

Version: 1.4 EN / Prt. No.: 00210-3-205

GRASSLAND COMBIGK

LIGHTWEIGHT AND MANOEUVRABLE - EVEN ON STEEP TERRAIN



OUR PRODUCTS

GRASSLAND COMBI GK

MORE MACHINES



















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 COMBIGK

GRASSLAND COMBI - THE PRODUCT INNOVATION

been wishing for: a grassland combination of and roller can be used combined at the rear. harrow and roller that is lightweight and can

With immediate effect, APV offers an also be divided. The innovation "GK" consists of innovation in the area of grassland manage- a two-row harrow with a levelling board and ment that many dairy farmers have always a roller. Your advantage with APV: the harrow







However, you can also use the two implements separately at the front and rear using the front mounting accessory. The trailing roller can always be used separately, e.g. for field crops. 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 re-seeding of grass using APV seeders together with grassland cultivation implements have also been demonstrated (Pneumatic seeders and Multi-Metering Systems (also an innovation)).

FUNCTIONAL PRINCIPLE OF THE GRASSLAND COMBINATION

same time, comb the weeds out of the crop.

Coarse unevenness is eliminated with the With a mounted seeder, the seed is spread levelling plate then the 2 harrow gangs directly behind the harrow gangs and in front with the 12 mm tines produce an optimal of the roller. The last work step, pressing down seedbed for possible re-seeding and at the the seed, is then performed by the trailing

GRASSLAND ROLLERS GW 250 M1 AND GW 300 M1

APV are the perfect machines for professional field and grassland operations, in order to selectively improve the ground contact and thus the seed germination. Both types of rollers are ideal for use in field and grassland ope-

Cambridge rollers or toothed ring rollers from rations 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 ideally suited for meadow management, for reseeding and new seeding of grasses, both on level 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 multi-farm operations. On steep terrain or with smaller tractors, there is the option of dividing the Grassland Combi.

1

TECHNICAL DATA

without PS H 1,31 m, W 2,44 m, D 1,82 m with PS H 1,71 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

1 single acting control device for folding required

②

ITEMS INCLUDED

- Complete machine with 2 beds of tines and roller
- Beds with bent 12 mm tines (33 pcs.) 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 support on the harrow and roller
- Tool box integrated in 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
- lights
- 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 + tractor linkage upper bar sensor

0

YOUR ADVANTAGES

- 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.





A You can configure your Grassland Combi from the basic machine with basic equipment.

Please contact your APV consultant!



ACCESSORIES

- Operating hour 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 ideally suited for meadow management, for reseeding and new seeding of grasses, both on level 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 multi-farm operations. On steep terrain or with smaller tractors, there is the option of dividing the Grassland Combi.

•

TECHNICAL DATA

7	Working	width.														3	3	n	•
---	---------	--------	--	--	--	--	--	--	--	--	--	--	--	--	--	---	---	---	---

 ♣ 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

②

ITEMS INCLUDED

- Complete machine with 2 beds of tines and roller
- Beds with bent 12 mm tines (33 pcs.) 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 support on the harrow and roller
- Tool box integrated in 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
- lights
- 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 + tractor linkage upper bar sensor

0

YOUR ADVANTAGES

- 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.





A You can configure your Grassland Combi from the basic machine with basic equipment.

Please contact your APV consultant!!



ACCESSORIES

- · Operating hour 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.





¹ single acting control device for folding required

TECHNICAL PROCEDURE

GRASSLAND COMBI



#01 HARROW GANGS



- The harrow has 2 gangs with elbowed 12-mm (optionally 10-mm) tines.
- Angled 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.



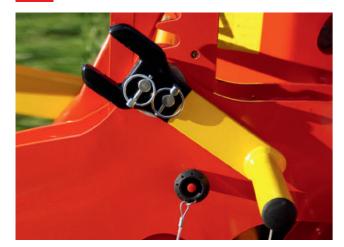
#02 LEVELLING PLATE



- 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 pins (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 pins, this crank is used to easily raise and lower the levelling plate by means of gear teeth.

#04 AGGRESSIVENESS OF THE HARROW GANGS



- 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 pins for the harrow gangs 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 gangs more easily.



#05 ADJUSTING THE ROLLER



 The roller is adjusted by extending or retracting the hydraulic cylinder. If it is completely retracted, the roller is lifted off of the ground and the total weight of the roller is shifted onto the tines. The contact pressure of the harrow gangs in 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 lights are included with the Full Edition.

TECHNICAL PROCEDURE

GRASSLAND COMBI



#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 INSTALLATION 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 installed on the harrow.

#09 TRACTOR LINKAGE UPPER BAR SENSOR



 For the automatic stopping and starting of the meter roll, we offer the tractor linkage upper bar sensor 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 meter roll speed to the actual forward speed, a sensor set is available (included with the Full Edition).



#11 ACCESS PLATFORM





 For safe filling of the hopper of the Pneumatic Seeders, there are suitable access platforms for both installation positions (included with the Full Edition).

<mark>- 10 |</mark>

TECHNICAL PROCEDURE

#12 FRONT MOUNTING



- The front mounting equipment for the harrow is available as an accessory. The top link rocker and the guide wheels can be installed without tools using pins.
- 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. 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 costperformance ratio was also convincing."

Josef Schacherl, farmer



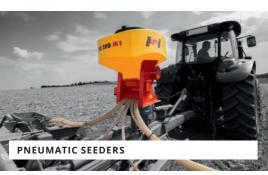




PRODUCT OVERVIEW

SOIL CULTIVATION AND SEEDING SINGLE DISC SPREADER













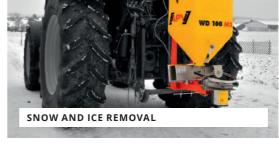
APV - Technische Produkte GmbH, Managing Director: Ing. Jürgen Schöls, Dallein 15, 3753 Hötzelsdorf, Austria, marketing@apv.at, www.apv.at, UID: ATU 5067 1107

Photos: Factory photos (© APV), www.shutterstock.com / Goodluz (p. 10) Concept & text: Liane Wöchtl, MA (Mash Marketing Sharing eU), Ing. Christian Karrer Graphics: Jürgen Undeutsch, MA (Undeutsch Media eU), Sonja Exl

















FROM USER TO ENTREPRENEUR

that his heart beats for agriculture. This is why realised that his optimisation had potential and founded APV — Technische Produkte GmbH.

For Jürgen Schöls, it was clear from the outset The first APV machines were hand-made by the young entrepreneur and today he employs he took over the parental farm and continues more than 100 people. The whole company to run it today. As a farmer and handyman, he works according to the motto: EVERYTHING IS developed his Single Disc Spreader in 1997. He POSSIBLE! Give again and again; then good comes back! The dynamic company questions, takes nothing as a given and optimises good products already in existence.

"Every modern farmer uses APV technology on the farm".

Vision of the Managing Director

More information on our homepage www.apv.at/en.

Innovations for the future

- since 1997 -



APV - Technische Produkte GmbH

HEADQUARTERS, Dallein 15, AT- 3753 Hötzelsdorf

Telefon: +43 (0) 2913 / 8001

E-Mail: office@apv.at







Visit us on ...