

# Master and Magnum



## Trailed rollers from GÜTTLER®

For arable and grasslands –  
Versatile instruments for a perfect  
seedbed!

40 years



**GÜTTLER®**  
*Leading in Soil Structure*

# The self-cleaning Prismenwalze®

The roller with the 'sheep's hoof' effect – because 305 prism points per square metre have the same effect as a passing flock of sheep.

For pasturage, this means a denser turf and assured subsequent reseeding – a virtually ideal soil structure in the field.



## What makes these rollers so special:

The characteristic prism points around the circumference. Two half-rings of different sizes always work together in pairs: the smaller of the smaller of both sits on the shaft, while the larger, which is 5 cm bigger, runs along the hub of the smaller one:

- Underneath, in the soil, they are both at the same level, and so exert the same pressure on the soil
- When rolling, the larger half-ring pushes through 5 cm upwards
- The smaller half-ring rotates faster than the larger one

These relative movements of the two half-rings bring about the well-known self-cleaning ability of our rollers.

## Two sizes contribute to your success:

### Ø 33/38 cm

used in the Mediana series ca. 230 kg/m (as an attachment in the tractor three-point hydraulics system, front or back)

### Ø 45/50 cm

used in the series

- Matador – three-point roller for front and back, ca. 330 kg/m
- OffSet, Mayor, Master, Magnum – trailed rollers with chassis and drawbar, ca. 500 to 550 kg/m



**The roller with the  
"golden hooves"**

*The Original, since 1978*



### **An even larger diameter, and even more weight?**

Although it is easy to design bigger and heavier rings, more than 40 years of experience have taught us:

Our soils generally do not suffer from a lack of consolidation, but from compaction that is too severe owing to heavy vehicles.

So as not to run the risk of literally 'letting the air out' of our valuable soils, we must use common sense when considering the weight of the implements.



Ø 45/50 cm

# The golden hooves on arable land.

An ideal seedbed  
A stable crumb structure



**The roller with the "golden hooves"**

*The Original, since 1978*



## Not like this...

### Pressed flat - firm and fine on top

The capillarity ends up on the surface, where valuable water for germination evaporates. Precipitation quickly turns the seedbed to mud.

There is a high risk of erosion. The crust formation hinders germination. This is justifiably one of the biggest concerns for farmers, who need to consider the pros and cons of using a roller.



## ... but like this

### An ideal seedbed

In developing the Gütler roller, our aim was to create an ideal seedbed. This aim has been achieved in full:

Underneath is firm and fine - connected to the water-bearing capillarity, best possible embedding of seeds  
Above is a loose crumb, which prevents the accumulation of mud and drifting

Result: assured germination, thriving crops!





### Stable crumb structure

Winter wheat rolled after sowing in October 2010.

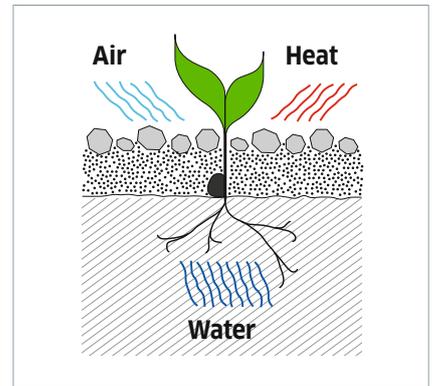
The seed is located at a firm, water-bearing seed depth. Assured germination, low risk of winterkill, vigorous crops.



### The same crop at the end of February 2011!

The crumb structure 'dissolved' slightly during the winter but is still clearly visible.

- Intact gas exchange
- Rapid heating of the soil
- Thriving crops!



### Ideal seedbed

For assured and rapid germination, the seed needs three elements:

- Heat
- Air
- Water

it is precisely these three elements that are provided by the GÜTTLER® rollers.

# The golden hooves for grassland management.

Even our great-grandfathers knew the importance of animal hooves for pasturage:

- Greatly encourages the tillering of turf
- Provides the necessary soil contact for reseeding and thus assures the success of reseeding

Result: dense and stable turf – higher and more reliable yields.



## Rolling winterkilled turf

Freeze/thaw cycles well and truly freeze the turf, meaning that the grass roots lose their contact to the capillarity and die from a lack of water. 305 prism points per square metre apply the pressure 'to the point' and safely restore the soil contact of the turf.

## Encouraging tillering

The turf is strongly encouraged to tiller by the Prismenwalze®

That means:

- Denser turf = higher yields
- Stronger root systems = stable turf and less forage contamination = the grass can access water for longer during dry spells

## Soil contact for reseeding

305 prism points per square metre bring the grass seed safely into the soil and provide the necessary soil contact.

Aulendorf system:

The national teaching and research institute in Aulendorf has spread grass seed and rolled it using the prismatic roller®. The success of reseeding was compared with a special seed drill (seed is sown directly into the soil).

Result:

**“Despite a lower seed rate, the GÜTLER® roller performs equally well when compared to slot seeding!”**



Result: high-yield, dense and stable turfs



Particularly important on grassland. Tight turning circles without harmful friction, since all roller rings are arranged in a row!



Rolling winterkilled seed and at the same time establishing a ryegrass nurse crop.

### **Damage to leaves and nodes greatly encourages tillering!**

When the ground freezes, it causes the roots to lose contact with the capillarity, meaning that they can no longer access water. The crops do not freeze, but are well and truly deprived of water! Rolling in early spring achieves the following:

- The roots are once again in contact with the soil water
- Tillering is encouraged, the crop density is re-established
- Crusts are broken

Gas exchange gets started, the soil heats up rapidly and valuable soil moisture is retained. The crops very quickly 'come to life'.





# Rolling seeds

Pressing down frozen winter seeds and restoring the soil contact.

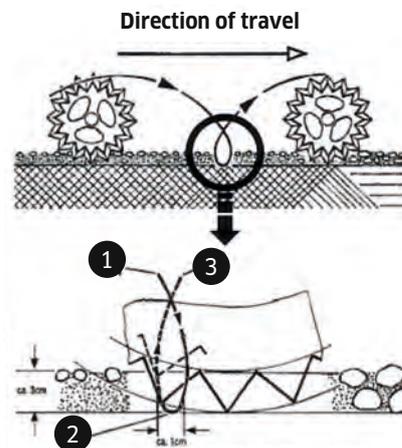
Breaking crusts and retaining moisture in the soil.

Damage to leaves and nodes greatly encourages tillering.

## The prism points are unable to tear any seeds out of the ground.

The path of movement of the prism points in the soil:

- 1 = enter the soil vertically
- 2 = small horizontal movement to the rear - this brings about the well-known selection effect of the GÜTLER® rollers: fine earth trickles downwards, larger soil particles rise upwards (similar to the effect of the tines of a harrow weeder or harrow). In earlier generations, it was common practice to harrow winter cereals hard in spring in order to promote tillering!
- 3 = vertical removal from the soil



## Pressing down seeds

In dry areas: pressing down plants, restoring soil contact. The loose, crumbly surface prevents the soil from drying out and valuable soil water is retained. Loose stones are pressed down.



### The right occasion for the harrow weeder

Rolling after sowing, before harrowing:

The harrow weeder implements perform well on the firm seed bed, allowing them to really 'bite down' and vibrate with sufficient force! The weeds that are pulled up can no longer reach the capillary water in the loose top layer and quickly dry out.



#### The roller decisively improves the efficacy of the harrow weeder:

- It breaks hard crusts so that the harrow weeder can work effectively.
- It creates a firm seed bed, offering resistance to the harrow weeder tines, which thus vibrate with force.



# Ideal conditions for controlling weeds.

Weeds also appear quickly and at the same time.

Weeds can therefore be controlled much more successfully, regardless of whether this is done mechanically or chemically.

## To ensure that your harrow weeder works more effectively:

Conditions are sometimes difficult when harrowing in spring:

### 1.) Heavily crusted soil -

the harrow weeder cannot properly get to work. Before harrowing, use the GÜTTLER roller to break the crusts, and thus allow your harrow weeder to function correctly.

### 2.) Flour-like frozen soils

offer no resistance to the harrow weeder, so that tines do not vibrate. Using the GÜTTLER® roller to compact the soil before harrowing will also help here!





### **Breaking crusts in sugar beet**

Silty soils that have been too finely processed tend to form crusts following precipitation. If this happens when the beets are germinating, they often have great difficulty trying to emerge through the crusts.

In such situations, the roller with the golden hooves can help. Drive at a measured pace, no faster than 6 km/h.



### **Bring nurse crops into maize (3-leaf stage)**

Grass nurse crops can be sown without any problem during the 3-leaf stage without any noticeable damage to the maize.





# Breaking crusts

Strong crust formation, a lack of gas exchange, slow heating of the soil – for young maize plants, these issues pose a real challenge!

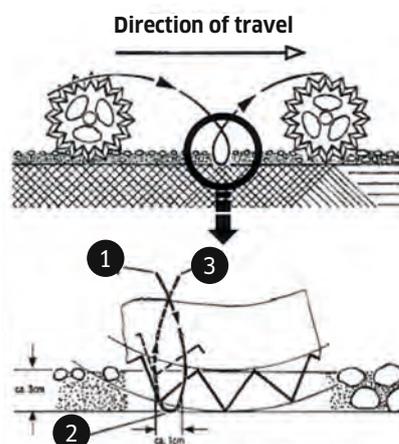
This farmer took heart and broke through the crusts using the GÜTTLER® roller (while driving slowly, of course).



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- 3 = vertical removal from the soil





### Scoring catch crops

Catch crops should be stopped no later than on flowering by rolling over them (in accordance with greening).

The stems are snapped so that the vascular pathways are broken.

The crop is scored!

This means that the stems cannot lignify, and they thus cause fewer problems when subsequently preparing the seed bed!



Bent stem - broken vascular pathways



# Combating corn borers

The surprise winner of the TOP AGRAR comparative test!  
Issue 5/2015

Nine implements in different systems were compared: rollers, tillage equipment and mulchers.



### The functioning principle is quite simple:

The prism points 'hammer' the maize stubble against the hard ground, like on an anvil.

In this case, any kind of front implement that acts on the soil, such as harrow weeders, tines, cutting rollers and the like must be deactivated!

If the soil is tilled beforehand, no matter how flat it is, the maize stubble can really 'duck through' under the roller!



**Excellent. Broad scope of application.  
Contour-hugging.**

GÜTLER's pendulum frame technology is unique. It enables our implements to follow changes in ground height incredibly closely.

Highly resistant to damage even when the ground is extremely stony.

These year-round implements are suitable for rolling before and after sowing, for rolling deeply frozen winter seeds and for stimulating tillering.

They are also ideal for managing grassland.





# Unique pendulum frame technology from GÜTTLER®

They are unsurpassed in their contour-hugging abilities. They reliably evade even large stones. These heavy, wide professional-class rollers are immensely robust.

Safe on public roads. And as versatile and flexible as all trailer rollers from GÜTTLER®.

## Narrow turning circle. No friction.

Tight turns and high mobility despite large working widths - a unique advantage of all trailer rollers from GÜTTLER®. Risk of colliding with the drawbar? Not a chance. All roller axles are arranged in a row, so they can be pivoted on the spot. Without friction, and without damaging valuable crops.



## Attachment through traction splitting

The advantages over attachment to the towing coupling:

- The pivot point is clearly behind the towing wheels, which means that there can be no collisions between the drawbar and the wheel!
- It is not necessary to take into account any permissible drawbar loads of the towing coupling!





### HarroFlex 600 / 750 front implement

The HarroFlex harrow (optionally with seeder) is easily coupled as a complete system using quick couplings.

It consists of two rows of robust harrow tines, optionally with levelling bar or Ripperboard at the front.

This makes your GÜTTLER® roller a universally usable year-round system.



Seed bed preparation



Professional grassland management



Highly effective tilling of catch crops



# Front implement for the Master 640 / 770 / 820

FlatSpring available for levelling and crumbing. The sprung tools tend to be hydraulically adjustable, including during operation, and are therefore able to adapt to changing conditions.

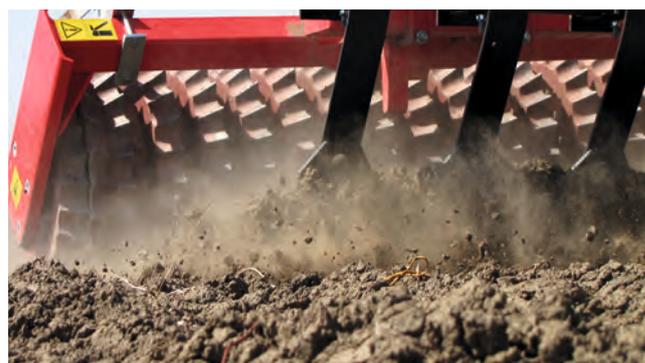


## FlatSpring implement

- For seedbed preparation
- Soil levelling - more effective breaking up of clods
- Hydraulic power adjustment
- Combats corn borers



Stimulating the winter crop for tillering - FlatSpring excavated





Stimulating volunteer grain and weed seeds to make them sprout, thinning out the straw

### Master 940 / 1040 / Magnum 1240

Low centre of gravity, safe transport. If the roller is suppressed for long periods, pressure on the wheels can be relieved by discharging the chassis until all the roller rings are resting on the ground.

### The advantages of NonStop attachments



These broad trailed rollers can become genuine year-round equipment:

- Seedbed preparation following ploughing or cultivating
- On cereal or rapeseed stubble. Germinating volunteer grain and weed seeds, thinning out the straw
- Cultivating catch crops
- Combating corn borers
- Rolling before or after sowing - the implements can be rapidly disengaged!



### The central section (3 m)

Joins directly to the tractor and has a levelling bar to level out the tracks. If you wish to work without an implement, the central part can be quickly detached from the roller (quick coupling).



# Front implements for the Master 940 Master 1040 Magnum 1240

The Non-Stop - attachments turn these rollers into a versatile, powerful universal implement!



Two seeders having a capacity of 410 litres can be built in (hydraulic fan) upon request

# Technical Data. Everything you need at a glance.

## Master 640/770/820

Type	Working width	Transport width	Roller units	Supporting load	Axle load	Weight
Master 640	6.30 m	3.00 m	4	1,180 kg	2,170 kg	3,350 kg
Master 770	7.60 m	3.00 m	4	1,260 kg	2,440 kg	3,700 kg
Master 820	8.10 m	3.00 m	4	1,320 kg	2,580 kg	3,900 kg
Accessories						Weight
Expert report for obtaining the general operating licence						
Tyres 15.0/55-17 10 PR	Extra charge for standard wheels 11.5/80-15 10 PR					60 kg
Tyres 19.0/45-17 10 PR	Extra charge for standard wheels 11.5/80-15 10 PR					120 kg
Switching block, mechanical	for operation with only one double-acting control unit					
FlatSpring for Master 640	Hydraulic connections required: 4 x double-acting (in total) Final assembly on site: approx. 2 hours <b>Pneumatic braking system required!</b> <b>Recommended tyres: 15.0/55-17 or 19.0/45-17 14 PR</b>					890 kg
FlatSpring for Master 770/820	Hydraulic connections required: 4 x double-acting (in total) Final assembly on site: approx. 2 hours <b>Pneumatic braking system required!</b> <b>Recommended tyres: 15.0/55-17 or 19.0/45-17 14 PR</b>					1060 kg
Pneumatic braking system	2-ring system required for axle loads above 3,000 kg!					150 kg
Shaft support wheel	Required only where a pneumatic seeder is installed and in the case of coupling to HarroFlex					100 kg

## Master 940/1040

Type	Working width	Transport width	Roller units	Supporting load	Axle load	Weight
Master 940	9.30 m	3.00 m	6	1,670 kg	2,750 kg	4,590 kg
Master 1040	10.40 m	3.00 m	6	1,850 kg	3,100 kg	4,950 kg
Accessories						Weight
Expert report to obtain the general operating licence						
Tyres 15.0/55-17 10 PR	Extra charge for standard wheels 11.5/80-15 10 PR					60 kg
Tyres 19.0/45-17 10 PR	Extra charge for standard wheels 11.5/80-15 10 PR					120 kg
NonStop harrow weeder for Master 940	3-row, 12 mm tines, line spacing of 75 mm <b>Pneumatic braking system required!</b> <b>Recommended tyres: 15.0/55-17 or 19.0/45-17 14 PR</b>					2,100 kg
Pneumatic braking system	2-ring system required for axle loads above 3,000 kg!					150 kg
Hydraulic pressure equalisation	Incl. throttle, manometer, gas bubble for uniform pressure distribution to the booms					



### Master 640 / 770 / 820

Large professional class roller for a versatile range of applications on both arable and grassland. Narrow turning radius - no damage to crops.



### Master 940 / 1040

Large professional class roller for a versatile range of applications on both arable and grassland. Narrow turning radius - no damage to crops.



### Magnum 1240

Enormous working width, massive clout - the Magnum is the giant among our prismatic rollers. The year-round implement for large-scale farming enterprises and contracting work.

## Magnum 1240

Type	Working width	Transport width	Roller units	Supporting load	Axle load	Weight
Magnum 1240	12.30 m	3.00 m	8	2,990 kg	3,410 kg	6,400 kg
Accessories						Weight
Expert report to obtain the general operating licence						
Tyres 15.0/55-17 10 PR	Extra charge for standard wheels 11.5/80-15 10 PR					60 kg
NonStop harrow weeder for Magnum 1240	3-row, 12 mm tines, line spacing of 75 mm					2,300 kg
Hydraulic pressure equalisation	Incl. throttle, manometer, gas bubble for uniform pressure distribution to the booms					

# The best for your soil. Healthy crops – reliable yields!



## **GreenMaster**

### **GreenMaster, the 5-in-1 system – for arable and grassland:**

The most effective tool against common panicles! Modular system: harrow weeder and roller can be used separately or in combination!



## **Simplex Prismenwalze®**

The problem solver for rotary harrows: almost 50% lighter thanks to the use of synthetic materials – unique worldwide! Non contact scrapers, smooth operation!



## **Avant and DUPLEX® front packer**

Achieve a better seedbed with fewer operations and less diesel! Protects the tractor, the implement and the soil!



## **Super Maxx®**

Double the area efficiency with half the fuel consumption:  
The year-round implement for flat stubble tilling. Prevent herbicide-resistance! Weed control, incorporation of liquid manure



## **Matador Prismenwalze®**

The multitalent for the front and back: For arable and grassland  
Heavy-duty front seed tank  
Pasture roller at the rear  
Protection against the corn borer



## **Mediana Prismenwalze®**

The medium-duty GÜTTLER® seed tank protects the tractor and the soil. Ideal for beet, corn, vegetables and rapeseed.  
For front and rear!

## Pioneers in soil structure



GÜTTLER GmbH • D-73230 Kirchheim/Teck  
+49 (0) 70 21 98 57-0 • [www.guettler.de](http://www.guettler.de)