



# DISC MOWERS

Spur gear drive

- ▶ Light
- ▶ Efficient
- ▶ Robust



## 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.

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.*



## 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 appeal to customers thanks to their high level of operational convenience: They are simple to attach and, thanks to the hydraulic switching over from the working position to the transport position from the tractor cab, they are ready for use particularly quickly.



### Benefits at a glance:

- ▶ *Light and robust construction*
- ▶ *Extremely flat cutter bar with mower discs which run in pairs*
- ▶ *High level of operational convenience*
- ▶ *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 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 Skorianz,  
Farmer, Austria



HIGH-  
QUALITY  
ROLLER  
BEARINGS

#### LOW WEIGHT – WIDE COVERAGE

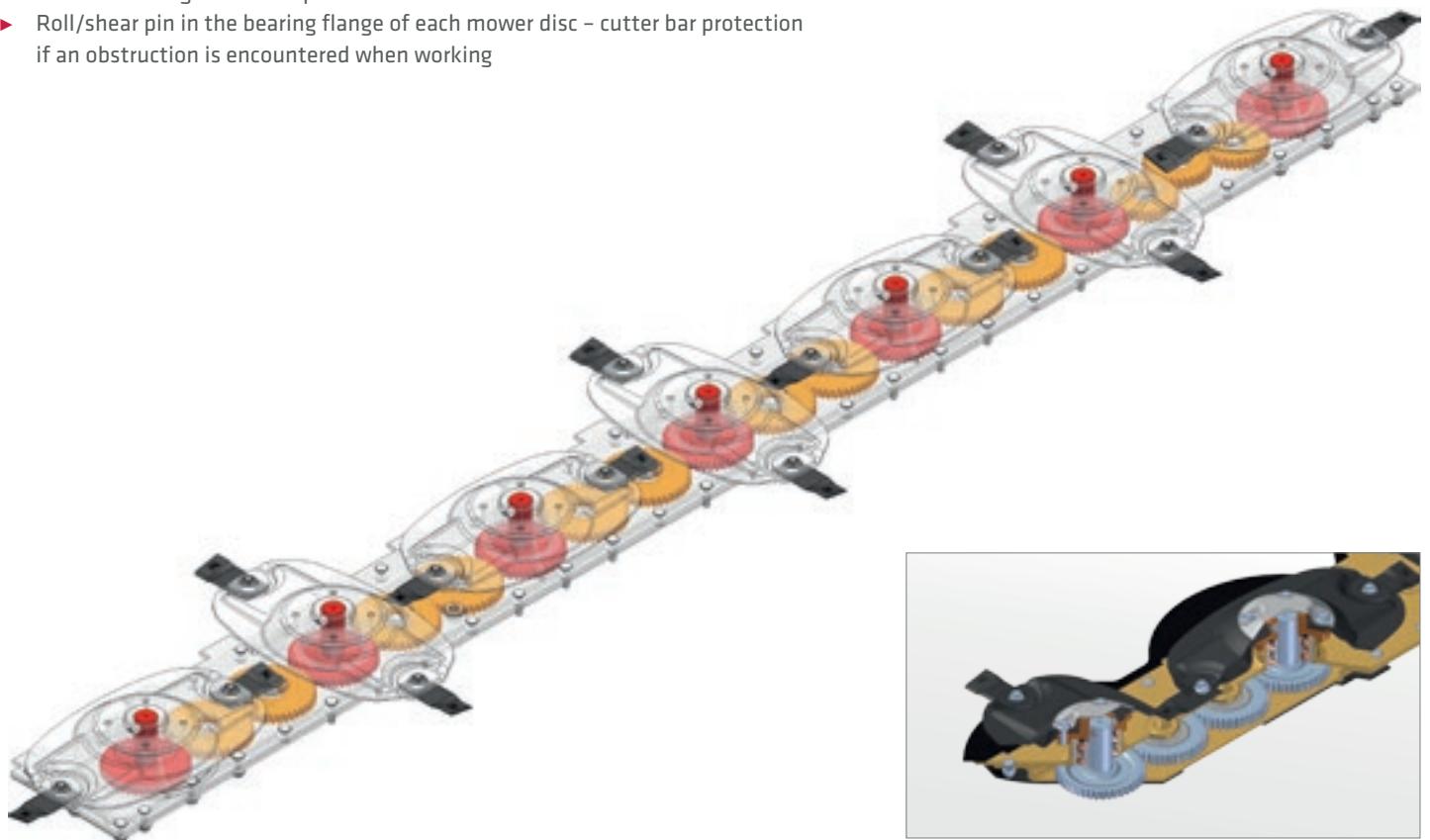
Disc mowers with spur gear drive convince buyers because of their long working life and low operating costs. The lightweight construction maximises the yield even when smaller tractors are used because, with the disc mowers, considerably wider working widths can be achieved. Ease of maintenance is another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

#### AN EXACT CUT – EVEN UNDER DIFFICULT CONDITIONS

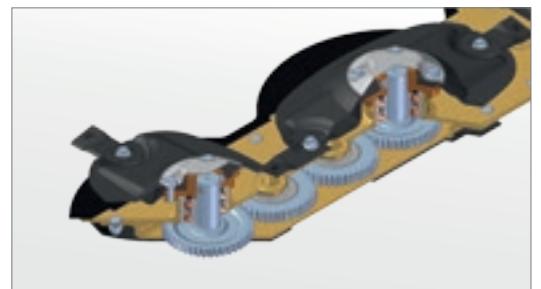
The cutter bar with gear wheels positioned next to each other is particularly flat. With elliptical discs, rotating swathformers and robust conveyor drums, it is possible to achieve a clean cutting pattern and good forage throughput even on difficult terrain.

#### 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 high 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 centrical running of the gear wheels
- ▶ Reliable sealing of the complete cutter bar
- ▶ Roll/shear pin in the bearing flange of each mower disc – cutter bar protection if an obstruction is encountered when working

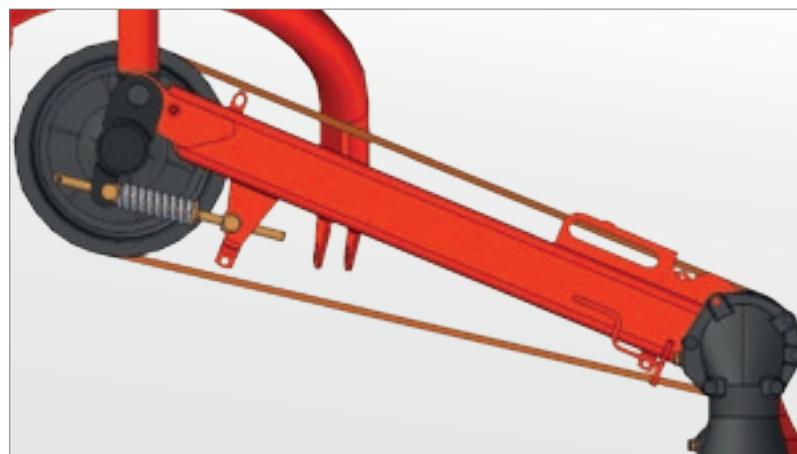


*A look into the workings of the cutter bar*



*Solid mounting in bearings – high level of reliability when in use*

## DISC MOWERS WITH SPUR GEAR DRIVE



Elastic V-belt drive

### ELASTIC V-BELT DRIVE

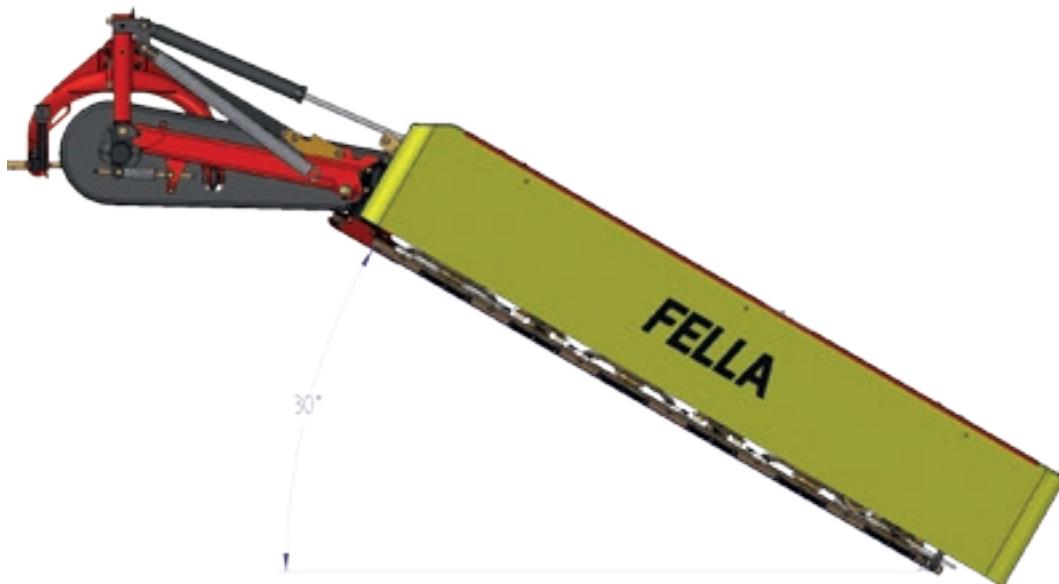
The robust yet elastic drive which uses a large-dimensioned V-belt with automatic tensioner always transfers the power reliably. This also protects the drive line against damage in the event of overload.



Standard spring relief

### CUTTER BAR EQUIPPED WITH SPRING RELIEF AS STANDARD

The mechanical spring relief has a very quick response rate when working and ensures extremely good ground contour following of the cutter bar, protection of the sward and, therefore, clean and high-quality forage.



*Side hitch attachment:  
Mowing possible on sloping terrain*

#### **MOWING ON SLOPING TERRAIN THANKS TO THE EFFORTLESS ADJUSTMENT OF THE CUTTER BAR TO THE TERRAIN**

Thanks to the 30° pivot angle of the cutter bar, it is also possible to work cleanly on ditches and slopes. The oil maintenance of the cutter bar is designed in such a way that reliable lubrication of all components is guaranteed at all times.

#### **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 working
- ▶ Effortless adjustment of the cutter bar to the terrain:  
*Mowing on sloping terrain presents no problems*
- ▶ Cutter bar with spring relief as standard
- ▶ Stone protection and wide, hardened skids fitted as standard
- ▶ Elastic V-belt drive

## OVERVIEW OF DISC MOWER INTERNAL PARTS

Page 12-13

### 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



Page 16-17

### 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 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
Approx. power requirement in kW/hp	22/30	30/41	37/50	44/60

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
Approx. power requirement in kW/hp	37/50	44/60	51/69

Disc mowers with spur gear drive with inner skid from FELLA



# FIRST-RATE HARVEST!

Based on tradition, innovation and passion.



## DISC MOWERS – SPUR GEAR DRIVE

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

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



SM 248 InLine



*Foldable protective sheet*



*Spring relief*



*Transport position*

## 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 fitting to 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, less compaction of the field.

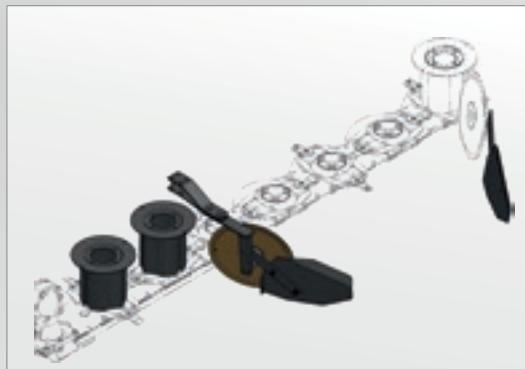
### At a glance:

- ▶ *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



\*AS AN OPTION

Disc mowers with spur gear drive without inner skid from FELLA



# FIRST-RATE HARVEST!

Based on tradition, innovation and passion.



## DISC MOWERS – SPUR GEAR DRIVE

### SM 2460 ISL SM 2870 ISL SM 3280 ISL

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



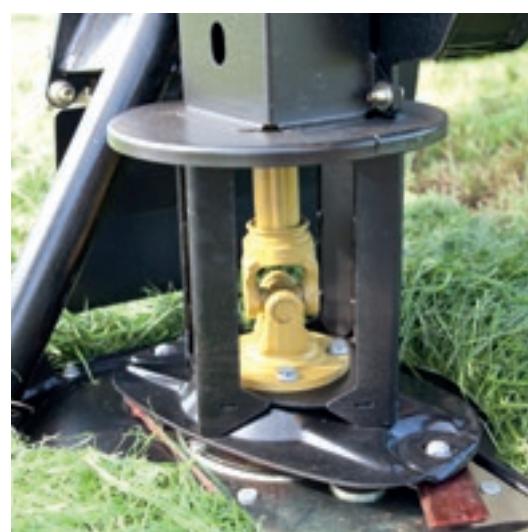
SM 2870 ISL



*Foldable protective sheet*



*Spring relief*



*Drive provided from above directly into the first mower*



*Transport position*

# THREE-POINT ATTACHMENT WITHOUT INNER SKID

## SPECIALISTS FOR EXTREME CONDITIONS

FELLA disc mowers from the ISL series have no inner skid and have been specially developed for particularly difficult terrain. Especially in difficult 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, i.e. even on slopes, mounds of forage are not formed
- ▶ Elastic V-belt drive with automatic V-belt tensioning
- ▶ Spring-loaded impact guard system: optimum protection if an obstruction is encountered when driving
- ▶ Track following 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

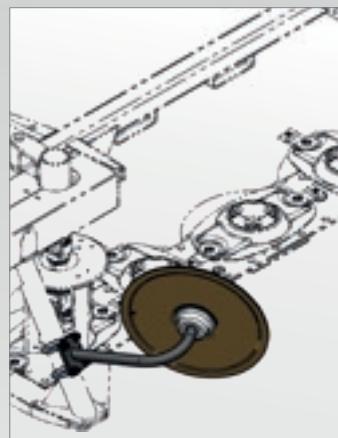
Quick-change blade  
system fitted as  
standard



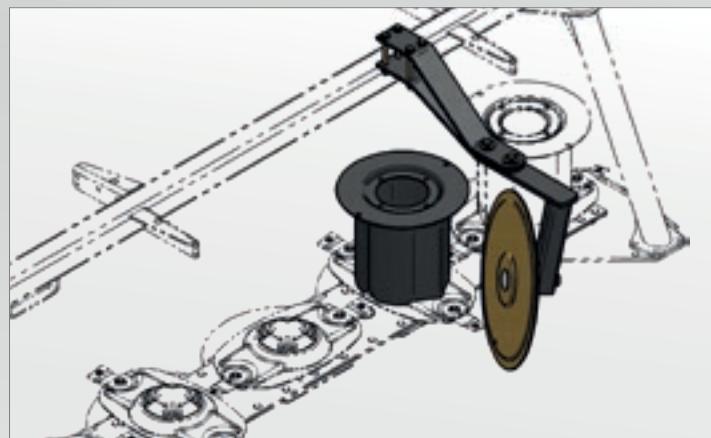
Support frame / Support system from outside

## 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
Dimensions and weight						
Approx. working width in m	1.66	2.06	2.42	2.82	2.42	2.82
Approx. transport width in m	1.73	1.73	1.73	1.73	1.80	1.80
Approx. swath width in m	0.90	1.25	1.65	2.00	1.65	2.00
Approx. transport height in m	2.47	2.85	3.23	3.61	3.30	3.70
Approx. weight in kg	372	407	437	475	510	550
Power requirement						
Approx. power requirement in kW/hp	22/30	30/41	37/50	44/60	37/50	44/60
Attachment						
Three-point	CAT I + II	CAT I + II	CAT I + II			
Mower unit						
Number of mower discs	4	5	6	7	6	7
Blades per mower disc	2	2	2	2	2	2
Quick-release blade system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Conditioners	-	-	-	-	-	-
Hydraulics and PTO stub shaft						
Required hydraulic connections	1 x SAV	1 x SAV	1 x SAV	1 x SAV	1 x SAV	1 x SAV
Shaft speed rpm	540	540	540	540	540	540
Drive shaft with freewheel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

■ Series    Equipment variant   - not available

**SM 3280 ISL**

3.18
1.80
2.50
3.99
570
51/69
CAT II
8
2
■
-
1 x SAV
540
■



*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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Your FELLA quality partner