



DRUM MOWERS

- ▶ Powerful
- ▶ Reliable
- ▶ Robust



fella.eu

*Harvesting
Energy!*

FIRST-RATE HARVEST

For more than 95 years, FELLA has always stood for innovative technology, outstanding quality and a personal passion for the service of agriculture. As the specialist for “Made in Germany” forage harvesting technology, we offer our customers all around the world an extremely wide range of products in terms of mowers, hay tedders, rakes and conditioners.

FELLA has been represented in all key markets around the world since the 1980s. Through close contact with farmers and agricultural contractors, our machines are constantly undergoing further development towards perfection. In this way, even the most diverse markets can enjoy mutual benefits. FELLA's objective is to provide every customer with the optimum solution for his farming requirements.



TRADITION, INNOVATION, PASSION

The first grass mower was produced on our company site in Feucht as early as 1932. All key components of our forage harvesting machines are assembled and tested there by specialists before they leave our works. Mowing drums, mower units, drive units – even the smallest of production parts – all pass through the hands of our highly qualified specialists.

At the same time, our research and development department continues to invest all its expertise into the development of ever better and more efficient machines. This will guarantee the outstanding FELLA “Made in Germany” quality far into the future for all our customers the world over.

FELLA – the forage harvesting specialist:

- ▶ *“Made in Germany” quality*
- ▶ *More than 95 years of experience*
- ▶ *In-house research and development department*
- ▶ *All machines are assembled and tested on the company's site by specialists*
- ▶ *Innovative, efficient, long-lasting*

HISTORY

The name FELLA has been a byword for innovative agricultural machinery from Franconia for over 95 years. FELLA-Werke GmbH of Feucht near Nuremberg currently holds a top position in the demanding crop harvesting machinery sector. With a comprehensive range of drum and disc mower units, tedders and rakes, FELLA is in an excellent position to enjoy sustainable growth on the world market.

Since early 2011, FELLA has been fully incorporated into the AGCO Corporation and continues to drive forward the specialisation of harvest technology for them. The Feucht site, near Nuremberg, is AGCO's centre of excellence for green forage harvesting in Europe.

AN OVERVIEW OF OUR HISTORY

- **1918** Founding of "Bayerische Eggenfabrik AG" (Bavarian Harrow Factory) in Feucht
- **1921** The brand name FELLA is created, derived from the Egyptian word "Fellache" (= farmer)
- **1923** Ploughs and front carriages are incorporated in the product range
- **1932** Introduction of grass mowers, hay tedders, horse rakes and reaper-binders to the product portfolio
- **1953** FELLA launches its first conditioner with tine rotor onto the market. It is awarded with the "große Bronzene Preismünze" (great bronze medal) by the DLG (German Agricultural Association)
- **1954** FELLA launches the Jupiter, an automatic, powerful combine harvester onto the market
- **1968** Rakes added to the product portfolio
- **1980** Specialisation of products for green forage harvesting
- **1989** Concentration on the core competences of construction, assembly, sales
- **1997** The principle of the four "self-controlling factories" is introduced. Two years later, it is awarded with the International Best Factory Award
- **2000** Investment in the "new" FELLA (new building, restructuring)
- **2004** Takeover of FELLA by Argo. FELLA becomes a wholly-owned subsidiary of Laverda
- **2007** Argo and AGCO conclude a joint venture, each with a 50% share, FELLA becomes a part of both companies
- **2011** 100% takeover by AGCO: FELLA becomes the centre of excellence for green forage harvesting of AGCO in Europe
- **2013** FELLA's 95th anniversary



SERVICE

"Out of sight, out of mind." But not at FELLA!

Together with our dealers, we are always there and ready to provide reliable support to our partners, both at home and abroad – as we have been doing for almost 100 years. In conjunction with our well organised spare parts stores, regular further technical training for our dealers ensures that FELLA machines can be used, maintained and repaired to a professional standard. This comprehensive service ensures a high level of deployment reliability for your FELLA machines and makes a significant contribution to high-yield and stress-free forage harvesting.



DRUM MOWERS



WHY A FELLA DRUM MOWER?

Powerful, robust and reliable: FELLA drum mowers are outstandingly suitable for the efficient recovery of high-quality forage, even under the most difficult of conditions. A precise cut and a high forage flow rate ensure that forage is optimally deposited in a loose yet compact swath. Even with large volumes of forage, you can mow quickly and without blockages.

The construction guarantees the highest possible level of reliability. It's flexibility makes the drum mower an all-rounder. FELLA drum mowers are available in a front or rear attachment version. Front mowers are ideal for operation in combination with a loader wagon.



Benefits at a glance:

- ▶ Robust, reliable and safe
- ▶ Large mowing drum contact area for low ground pressure and low-impact treatment of the sward
- ▶ Excellent swath formation through paired running of the mowing drums
- ▶ All machines manufactured from high-quality materials and all components powder coated – colour coating particularly impact resistant and long-lasting, providing a brilliant look which lasts for years

OPINIONS BASED ON ACTUAL USE:

"It doesn't just mow well, it looks good too! Everybody turned to look when we brought out the new FELLA front-mounted rotary mower. It attracted the attention of the neighbours. But it wasn't just its looks that impressed – the mowing performance is also great."

Fritz Probst,
farmer, Germany



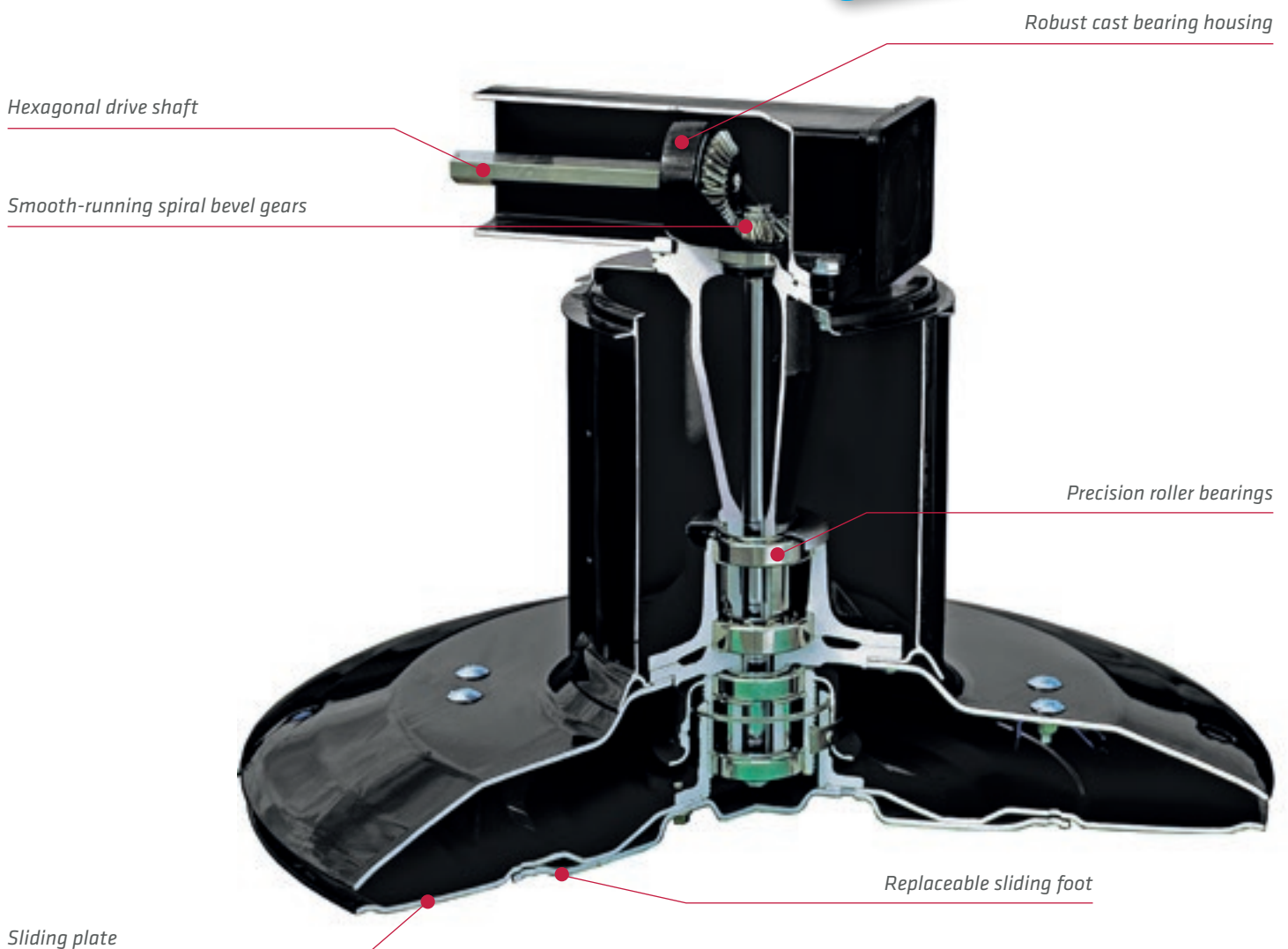
MOWING DRUM

FELLA mowing drums are mounted at 5 points and are bolted in position. That makes them particularly easy to maintain. The main load-bearing area is supported at 3 points, the sliding plate at 2 points. The rotatable gliding skids slide over uneven areas in the ground, instead of dragging, and, as a result, suffer less wear. In addition, this prevents mounds of soil and forage building up significantly reducing forage contamination. Since the sliding plate and the drum are fastened independently, removal is quick and easy to perform if either of them have worn out.

The integrated transport rails on the mowing drum support the conveying capacity and forage throughput. They also guarantee an optimum forage flow when large quantities are involved. On mowers without central height adjustment, additional distance rings (+9 mm) ensure the optimum cutting height.

- ▶ Especially easy to maintain thanks to bolted-on mowing drums
- ▶ Excellent swath formation through paired running of the mowing drums
- ▶ Drum and sliding plate in two separable parts
- ▶ Cutting height adjustment fitted as standard on all front-mounted mowers

**Mowing drums
bearing-mounted
at 5 points**



FELLA mowing drum

FIRST-RATE HARVEST – FAST AND LOW-IMPACT



DRIVE

The elastic V-belt drive with automatic tensioner ensures equal power distribution to all mowing drums. The smooth-running spiral bevel gears with spiral teeth run in an oil bath ensure a long service life, low noise level and low power requirement.

- ▶ Elastic V-belt drive
- ▶ Drive via hexagon shaft
- ▶ Spiral bevel gears with spiral teeth
- ▶ Lifetime oil filling

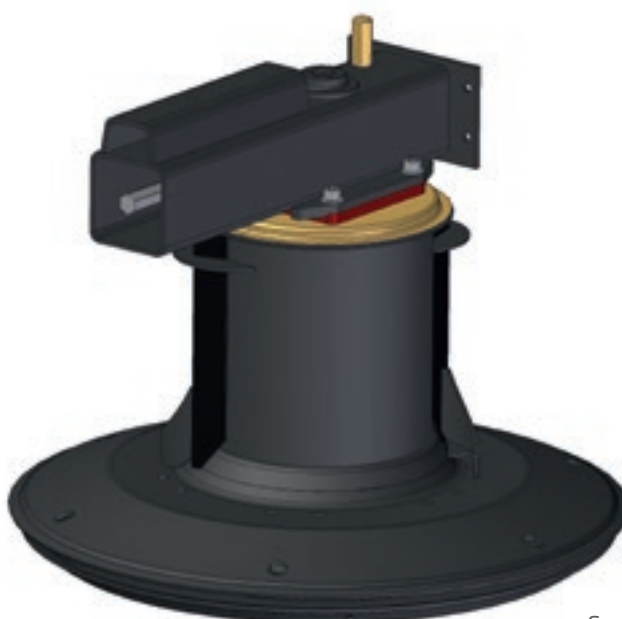


*V-belt tensioner**

FRAME

The square gear box frame is generously dimensioned and made from hard-wearing steel. The mowing drums are bolted to the gear box beam and are easily accessible from the outside.

- ▶ Generously dimensioned frame for long service life
- ▶ Easy to maintain thanks to inspection openings screwed at the side
- ▶ Warp-resistant for high performance and long service life



Square gear box frame with bolt-on mowing drum

** model-specific*

QUICK-RELEASE BLADE SYSTEM

Time is money. The otherwise usual maintenance times are reduced to “no time at all” with the quick-change blade system which is fitted as standard: Simply press down the spring buckle with the blade key, remove the used blade, insert the new one – and job done! No other tool is required. The new blade is automatically locked in place and reliably secured.



Quick-release blade system

At a glance:

- ▶ *Quick-change blade system featured as standard*
- ▶ *Short maintenance time*
- ▶ *Easy to handle*

**Blade changing
made easy!**

FELLA drum mowers



FIRST-RATE HARVEST!

Based on tradition, innovation and passion.



OVERVIEW OF INTERNAL PARTS OF MACHINE ASSEMBLIES

Page 12–14

FRONT ATTACHMENT, OSCILLATING LINKAGE

Front mowers with oscillating linkage for optimum ground adaptation in a lateral direction



Page 14–15

FRONT ATTACHMENT HEADSTOCK WITH TRAILING LINKAGE

Front mounted mower with towed hitch attachment for three-dimensional ground following



Page 16–19

REAR ATTACHMENT, SIDE HITCH ATTACHMENT

Low-drag rear mowers with side hitch attachment allow mowing in all positions on any terrain. Classic design with V-belt drive.



Page 20–21

REAR ATTACHMENT, CENTRE HITCH ATTACHMENT

High performance rear-mounted mower with centre attachment, articulated shaft drive and hydro pneumatic cutter bar relief system



MACHINE DESIGNATIONS AND ABBREVIATIONS

- **KM:** Drum mowers
- **FP:** Front attachment, oscillating linkage
- **V:** Variable cutting height adjustment
- **FZ:** Front attachment, headstock with trailing linkage
- **KC:** Tine-rotor conditioner
- **TL:** TurboLift system

Machine designation	KM 230 FP	KM 270 FP	KM 2940 FP-V	KM 3140 FP-V	KM 3340 FP-V
Approx. working width in m	2.20	2.55	2.86	3.06	3.26
Approx. swath width in m	0.95	0.70-1.10	1.20-1.40	1.20-1.60	1.40-1.75
Approx. weight in kg	603	726	846	874	907
Approx. power requirement in kW/hp	36/49	48/65	55/75	55/75	55/75
Mowing drums	2	4	4	4	4
Blades per drum	4	3	3	3	3

Machine designation	KM 310 FZ
Approx. working width in m	3.06
Approx. swath width in m	1.10-1.35
Approx. weight in kg	910
Approx. power requirement in kW/hp	55/75
Mowing drums	4
Blades per drum	3

Machine designation	KM 167	KM 187	KM 187 KC	KM 225	KM 225 KC	KM 262	KM 292
Approx. working width in m	1.65	1.85	1.85	2.20	2.20	2.55	2.85
Approx. swath width in m	0.75	0.85	0.85	1.00	0.90	1.65	1.85
Approx. weight in kg	440	524	644	610	730	763	775
Approx. power requirement in kW/hp	22/30	29/40	40/45	36/50	50/68	53/72	60/82
Mowing drums	2	2	2	2	2	4	4
Blades per drum	3	3	3	4	4	3	3

Machine designation	KM 310 TL
Approx. working width in m	3.06
Approx. swath width in m	1.95
Approx. weight in kg	1,105
Approx. power requirement in kW/hp	60/82
Mowing drums	4
Blades per drum	3

FRONT-MOUNTED OSCILLATING LINKAGE

KM 2940 FP-V KM 3140 FP-V KM 3340 FP-V

- ▶ Highly effective cutting power
- ▶ Ideally suitable for use with a loader wagon
- ▶ Robust and universally deployable



KM 3140 FP-V in use (here with the KC 285 D conditioner)



Excellent accessibility



KM 3140 FP-V



Oil dipstick



Cutting height adjustment

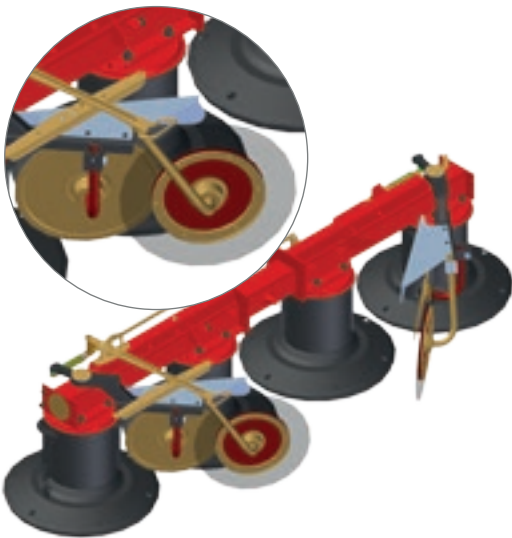


STYLISH DESIGN, HIGHLY EFFECTIVE CUTTING POWER, STRONG PERFORMANCE

Front-mounted mowers with oscillating linkage are ideal for combining with rear-mounted mowers or loader wagons. The oscillating linkage hitch attachment in the series allows free room for a lateral pivoting travel of up to $\pm 5^\circ$. Work is made additionally easier by the quick-change blade system (featured as standard) and infinitely adjustable cutting height.

At a glance:

- ▶ Oscillating linkage with free space for a lateral pivoting movement of up to $\pm 5^\circ$
- ▶ Spring relief for low ground pressure across the entire working width
- ▶ Automatic centring when travelling on the road
- ▶ Oil dipstick for easy oil level checking
- ▶ Protective cover which can be opened widely for good accessibility
- ▶ Folding side guard
- ▶ Central adjustment of the swath discs in 4 positions – variable swath width
- ▶ Quicker and easier attachment to and removal from the tractor



Central swath disc adjustment from above



Robust cutter bar with welded-on U-profile



Pivoting travel

WE RECOMMEND*:

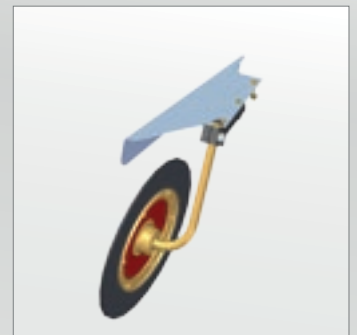
- ▶ Telescopic top link for ground following also in the direction of travel
- ▶ Additional second swath disc on the right and left-hand side for depositing an even narrower swath



Telescopic top link



Swath disc, left-hand



Swath disc, right-hand

***AS AN OPTION**

FRONT-MOUNTED OSCILLATING LINKAGE

KM 230 FP KM 270 FP

- ▶ Ideally suitable for use with a loader wagon
- ▶ Robust and universally deployable



KM 270 FP

FRONT-MOUNTED HEADSTOCK WITH TRAILING LINKAGE

KM 310 FZ

- ▶ Optimum ground following
- ▶ Perfectly suitable for undulating and uneven terrain
- ▶ Low drag
- ▶ Low fuel consumption



Ideally suitable for combination with a rear-mounted mower



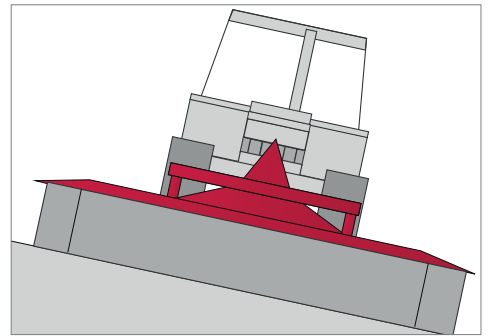
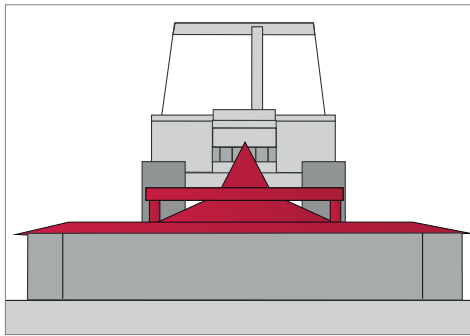
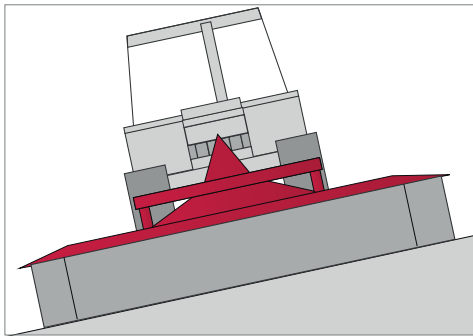
Three-dimensional ground following



Cutting height adjustment

At a glance:

- ▶ Oscillating linkage with free space for a lateral pivoting movement of up to $\pm 6.5^\circ$
- ▶ Spring relief for low ground pressure across the entire working width
- ▶ Folding side guard
- ▶ Wide cutter bar pick-up



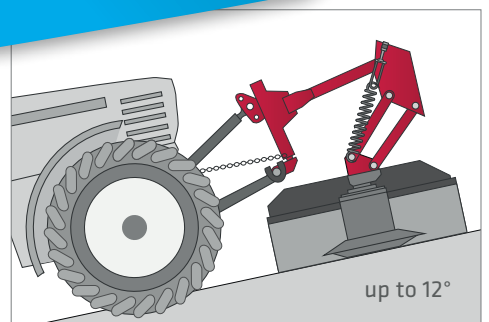
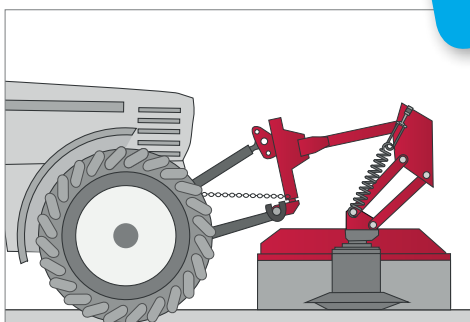
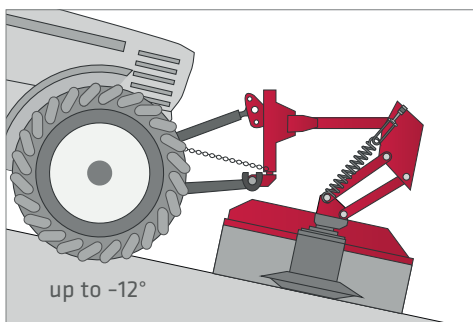
FAST AND CLEAN IN UNDULATING TERRAIN

The headstock with trailing linkage overcomes every unevenness of the ground with ease and has little impact on the grassland and the mower. The hitch attachment which pivots freely both longitudinally and in the direction of travel ensures optimum ground following, even on undulating terrain. The result: a clean cut at a high working speed.

At a glance:

- ▶ Hitch free to pivot both longitudinally and transversely
- ▶ Clean cut, low forage contamination
- ▶ Low impact on the sward due to integrated spring relief even at high working speeds
- ▶ Wide support frame located at the top with towing points positioned well towards the outside
- ▶ Wide lateral pivot travel of the cutter bar of 25°
- ▶ No twisting of the mower unit

Three-dimensional
ground following



REAR-MOUNTED THREE-POINT SIDE HITCH ATTACHMENT

KM 167
KM 187/KM 187 KC
KM 225/KM 225 KC

- Classic machine for small and medium-sized farms
- Also for slopes and ditch edges up to 30°



KM 225



Excellent accessibility



Transport position

LOW GROUND PRESSURE

The side hitch attachment of the mower unit in combination with the strong pulling spring ensures low ground pressure and optimum ground following. This reduces the impact on the sward and the mower. The robust machines are equipped with two mowing drums and achieve an optimum cutting pattern to produce clean forage.

SIMPLE AND SAFE

The mower is lifted out on the headland via the three-point hydraulics of the tractor. During work on grassland, the impact guard system (which is fitted as standard) protects the mower unit if obstructions are encountered. When work is finished, the mower unit can be simply swivelled backwards and, if required, upwards in readiness for safe driving on the road.

At a glance:

- ▶ *Side hitch attachment of the mower unit*
- ▶ *Track adaptation thanks to adjustable lower link pin*
- ▶ *Easy switching from working position to transport position from the comfort of the tractor seat (except for the KM167)*
- ▶ *Spring relief for low ground pressure (optional for KM 167/187)*
- ▶ *Impact guard system fitted as standard*
- ▶ *Automatic transport position locking for greater safety when travelling on the road*
- ▶ *Fold-up protective covers*

**Impact guard system
protects
the cutter bar**

WE RECOMMEND*:

- ▶ *Conditioner for less impactful conditioning of your forage – a faster way to producing your high-quality forage*



***AS AN OPTION**

REAR-MOUNTED THREE-POINT SIDE HITCH ATTACHMENT

KM 262 KM 292

- Classic machine for medium sized farms
- Also suitable for mowing work on slopes and at ditch edges



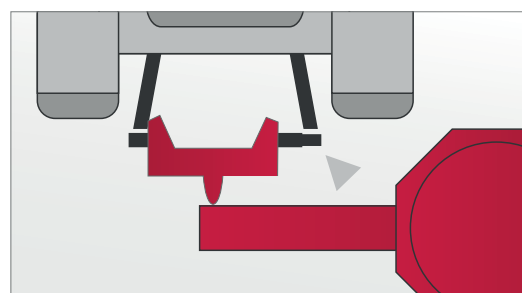
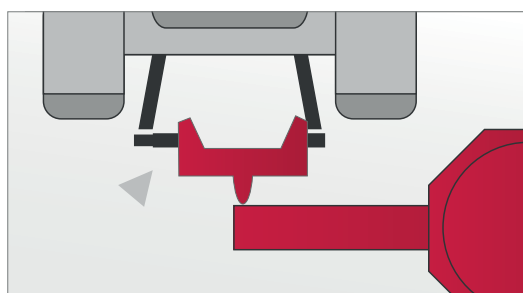
KM 292



Excellent accessibility



Transport position



Problem-free adaptation to different
tractors and tyre sizes

MEDIUM POWER CLASS

The KM 262 and KM 292 are in the medium power class, and are fitted with four mowing drums. A clean cut, high level of mowing performance and ease of handling are the distinguishing features of these machines.

ALWAYS AT THE READY

Enormous flexibility is achieved through the adjustable lower link pins which not only allow fitting to many different tractors and tyre sizes but also permit full exploitation of the working width. The working width is increased still further by the use of optional intermediate washers for adjusting the cutting height.

As with all FELLA mowers, these machines also naturally subject the sward to less impact, thanks to the optimum ground following system. In addition, you also save time by using the standard feature of the quick-change blade system.

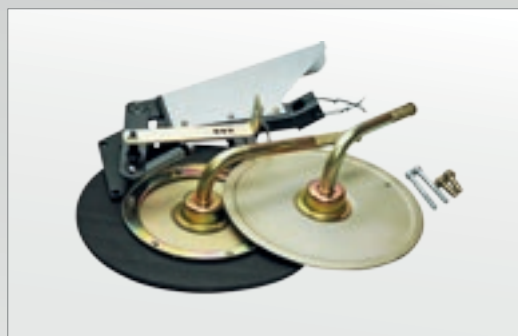
At a glance:

- ▶ *Side hitch attachment of the mower unit*
- ▶ *Track adaptation thanks to adjustable lower link pin*
- ▶ *Convenient changeover from the working position to the transport position directly from the tractor seat*
- ▶ *Spring relief for low ground pressure*
- ▶ *Automatic transport position locking for greater safety when travelling on the road*
- ▶ *Convenient and easy access thanks to foldable protective covers*

**Extremely convenient
to operate**

WE RECOMMEND*:

- ▶ Swath guiding assembly made up of two rotating swath discs on the right and left



Swath guiding assembly

***AS AN OPTION**

REAR-MOUNTED THREE-POINT ATTACHMENT, CENTRE HITCH ATTACHMENT

KM 310 TL

- Floating cut
- Mower unit attached at the centre of gravity
- High rate of work



KM 310 TL



Transport position



TurboLift system



KM 310 TL swung 90° behind the tractor

USER-FRIENDLY PREMIUM MOWER

The KM 310 TL is a premium class rear-mounted mower which has a middle attachment at the centre of gravity. The mower is lifted and lowered again on the headland using a single-acting control unit. A special hydraulic compensating cylinder prevents the mower unit from automatically swinging when it is lifted. Your sward and the cutter bar are therefore protected.

**ALWAYS CORRECTLY ADJUSTED**

The specially developed TurboLift system uses hydropneumatic power to take the pressure off the cutter bar, which means that the contact pressure can be adjusted easily and infinitely without the aid of tools, even during transport. In this way, the mower has no problem in adapting to the most varied of field conditions. This conserves the sward, even where it is damp, and forage contamination is reduced to a minimum. And that is all achieved while still maintaining absolute cost-effectiveness and low fuel consumption.

At a glance:

- ▶ *Mower unit attached at the centre of gravity*
- ▶ *Towed hitch attachment, with low ground impact and economical on fuel*
- ▶ *TurboLift System for infinite adjustment of the bearing pressure*
- ▶ *Mower can be folded up at the sides and pivoted by 90° behind the tractor*
- ▶ *Low-lying pivot point for convenient and safe road transport*
- ▶ *Spring-loaded impact guard system*



Towed mower hitch attachment

WE RECOMMEND*:

- ▶ Swath guiding assembly made up of two rotating swath discs on the right and left



Swath guiding assembly

***AS AN OPTION**

TECHNICAL SPECIFICATIONS

	KM 230 FP	KM 270 FP	KM 2940 FP-V	KM 3140 FP-V	KM 3340 FP-V	KM 310 FZ
Dimensions and weight						
Approx. working width in m	2.20	2.55	2.86	3.06	3.26	3.06
Approx. transport width in m	2.14	2.50	2.78	3.00	3.20	3.00
Approx. swath width in m	0.95	0.70-1.10	1.20-1.40	1.20-1.60	1.40-1.75	1.10-1.35
Approx. transport length in m	1.41	1.29	1.65	1.65	1.65	1.40
Approx. weight in kg	603	726	846	874	907	910
Power requirement						
Approx. power requirement in kW/hp	36/49	48/65	55/75	55/75	55/75	55/75
Attachment						
Attachment	CAT II	CAT II	CAT II	CAT II	CAT II	CAT II
Mower unit						
Mowing drums	2	4	4	4	4	4
Blades per drum	4	3	3	3	3	3
Conditioner	-	-	-	-	-	-
Infinitely adjustable cutting height	■	■	■	■	■	■
Quick-release blade system	■	■	■	■	■	■
Swath disc	□	■	■	■	■	■
Hydraulics and PTO stub shaft						
Required hydraulic connections	-	-	-	-	-	1 x SAV
PTO stub shaft speed in rpm	1,000	1,000	1,000	1,000	1,000	1,000
Drive shaft with freewheel	■	■	■	■	■	■

■ Series □ Equipment variant - not available

Illustrations show some of the special equipment. The right to technical revision is reserved. Some machines available in selected countries only. The images provided do not necessarily correspond to the most recent version of standard equipment.

KM 167	KM 187	KM 187 KC	KM 225	KM 225 KC	KM 262	KM 292	KM 310 TL
1.65	1.85	1.85	2.20	2.20	2.55	2.85	3.06
1.65	1.70	1.70	1.90	1.90	1.60	1.60	1.64
0.75	0.85	0.85	1.00	0.90	1.65	1.85	1.95
3.20	3.38	3.38	3.73	3.73	4.70	4.90	1.90
440	524	644	610	730	763	775	1,105
22/30	29/40	40/45	36/50	50/68	53/72	60/82	60/82
CAT I + II	CAT II	CAT II	CAT II	CAT II	CAT II + III	CAT II + III	CAT II + III
2	2	2	2	2	4	4	4
3	3	3	4	4	3	3	3
-	□	■	□	■	-	-	-
-	-	-	-	-	-	-	-
■	■	■	■	■	■	■	■
-	-	-	□	-	□	□	□
-	-	-	-	-	-	-	1x SAV, 1x DAV
540	540	540	540	540	1,000	1,000	1,000
■	■	■	■	■	■	■	■



Best harvest – based on tradition, innovation and passion.

FELLA FOR YOU

"We can't change the weather, but we have the machines that will allow you to make the most of any conditions."

Your FELLA team



PHILOSOPHY

For FELLA, close contact with our customers is very important. The experiences of farmers and agricultural contractors who use FELLA products around the world is collected and is purposefully incorporated into the design of our products.

PATENTS

It is FELLA's objective to create ingenious and sustainable solutions for our products. This has already been well documented through numerous FELLA patents.

SERVICE

"Out of sight, out of mind." But not at FELLA!

Together with our dealers, we are always there and ready to provide reliable support to our partners, both at home and abroad – as we have been doing for almost 100 years. In conjunction with our well organised spare parts stores, regular further technical training for our dealers ensures that FELLA machines can be used, maintained and repaired to a professional standard. This comprehensive service ensures minimum downtime for your FELLA machines and makes a significant contribution to high-yield and stress-free forage harvesting.



- ▶ *Exceptionally wide range of mowers, hay tedders and rakes*
- ▶ *Innovation and progress: continuous further development for a first-rate harvest*
- ▶ *Minimum downtime, maximum machine availability thanks to professional dealers and a well-organised spare parts supply*
- ▶ *Long service life machines "Made in Germany"*

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