 12 m*	up to 12 m*	up to 12 m	up to 12 m	up to 12 m
Outlets are freely selectable up to	16 ¹	16 ¹	16 ¹	16 ¹	32 ²	32 ²	32 ²
Electr. fan / electr. fan PLUS / hydraulic fan	x / x / -	x / x / x	x / x / x	x / x / x	- / - / x	- / - / x	- / - / x
Dimensions with electr. fan / electr. fan PLUS / hydr. fan (height / width / depth in cm)	90x60x80 90x60x86 -	100x70x90 100x70x90 100x70x110	100x80x100 100x80x100 100x80x115	125x80x120 125x80x120 125x80x125	- - 125x100x170	- - 153x100x170	- - 165x110x220 225x220x150 ³
Seed hopper (in liters)	120	200	300	500	800	1,100	1.600
Net weight, electr. fan / electr. fan PLUS / hydr. fan (in kg)	45 / 53 / -	60 / 68 / 83	70 / 78 / 93	100 / 108 / 123	- / - / 250	- / - / 290	- / - / 470 (800 ³)
Power data	12 V / 25 A	12 V / 25 A	12 V / 25 A	12 V / 25 A	12 V / 25 A	12 V / 25 A	12 V / 25 A
Power data electr. fan PLUS	12 V / 40 A (excl. seeding shaft motor) 12 V / 10 A (for seeding shaft motor)		12 V / 40 A (excl. seeding shaft motor) 12 V / 10 A (for seeding shaft motor)		-	-	-
Max. required pressure		180 bar	180 bar	180 bar	180 bar	180 bar	180 bar
Max. required oil quantity		38 l / min	38 l / min	38 l / min	38 l / min	38 l / min	38 l / min
Complete seeder with hose system 25 m / 75 m	x / -	x / -	x / -	x / -	- / x	- / x	- / x
Seeding shaft for fine seed / coarse seed	x / x (optionally available as SMART TWIN with split seeding shaft)		x / x (optionally available as SMART TWIN with split seeding shaft)		x / x	x / x	x / x
6 m cable from the seeder to the Control Box	x	x	x	x	x	x	x
Calibration slide, calibration bag, counter plate, seed scale	x	x	x	x	x	x	x
Agitator	x	x	x	x	x	x	x
Universal bracket for mounting on a soil tillage implement ⁴							x
Display and monitoring of the fan speed on the hydr. fan		x	x	x	x	x	x
Dispersion plates	x	x	x	x	x	x	x
Hexagonal bars, 4 units / 8 units	x / -	x / -	x / -	x / -	- / x	- / x	- / x
Fill level sensor	optional (x)	optional (x)	optional (x)	x	x	x	x
Crane straps for easier handling when mounting					x	x	x
Calibration button, optional	x	x	x	x	x	x	x
Extension cable PS MX 2 m / 5 m / 14 m, optional	x / x / x	x / x / x	x / x / x	x / x / x	x / x / x	x / x / x	x / x / x
Mounting kit for top link, optional	x	x	x	x			
Sensor system ⁵ , optional	x	x	x	x	x	x	x

* When using the hydraulic fan

¹ Optional (8 outlets with 8 Y-distributors (see page 13 and 22) or doubling pieces (see page 21) available as accessories)

² Optional (16 outlets with 16 Y-distributors (see page 13 and 22) or doubling pieces (see page 21) available as accessories)

³ With MT2

⁴ Only included for PS without MT2

⁵ For use with Control Box 5.2, 5.7, 6.2, and ISOBUS



[APV]

PS 300 MI

APV

MT2 IMPLEMENT CARRIER

The setup of the Pneumatic Seeder on the MT2 implement carrier ensures flexible operation, since there is no need to mount it directly on the trailed soil tillage implement. This results in ideal weight distribution. Instead of putting weight on the implement frame, the weight is shifted to the tractor's rear axle.

COMBINATION OPTIONS PS WITH MT2

Optimally combined with PS standard or Fertilizer Edition

- PS 120
- PS 200
- PS 300
- PS 500
- PS 800
- PS 1100
- PS 1600

ADVANTAGES OF THE MT2

- It is not necessary to mount the Pneumatic Seeder directly on the implement
- Axle loads and weight distribution are optimized.
- Increased pulling force because the weight is exerted on the towing vehicle
- Implements can be quickly disconnected from the implement carrier and can be operated solo
- Seeding combination with different mounted implements (cultivator, disc harrow, roller, strip till coulters, etc.)



WORKING WIDTH

A QUESTION OF CAPACITY

The working width of the Pneumatic Seeder is directly related to 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-DISTRIBUTORS

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

The Y-distributors are appropriate if

- You want to increase the number of outlets on your existing Pneumatic Seeder.
- You are looking for a cost-effective version for increasing the number of outlets and want to stay flexible.
- You do not require precise lateral distribution.

If you want to maintain the customary APV precision when spreading seed with doubled outlets, we recommend the "PS for special applications"¹.



¹ Contact our sales staff

TYPE	SEED	RECOMMENDATION	ADVANTAGES
PS 120 	- Grass seed and fine granules¹ - Catch crops, nurse crops, and reseed - All types of seeds	- Small agricultural operations - Viticulture - Fruit and vegetable plantations - Spreading fine seed with small working widths	- Ideal for mounting on narrow soil tillage implements - Minimal weight is exerted on the implement on which the PS is mounted - Minimal space requirements for transport and mounting; also ideal for folding implements - Easy mounting
PS 200 			
PS 300 	- Grass seed and fine granules¹ - Catch crops, nurse crops and reseed - All types of seed	Small and medium-sized agricultural operations	- Comfortable operation: reduce the frequency for refilling - Easy mounting
PS 500 	- Grass seed and fine granules¹ - Catch crops, nurse crops and reseed - All types of seed - Large seeds² (peas, wheat, broad beans, forage rye)	- Large farms - Contractors	- Numerous applications - Increased working comfort thanks to higher basic equipment - Easier refilling of the seed thanks to a large hopper opening
PS 800 PS 1100 PS 1600 	- Grass seed and fine granules¹ - Catch crops, nurse crops and reseed - All types of seed - Large seeds² (peas, broad beans, wheat, forage rye)	- Large farms - Contractors Recommendation: Coupling with the APV implement carrier MT2 between the tractor and the soil tillage implement	- Spreading at high rates with large seeds is possible - Perfectly configured for intensive operation (16 outlets, strong hydraulic fan, steel hopper) - Increased working convenience thanks to the many functions offered by the basic equipment

WHICH PS IS RIGHT FOR MY FARM?

Find the Pneumatic Seeder that is right for your requirements. APV offers five different basic versions in the standard edition. They differ in

- The size of the hopper (the numbers 120 to 1600 stand for the volume in liters)
- The type of fan
- The equipment level
- The design, weight, and mounting options

On the following pages, we provide an overview that shows which PS is suitable for what applications.

PS CONVERSION KIT FOR SPECIAL APPLICATIONS

With the PS conversion kit for special applications, you can increase the number of hose outlets. Order the conversion kit with your Pneumatic Seeder and it will be installed directly ex works. (More information is provided on page 21)

TYPE	SEED	RECOMMENDATION	ADVANTAGES
CONVERSION KIT PS 120–500: 16 OUTLETS CONVERSION KIT PS 800/PS 1600 32 OUTLETS	- Grass seed and fine granules¹ - Catch crops, nurse crops and reseed	Metering of the seed in 16 or 32 seeding coulters.	Increased accuracy of lateral seed distribution (compared to Y-distributors) when extending the working widths

⚠ Not for large and heavy seed.

TRANSITIONS PS

These corrosion-resistant transitions reduce the 8 or 16 outlets of the Pneumatic Seeders (PS 120–1600) to one or two larger outlets. We recommend these transitions for applications in combination with Distribution Heads (see pages 22–25).

⚠ A hydraulic fan is required for these applications!



8 to 1



16 to 2

¹ Only for non-corrosive granules. For the spreading of corrosive granules, we offer the PS Fertilizer-Edition.

² For spreading large seeds, we recommend use of Flex20 or Flex40 seeding shafts and a hydraulic fan.

¹ Only for non-corrosive granules. For the spreading of corrosive granules, we offer the PS Fertilizer-Edition.

WHAT IS THE RIGHT PNEUMATIC SEEDER FOR ME?

OVERVIEW OF THE APV PS SERIES

- **Standard series:** PS 120, PS 200, PS 300, PS 500, PS 800, PS 1100 and PS 1600
- **Fertilizer Edition:** PS 120 D, PS 200 D, PS 300 D, PS 500 D, PS 800 and PS 1600 D; SMART TWIN 120, SMART TWIN 200, SMART TWIN 300 and SMART TWIN 500; PS 300 D TWIN and PS 500 D TWIN
- **Special applications:** 9–16 outlets (PS 120–PS 500) or 32 outlets (PS 800–PS 1600)

BASIC CONSIDERATIONS

- What do you want to spread with the Pneumatic Seeder? Please note that our PS units are suitable for versatile applications. Think about the future: If you might want to work with larger working widths or bigger and heavier seeds at a later time, a Pneumatic Seeder with a hydraulic fan instead of an electric fan would probably be more suitable for you.
- If you want to spread corrosive agents (fertilizers or micro granulates), use only Fertilizer Edition Pneumatic Seeders (these are fully corrosion-proof).
- If equipped with a hydraulic fan, you need one single-acting control unit (size BG 3) and one pressureless return (without reduction, max. 5 bar return pressure) with a size 4 coupling (BG 4). Max. required pressure: 180 bar, max. required oil quantity: 38 l/min

SELECTION OF THE RIGHT FAN

Calculate the spread rate per minute and using this value, find out whether you need a Pneumatic Seeder with an electric, electric PLUS or hydraulic fan.¹

Working width m x Speed km/h x Seeding rate kg/ha
600 = kg/min

max. kg/minute	Up to 3.5 kg/min	Up to 8 kg/min	Up to 14 kg/min	Up to 30 kg/min
Suitable seeder	PS 120–500 with elec. fan	PS 120–500 with elec. fan PLUS	PS 200–500 with hydr. fan	PS 800–1600 with hydr. fan

EXAMPLE

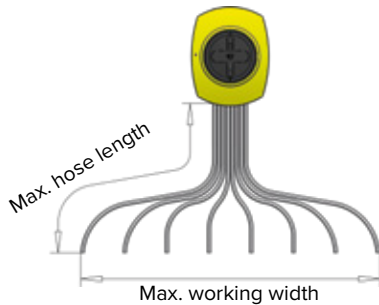
The Johnson family wants to spread 45 kg/ha of a cover crop mixture at a speed of 10 km/h, the Pneumatic Seeder will be mounted on a 6 m cultivator.

Calculation: **6 m x 10 km/h x 45 kg/ha**
600 = **4.5 kg/min**

With this result, the Johnson family could purchase a PS of the versions 200–500 with electric fan PLUS or hydraulic fan. The Johnson family does not have a pressureless return on their tractor. Therefore, the hydraulic fan is not possible. For this reason, the Johnson family chooses from the versions PS 200–500 with electric fan PLUS.

SELECTION OF THE RIGHT HOSE LENGTH

Good spreading results depend on the hose lengths and proper hose laying. On hydraulic fans, connect the longest seed hoses starting on the gearbox motor side.



Max. hose length	4 m	8 m			10 m	14 m
max. Working width	6 m	6 m	12 m	12 m	12 m	12 to 24 m
Suitable seeder	PS 120–500 With elec. fan	PS 200–500 With elec. fan PLUS or hydr. fan	PS 120–500 With elec. fan PLUS and Y-divider (fine seed)	PS 200–500 With hydr. fan with Y-divider	PS 800–1600 With hydr. fan	PS 800–1600 With special equipment ²

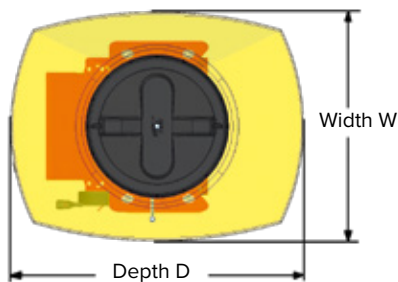
SELECTION OF THE RIGHT HOPPER SIZE

Pneumatic Seeder with elec. fan / elec. fan PLUS / hydr. fan	Dimensions in cm (Height x Width x Depth)	Weight
PS 120 + elec. fan	90 x 60 x 80	45 kg
PS 120 + elec. fan PLUS	90 x 60 x 86	53 kg
PS 200 + elec. fan / PLUS	100 x 70 x 90	60 kg / 68 kg
PS 200 + hydr. fan	100 x 70 x 110	83 kg
PS 300 + elec. fan / PLUS	110 x 80 x 100	70 kg / 78 kg
PS 300 + hydr. fan	110 x 80 x 115	93 kg
PS 500 + elec. fan / PLUS	125 x 80 x 120	100 kg / 108 kg
PS 500 + hydr. fan	125 x 80 x 125	123 kg
PS 800 + hydr. fan	125 x 100 x 170	250 kg
PS 1100 + hydr. fan	153 x 100 x 170	290 kg
PS 1600 + hydr. fan	165 x 110 x 220	470 kg
PS 1600 + hydr. fan with MT2	225 x 220 x 150	800 kg

OPTIMUM POSITIONING OF THE PS

Determine the optimum position of the PS on the soil tillage implement based on the following criteria:

- Short, sloping hoses
- Installation position and installation height of the dispersion plates (approx. 40 cm over the worked soil, max. 75 cm from dispersion plate centre to dispersion plate centre)
- Safe filling, calibrating, & changing seeding shafts
- Enough space when the implement will be folded (hopper!)
- Are the cables long enough? (Implement cable 6 m)
- Are the hydraulic hoses (6 m) long enough?



¹ A hydraulic fan must always be used for heavy seeds (beans, peas, wheat, fertilizer)!

² Please contact your sales representative!

CONTROL BOXES

CONTROL BOX 1.2

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

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 EASY CONTROL

EasyControl offers a host of improvements that make the day-to-day work of farmers even more convenient and efficient. Fewer cables in the cab, a modern menu system and intelligent additional functions ensure greater clarity and ease of use.

Whether it's seed management, filling and metering functions or new interfaces – EasyControl combines smart technology with practical application.

CONTROL BOX 5.7

With an additional adapter cable, the Control Box 5.7 allows up to two APV seeders to be operated in parallel and independently of one another. It enables two seeding shafts to be controlled separately.

To complete the multitasking module's package, the control box is compatible and combinable with any sensor system.

Note, when using two PS units with electric fan or two MDPs, there is a possible reduction of air capacity due to greater power consumption.

ISOBUS / PROFI CONTROL

All Pneumatic Seeders from APV can be controlled via the tractor's own terminal using the ISOBUS function. Only one ISOBUS connection needs to be available on the tractor. This enables even more professional operation and efficient use of the PS. You do not need an additional monitor in the cab and thus have a better overview. There is only one cable from the seeder to the tractor. The Section-Control enables automatic seeding wave shut-off depending on the GPS position. You can name your seed individually in the seed library. All functions of the Control Box 6.2 are available to you.

ProfiControl: If your tractor is not ISOBUS-compatible but you would like to use our seeders with ISOBUS, there is the new ProfiControl, which can be used as a stand-alone solution for ISOBUS implements.



CONTROL BOX	1.2	5.2	EASY CONTROL	5.7	ISOBUS¹	PROFI CONTROL
FUNCTIONS						
Controlling and monitoring all the electronics	x	x	x	x	x	x
Spread rate adjustment in running operation	x	x	x	x	x	x
Automatic emptying function	x	x	x	x	x	x
Performing a calibration test	x	x	x	x	x	x
Fill level warning option (together with machine sensor. For example: fill level sensor)	x	x	x	x	x	x
Calibration test: display options - kg/ha and seeds/m²		x	x	x	x	x
Headland management (in conjunction with linkage sensor)		x	x	x	x	x
Control Box is sensor-enabled	x	x	x	x	x	x
Pre-metering		x	x	x	x	x
Total hours and hectare counter		x	x	x	x	x
Selection of different languages and units of measure (metric, imperial)		x	x	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		x	x
Remaining-quantity display (area & distance)			x		x	x
Display of rotational speed for the hydraulic fan		x	x	x	x	x
Automatic pre-metering			x		x	x
Clear colour display with brightness adjustment					x	x
Update possibility via USB flashdrive			x		x	x
Independent, parallel operation of two APV seeders with electric or hydraulic fan				x	x	x
Section Control: Automatic seeding shaft shut-off depending on the GPS position²					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	EASY CONTROL	5.7	ISO-BUS¹	PROFI CONTROL
Cable for the power supply from the 3-pin plug to the Control Box	1,5 m			8 m		x
Control box bracket	X					
OPTIMIZED FOR USE WITH THE FOLLOWING IMPLEMENTS						
PS 120-1600	x				x	
Use of two Pneumatic Seeders				x	x	

¹ Display is not included in the scope of delivery!

² Depending on the tractor equipment

SEEDING SHAFTS

One advantage of the APV Pneumatic Seeders is the large selection of seeding shafts. Our **APV seeding shaft configurator** helps you choose the ideal seeding shaft for your specific application. Scan the QR code.



STANDARD EQUIPMENT

Scope of delivery for all Pneumatic Seeders includes the following seed shafts

TYPE	PHOTO	RELIABLE METERING OF THE FOLLOWING SEEDS		
fb-f-fb-fb		• White mustard	• Phacelia	• Niger
G-G-G		• Grass		

ACCESSORIES

The following seeding shafts can be purchased as accessories.

TYPE	PHOTO	RELIABLE METERING OF THE FOLLOWING SEEDS		
fb-fv-fv-fb		• Clover	• Cress	• Fodder radish
fb-fb-ef-eb-fb		• Poppy		
fb-efv-efv-fb		• Canola	• Camelina	
f-f-f-f		• Grass	• White mustard	• Cress

FLEX SEEDING SHAFTS

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

TYPE	PHOTO	RELIABLE METERING OF THE FOLLOWING SEEDS		
fb-Flex10-fb-fb		• Seed mixtures	• Buckwheat • Vetch	
fb-Flex20-fb		• Seed mixtures • Cereals	• Lupin • Vetch	• Peas • Beans
Flex40		• Seed mixtures • Cereals	• Lupin • Vetch	• Peas • Beans

FAN

We recommend different types of fans for different applications. The fans differ in air output, connection requirements (electrical system or hydraulic system) and price.

- The PS 120–500 can always be equipped with all three types of fans - the electric fan, the hydraulic fan, and the PTO shaft fan. We recommend that you consult with our sales staff or sales partners to determine suitability of the specific fans for your applications.
- For the PS 800–1600, we offer an even more powerful hydraulic fan as standard equipment.¹

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

ELECTRIC FAN²

The electric fan is the basic version. It is suitable for spreading over small working widths. The advantage of the electric fan is that it does not require any hydraulic connection, and the seeder has a lower net weight, therefore making it easier to install.

Fan power: max. 3.5 kg/min³



ELECTRIC FAN PLUS

The electric fan PLUS was developed to make the Pneumatic Seeders even more powerful and yet compact. In terms of performance, it is more than twice as powerful as the electric fan. This makes it possible, for example, to apply fine seeds (mustard, phacelia, oil radish, grass, ...) over a working width of up to 12 m.

Fan power: max. 8 kg/min³



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 for high spread rates.

Max. required pressure: 180 bar

Max. required oil quantity: 38 l/min

Fan power: PS 120–500: max. 14 kg/min³

PS 800–1600: max. 30 kg/min³



CALCULATION FORMULA

$$\frac{\text{Working width m} \times \text{speed km/h} \times \text{application rate kg/ha}}{600} = \text{kg/min}$$

¹ Due to the special requirements of the PS 800 / PS 1100 and PS 1600, only the hydraulic fan can be used here.

² The electric fan is a powerful double fan.

³ Maximum values for standard applications and proper mounting

SENSORS

To take advantage of all of the functions of your Pneumatic Seeder, we offer a wide selection of sensors as accessories.
Selection of the right sensor depends on different factors. Our experts would be pleased to help you decide on the sensor that is best for your requirements.

SPEED SENSORS

Speed sensors transmit your forward speed to the Control Box¹. Based on this information, the controller automatically adapts the spread rate to the forward speed.

Select from the following sensors depending on your requirements:

- GPSa sensor
- MX 35 radar sensor
- Wheel sensor
- 7-pin signal cable

SENSORS FOR HEADLAND MANAGEMENT

When you lift out your implement, this sensor transmits the information to the Control Box¹. The seeding shaft stops and will start automatically when the implement is again ready for operation.

Select from the following sensors depending on your requirements:

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

SENSORS FOR IMPLEMENT MONITORING

We offer implement sensors such as fill level sensors as well as fan speed sensors. These sensors make it possible to work with greater convenience.

- The **fill level sensor** tells you when the seed hopper is getting empty.
- The **fan speed sensor for the hydraulic fan** (installed on the hydraulic fan as standard equipment) continuously checks for proper speed of the hydraulic fan for your application.



7-pin signal cable



GPSa sensor



Linkage sensor top link



Wheel sensor

PS FOR SPECIAL APPLICATIONS

YOUR ADVANTAGES

- PS 120–500 are offered with 9–16 outlets
- On the PS 800-1600, we offer 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 800–1600)
- Custom adjustment: All components of the PS are adapted to the expanded outlets at the APV factory.
- Easy hose routing
- All quality standards are maintained

NOTE

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, since it is installed directly at the APV factory.

When buying, also seek advice on other possible areas of application.



¹ Control Box 5.2, 5.7, 6.2 or ISOBUS are required

DISTRIBUTION HEAD

12 / 24 / 32 / 36 / 48 OUTLETS

The APV Distribution Head offers greater flexibility in the number of outlets. It also extends the application range of Pneumatic Seeders. The accurate metering of the proven APV seeders is maintained. The Distribution Head also takes up less space than a Pneumatic Seeder, allowing the seeder to be mounted on the front of the tractor or on the machine's drawbar, for example. The Distribution Head can also be used for fertiliser due to its corrosion resistance.

TECHNICAL DATA

	DISTRIBUTION HEAD
Working width	1–24 m (1 Distribution Head for maximum 6 m working width)
Diameter of riser pipe and PS outlet	75 mm or 110 mm
Diameter of the outlets	12; 24; 32; 36 outlets: 25 mm (1 inch) 48 outlets: 19 mm (3/4 inch)
Dimensions	H 800 mm / W 270-580 mm
Required fan type of the PS	hydraulic

⚠ One single-acting control unit and pressureless return required for Pneumatic Seeders!

⚠ FFor 64 outlets, 2x32 Distribution Heads are used (only for PS 800-1600).

POSSIBLE COMBINATIONS DISTRIBUTION HEAD

DISTRIBUTION HEAD SETS ¹	MAX. NUMBER OF POSSIBLE DISTRIBUTION HEADS	
	PS 120–500 H	PS 800–1600
Set APV Distribution Head 12 outlets D110 riser pipe	1	2
Set APV Distribution Head 12 outlets D75 riser pipe	2	4
Set APV Distribution Head 24 outlets	1	2
Set APV Distribution Head 32 outlets	1	2
Set APV Distribution Head 36 outlets	1	2
Set APV Distribution Head 48 outlets (3/4“-outlets) ²	1	2

ADVANTAGES

- Individual number of outlets from 6 - 64
- High flexibility for the mounting of the seeder
- Front tank applications possible
- Distribution coefficient in the range of well-known seed drill manufacturers
- Exact metering of the APV seeders
- Can apply fine to large seeds and fertiliser
- Cost effective alternative to pneumatic seed drills
- Simple implementation of tine seeders possible

APPLICATIONS

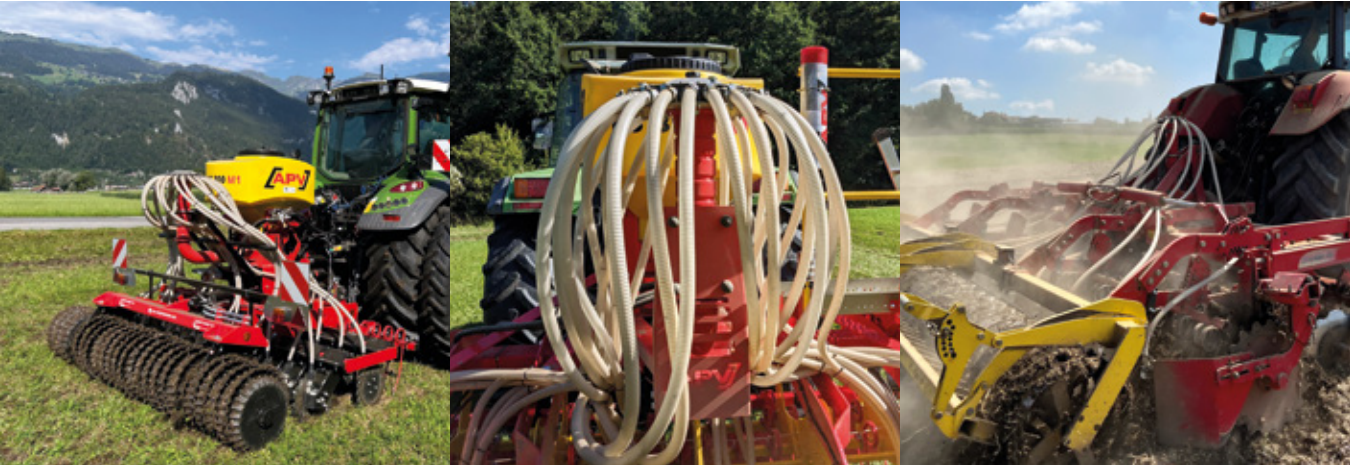
- Cover crop seeding with dispersion plates
- Cover crops placed behind cultivator coulters → deeper placement, especially with large seeds
- Micro-granules placed directly in the furrow at the time of seeding (drilling or precision seeding)
- Fertiliser placement in row crops
- Nurse crop application during hoeing or harrowing
- Front tank applications
- Alternative to pneumatic seed drills
 - Grain seeding
 - Canola seeding
 - Legume seeding

EXAMPEL

Mr / Mrs Johnson would like to place a seeder on their cultivator with 44 tines and place seed behind each tine. For this purpose he/she would like to obtain sowing shoes from APV.

Mr / Mrs Johnson orders the following:

- PS 800 configured with outlet 16-2 D110
- 2 pcs. set Distribution Head 24 outlets (= 48 outlets)
- 4 pcs. 1“ blind plates (for each Distribution Head 2 outlets are blanking opposite each other)
- Hose D 110 (by the metre as required)
- 4 rolls of 1“ hose each 25 m
- 44 sowing shoe kits
- Fixing material as required: riser pipe bracket, tube D110 3,3 m + bracket, hose tensioning



¹ Set includes: Distribution Head, 90° bend, riser pipe + U bracket for mounting, hose clamps

² Especially for row dependent applications (e.g. micro granules)

STEP BY STEP GUIDE



1. You need a Pneumatic Seeder with hydraulic fan!

2.	OUTLETS PS DISTRIBUTION HEAD ¹	POSSIBLE COMBINATION	
		PS 120-500 H	PS 800-1600
	Accessory kit outlet 8-1 D110	X	
	Accessory kit outlet 8-2 D75	X	
	Accessory kit outlet 16-1 D110		X
	Accessory kit outlet 16-2 D110		X
	Accessory kit outlet 16-4 D75		X

3.	CONVEYOR LINE FROM PNEUMATIC SEEDER TO DISTRIBUTION HEAD
	Hose D110
	Hose PUR D75
	Accessory kit D110 1.65 m tube + bracket
	Accessory kit D110 3.3 m tube + bracket
	Accessory kit D110 pipe 5 m + bracket

4.	DISTRIBUTION HEAD SETS ²	OUTLETS (NUMBER)	Ø HOSE (MM)	
			HP	DISTRIBUTION HEAD
	Set APV Distribution Head 12 D110	12	110	25,4 mm (1")
	Set APV Distribution Head 12 D75	12	75	25,4 mm (1")
	Set APV Distribution Head 24 D110	24	110	25,4 mm (1")
	Set APV Distribution Head 32 D110	32	110	25,4 mm (1")
	Set APV Distribution Head 36 D110	36	110	25,4 mm (1")
	Set APV Distribution Head 48 (3/4") ³	48	110	19 mm (3/4")

5.	ACCESSORIES
	1 roll of 1" (25 m) hose
	1" (25 mm) blanking plate
	1 roll of 3/4" (25m) hose
	3/4" (19 mm) blind plate
	Accessory kit riser pipe bracket
	Accessory kit tensioning kit (tensioning ropes for hose laying)
	Sowing shoe kit (for tine seeding)

⚠ IMPORTANT: For the configuration of a Pneumatic Seeder „PS with transition Distribution Head“, please contact your APV sales representative, we will be pleased to answer your special requests!

- ⚠** The following can be selected for the configured PS:
- Which hopper size should the Pneumatic Seeder have?
 - Number of outlets?
 - With or without hexagonal bar or counter plate?
 - Which seeding shafts?
 - Hoses, dispersion plates, hexagonal bars must be ordered separately as required!



24 ¹ Conversion kits for existing Pneumatic Seeders
² Set includes: Distribution Head, 90° bend, riser pipe + U bracket for mounting, hose clamps
³ Especially for row-dependent applications (e.g.: microgranules)

OTHER ACCESSORIES

CALIBRATION BUTTON¹

Use the integrated magnets to attach the calibration button at the position you desire. **Your advantage:** Perform the calibration test and residual emptying directly at the implement. With the calibration button you decide for yourself how long the calibration test will run.



FILL LEVEL SENSOR FOR PS²

The fill level sensor triggers an alarm on the Control Box if there is not enough seed/fertilizer in the hopper. **Your advantage:** You are informed in due time that you must refill the hopper with the seed/fertilizer.



HOSE COUPLER

Our quick-lock system is used to swap out the PS and several soil tillage implements.

Your advantage: It can be dismantled without tools.



AIR SEPARATOR AIR GUARD

This adjustable air separator ensures that the airflow is separated and that fertilizer / micro granulate is securely deposited at the desired location and remains there (i.e., it is no longer blown out of the furrow). **Your advantage:** Safely and gently deposit your fertilizer.



Y-DISTRIBUTOR SMOOTH

The Y-distributor is mounted to divide a hose. It ensures that the seed is homogeneously mixed and optimally divided among the two hoses for further transport.

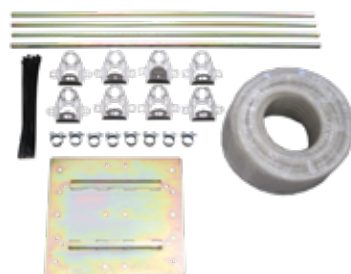
Your advantage: Precise lateral distribution in spite of splitting the hoses.



ACCESSORIES KIT FOR PS

The accessories kit contains the most important parts for mounting a PS 120 - PS 500 on another soil tillage implement.

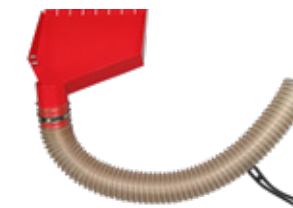
Your advantage: This means you do not always have to mount and dismount these parts.



OTHER ACCESSORIES

CALIBRATION SLIDE

The calibration slide with a hose facilitates the calibration test and residual emptying of the PS hopper at locations where access is difficult. **Your advantage:** Easy calibration test



RETROFITTING THE 3-PIN STANDARD SOCKET¹

The 8 m cable is bolted directly on the terminals on the battery side, and on the other side, a 3-pin standard socket is mounted on the tractor¹, which is permanently installed in the tractor. **Your advantage:** This makes it easier to dismount and mount implements with a 3-pin standard plug.



MODULAR PLATFORM KIT

This kit allows you to retrofit a platform and a ladder on your soil tillage implement. **Your advantage:** Convenient seeder access.



UNIVERSAL MOUNTING AND PLATFORM KIT

This bracket for disk spreaders, multi-metering systems, and Pneumatic Seeders is installed on the rearmost cross beam of the soil tillage implement so that the spreader can be mounted. This mounting kit includes a platform plus ladder and a bracket with adjustable angle for mounting a disk spreader, multi-metering system, or PS 120–500 Pneumatic Seeder (with electr. or hydr. fan).

Your advantage: The spreader can be used, even if there is no space to mount it on the soil tillage implement.



CONTROL BOX BRACKET

The Control Box bracket can be mounted on an existing Müller bracket (tube). **Your advantage:** Optimum fastening of the Control Box on your tractor.





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FRONT FRAME

Simple assembly of the Pneumatic Seeder at the three-point linkage.
Optionally with seed bar and 600 kg additional weight.

AMBITION. PASSION. VISION.

