

APV GRASSLAND PRO HARROW GP

PERFECT EFFICIENCY IN RESEEDING



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AMBITION. PASSION. VISION.



GROWTH IS THE WAY.

GROWING SINCE 1997

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

As an innovative company, naturally APV desires to play an important role on the market with its products. Together with customers around the world, APV refines its products on an ongoing basis.

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



At the Dallein site in Waldviertel in Lower Austria, approximately 170 employees make a significant contribution towards preserving the environment

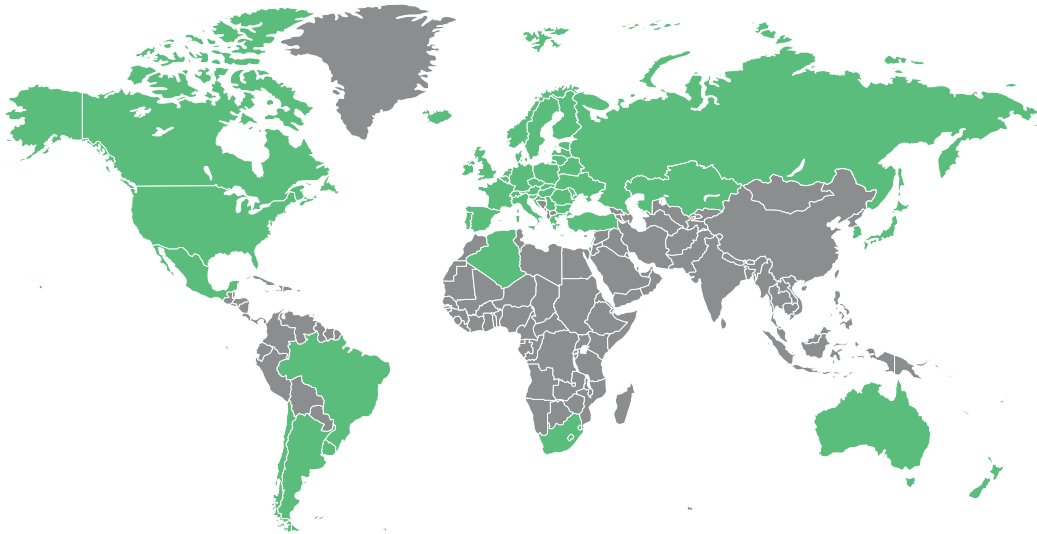


AND THE GOAL.

GROWTH KNOWS NO LIMITS

Over the years, the APV Team has fostered a consistent, unbroken drive for achievement; today the enterprise is a presence on the international market. There are APV locations and own sales subsidiaries in Poland, Romania, Russia, Germany, Brazil, Turkey

and the USA. Our network of APV contract partners in over 50 countries assures that our customers enjoy the highest level of service competence.



A PASSION FOR GROWTH

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



GRASSLAND PRO HARROW GP

GRASSLAND RENEWAL

Grassland maintenance and renewal are the cornerstone of high quality forage. With the Grassland Pro Harrow you are equipped for both a smooth and a very intensive cultivation of your land. The GP 300 M1 is the perfect machine for grassland renewal in intensive cultivation. The Grassland Pro Harrow is particularly attractive for larger farms, but also for inter-farm use. Thanks to its flexibility, the GP can be used more often during the year.

THIS IS HOW THE GRASSLAND PRO HARROW WORKS

With the Grassland Pro Harrow, you complete all work steps of grassland maintenance with just one pass. It combines a harrow and roller in one. The spring-mounted leveling plate levels molehills and distributes the soil evenly. This „preliminary work“ allows the tines to work optimally, combing out weeds and tangles and aerating the turf. With the seeder you sow the optimal reseeding mixture for your conditions into the opened soil and the following roller presses the seed into the soil.

THE MOST EFFICIENT METHOD OF RESEEDING

The Grassland Pro Harrow is characterised by four rows of tines. The 12 mm thick tines in the first two rows and the possibility to let the weight of the roller act on the tines, aggressive work for weeding out old grass or large amounts of weeds and unweeds is possible.

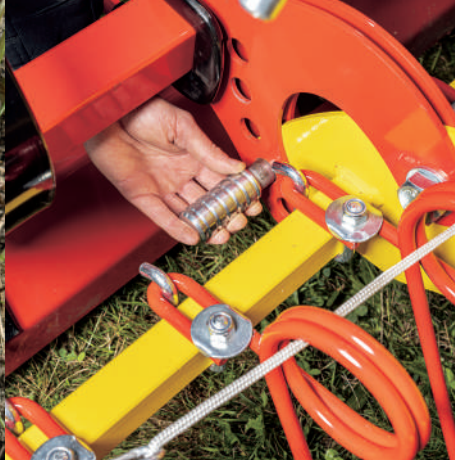
Take advantage of the numerous tine adjustment options: from intensive to smooth. Thanks to the GP's wide range of settings, you are equipped for every application when using the machine across farms. From smooth overseeding to intensive grassland renovation, depending on the existing plant stock and customer requirements.

MAKE USE OF THE MULTIPLE BENEFITS!

The Grassland Pro Harrow is the most efficient method of reseeding in crop farming.

- Achieve a perfect result. The APV Grassland Pro Harrow impresses with its unique combination of two rows of 12 mm and two rows of 8 mm cranked spring tines.
- Versatile use from gentle cultivation to aggressive cultivation and use on the field.
- 100 % product competence: The Grassland Pro Harrow was developed and is also manufactured at the main site in Dallein (Austria):
 - All components are perfectly adjusted to each other
 - Benefit from the competent service provided by APV employees
- Combine the operations of leveling, pulling out, seeding¹, harrowing and rolling
- Also ideally suited for inter-farm use

¹ In combination with a Pneumatic Seeder PS from APV in the Full Edition.



PERFECT EFFICIENCY

GP 300 M1

The special feature of the Grassland Pro Harrow are the four rows of tines. It is suitable for gentle tillage, aeration and stimulation of growth. The possibility to also work extremely intensively makes the GP unique. The tine thickness of 12 mm and the high tine pressure created

by the weight of the roller, make it the professional machine for reseeding, new seeding and meadow maintenance. To use the Grassland Pro Harrow efficiently, we recommend combining it with a Pneumatic Seeder PS from APV (see Full Edition).

When fully equipped, the scope of delivery of the GP 300 M1 includes:

- Cambridge or toothed ring roller
- Spring-mounted leveling plate
- Warning signs and LED lighting
- Platform kit
- Pneumatic Seeder PS 300 M1 with electric fan
- Control Box 5.2
- Sensor set: GPSa sensor + linkage sensor top link

GP 600 M2

The GP 600 M2 grassland Pro Harrow is ideal for large-scale meadow maintenance, reseeding and new seeding of grasses. The unique combination of strong 12 mm tines and 8 mm tines ensures optimum tillage of the sward. The GP 600 M2 is also popular for inter-farm use and is equipped with a PS pneumatic seeder from APV for efficient use of the GP.

When fully equipped, the scope of delivery of the GP 600 M2 includes:

- Cambridge or toothed ring roller
- Spring-mounted leveling plate
- Warning signs and LED lighting
- Platform kit
- Pneumatic Seeder PS 300 M1 with electric fan
- Control Box 5.2
- Sensor set: PSa sensor + linkage sensor top link

- Equipment for use in public transport (LED lighting, air brake, harrow field cover, wheel covers, wheel chocks, parking brake, anti-theft device).







500 M2

GP 600 M2

	GP 300 M1	GP 600 M2
Working width	3 m	6 m
Transport dimensions (with seeder) in m (H x W x D)	2,30 x 3,00 x 2,36	3,60 x 3,00 x 5,70
Weight (Cambridge roller 390 mm), Full Edition	1.355 kg	-
Weight (Cambridge roller 530 mm), Full Edition	1.665 kg	4.900 kg
Weight (Toothed ring roller 410 mm), Full Edition	1.765 kg	4.850 kg
Line distance	75 mm (12-mm-tines / 50 mm (8-mm-tines)	
Number of tines	40 Stück (12-mm-tines) 60 Stück (8-mm-tines)	80 Stück (12-mm-tines) 120 Stück (8-mm-tines)
Mounting category	CAT 2 (CAT 3 mast height)	KAT 3N
Tractor power	65 kW / 90 PS and higher	100 kW / 136 PS
Number of control units required	1 double-acting	3 double acting
Brake	-	2 ladder pneumatic brake
Optional		
Warning signs and LED lighting	x	x
Sensor set: GPSa sensor + linkage sensor top link	x	
Sensor set: GPSa sensor + sensor lifting gear hydraulics		x
Platform Kit	x	x
Structure pneumatic seeder	x	x
Baffle plate mounting	x	x
Mounting kit feeler wheels rear incl. change tools		x
Toolbox accessories	x	x

Special configuration options for GP 600 M2	
Tine arrangement, optional	3 rows 12 mm tines or 4 rows 8 mm tines
Tires, optional	400-60-15,5"
Saw assembly	PS 300 M1, PS 500 M2 oder PS 800 M1



TECHNICAL PERFECTION

LEVELING PLATE

Level grassland for optimal cultivation

- The height of the spring-loaded levelling plate is conveniently adjusted via a hook (GP 300) or via a crank (GP 600) and fixed via bolts in a perforated bar.
- The leveling plate is used to level molehills or other unevenness.

SHAPE AND THICKNESS OF THE TINES

Freely adjustable harrow results

- The front two rows of tines (cranked 12 mm spring tines) rip up the turf and remove unwanted grasses, matting and moss.
- The rear two rows of tines (cranked 8 mm spring tines) separate the soil from the harrowed material, work seed into the soil and produce a fine soil fraction (soil contact for the seed).

ADJUSTMENT OF THE TINES¹

Gentle or aggressive machining

- The aggressiveness of the front tines is adjusted by means of the sliding block adjustment by means of pins (on GP 300) or each row individually by means of a perforated grid and spring-loaded lever (on GP 600). The working pattern of the rear rows of tines is adjusted via a perforated strip with bolts.

Our recommendation:

For aggressive tillage on hard surfaces, select a steep tine inclination. For light tillage, select a flat tine inclination, which gives the tine more freedom of movement.

ROLLER ADJUSTMENT

Fine adjustment of contact pressure

- The depth control and the adjustment of the contact pressure of the tines are carried out via the lower links of the tractor and the trailing roller of the GP. Via the hydraulic cylinder on the roller, it can be conveniently adjusted while driving.

POSSIBLE COMBINATIONS

Combination with your pneumatic seeder

- You can combine the APV Grassland Pro Harrow GP 300 M1 with the Pneumatic Seeders PS 120 M1 - PS 500 M2
- You can combine the APV GP 600 M2 with the pneumatic seeders PS 300 M1 - PS 800 M1.



¹ For the removal of deep roots and large root balls, select a deep tine setting (=intensive harrowing) and for the removal of shallow roots and fine roots, select a shallow depth setting (=light harrowing).

APPLICATION AREAS

- Grassland maintenance and reseedling
- Grassland rehabilitation and renewal
- Regulation of weeds
- Stubble breaking and intercrop seeding in one operation
- Seedbed preparation
- Destruction of corn stubble after the silage corn harvest
- Sowing of different intercrops after harvesting of a main crop (also on cereal or corn stubble)

BENEFITS WITH THE GP 600 M2

- Compact like the tried-and-tested three-point linkage - powerful like a 6-m machine.
- The grassland Pro harrow has a fully sprung leveling plate to compensate for molehills or slight unevenness.
- This is followed by two rows of tines with cranked round spring tines in different thicknesses. This combination is unique in agricultural technology.
- 5-in-1 implement: levelling, pulling out, seeding, harrowing and rolling
- Can also be used in arable farming: intercropping, arable forage cultivation, seedbed preparation, destruction of corn stubble after corn harvesting
- Different roller types and various tine configurations are possible



ACCESSORIES

MOUNTING KIT FOR PS¹

The mounting option for the PS is already integrated into the machine frame of the GP 300 M1 and GP 600 M2.



PLATFORM KIT¹

For convenient access to the seeder, a suitable platform kit is available as an accessory.



DISPERSION PLATE ASSEMBLY¹

Fix the dispersion plates to a hollow profile (on the harrow or in front of the roller) at equal distances from each other. If you also order a PS, we will mount the dispersion plates on the harrow sections for you.



REAR DEPTH CONTROL WHEELS

If the GP 600 M2 is used without a roller, the roller can be removed in a few simple steps and feeler wheels are used instead of the roller



SENSOR SET¹

Sensor set for speed and linkage

For automatic stopping and starting of the seed shaft, we offer the sensor linkage top link, which is mounted on one of the two top link holes of the GP 300 M1. On the GP 600 M2, a hydraulic sensor is screwed into the hydraulic line of the roller.

This gives the signal for starting and stopping the seeding shaft at the headland.

For automatic stopping and starting of the seeding shaft we offer the linkage sensor top link, which is mounted on one of the two top link holes of the GP. The GPSa sensor, available in the set, is used for automatic adjustment of the seeding shaft speed to the actual travel speed.



WARNING SIGNS AND LED LIGHTING¹

Warning signs with LED lighting are available as accessories for safe driving.



¹ Included in GP 300 M1 Full Edition.



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