



DISC MOWERS

Spur gear drive

- ▶ Light
- ▶ Efficient
- ▶ Robust



fella.eu

*Harvesting
Energy!*

BEST HARVEST

For more than 90 years, FELLA has always meant innovative technology, outstanding quality and personal passion in 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, conditioners, hay-making machines and swathers.

FELLA has been represented in all important 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 farm and his requirements.



FELLA – the forage harvesting specialist:

- ▶ *“Made in Germany” quality*
- ▶ *More than 90 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*

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.

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.



DISC MOWERS WITH SPUR GEAR DRIVE



WHY CHOOSE A FELLA DISC MOWER WITH SPUR GEAR DRIVE?

Light, robust and efficient: Thanks to the weight-reducing construction of FELLA disc mowers with spur gear drive, it is possible to achieve a wide working width even with smaller sized tractors. They therefore represent excellent cost-effectiveness and a high level of efficiency when harvesting forage. Because of the extremely flat cutter bar with mower discs running in pairs, a deeper, more uniform cut is possible and, at the same time, a clean cutting pattern is achieved.

FELLA disc mowers with spur gear drive are also an excellent acquisition thanks to their high level of operating convenience:

They are simple to attach and, because the working position can be hydraulically switched over to the transport position from the tractor seat, they are ready for use particularly quickly.



Benefits at a glance:

- ▶ Light and robust construction
- ▶ Extremely flat cutter bar with cutter discs which run in pairs
- ▶ High level of operational convenience

Opinions based on actual use:

"It didn't take long to decide to choose a disc mower from the lightweight spur gear series. The wider working width achieved with my small tractor was just as decisive a factor as the well established level of FELLA quality. The SM 2870 ISL has fully satisfied my expectations in every respect and allows me to manage forage harvesting faster than before."

Alex Skoranz,
farmer, Austria



LOW WEIGHT - WIDE COVERAGE

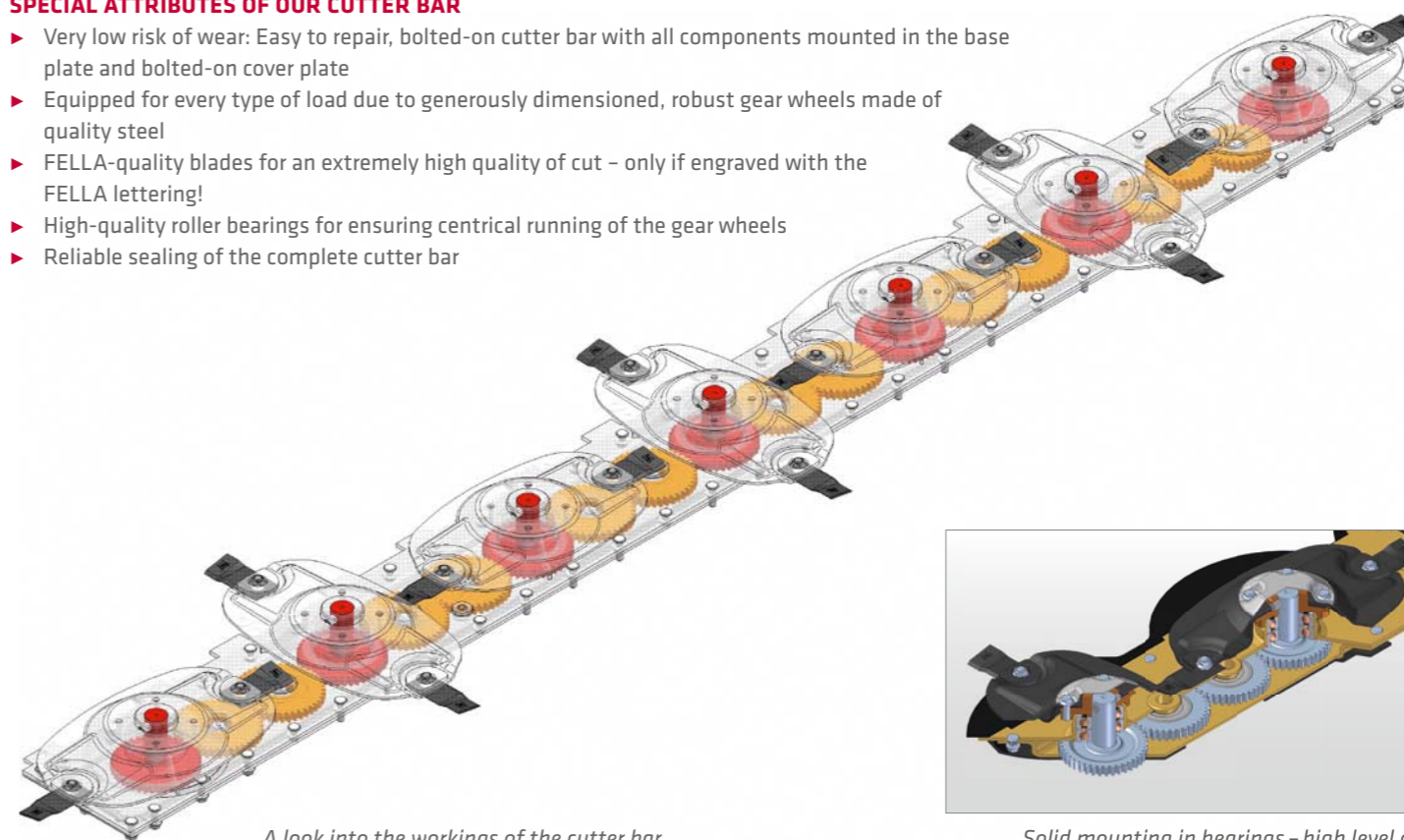
Disc mowers with spur gear drive persuade buyers because of their long working life and low operating costs. The lightweight construction maximises the yield even when smaller tractors are used because, with the disc mowers, considerably wider working widths can be achieved. Ease of maintenance is another plus point in favour of these lightweight mowers.

AN EXACT CUT - EVEN UNDER DIFFICULT CONDITIONS

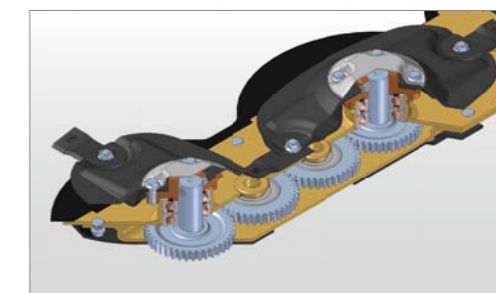
The cutter bar with gear wheels positioned next to each other is particularly flat. With elliptical discs, rotating swathformers and robust conveyor drums, it is possible to achieve a clean cutting pattern and good forage throughput even on difficult terrain.

SPECIAL ATTRIBUTES OF OUR CUTTER BAR

- ▶ Very low risk of wear: Easy to repair, bolted-on cutter bar with all components mounted in the base plate and bolted-on cover plate
- ▶ Equipped for every type of load due to generously dimensioned, robust gear wheels made of quality steel
- ▶ FELLA-quality blades for an extremely high quality of cut - only if engraved with the FELLA lettering!
- ▶ High-quality roller bearings for ensuring central running of the gear wheels
- ▶ Reliable sealing of the complete cutter bar



A look into the workings of the cutter bar



Solid mounting in bearings - high level of reliability when in use

At a glance:

- ▶ All drive elements run in an oil bath
- ▶ Flat construction with mower discs running in pairs
- ▶ Integrated, spring-loaded impact guard system provides protection if an obstruction is encountered when driving
- ▶ Effortless adjustment of the cutter bar to the terrain: Mowing on sloping terrain presents no problems
- ▶ Stone protection and wide, hardened skids fitted as standard
- ▶ Elastic V-belt drive

OVERVIEW OF DISC MOWER INTERNAL PARTS

Pages 10-11

SPUR GEAR DRIVE WITH INNER SKID

Classic disc mowers with spur gear drive for three-point attachment with inner skid and spring relief fitted as standard.



MACHINE DESIGNATIONS AND ABBREVIATIONS

- ▶ **SM:** Disc mowers
- ▶ **InLine:** Spur gear drive
- ▶ **ISL:** Spur gear drive, without inner skid

Machine designation	SM 168 InLine	SM 208 InLine	SM 248 InLine	SM 288 InLine
Approx. working width in m	1.66	2.06	2.42	2.82
Mower discs	4	5	6	7
Blades per mower disc	2	2	2	2
Approx. swath width in m	0.90	1.25	1.65	2.00
Approx. weight in kg	372	407	437	475
Power requirement approx. kW/hp	22/30	30/41	37/50	44/60

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SPUR GEAR DRIVE WITHOUT INNER SKID

Disc mowers with spur gear drive for three-point attachment without inner skid. With spring relief and quick-change blade system fitted as standard.



Machine designation	SM 2460 ISL	SM 2870 ISL	SM 3280 ISL
Approx. working width in m	2.42	2.82	3.18
Mower discs	6	7	8
Blades per mower disc	2	2	2
Approx. swath width in m	1.65	2.00	2.50
Approx. weight in kg	510	550	570
Power requirement approx. kW/hp	37/50	44/60	51/69

BEST HARVEST!

Based on tradition, innovation and passion.

Disc mowers with spur gear drive from FELLA



DISC MOWERS WITH SPUR GEAR DRIVE

SM 168 InLine
SM 208 InLine
SM 248 InLine
SM 288 InLine

- ▶ Successful in a variety of different ranges of application
- ▶ Suitable for use with smaller tractors
- ▶ Low drag



SM 248 InLine



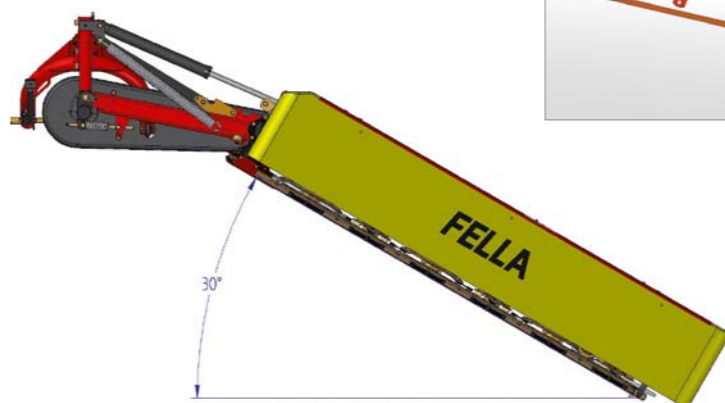
Foldable protective sheet



Spring relief



Elastic V-belt drive



Side hitch attachment:
Mowing possible
on sloping terrain

THREE-POINT ATTACHMENT WITH INNER SKID

THE CLASSIC MOWER

Because of their lightweight construction, FELLA disc mowers with inner skid are especially suitable for use with smaller tractors. The adjustable lower link pins allow a combination with an extremely wide variety of different tractors and tyre widths.

In addition, the low weight, together with the cutter bar spring relief system (fitted as standard) encourages a low ground surface pressure and, as a result, a less impactful treatment of the sward.

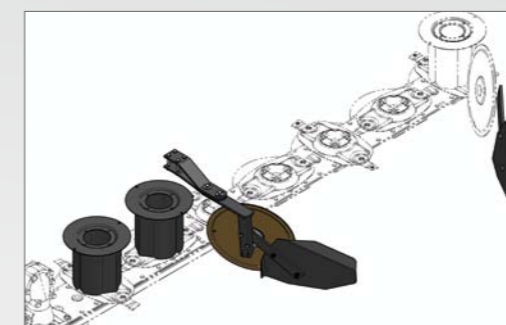
At a glance:

- ▶ Elastic V-belt drive with automatic V-belt tensioning
- ▶ Spring-loaded impact guard system: optimum protection if an obstruction is encountered when driving
- ▶ Cutter bar with spring relief
- ▶ Track adaptation thanks to adjustable lower link pin
- ▶ Protective sheet which can be folded on both sides for good accessibility during cleaning and maintenance work

High level of effectiveness even when smaller tractors are used

WE RECOMMEND:

- ▶ Quick-change blade system
- ▶ Swath guiding assembly



DISC MOWERS WITH SPUR GEAR DRIVE

SM 2460 ISL
SM 2870 ISL
SM 3280 ISL

- ▶ For demanding areas of deployment, especially on slopes
- ▶ Suitable for use with smaller tractors
- ▶ Low drag



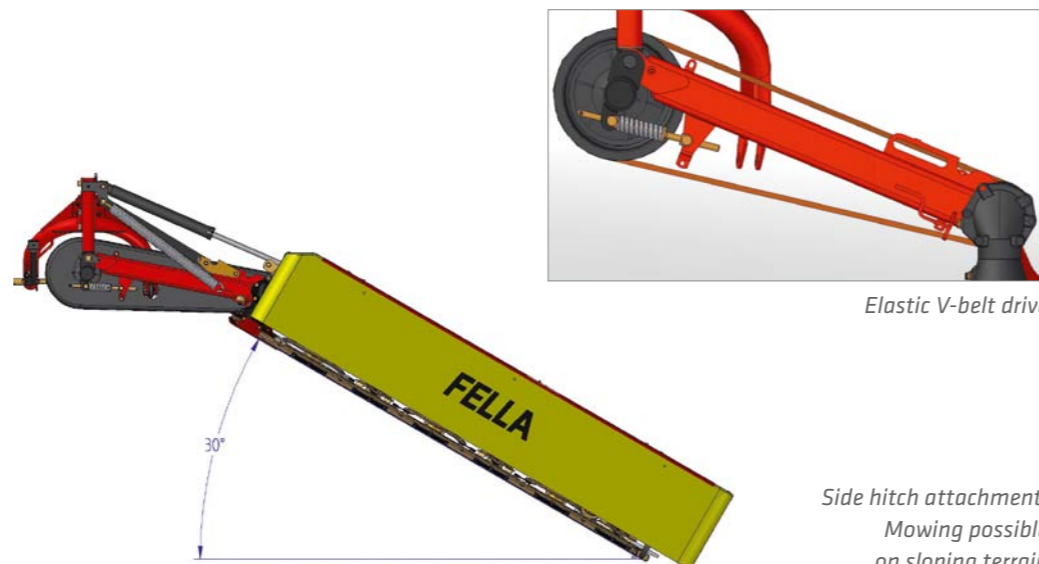
SM 2870 ISL



Foldable protective sheet



Spring relief



Elastic V-belt drive

Side hitch attachment:
Mowing possible on sloping terrain

THREE-POINT ATTACHMENT WITHOUT INNER SKID

SPECIALISTS FOR EXTREME CONDITIONS

FELLA disc mowers from the ISL series have no inner skid and were specially developed for particularly difficult terrain. Particularly in extreme hillside locations, the formation of mounds of forage is avoided using mowers without inner skid. In this way, an optimum forage flow and a clean cutting pattern is achieved even under extreme harvesting conditions.

At a glance:

- ▶ Drive provided from above directly into the first mower disc
- ▶ Elastic V-belt drive with automatic V-belt tensioning
- ▶ Spring-loaded impact guard system: optimum protection if an obstruction is encountered when driving
- ▶ Track adaptation thanks to adjustable lower link pin
- ▶ Protective sheet which can be folded on both sides for good accessibility during cleaning and maintenance work
- ▶ Lightweight and robust construction through support frame and support system on the outside edge of the mower

Quick-change blade system fitted as standard



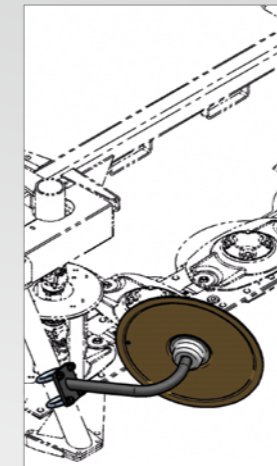
Mower without inner skid: Drive in the first mower disc



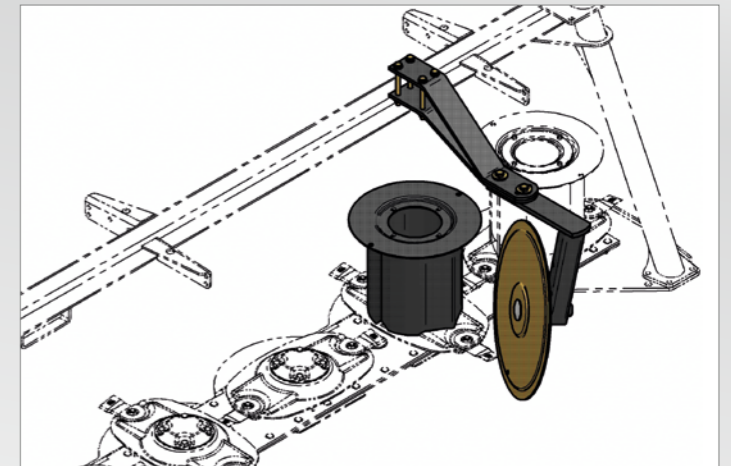
Support frame / Support system from outside

WE RECOMMEND:

- ▶ Additional second swath disc on the right and left-hand side for depositing an even narrower swath



Left



Right

TECHNICAL SPECIFICATIONS

	SM 168 InLine	SM 208 InLine	SM 248 InLine	SM 288 InLine	SM 2460 ISL	SM 2870 ISL	SM 3280 ISL
Dimensions and weight							
Approx. working width in m	1.66	2.06	2.42	2.82	2.42	2.82	3.18
Approx. transport width in m	1.73	1.73	1.73	1.73	1.80	1.80	1.80
Approx. swath width in m	0.90	1.25	1.65	2.00	1.65	2.00	2.50
Approx. transport height in m	2.47	2.85	3.23	3.61	3.30	3.70	3.99
Approx. weight in kg	372	407	437	475	510	550	570
Power requirement							
Power requirement approx. kW/hp	22/30	30/41	37/50	44/60	37/50	44/60	51/69
Attachment							
Attachment category	I + II	I + II	I + II	I + II	I + II	I + II	II
Mower unit							
Number of mower discs	4	5	6	7	6	7	8
Blades per mower disc	2	2	2	2	2	2	2
Quick-release blade system	□	□	□	□	■	■	■
Conditioner	-	-	-	-	-	-	-
Hydraulics and PTO stub shaft							
Required hydraulic connections	1 x single-acting	1 x single-acting	1 x single-acting	1 x single-acting	1 x single-acting	1 x single-acting	1 x single-acting
PTO stub shaft speed rpm	540	540	540	540	540	540	540
Drive shaft with freewheel	□	□	□	■	□	■	■

■ Series □ Equipment variant - not available



Best harvest – based on tradition, innovation and passion

FELLA FOR YOU

"We can't change the weather, but we have the machines that can make the most of it in any conditions."

Your FELLA team



PHILOSOPHY

For FELLA, close contact with its customers is very important. The experiences of farmers and agricultural contractors who use FELLA products is collected from the various markets around the world and is purposefully incorporated in 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 now 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.



- ▶ *Exceptionally wide range of mowers, hay tedders and swathers*
- ▶ *Innovation and progress: continuous further development for the best harvest*
- ▶ *Deployment reliability thanks to professional dealers and well organised spare parts stores*
- ▶ *Long service life machines "Made in Germany"*

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