

GRASSLAND COMBI GK

LIGHTWEIGHT AND MANOEUVRABLE -
EVEN ON STEEP TERRAIN



OUR PRODUCTS

GRASSLAND COMBI GK



MORE IMPLEMENTS



TECHNICAL PROCEDURE



MORE INFO ONLINE

Our entire product range can also be found online at www.apv.at.

Our consultant is happy to advise you and is available to answer any questions you may have regarding our products!

GRASSLAND COMBI GK

GRASSLAND COMBI - THE PRODUCT INNOVATION

APV offers an innovation in the area of grassland management that many dairy farmers have always been wishing for: A grassland combination of harrow and roller that is lightweight and can also be divided. The innovation Grassland Combi "GK" consists of a two-row harrow with a levelling plate and a roller. Your advantage with APV: The harrow and roller can be used combined at the rear.



However, you can also use the two implements separately at the front and rear using the front mounting accessory. The trailing roller convinces separately too, e.g. for applications in arable farming. The Grassland Combination is available in two working widths (2.5 m and 3 m) and with 3 different roller types (Cambridge roller Ø 390 mm, Cambridge roller Ø 530 mm and toothed ring roller Ø 410 mm). Under practical conditions, the benefits of simultaneous reseeding of grass using APV seeders together with grassland cultivation implements have also been demonstrated (Pneumatic Seeders and Multi-Metering Systems).

FUNCTIONAL PRINCIPLE OF THE GRASSLAND COMBI

Coarse unevenness is eliminated with the levelling plate. Then the 2 harrow rows with the 12 mm tines produce an optimal seedbed for possible reseeding and at the same time, they comb the weeds out of the crop. With a mounted seeder, the seed is spread directly behind the harrow rows and in front of the roller. The last working step of pressing the seed down is then performed by the trailing roller.

GRASSLAND ROLLERS GW 250 M1 AND GW 300 M1

Cambridge rollers or toothed ring rollers from APV are the perfect implements for professional field and grassland operations, in order to selectively improve the soil contact and thus the seed germination. Both types of rollers are ideal for use in field and grassland operations and provide a good, crumbly seed bed structure as well as optimum recompacting. The grassland rollers can also be purchased separately. (see price list)

GK 250 M1

The Grassland Combi GK 250 M1 is very well suited for meadow cultivation, reseeding and the new seeding of grass, both on flat and steep terrain. The sward is optimally cultivated and the seed is directly pressed down by the unique combination of the thick 12 mm tines and the trailing roller. The GK 250 M1 is also often used for cross-farm operations. On steep terrain or with smaller tractors, there is the option of dividing the Grassland Combi.

TECHNICAL DATA

↗ Working width.	2,4 m
Transport dimensions	
✂ without PS	H 1.31 m, W 2.44 m, D 1.82 m
with PS	H 2.10 m, W 2.44 m, D 1.98 m
⚖ Weight (Cambridge roller 390 mm) (Full Edition).	990 kg
⚖ Weight (Cambridge roller 530 mm) (Full Edition).	1,160 kg
⚖ Weight (toothed ring roller 410 mm) (Full Edition)	1,260 kg
🔧 Attachment category.	CAT 2
🏎 Tractor performance.	55 kW / 75 HP

One double-acting control unit for folding required

ITEMS INCLUDED

- Complete implement with 2 harrow rows and roller
- Harrow rows with cranked 12 mm tines (33 units), optionally also with 10 mm tines
- Spring-mounted levelling plate
- Grassland Cambridge roller (Ø 390 mm or Ø 530 mm) or toothed ring roller (Ø 410 mm)
- Hydraulic roller cylinder
- Parking supports on harrow and roller
- Toolbox integrated into the roller frame

FULL EDITION

- Our Grassland Combi is also available fully equipped as a so-called "Full Edition". This includes:
- GK 250 M1 with harrow (12 mm tines) and with Cambridge or toothed ring roller
 - lighting
 - access platform
 - levelling plate
 - mounting of dispersion plates
 - Pneumatic Seeder PS 200 M1 with electric fan incl. Control Box 5.2
 - set of sensors: sensor GPSa + linkage sensor top link

YOUR BENEFITS

- The roller and harrow can be divided, fastened and mounted without tools
- Harrow at the front and roller at the rear achieves improved weight distribution. The centre of gravity lies close to the tractor.
- Combine the work passes (levelling, combing out, seeding, combing in and rolling), as you require.
- Infinitely variable adjustment of the pressure, depth and aggressiveness of the tines as well as the working depth of the roller.



⚠ You can configure your Grassland Combi from the basic machine with basic equipment. Please contact your APV consultant!



ACCESSORIES

- Operating hours counter
- Accessories for front mounting of the meadow harrow (for tractor and two-axle mower (Metrac))








Usable with Pneumatic Seeders with electric / hydraulic fan PS 120 M1, PS 200 M1 and PS 300 M1 or with Multi-Metering System MDP 100 M1.



GK 300 M1

The Grassland Combi GK 300 M1 is very well suited for meadow cultivation, reseeding and the new seeding of grass, both on flat and steep terrain. The sward is optimally cultivated and the seed is directly pressed down by the unique combination of the thick 12 mm tines and the trailing roller. The GK 300 M1 is also often used for cross-farm operations. On steep terrain or with smaller tractors, there is the option of dividing the Grassland Combi.

TECHNICAL DATA

	Working width.	3 m
	Transport dimensions	
	without PS	H 1.31 m, W 3.00 m, D 1.82 m
	with PS	H 2.10 m, W 3.00 m, D 1.98 m
	Weight (Cambridge roller 390 mm) (Full Edition).	1,110 kg
	Weight (Cambridge roller 530 mm) (Full Edition).	1,350 kg
	Weight (toothed ring roller 410 mm) (Full Edition)	1,450 kg
	Attachment category.	CAT 2
	Tractor performance.	66 kW / 90 HP

One double-acting control unit for folding required

ITEMS INCLUDED

- Complete implement with 2 harrow rows and roller
- Harrow rows with cranked 12 mm tines (41 units), optionally also with 10 mm tines
- Spring-mounted levelling plate
- Grassland Cambridge roller (Ø 390 mm or Ø 530 mm) or toothed ring roller (Ø 410 mm)
- Hydraulic roller cylinder
- Parking supports on harrow and roller
- Toolbox integrated into the roller frame

FULL EDITION

- Our Grassland Combi is also available fully equipped as a so-called "Full Edition". This includes:
- GK 300 M1 with harrow (12 mm tines) and with Cambridge or toothed ring roller
 - lighting
 - access platform
 - levelling plate
 - mounting of dispersion plates
 - Pneumatic Seeder PS 200 M1 with electric fan incl. Control Box 5.2
 - set of sensors: sensor GPSa + linkage sensor top link

YOUR BENEFITS

- The roller and harrow can be divided, fastened and mounted without tools
- Harrow at the front and roller at the rear achieves improved weight distribution. The centre of gravity lies close to the tractor.
- Combine the work passes (levelling, combing out, seeding, combing in and rolling), as you require.
- Infinitely variable adjustment of the pressure, depth and aggressiveness of the tines as well as the working depth of the roller.



⚠ You can configure your Grassland Combi from the basic machine with basic equipment. Please contact your APV consultant!



ACCESSORIES

- Operating hours counter
 - Accessories for front mounting of the meadow harrow (for tractor and two-axle mower (Metrac))
- Usable with Pneumatic Seeders with electric / hydraulic fan PS 120 M1, PS 200 M1 and PS 300 M1 or with Multi-Metering System MDP 100 M1.



#01 HARROW ROWS



- The harrow has 2 rows with cranked 12 mm (optionally 10 mm) tines.
- Cranked tines create an elliptical movement on the soil. The steeper the position of the tines, the smaller the motion. The flatter the position of the tines, the larger the motion.

#02 LEVELLING PLATE



- Due to the height-adjustable spring-mounted levelling plate, rough unevenness in the grassland is eliminated and the tines are not stressed unnecessarily.
- The height is adjusted using two bolts (one on the left and one on the right) in the pattern of holes.

#03 ADJUSTING THE LEVELLING PLATE



- To make adjustment easier, a crank is included as a standard. After removing the bolts, this crank is used to easily raise and lower the levelling plate by means of gear teeth.

#04 AGGRESSIVENESS OF THE HARROW ROWS



- In addition to the depth, the aggressiveness of the tines relative to one another on the GK series can also be changed. To do so, you only have to insert the bolts for the harrow rows as desired in a hole more to the front or the rear.
- The crank for the levelling plate can be used to turn the harrow rows more easily.

#05 ADJUSTMENT OF THE ROLLER



- The roller is adjusted by extending or retracting the hydraulic cylinder. If it is completely retracted, the roller is lifted off from the ground and the total weight of the roller is shifted onto the tines. The contact pressure of the harrow rows is increased and the soil is worked more intensively. When the cylinder is extended, the tine pressure is reduced, for lighter harrowing.

#06 WARNING SIGNS



- For safe driving, warning signs and lighting are included with the Full Edition.

TECHNICAL PROCEDURE



#07 MOUNTING OF PS / MD ON GK-SERIES



- Our Grassland Combi GK 250 M1 or GK 300 M1 can be combined with the Pneumatic Seeders PS 120 M1 - PS 300 M1 (with electric or hydraulic fan) and with the Multi-Metering System MDP 100 M1.
- For mounting on the GK, the PS / MD can be fastened in two different positions (on the roller or harrow) together with the counter plate. The preliminary setup equipment for mounting the Pneumatic Seeder is included in the Full Edition.



#08 MOUNTING OF THE DISPERSION PLATES



- The dispersion plates are fastened on a hollow profile at equal distances relative to each other.
- The dispersion plates are mounted on the roller as standard, however, the hollow profile for mounting the dispersion plates can also be mounted on the harrow.



#09 LINKAGE SENSOR TOP LINK



- For the automatic stopping and starting of the seeding shaft, we offer the linkage sensor top link with the Full Edition, which is installed on one of the two top link holes on the GK.



#10 SENSOR GPSa



- For the automatic adjustment of the seeding shaft's speed to the actual forward speed, a sensor set is available (included with the Full Edition).



#11 PLATFORMKIT



- There is a suitable platform kit for both mounting positions (included with the Full Edition) to easily get to the Pneumatic Seeder.

GRASSLAND COMBI

TECHNICAL PROCEDURE



#12 FRONT MOUNTING



- The front mounting equipment for the harrow is available as an accessory. The top link rocker and the feeler wheels can be mounted toolfree just using bolts.
- Front mounting offers the option of adjusting the contact pressure of the tines while driving using the hydraulic cylinder. (The roller cylinder, which is not in use when the implement is divided, can be used here.)



#13 DIVIDED AND COMBINED OPERATION



- On steep terrain or with smaller tractors, there is the option of dividing the implement.
- All of the working tools can be used individually or in different combinations. The GK can be divided into a front-mounted or rear-mounted implement.

"I chose the GK, because I can use it to work on grassland and on the field. The spring-mounted levelling plate and the toothed ring roller for perfect crumbling are most suitable for my needs. The cost-performance ratio was also convincing."

Josef Schacherl, Farmer



PRODUCT OVERVIEW

SOIL CULTIVATION AND SEEDING



SINGLE DISC SPREADER



TWIN DISC SPREADER



PNEUMATIC SEEDERS



MULTI-METERING SYSTEM



IMPLEMENT CARRIER



TINED WEEDER



TINED WEEDER PRO

Company details

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GRASSLAND



GRASSLAND HARROW



GRASSLAND COMBI



GRASSLAND HARROW PRO



GRASSLAND ROLLERS

SNOW AND
ICE REMOVAL



SNOW AND ICE REMOVAL



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.

Innovations for the Future

- since 1997 -



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