

APV PNEUMATIC SEEDERS

FERTILIZER EDITION



Version: 6.0 EN / Item.No.: 00230-3-001027

AMBITION. PASSION. VISION.



THE APV FERTILIZER EXPERTS

The Pneumatic Seeders of the Fertilizer Edition leave nothing to be desired, because you can put together your professional equipment according to your individual requirements. With our wide range of hopper sizes, seeding shafts and fan types, we deliver solutions to suit your needs and budget. Due to their non-corrosive design, you also benefit during fertilizer distribution from the advantages and the easy handling of our PS units.

PS 120 D / PS 200 D / PS 300 D / PS 500 D

These non-corrosive “tiny models” are professional seeders to be used in small and medium enterprises. They essentially differ from each other in terms of hopper size. This makes them ideal for use in confined spaces. Due to their compactness, they also have a lighter weight effect on soil cultivation equipment and seeders. The bigger the hopper, the greater the time saving, as it does not need to be refilled so often. The devices are versatile and equipped for almost any application.

PS 800 D / PS 1600 D

The implement features an enormous hopper volume. All components are perfectly adapted for intensive use. This type of seeder is equipped with 16 outlets, a strong hydraulic fan and a steel hopper, as well as many other extras. This also enables you to apply high seed rates per hectare. The spreading material passes from the seed hopper into the air duct via the electrically controlled seeding shaft. This is where the spreading material is conveyed to the baffle plates via plastic hoses with the aid of the fan and distributed evenly and close to the ground. This enables precise spreading even in windy conditions.

PS 300 D TWIN / PS 500 D TWIN

The PS TWIN enables you to seed two completely different types of seed using a single machine. The hopper is divided by a partition with a 50:50 or 70:30 ratio. The Control Box 5.7 controls each seeding shaft side separately, which means the spread rate is kept constant.

The PS contains a split seeding shaft, which is driven by two independent gearbox motors. It is possible to equip one half of the seeding shaft with fine seed wheels and the other half with coarse seed wheels. This allows two seeds of different sizes to be precisely applied in different quantities. The air valves make it possible to adjust the air volume to the different seeds. Control Box 5.7 allows each half of the seeding shaft to be controlled separately. This also allows for a calibration test for one half of each seeding shaft.

SMART TWIN

The SMART TWIN is controlled via ISOBUS and supports Section Control and Variable Rate Control functions. This means that it automatically adjusts the application rate according to the soil zones and driving speed, ensuring that seed, fertiliser or microgranules are deposited exactly where they are needed.

Thanks to its split seeding shaft, the SMART TWIN enables precise metering and half-width control, for example on wedges, edge areas or at headlands. When used with application maps, it enables truly site-specific sowing. This is ideal for converting the accuracy of the steering system into increased yields and preventing spillage.



	PS 120 D	PS 200 D	PS 300 D	PS 500 D	PS 800 D	PS 1600 D	PS 300 D TWIN	PS 500 D TWIN
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*	up to 12 m*
Outlets freely selectable up to	16 ¹	16 ¹	16 ¹	16 ¹	32 ²	32 ²	16 ¹	16 ^{1e}
Electr. fan / electr. fan PLUS / hydraulic fan	x / x / -	x / x / x	x / x / x	x / x / x	- / - / x	- / - / x	x / x / x	x / x / x
Dimensions electr. fan / electr. fan PLUS / hydraulic fan (height / width / depth in cm)	90 x 60 x 80 90 x 60 x 86 -	100 x 70 x 90 100 x 70 x 90 100 x 70 x 110	110 x 80 x 100 110 x 80 x 100 110 x 80 x 115	125 x 80 x 120 125 x 80 x 120 125 x 80 x 125	- - 125 x 100 x 170	- - 165 x 110 x 220	105 x 75 x 100 105 x 75 x 100 105 x 70 x 115	125 x 80 x 120 125 x 80 x 120 125 x 80 x 125
Hopper (in liters)	120	200	300	500	800	1.600	300	500
Net weight, electr. fan / electr. fan PLUS / hydr. fan (in kg)	45 / 53 / -	60 / 68 / 83	70 / 78 / 93	100 / 108 / 123	- / - / 250	- / - / 470	100 / 108 / 123	120 / 125 / 143
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 / 40 A	12 V / 40 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	180 bar
Max. required oil quantity	-	38 l / min	38 l / min	38 l / min	38 l / min	38 l / min	38 l / min	38 l / min
Complete corrosion-resistant seeder with hose system (25 m / 75 m)	x / -	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	x / x
6 m cable from the seeder to the Control Box	x	x	x	x	x	x	x	x
Corrosion resistant calibration slide, calibration bag, contra plate (galvanized), seed scale	x	x	x	x	x	x	x	x
Stainless steel agitator	x	x	x	x	x	x	x	x
Display and monitoring of the fan speed on the hydr. fan		x	x	x	x	x	x	x
Non-corrosive dispersion plates	x	x	x	x	x	x	x	x
Galvanized hexagonal bars, 4 units / 8 units	x / -	x / -	x / -	x / -	- / x	- / x	x / -	x / -
Fill level sensor	optional (x)	optional (x)	optional (x)	x	x	x	x	x
Foreign object sieve					x	x		
Crane straps for easier handling when mounting					x	x		
Calibration button, optional	x	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		
Mounting kit for top link, optional	x	x	x	x				
Sensor system ³ , optional	x	x	x	x	x	x	x	x

* When using the electr. fan PLUS and the hydr. fan

¹ optional (8 outlets with 8 Y-dividers (see page 14) or doubling pieces (see page 12) available as accessories)

² optional (16 outlets with 16 Y-dividers (see page 14) or doubling pieces (see page 12) available as accessories)

³ For use with Control Box 5.2, 5.7, EasyControl and ISOBUS

CONTROL BOX

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

Control Box 5.7 completes the PS TWIN and allows the separate control of two seeding shafts. With the same type of functioning, Control Box 5.7 also offers the possibility to operate up to two APV seeders in parallel and independently of each other with an additional adapter cable. In order to complete the package of the multitasking control box, the control is compatible and can be combined with any sensors.

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	ISOBUS ¹	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/m ²		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 control of up to two seeding shafts and one electric fan (PS TWIN)				x	x	x
Parallel operation of up to two APV seeders independently of each other with an electric or hydraulic fan				x	x	x
Section Control: Automatic seeding shaft shut-off depending on the GPS position ²					x	
Variable Rate Control: Spread rate is regulated according to an application map					x	
SCOPE OF DELIVERY WITH ACCESSORIES KIT						
Control Box	1.2	5.2	EASY CONTROL	5.7	ISOBUS ¹	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 D – 1600 D			x		x	x
SMART TWIN 120 – SMART TWIN 500					x	x
PS 300 D TWIN – PS 500 D TWIN				x	x	x
Use of two Pneumatic Seeders				x	x	x

¹ Display is not included in the scope of delivery!

² Depending on the tractor equipment

SEEDING SHAFT

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.



PS FERTILIZER EDITION

TYPE	PHOTO	RELIABLE METERING OF THE FOLLOWING SEEDS		
fb-f-fb-fb ¹		• White mustard	• Phacelia	• Microgranules
fb-Flex20-fb ¹		• Peas	• Beans	• Fertilizer
fb-fv-fv-fb		• Clover	• Cress	• Microgranules
fb-efv-efv-fb		• Canola	• Poppy	• Leindotter
f-f-f-f		• Grass	• White mustard	• Cress
fb-fb-Flex10-fb		• Microgranules • Fertilizer	• Buckwheat	• Vetch
Flex40		• Fertilizer	• Cereals	• Peas

PS TWIN / SMART TWIN

TYPE	PHOTO	RELIABLE METERING OF THE FOLLOWING SEEDS		
fb-f-fb-fb TWIN ²		• White mustard • Clover	• Phacelia	• Microgranules
fb-Flex20-fb ²		• Cereals	• Beans	• Fertilizer
fb-f-fb-fb + fb-Flex20-fb ³		• Mustard or microgranules + peas or fertiliser		
fb-Flex10-fb-fb TWIN		• Microgranules • Fertilizer	• Buckwheat	• Vetch
fb-f + Flex20 TWIN ⁴		• Mustard or microgranules + peas or fertiliser		

FAN

Je nach Einsatzart empfehlen wir Ihnen unterschiedliche Gebläsearten. Diese unterscheiden sich in der Luftleistung und den Anforderungen des Anschlusses (elektrisch oder hydraulisch).

- The PS 120–500 can always be equipped with all three types of fans - the electric fan, the electric fan PLUS and the hydraulic 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

Below you will find an overview of the functions of individual fans.

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 seed drill 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 ventilation system performance of the electric fan is too low, then the hydraulic fan is the right choice. It is recommended for spreading on large working widths or for large spread rates.

Max. required pressure: 180 bar

Max. required oil quantity: 38 l/min

Fan power: PS 200–500: max. 14 kg/min³
PS 800–1600: max. 30 kg/min³



CHOOSING THE RIGHT FAN

Calculate the application rate per minute and use the calculated value to find out whether you need a Pneumatic Seeder with electric or hydraulic fan.⁴

Working width m x speed km/h x application rate kg/ha
600 = kg/min

¹ Included in the scope of delivery

² Included as standard on the PS 300 D TWIN & SMART TWIN models

³ Included as standard on the PS 500 D TWIN (with 70:30 tank split) model

⁴ For the PS TWIN with 16 outlets

¹ Due to the special requirements of the PS 800 D and PS 1600 D, 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

⁴ For heavy seeds (beans, peas, wheat, fertiliser) always use a hydraulic fan!

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 D 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

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

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

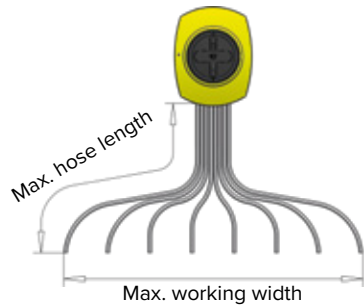
The Johnson family wants to spread 45 kg/ha of a cover crop mixture at a speed of 10 km/h, the Pneumatic Seeder will be mounted on a 6 m cultivator.

Calculation:
$$\frac{6 \text{ m} \times 10 \text{ km/h} \times 45 \text{ kg/ha}}{600} = 4.5 \text{ kg/min}$$

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

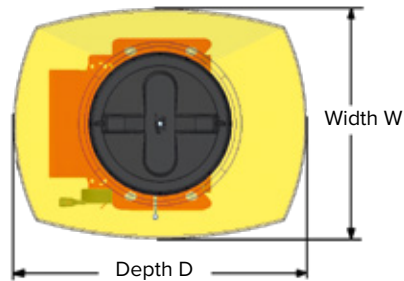
SELECTION OF THE RIGHT HOPPER SIZE

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 mit MT2	225 x 220 x 150	800 kg
PS 300 D TWIN + elec. fan / PLUS	105 x 75 x 100	100 kg / 108 kg
PS 300 D TWIN + hydr. fan	105 x 75 x 115	123 kg
PS 500 D TWIN + elec. fan / PLUS	125 x 80 x 120	120 – 125 kg
PS 500 D TWIN + hydr. fan	125 x 80 x 125	143 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!

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

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)

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

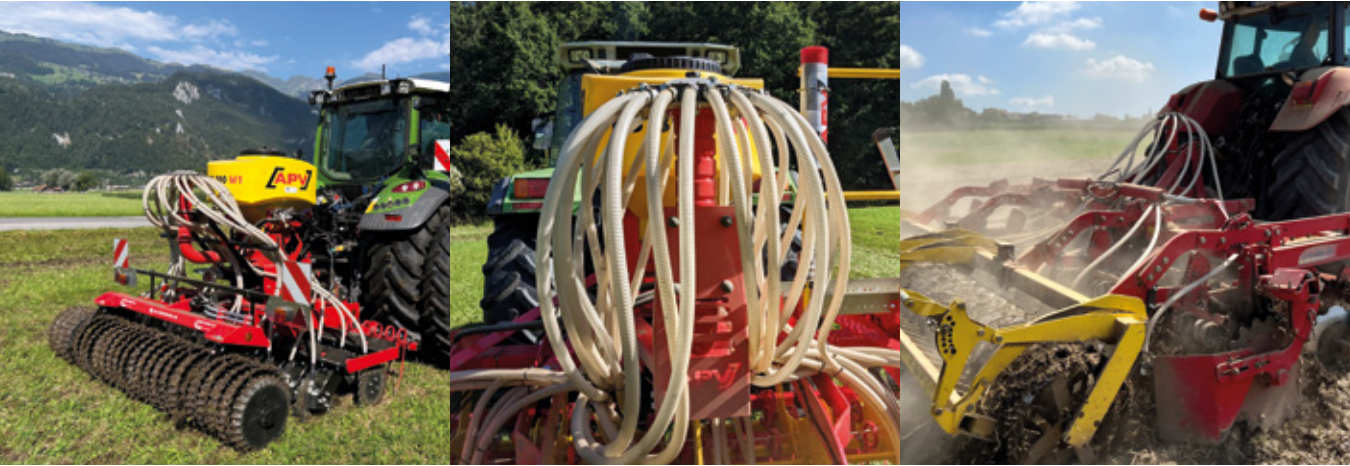
- Cover crop seeding with dispersion plates
- Cover crops placed behind cultivator coulters → deeper placement, especially with large seeds
- Micro-granules placed directly in the furrow at the time of seeding (drilling or precision seeding)
- Fertiliser placement in row crops
- Nurse crop application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

EXAMPLE

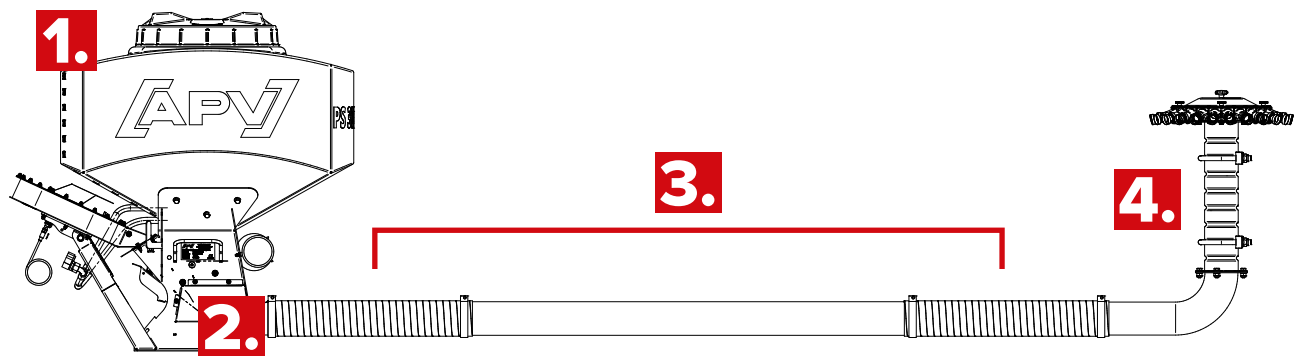
Mr / Mrs Johnson would like to place a seeder on their cultivator with 44 tines and place seed behind each tine. For this purpose he/she would like to obtain sowing shoes from APV.

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



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!



14 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)

PS FOR SPECIAL APPLICATIONS

The “PS for special applications” expands the hose outlets of your PS. Users can only get it when purchasing a new PS, as the entire seeder is adapted to the extension of the outlets. This is how we guarantee exact metering and best lateral distribution.

YOUR BENEFITS

- The PS 120-500 is available with 9 - 16 outlets
- With the PS 800 and PS 1600 we offer doubling from 16 to 32 outlets
- Precise seed lateral distribution on large working widths
- Precise placement of the seed
- Direct metering of the seed in up to 16 seeding blades¹ (PS 120-500) and up to 32 seeding blades (PS 800-1600)
- Individual adjustment: All PS components are adjusted for the extended outflows in the APV factory
- Easy hose system
- All quality standards remain in place

NOTE

Pneumatic Seeders for special applications

- are not suitable for large and heavy seeds (e.g. peas, beans).
- can only be acquired when purchasing a new seeder, as the configuration is directly adjusted in the APV factory.

When buying, ask for advice regarding the other planned applications.



SENSORS

So that you can fully harness the entire functions of your Pneumatic Seeder, we offer a wide range of sensors as accessories. Choosing the right sensor depends on various factors. Allow our experts to guide you in the selection of a matching sensor.

SPEED SENSORS

Speed sensors transmit your travel speed to the control box¹. Based on this information, the control box adjusts the spread rate automatically to the travel speed.

Depending on your needs, you may choose from the following sensors:

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

SENSORS FOR HEADLAND MANAGEMENT

When you lift your machine, this sensor automatically transmits this information to the control box¹. The seeding shaft stops and starts automatically when the machine is ready for operation again.

Depending on your needs, you may choose from the following sensors:

- 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 the fill level sensor and the fan speed sensor. These allow you to work more comfortably.

- The **fill level sensor** tells you when the seed hopper is running empty.
- The **fan speed sensor for hydraulic fans** continuously checks the right speed of the hydraulic fan for your application.



7-pin signal cable



GPSa sensor



Linkage sensor top link



Wheel sensor

ADDITIONAL ACCESSORIES

CALIBRATION BUTTON¹

Affix the calibration button with the integrated magnet in your desired position. **Your benefit:** Execute the calibration test and the hopper discharge directly on the machine. With the calibration button you can decide the duration of the calibration test.



FILL LEVEL SENSOR FOR PS²

The fill level sensor triggers an alarm on the control box if there are too few seeds or if there is too little fertilizer in the hopper. **Your benefit:** You will be alerted in a timely manner that the seed / fertilizer needs to be refilled.



HOSE COUPLER

Our quick connection system is used in order to switch the PS between several soil tillage implements. **Your benefit:** The separation process can be done without tools.



AIR SEPARATOR AIR GUARD

This adjustable air separator makes sure that the air flow is separated and fertilizer / micro granules are securely placed in the desired location and also stay there (they are no longer blown out of the channel). **Your benefit:** Safe and careful placement of your fertilizer.



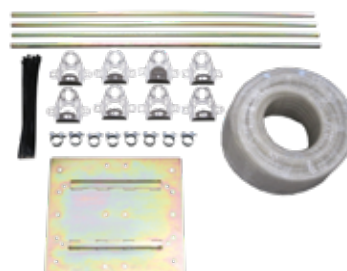
Y-DIVIDER SMOOTH

The Y-divider is installed in order to split a hose. It provides a homogeneous mix of the seed and an optimal distribution on the two other hoses. **Your benefit:** Obtain precise lateral distribution despite the splitting of the hoses.



ACCESSORIES KIT FOR PS

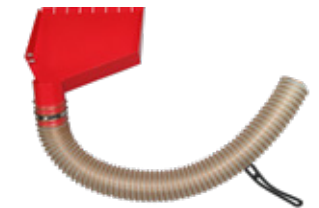
The accessories kit contains the key parts for mounting the PS 120 - 500 on a second soil tillage implement. **Your benefit:** This means that these parts do not need to be dismantled and assembled.



ADDITIONAL ACCESSORIES

CALIBRATION SLIDE

The calibration slide with hose simplifies the calibration test and the residual evacuation of the PS hopper in places that are difficult to access. **Your benefit:** Simple calibration test



SUBSEQUENT INSTALLATION OF THE 3-PIN STANDARD PLUG¹

The 8 m cable is screwed on the battery side directly with the battery poles and a 3-pin standard plug is mounted on the tractor at the other end, which can be installed permanently in the tractor. **Your benefit:** This simplifies the dismantling and assembly of implements with a 3-pin standard plug.



PLATFORM KIT MODULAR

This kit allows you to retrofit a platform including a ladder on your soil tillage implement. **Your benefit:** You can conveniently access your seeder.



MOUNTING AND PLATFORM KIT UNIVERSAL

This bracket for Disc Spreaders, Multi-Metering Systems and Pneumatic Seeders is mounted on the rearmost crossbar of the soil tillage implement so that the spreader can be assembled. The mounting kit includes a platform with access ladder and an angle-adjustable bracket for mounting a Disc Spreader, a Multi-Metering System or a Pneumatic Seeder PS 120 - 500 (with electric or hydraulic fan). **Your benefit:** Use your spreader 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 already existing Müller bracket (pipe). **Your benefit:** Optimal fixing of the control box on your tractor.





APV Technische Produkte GmbH
Dallein 62
3753 Hötzelstdorf
Austria

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



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