

FLAIL MOWER

UMT, PMK, UMK, UM, GFM



UNI mower UMT 10 / 13 / 15 / 18

Due to their compact design, the UMT mowing, mulching and shredding machines for universal use are particularly suitable for small and municipal tractors from 13 KW (18 HP) upwards. They are available in working widths of 1.00 m, 1.30 m, 1.50 m and 1.80 m. The versatile adjustment options of the holding points for the three-point hydraulic system allow for attaching the equipment to any three-point linkage without difficulty.

The following three designs are available

- as rear implement
- as front implement
- as combined rear and front implement

Due to the robust and simple construction of the machine, the mowers are insensitive to foreign bodies such as stones, iron parts, pieces of wood and other debris. All types of grass are mowed. Not even reeds, sedges, shrubs and thorny bushes become an obstacle.

The roller mounted over the entire mowing width ensures good mowing results, even on uneven terrain.

The cutting height is roughly set by adjusting the scanning roller. The fine adjustment is done via the top link. As standard, the UMT uni mowers are equipped with a mechanical lateral displacement of 0.45 m (on request hydraulically). This displacement option allows for work to be carried out even in inaccessible places, under trees and bushes, on fences or waysides.

These advantages guarantee the good and safe use on camping sites, orchards, sports fields, etc.

On request, the UMT uni mower can be equipped as fine-cut flail mowers. The grass to be mulched is heavily crushed and rots faster.



UMT 13 rear attachment



UMT 18 front attachment



UMT 15 with hydraulic drive

UNI mower PMK 18 / PMK 21

The PMK uni mower was specially developed for use on steep slopes. The mower is intended as front attachment in the three-point hydraulic system for special slope carrier vehicles such as those from Aebi or Reform.

The PMK uni mower is suspended by pulling over the attachment frame, allowing for optimal guidance of the mowing head. In addition, lateral oscillation is possible.

Technical data see page 7.

PMK 18
on Reform



UNI mower UMK 16 / 18 / 21



UMK 18 rear attachment



UMK 21 rear attachment



UMK 18 with hydraulic drive, attachment to wheel loader

The robust mowing, mulching and shredding machines of our UMK series are excellently suited for use on tractors with 23 to 44 KW (30 to 60 HP). The working widths vary between 1.60 m, 1.80 m and 2.10 m. Due to versatile adjustment options of the holding points for the three-point hydraulic system, the equipment is easily attached to any three-point linkage. The UMK uni mower is also available as rear implement, front implement or as combined rear/front implement.

Due to the generous dimensions of the gear, v-belt drive, bearings and flail shaft, the uni mower is largely insensitive to foreign bodies such as stones, pieces of wood, iron parts and other rubbish. The rough adjustment of the cutting height is done by adjusting the roller. The fine adjustment is done by adjusting the top link.

On request, the UMK UNI mower can be equipped with a flail shaft with heavy, free floating flails (see page 7). This means that it can also be used for stronger growth with shrubs as well. As another alternative, the UMK can be equipped as fine-cut flail mower. The grass to be mulched is heavily crushed and rots faster.

The attachment frames are rigidly installed as standard. On request, we equip the devices with mechanical lateral adjustment or a hydraulic displacement. The mowers can then be moved for a total of 60 cm (see figure on page 7). This lateral adjustment is useful when mowing in inaccessible places such as under trees, on walls and fences etc.

The range of application of the UMK UNI mower is versatile as it mows all types of grass, from seaweed to reed up to sedges. Not even old grass, thorny bushes or shrubs up to a diameter of 4 cm pose an obstacle.

Technical data see page 7.

UNI mower with basket

The basket can be attached to the types UM 19, 23 and 27. It is attached to the sturdy frame of the UNI mower via two pivot points. The basket is emptied hydraulically via a single-acting hydraulic cylinder. The mowed material is either deposited in windrows or centrally in one place.

When the hay bales are collected, the pathogens and parasites they contain disappear. This way you make an important contribution to your animals' health. If the grass in the paddock is only mulched, this spreads the parasites and pathogens over the entire pasture.

UM 19 with basket



UNI mower

UM 19 / 23 / 27 / 30 / 40

The uni mowers in working widths from 1.90 m to 4.00 m are versatile mowing and mulching machines for use on tractors from 33 KW (45 HP) upwards. Due to the compact and sturdy frame construction, the generous dimensions of the gear, v-belt drive, bearings and flail shaft, the uni mower is largely insensitive to foreign bodies such as stones, pieces of wood, iron parts and other rubbish.

All machines are available as rear implements, front implements or combined front and rear implements. Lateral displacements are available in all mounting directions.

Ground adjustment

A generous roller is mounted across the entire width of the flail mower, ensuring optimum ground adjustment on uneven terrain. When used on level arable land, the UM 19 – 40 can be fitted with wheels. In order to take account of the current use of larger tractors, the attachment frame of the UM 27 / UM 30 and UM 40 models has been redesigned. Built-in joints and a rear-suspended three-point linkage guarantee high running smoothness of the machine, even on difficult terrain. The wheels can be smoothly moved on a guide tube. The cutting height can also be adjusted multiple times.

Front attachment, or front and rear attachment

All UM uni mowers can also be attached as front implements into the three-point hydraulic cat. 2 or into the vehicle plate size 3. On the front and rear attachment combinations, two three-point linkages are installed, so that it is no longer necessary to re-screw them from front to rear. In order to reduce the weight of the front-attached mower, ground relieving springs can be installed on request. Depending on the setting, the support weight can be reduced by up to 50%.

Cutting height adjustment

The cutting height is roughly preset by adjusting the scanning roller. The fine adjustment is done by adjusting the top link.



UM 27 as front attachment with hydraulic displacement



UM 40 as rear attachment



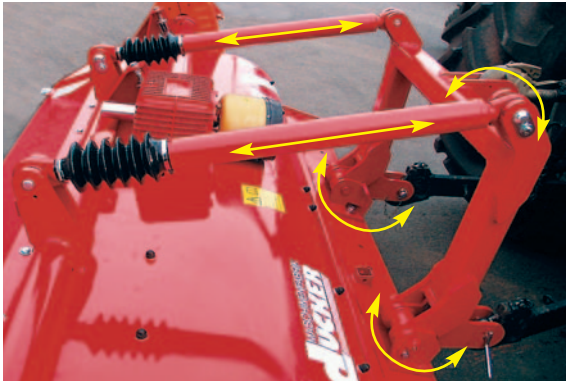
UM 27 in action

UM 27 as rear attachment with hydraulic displacement





UM 27 with displacement device



Attachment frame for UM 27, 30 and 40 with hinge points and rear suspension



Ground relieving springs in front attachment



UM 27 with swivelling wheels (2 wheels as standard)



V-belt drive

Lateral adjustment or displacement

The attachment frames are rigidly installed as standard. Useful when mowing in inaccessible places such as under trees, on walls and fences etc. For the UM 19 + 23, the three-point linkage can be moved by 45 cm by re-screwing. On request, we equip the mowers with a hydraulic lateral displacement. The displacement is available both as front and rear attachment.

Impact rail

Installing an impact rail at the front of the mower provides additional shredding of the mulch material.

Flail shaft – flail

The heavy flails (2 kg) made of spring steel are loosely hooked in the holder of the flail shaft and is secured by a screw. The centrifugal force puts the flail into the correct mowing position during operation. If larger objects are lying on the ground during operation, the flails move to backwards.

The electronic-dynamically balanced flail shaft, the special type of suspension and the flails made of special spring steel result in a favourable and energy-saving flail shaft speed. Low speeds ensure relatively low wear and help to reduce the fuel consumption of the tractor. The UM 19 – 30 rear-attached implements are supplied with 540 rpm PTO shaft speed. On request, a PTO shaft speed of 1000 rpm is available without surcharge.

On request, the UM uni mower can be equipped with a flail shaft with heavy, free floating flails (see page 7). This means that it can also be used for stronger growth with shrubs as well.

Range of application

The range of application is wide, be it in agriculture, pome- and viticulture, on the verges of roads and paths, on sports fields, recreation grounds, practice areas, shooting ranges or airfields. The UM UNI mower mows all types of grass, from seaweed to reed up to sedges. Not even old grass, thorny bushes or shrubs up to a diameter of 4 cm pose an obstacle.

Technical data see pages 7.



UM 40 with long travelling device

Large area mower GFM 740

Working width 7.40 m

The GFM 740 is usable as divided and closed build. The GFM 740 in closed build is operated by means of the reverse-drive system.

The cutting height can be easily adjusted centrally via the top link and on each mulching unit.

The hydraulic relief control ensures the protection of the soil and optimal work results.

When hitting an obstacle, the lateral mulchers move to the rear so that the machine is protected from damage.

For increased comfort, the GFM 740 is hydraulically moved into working or transport position via the cab.

For space-saving storage, the GFM 740 can be put down in transport position. The central mulcher then serves as a separate machine for minor works.

Technical data see pages 7.



GFM 740 in divided build



GFM 740 in transport position



GFM 740 in closed build

GFM 740
mowing corn stover



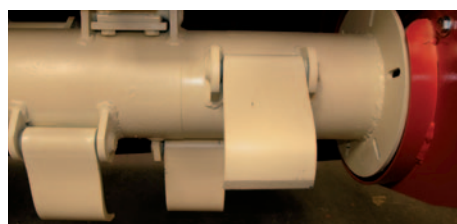
Technical data

	Working width (m)	Total width (m)	Transport width (m)	Power requirement kW (HP)	Weight Basic equipment (kg) <small>may vary depending on additional equipment</small>	PTO shaft speed (rpm)	Area output approx. (ha/h)	E-point linkage category	Number of flails	Front attachment option	laterally displaceable by (m)	Basket	Ground adjustment
UMT 10	1,00	1,27	1,27	13 (18)	310	540	0,40	I	9	yes	0,45	-	Roller
UMT 13	1,30	1,47	1,47	16 (22)	340	540	0,50	I	11	yes	0,45	-	Roller
UMT 15	1,50	1,67	1,67	17 (24)	400	540	0,70	I + II	12	yes	0,45	-	Roller
UMT 18	1,80	1,97	1,97	20 (24)	460	540	0,90	I + II	15	yes	0,45	-	Roller
UMK 16	1,60	1,94	1,94	23 (30)	480	540	1,00	I + II	15	yes	0,60	-	Roller
UMK 18	1,80	2,06	2,06	30 (40)	550	540	1,30	I + II	15	yes	0,60	-	Roller
UMK 21	2,10	2,36	2,36	37 (50)	650	540	1,60	I + II	18	yes	0,60	-	Roller
PMK 18	1,80	2,05	2,05	60 (80)	500	540	1,30	I	40	yes	-	-	Roller suspended by pulling
PMK 21	2,10	2,35	2,35	60 (80)	540	540	1,60	I	46	yes	-	-	Roller suspended by pulling
UM 19	1,90	2,30	2,30	33 (45)	750	540	1,50	II	16	yes	0,60	yes	optionally roller or wheels
UM 23	2,30	2,70	2,70	41 (55)	850	540	1,80	II	20	yes	0,60	yes	
UM 27	2,60	2,99	2,99	48 (65)	1050	540	2,30	II + III	24	yes	0,60	yes	
UM 30	3,00	3,40	3,40	60 (80)	1200	540	2,80	II + III	28	yes	0,60	-	
UM 40	4,00	4,50	4,50	90 (120)	1600	1000	3,60	II + III	36	yes	-	-	-
GFM 740 divided version	7,40	7,70	3,00	140 (190)	3100 1400	1000	6-8	III	72	-	-	-	Roller
GFM 740 closed version	7,40	7,70	3,00	140 (190)	4500	1000	6-8	III	72	-	-	-	Roller

The choice of flail shaft on UM and UMK uni mowers

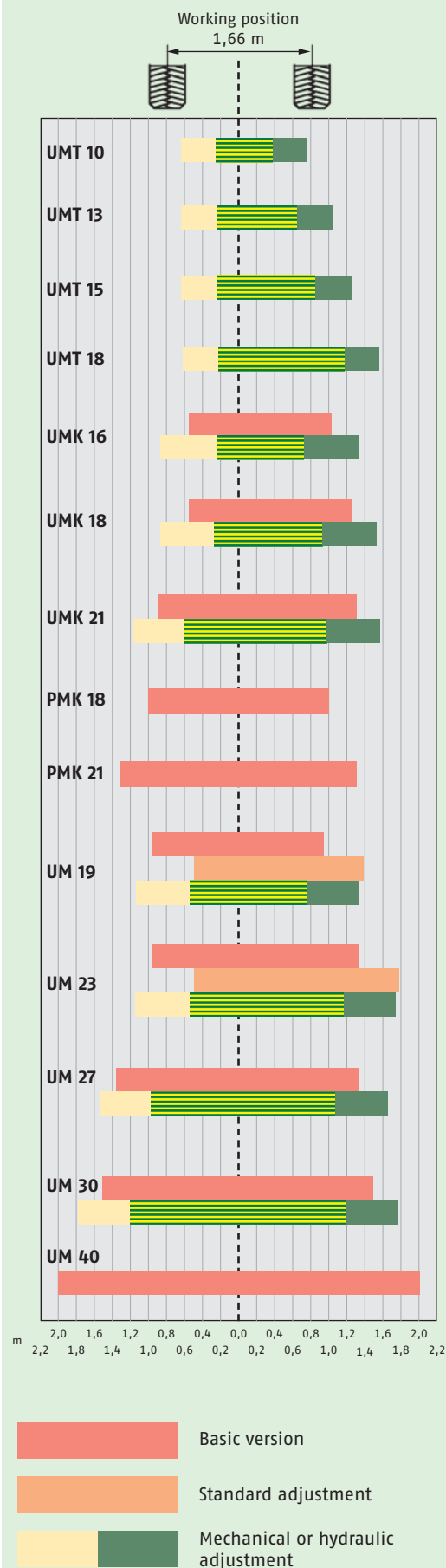


The flail shafts in the standard version weigh about 2 kg and are made of spring steel. They are loosely hooked in the holder of the flail shaft and each is secured by a screw. When mowing, they are held in position by centrifugal force and can avoid obstacles.



On request, the uni mowers of the UM, UMK series can be equipped with heavier, free-floating flails. These sit on stable flail blocks on a massive flail shaft. This means that it can also be used for stronger growth with shrubs as well.

Displacement



Technology for environmental landscape maintenance and agriculture



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