



Harvesting Energy



Your contact persons in Feucht:

Order processing:

Monika Dunson	Tel.	+49 (0) 91 28/73 228
Arturo Vázquez	Tel.	+49 (0) 91 28/73 256
	Fax	+49 (0) 91 28/73 117

Spare parts department:

Thorsten Biller	Tel.	+49 (0) 91 28/73 111
Petra Link	Tel.	+49 (0) 91 28/73 111
	Fax	+49 (0) 91 28/73 110

After sales service:

Rainer Bänisch	Tel.	+49 (0) 91 28/73 229
Claudio Keiner	Tel.	+49 (0) 91 28/73 229
Markus Schlieter	Tel.	+49 (0) 91 28/73 229
	Fax	+49 (0) 91 28/73 110

Marketing:

Dagmar von der Linden	Tel.	+49 (0) 91 28/73 297
	Fax	+49 (0) 91 28/73 117



Productline 2010

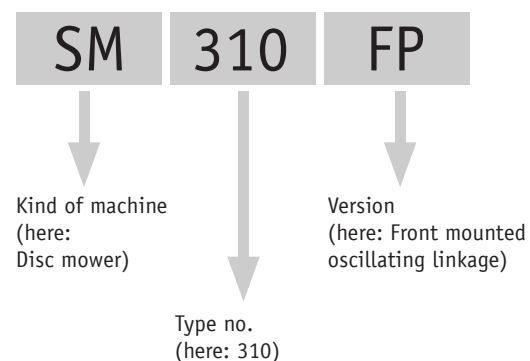


FELLA-Werke GmbH
Fellastrasse 1-3
D-90537 Feucht
Tel. +49 (0) 91 28/73 0
www.fella.eu



Mowers | Tedders | Rakes

Example machine denomination:



Kinds of machine:

KM drum mower
SM disc mower
TH tedder
TS rake

Versions:

D three-point linkage
DN three-point linkage with follow-up device
DS three-point linkage rigid
FK front mounted compact linkage
FK-S front mounted compact linkage with side-shift
FP front mounted oscillating linkage
FP-S front mounted oscillating linkage with lateral displacement
FZ front mounted trailing linkage
Hydro hydraulic operation
InLine spur gear drive
ISL spur gear drive without inner skid
KC tine rotor conditioner
L light series
RC roller conditioner with rubber profile unit
T drawbar with driven tines
TL Turbolift system
Trans transport chassis

Stated assembly times are meant without preparation time and without adaptation to tractor.

All stated information about dimension and weight is approx. and without obligation.

We reserve ourselves the right to modify design.

 All FELLA products are based on EU Machinery Directive.

Drum mowers

Mowing drum	The most important features	6
Front mounted Oscillating linkage	g linkage.....	8
	Headstock with trailing linkage.....	10
3-point linkage Side attachment	.....	12
Middle attachment	.....	16

Disc mowers - Spur gear drive

3-point linkage InLine-serie	.....	20
SL-serie	.....	22

Disc mowers - Compact angular gear

Compact angular gear	The most important features	24
Front mounted - alpin Compact linkage	.....	26
Oscillating linkage	.....	28
Front mounted Oscillating linkage	.....	30
	Headstock with trailing linkage.....	32
Rear-3-point linkage Side attachment	.....	34
Middle attachment	.....	42
Mower combination	.....	46
Pulled With transport chassis	.....	50
With wheel support	.....	52

Conditioners

Rear-3-point linkage Tine rotor-conditioner	.....	56
Conditioner for retrofitting	.....	58

Tedder

„Combination mower - tedder alpin-serie“

Rear - 3 point linkage alpin-serie	64
---	-------	----

Combination mower - tedder

Rotorhead	The most important features	68
Rear-3 point linkage With follow-up device	.....	70
Pulled With transport chassis	.....	72
Drawbar	.....	74
Lower link mounting	.....	78

Rakes

Rotorhead	The most important features	82
Rear-3 point linkage Rigid headstock	.....	84
With follow-up device	.....	86
Pulled Drawbar	.....	90
Transport chassis Lateral windrow deposition	.....	94
2-Rotor central rakes	.....	98
4-Rotor central rakes	.....	102



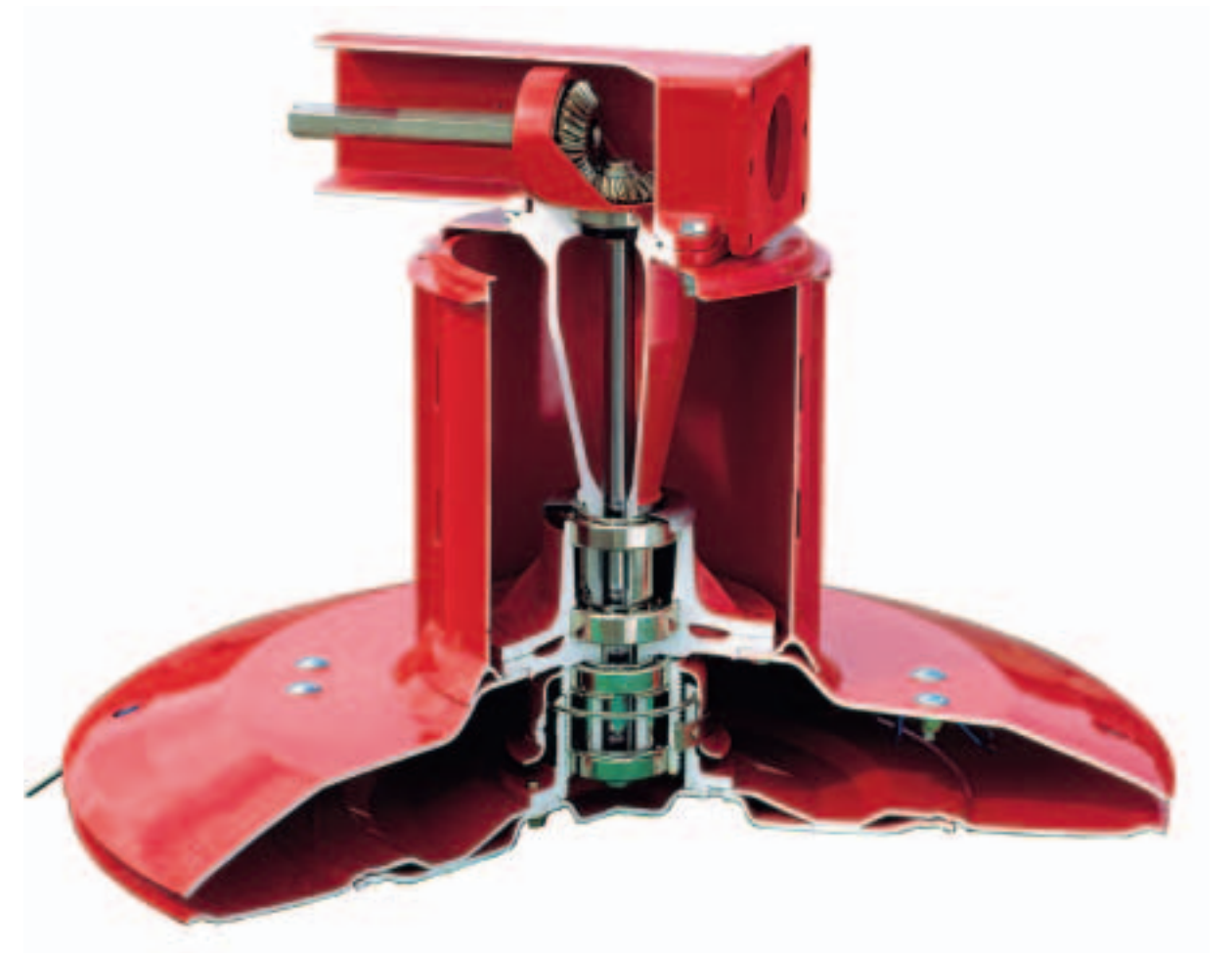
Drum mowers
Drum mowers

Drum mowers

Mowing drum

The most important features

Feature	Benefit
Large dimensioned square steel gear frame	<ul style="list-style-type: none"> • Torsion-resistant • Long service life
Drive via hexagonal shaft	<ul style="list-style-type: none"> • Uniform power output to all mowing drums
Flange-mounted mowing drums, screw connection accessible from the outside	<ul style="list-style-type: none"> • Quick disassembly of the drive train is possible
Mowing drum screwed-on – not welded-on	<ul style="list-style-type: none"> • Easy to maintain
Drive of the mowing drum via spiral bevel gears with Gleason spiral teeth running in the oil bath	<ul style="list-style-type: none"> • Lifetime oil filling • Long service life • Smooth running
Supported in 5 points: <ul style="list-style-type: none"> • Mowing drum supported in 3 points in the main load area • Sliding plates supported in two points 	<ul style="list-style-type: none"> • High stability, even for applications with extreme load
Revolving screw-connected two-piece sliding plate	<ul style="list-style-type: none"> • Low wear • Easy to replace in case of wear • Protection of the sod • No accumulation of soil and forage • Low forage contamination
Large passage between the mowing drums running in pairs, transport rails as effective conveyor aid	<ul style="list-style-type: none"> • High forage throughput • Trouble-free forage flow • Clean cutting pattern
Standard rapid-exchange system for the blades	<ul style="list-style-type: none"> • Quick change of the blades • Reduced maintenance time
Offset reserve drill holes for blade holder at the rotor disk	<ul style="list-style-type: none"> • When replacing worn blade holders, the new ones can be screwed into the new drill holes • Easy to maintain





Drum mowers

Front mounted
Oscillating linkage



Feature

Power input between the mowing drums

Elastic drive via 4 V-belts with automatic tensioning device

Compact attachment to the tractor

Suspension of the mowing unit above the swinging axle

Spring relief on the side of the tractor in the direction of the upper link pivot point

Perforated plate at the 3-point linkage for individual positioning of the relief springs

Continuously variable adjustment of the cutting height (45 to 73 mm)

Closed adjustment unit

Standard swath guiding device (2 swath disks right and left each), exception KM 230 FP: only 1 right (standard)

Standard rapid-exchange system for the blades

Optional V-belt pulley for reduced speed (1000 -> 840 and/or 540 -> 450 rpm)

Benefit

- Optimum power train
- No unilateral load

- Safe power train
- Overload-protected
- Low wear

- Center of gravity close to the tractor
- Low load for tractor and machine

- Optimum adjustment to the ground by virtue of pendulum radius of +/- 6.5°

- Uniform load over the entire working width

- Optimum relief adjustable
- Application of telescopic upper link is possible

- Easy adjustment to different application conditions

- No penetration of dirt and humidity
- Long service life

- Clean swath positioning between the tractor wheels

- Quick change of the blades
- Reduced maintenance time

- Fuel-efficient
- For the operation of a trailer with loading facility

Denomination of machine	KM 230 FP	KM 270 FP	KM 300 FP	KM 310 FP
Ref. Nr. 1000 PTO rpm, left	714 556 0000	714 576 0000	714 586 0000	714 596 0000
Mounting Category	II			
Working width approx. m	2,20	2,55	2,85	3,06
Transport width approx. m	2,15	2,50	2,80	3,00
Transport length approx. m	1,41	1,29		1,39
Capacity approx. ha/h	2,70	3,20	3,50	3,75
Mower drums	2	4		
Blades per drum	4	3		
Swath width approx. m	0,95	0,70 - 1,10	0,85 - 1,10	1,10 - 1,35
Power demand approx. kW/hp	36/49	48/65	55/75	
PTO rpm	540/1000			
Overrunning clutch	standard			
Weight approx. kgs	603	726	766	856
Assembling time h	assembled		1,0	

Rotation of PTO-shaft (standing in front of the tractor looking to front PTO-shaft).

Special equipment	reference no.	
Cat. II triangular coupling frame (on the tractor)	712 814 0000	
V-belt pulley for reduced input speed; for self-loading trucks that cannot be operated with full PTO shaft speed; speed reduction from 1000 rpm to 840 rpm or from 540 rpm to 450 rpm, respectively	714 704 0000	
Swath disk left for KM 230 FP; recommended for <ul style="list-style-type: none"> • central front attachment to prevent driving over the swath • difficult operating conditions, swath width approx. 0,85 m 	714 734 0000	
Lamp holder	714 741 0000	
Set of mowing drum clamps for 2 mower disks; to increase the output	714 745 0000	



Drum mowers

Front mounted
Headstock with trailing linkage



Feature	Benefit
Power input between the mowing drums	<ul style="list-style-type: none"> • Optimum power train • No unilateral load
Elastic drive via 4 V-belts with automatic tensioning device	<ul style="list-style-type: none"> • Safe power train • Overload-protected • Low wear
Parallel adjustment of the mowing unit to ground unevenness	<ul style="list-style-type: none"> • Optimum adjustment to the ground • Protection of the sod
Extremely easy pulling as the point of pull is close to the front „Towing is easier than pushing“	<ul style="list-style-type: none"> • Ground protecting • Fuel-efficient
Large pendulum radius of the mowing unit due to the overhead frame	<ul style="list-style-type: none"> • Pendulum radius 30°
Large lifting distance due to integrated hydraulic cylinder in connection with the front hydraulic system	<ul style="list-style-type: none"> • Lifting height 360 mm • Total lifting distance 490 mm
Continuously variable adjustment of the cutting height (45 to 73 mm)	<ul style="list-style-type: none"> • Easy adjustment to different application conditions
Closed adjustment unit	<ul style="list-style-type: none"> • No penetration of dirt and humidity • Long service life
Standard swath guiding device (2 swath disks right and left each)	<ul style="list-style-type: none"> • Clean swath positioning between the tractor wheels
Standard rapid-exchange system for the blades	<ul style="list-style-type: none"> • Quick change of the blades • Reduced maintenance time
Optional V-belt pulley for reduced speed (1000 -> 840 and/or 540 -> 450 rpm)	<ul style="list-style-type: none"> • Fuel-efficient • For the operation of a trailer with loading facility

Denomination of machine	KM 310 FZ
Ref. Nr. 1000 PTO rpm, left	714 591 0000
Mounting Category	II
Working width approx. m	3,06
Transport width approx. m	3,00
Transport length approx. m	1,39
Capacity approx. ha/h	3,75
Mower drums	4
Blades per drum	3
Swath width approx. m	1,10 - 1,35
Power demand approx. kW/hp	55/75
Necessary hydraulic outlets	1 x SAV*
PTO rpm	540/1000
Overrunning clutch	standard
Weight approx. kgs	910
Assembling time h	1,0

* single acting valve

Rotation of PTO-shaft (standing in front of the tractor looking to front PTO-shaft).

Special equipment	reference no.
Cat. II triangular coupling frame (on the tractor)	712 814 0000
V-belt pulley for reduced input speed; for self-loading trucks that cannot be operated with full PTO shaft speed; speed reduction from 1000 rpm to 840 rpm or from 540 rpm to 450 rpm, respectively	714 704 0000
Lamp holder	714 741 0000
Set of mowing drum clamps for 2 mower disks; to increase the output	714 745 0000



Drum mowers

3-point linkage
Side attachment



Feature

Elastic drive via 4 V-belts with automatic tensioning device

Spring-loaded anti-collision device (KM 167: shear bolt)

Track adjustment via adjustable lower link bolts

Switch from working position to transport position from the tractor seat (except for KM 167)

Automatic transport lock

Optional hydraulic lifting device

Foldable protection covers

Standard rapid-exchange system for the blades

Optional intermediate disks for adjusting the cutting height (+ 9 mm)

Conditioner can be retrofitted a y time (except for KM 167)

Benefit

- Safe power train
- Overload-protected
- Low wear

- Optimum protection when colliding with an obstacle

- Adjustment to different tractors and tire sizes
- Utilization of the entire working width

- High comfort of operation

- High safety during road transport

- More compact transport position
- Mowing of slopes is possible

- Easy accessibility for cleaning and maintenance work

- Quick change of the blades
- Reduced maintenance time

- Adjustment to different application conditions

- High fl xibility

Denomination of machine	KM 167	KM 187	KM 187 KC	KM 225	KM 225 KC
Reference number	714 401 0000	714 411 0000	714 411 0000 + 714 323 0000	714 430 0000	714 430 0000 + 714 323 0000
Mounting Category	I+II*	II			
Working width approx. m	1,65	1,85		2,20	
Transport width approx. m	1,65	1,70		1,90	
Capacity approx. ha/h	2,00	2,25		2,70	
Mower drums	2				
Blades per drum	3			4	
Swath width approx. m	0,75	0,85		1,00	0,90
Power demand approx. kW/hp	22/30	29/40	40/55	36/50	50/68
Necessary hydraulic outlets	-				
PTO rpm	540				
Overrunning clutch	standard				
Warning panels	-				
Electric lightning	-				
Weight approx. kgs	440	524	644	610	730
Assembling time h	1,0		1,5	1,0	1,5

* special equipment

Special equipment	reference no.
Conditioner KC 187/225; Additional power requirement approx. 12 kW (16 hp); weight approx. 120 kg; (relief spring 714729 is recommended for KM 187)	714 323 0000
Intermediate shaft for KM 225; only required for KM 225 with Conditioner attachment + hydraulic lifting device	714 324 0000
Spring relief for KM 168/187	714 729 0000
Hydraulic lifting device for KM 167, increases the adjustment to the ground when working on slopes	714 730 0000
Hydraulic lifting device for KM 187/225; increases the adjustment to the ground when working on slopes; intermediate joint 714324 additionally required for KM 225 + KC	714 731 0000
Rotating swath former for KM 225; to be attached on the right side of the machine (in driving direction), swath width approx. 0,90 m	714 735 0000
1 set of intermediate disks for adjusting the cutting height (for 2 -mowing drums); increase of the cutting height by 9 mm	714 738 0000
Lamp holder; for machines without hydraulic lifting device	714 739 0000
Lamp holder; for machines with hydraulic lifting device	714 740 0000
Extension of the lower control arm connections (by 100 mm) for KM 187/225	714 743 0000
Cat II three-point pivot for KM 167	714 737 0000



Drum mowers

3-point linkage
Side attachment



Feature

Elastic drive via 4 V-belts with automatic tensioning device

Standard spring relief

Spring-loaded anti-collision device

Track adjustment via adjustable lower link bolts

Switch from working position to transport position from the tractor seat

Automatic transport lock

Foldable protection covers

Standard rapid-exchange system for the blades

Optional intermediate disks for adjusting the cutting height (+ 9 mm)

Optional swath guiding device (2 swath disks right and left each)

Benefit

- Safe power train
- Overload-protected
- Low wear

- Always uniform contact pressure
- Optimum adjustment to the ground
- Clean cutting pattern
- Protection of the sod

- Optimum protection when colliding with an obstacle

- Adjustment to different tractors and tire sizes
- Utilization of the entire working width

- High ease of operation

- High safety during road transport

- Easy accessibility for cleaning and maintenance work

- Quick change of the blades
- Reduced maintenance time

- Adjustment to different application conditions

- Narrower swath positioning

Denomination of machine	KM 262	KM 292
Reference number	714 435 0000	714 437 0000
Mounting Category	II+III	
Working width approx. m	2,55	2,85
Transport width approx. m	1,60	
Transport length approx. m	4,70	4,90
Capacity approx. ha/h	3,20	3,50
Mower drums	4	
Blades per drum	3	
Swath width approx. m	1,65	1,85
Power demand approx. kW/hp	53/72	60/82
Necessary hydraulic outlets	-	
PTO rpm	1000	
Overrunning clutch	standard	
Warning panels	-	
Electric lightning	-	
Weight approx. kgs	750	790
Assembling time h	1,5	

Special equipment	reference no.	
Articulated fork W2400-1 3/8" (21); additional delivery	712 863 0000	
Swath guiding device; consisting of 2 rotating swath disks on the right and on the left side; required for self-loading truck operation; minimum swath width approx. 0,80 m (KM 262)/ 0,95 m (KM 292)	714 750 0000	
1 set of intermediate disks for adjusting the cutting height (for 2 mowing drums); increase of the cutting height by 9 mm, 2 sets necessary	714 738 0000	
Hydraulic intermediate lift for KM 262, 292; 1x SAV required	714 732 0000	



Drum mowers

3-point linkage
Center attachment



Feature

Mowing unit suspended at the center of gravity

Pulled suspension of the mowing unit
„Pulling is easier than pushing“

Spring-loaded anti-collision device

Constant, continuously variable contact pressure
by means of hand wheel (no tools required)

Contact pressure adjustable while driving

Hovering cut

Mower can easily be unpressurised by means of the
push button during parking

Standard rapid-exchange system for the blades

Optional intermediate disks for adjusting the cutting
height (+ 9 mm)

Benefit

- Excellent ground adjustment
- Relief of the lifting arms at the tractor

- Ground protecting
- Fuel-efficient

- Optimum protection when colliding with an obstacle

- Very easy adjustment to different application conditions

- Passing of wet areas with low contact pressure is possible
- No damage to the sod
- No forage contamination

- Low load of bearing frame and supporting tube
- Protection of the sod

- Mower is completely unpressurised when parked
> No danger, for example to playing children

- Quick change of the blades
- Reduced maintenance time

- Adjustment to different application conditions

Denomination of machine	KM 310 TL
Reference number	714 445 0000
Mounting Category	II+III
Working width approx. m	3,06
Transport width approx. m	1,90
Transport height approx. m	3,99
Capacity approx. ha/h	3,75
Mower drums	4
Blades per drum	3
Swath width approx. m	1,95
Power demand approx. kW/hp	60/82
Necessary hydraulic outlets	1 x SAV*, 1 x DAV**
PTO rpm	1000
Overrunning clutch	standard
Warning panels	standard
Electric lightning	standard
Weight approx. kgs	1105
Assembling time h	2,0

* single acting valve

** double acting valve

Special equipment	reference no.	
Articulated fork W2400-1 3/8" (21); additional delivery	712 863 0000	
Swath guiding device; consisting of 2 rotating swath disks on the right and on the left side; required for self-loading truck operation; minimum swath width 1.10 m	714 750 0000	
1 set of intermediate disks for adjusting the cutting height (for 2 mowing drums); increase of the cutting height by 9 mm, 2 sets necessary	714 738 0000	



Disc mowers
Disc mowers



Disc mowers

3-point linkage
Spur gear drive



Feature

The gears run in an oil bath

- 1 Flexible V-belt drive
- 2 Roll/shear pin in the bearing flange of each cutter disc
- 3 The cutter bar has a very flat profile with cutter disc which run in pairs
- 4 The cutter bar has a stone guard and large hardened skid as standard
- 5 Lightweight but although robust construction

Protective cloth, folds to both sides

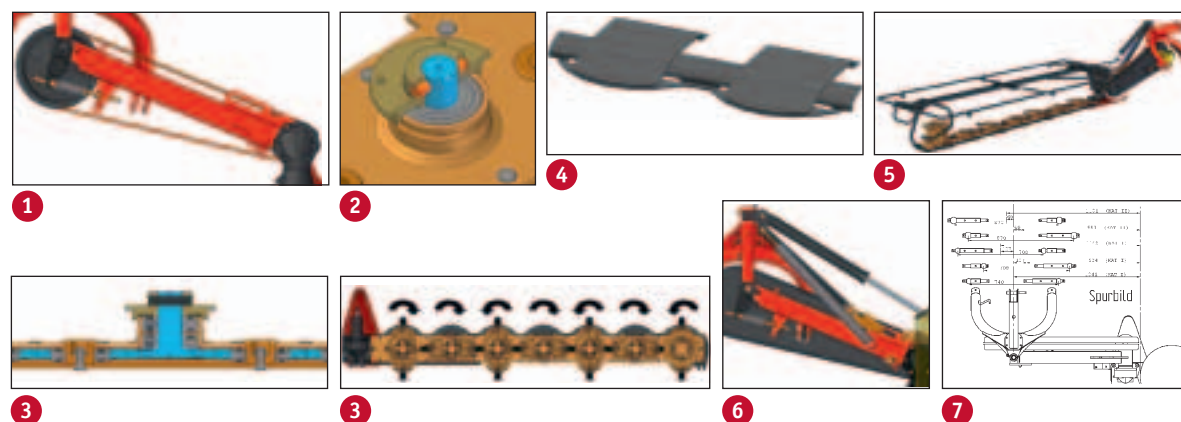
- 6 With spring-mounted cutter bar as standard
- 7 Track adaptation by means of adjustable lower link pins CAT I and II

Spring-loaded anti-collision device

The mower can be lifted at the headland without using the tractor's three-point linkage

Benefit

- This ensures proper lubrication of the drive in every mowing situation
- Minimization of mower wear
- Drive protection in case of racking in a obstacle
- Good cutting results
- Deep cutting is possible
- Long life
- Low operating cost
- Large cutting widths can also be achieved with small tractors
- Gentle on the turf sward
- Very good cost (required hp) to yield (mowing capacity) ratio
- Easy access for cleaning and maintenance (e.g. changing blades)
- Low ground pressure
- Gentle on the turf sward
- The mower is adaptable to different tractor types and sizes of tire
- Optimum protection when colliding with an obstacle
- The mower set-up at the three point hydraulic linkage is maintained throughout the mowing operation



Denomination of machine	SM 168 InLine	SM 208 InLine	SM 248 InLine	SM 288 InLine
Reference number	712 014 0000	712 016 0000	712 018 0000	712 019 0000
Mounting Category	I+II			
Working width approx. m	1,66	2,06	2,42	2,82
Transport width approx. m	1,73			
Transport height approx. m	2,47	2,85	3,23	3,61
Capacity approx. ha/h	2,00	2,40	2,70	2,80
Mower discs	4	5	6	7
Blades per disc	2			
Swath width approx. m	0,90	1,25	1,65	2,00
Power demand approx. kW/hp	22/30	30/41	37/50	44/60
Necessary hydraulic outlets	1 x SAV*			
PTO rpm	540			
Overrunning clutch	optional			standard
Weight approx. kgs	372	407	437	475
Assembling time h	4,0			

* single acting valve

Special equipment	reference no.
Drive shaft with overrunning clutch for SM 168 InLine; required for tractors fitted with PTO brake; supplied	712 706 0000
Drive shaft with overrunning clutch for SM 208/248 InLine; required for tractors fitted with PTO brake; supplied	712 710 0000
Drive shaft with overrunning clutch for SM 168/208/248 InLine; required for tractors fitted with PTO brake; additional delivery	712 711 0000
Swath guide (left) for SM 168/208/248 InLine; to deposit a narrow swath; consisting of rotating swath former, feeder drum, swathing plates (left + right), swath width approx. 0,55/0,95/1,30 m	712 822 0000
Swath guide (left) for SM 288 InLine, to deposit a narrow swath; consisting of rotating swath former, feeder drum, swathing plate (left + right), swath width approx. 1,30 m	712 891 0000
For stony terrain: 1 welded-on skid for SM InLine (at least 3 are needed per mower) Recommended: number of cutter discs = number of welded-on skids	712 713 0000
High cutting device for SM InLine; increases cutting height by 54 mm	712 887 0000
Lighting fixture for SM InLine; for attaching a warning panel and light	712 718 0000



Disc mowers

3-point linkage
 Spur gear drive without inner skid
 Quick blade change



Feature

- 1 Mower without inner skid
 The gears run in an oil bath
- 2 Flexible V-belt drive
- 3 Roll/shear pin in the bearing flange of each cutter disc
- 4 The cutter bar has a very flat profile with cutter disc which run in pairs
- 5 The cutter bar has a stone guard and large hardened skid as standard
 Protective cloth, folds to both sides
- 6 With spring-mounted cutter bar as standard
- 7 Track adaptation by means of adjustable lower link pins CAT I and II
- 8 Spring-loaded anti-collision device
- 9 The mower can be lifted at the headland without using the tractor's three-point linkage

Benefit

- Drive directly from above into the first over disk
- Mowing on slopes possible without any problems
- This ensures proper lubrication of the drive in every mowing situation
- Minimization of mower wear
- Drive protection in case of racking in a obstacle
- Good cutting results
- Deep cutting is possible
- Long life
- Low operating cost
- Easy access for cleaning and maintenance (e.g. changing blades)
- Low ground pressure
- Gentle on the turf sward
- The mower is adaptable to different tractor types and sizes of tire
- Optimum protection when colliding with an obstacle
- The mower set-up at the three point hydraulic linkage is maintained throughout the mowing operation



Denomination of machine	SM 2460 ISL	SM 2870 ISL
Reference number	712 004 0000	712 006 0000
Mounting Category	I+II	
Working width approx. m	2,42	2,82
Transport width approx. m	1,75	
Transport height approx. m	3,25	3,65
Capacity approx. ha/h	2,70	2,80
Mower discs	6	7
Blades per disc	2	
Quick blade change	standard	
Swath width approx. m	1,65	2,00
Power demand approx. kW/hp	37/50	44/60
Necessary hydraulic outlets	1 x SAV*	
PTO rpm	540	
Overrunning clutch	optional	standard
Weight approx. kgs	485	525
Assembling time h	4,0	

* single acting valve

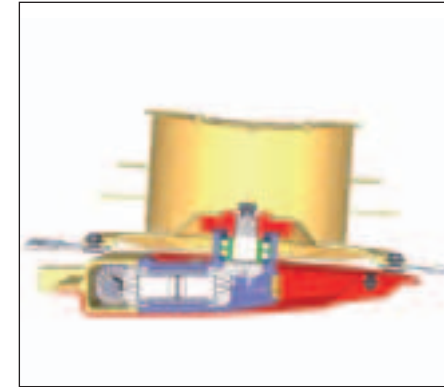
Special equipment	reference no.
Drive shaft with overrunning clutch for SM 2460 ISL; required for tractors fitted with P O brake; supplied	712 710 0000
Drive shaft with overrunning clutch for SM 2460 ISL; required for tractors fitted with P O brake; additional delivery	712 711 0000
For stony terrain: 1 welded-on skid for SM ISL (at least 3 are needed per mower) Recommended: number of cutter discs = number of welded-on skids	712 713 0000
High cutting device for SM ISL; increases cutting height by 54 mm	712 887 0000
Lighting fixture for SM ISL; for attaching a warning panel and light	712 718 0000
Rotating swath former right	712 917 0000
Swath guide (left) for SM 2460 ISL; to deposit a narrow swath; consisting of rotating swath former, feeder drum, swath width approx. 1,50 m	712 918 0000
Swath guide (left) for SM 2870 ISL; to deposit a narrow swath; consisting of rotating swath former, feeder drum, swath width approx. 1,50 m	712 919 0000

Disc mowers

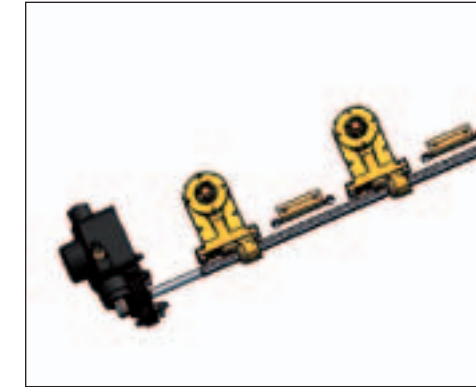
Compact angular gear

The most important features

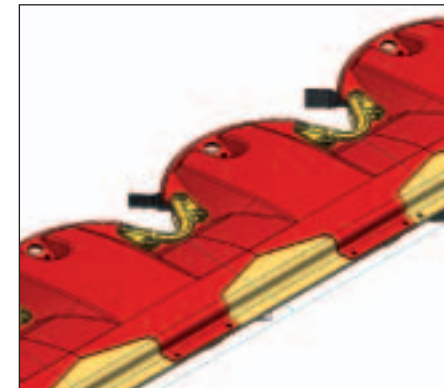
Feature	Benefit
<p>1 The cutter discs are driven indirectly by means of a hexagonal shaft and compact angular gears</p>	<ul style="list-style-type: none"> • Smooth power transfer to all cutter discs • Torque peaks are smoothed out, thereby resulting in less wear and tear to the drive train
<p>2 Streamline cutter bar with profiled base with hardened track skids as standard</p>	<ul style="list-style-type: none"> • No push-up of forage • Allows soil through-flow under the cutter bar beam • Low raw ash content in the forage
<p>3</p> <ul style="list-style-type: none"> • Easy assembly of the cutter bar is ensured by: • Hexagonal shaft with rupture joint • Bolted compact angular gear drive • Bolted cutter bar • Bolted track skids and wear skids • Bolted counter-cutter • Lifetime oil filling 	<ul style="list-style-type: none"> • Drive components are protected from mower blockage • Very easy to change • Very economical • Low maintenance • Ensures that the drive is lubricated in every mowing situation
<p>FELLA big discs provide excellent forage flow (even without conditioner)</p>	<ul style="list-style-type: none"> • Optimum forage delivery • No loss of forage
<p>4 Large front over cut of cutting discs</p>	<ul style="list-style-type: none"> • Cuttings are lifted • Good cutting results even in the case of long forage lying on the ground • High quality forage with low raw ash content
<p>5 Cutter bar is supported by the complete support frame and bolted</p>	<ul style="list-style-type: none"> • High stability
<p>Cutter blades are bolted as standard; quick blade change system is optional</p>	<ul style="list-style-type: none"> • The customer can choose



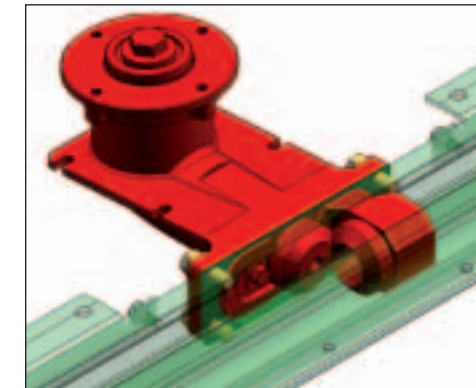
1



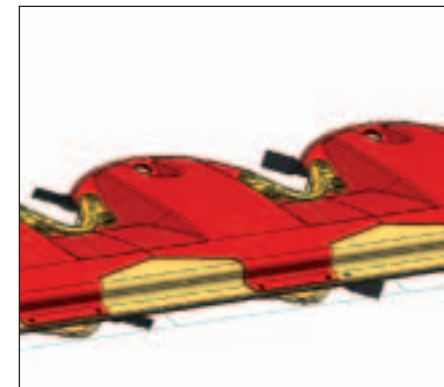
1



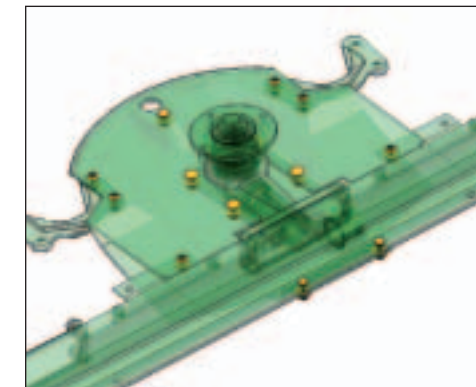
2



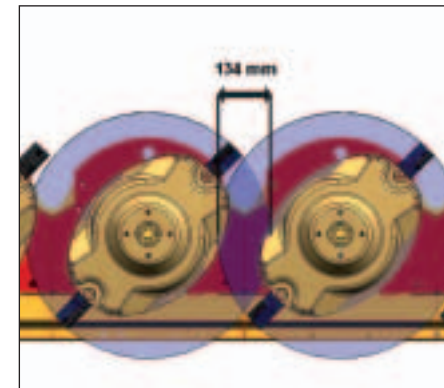
3



3



3



4



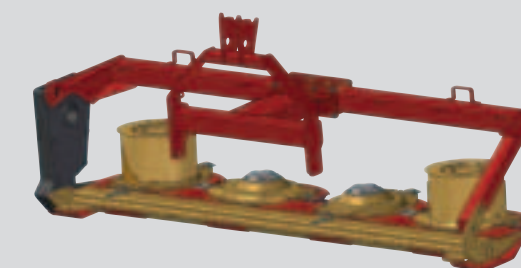
5



Disc mowers

Front mounted
Compact linkage

NEW!



Feature

- 1 Rigid headstock
- 2 4 mowing disks for both types
- 3 Spring-loaded anti-collision device
540 and 1000 rpm as well as clockwise and counter clockwise rotation as a standard
Overrunning clutch and overload protection in the drive train as a standard
Bearing frame
- 4 Foldable side protection
- 5 FK-S variant with mechanic side-shift (by 12 cm to the right and left, respectively) hydraulically as an option

Benefit

- Short, compact attachment
- Center of gravity very close to the tractor
- Symmetrical, centered run
- Very good even positioning of swaths
- Very good conveying performance, also in downhill operation
- Optimum protection when colliding with an obstacle
- Can be combined with all tractors
- Protection of the drive train
- Less wear
- High stability
- Large width on the meadow
- Small width on the street
- Mowing on slopes and/or with twin tires is possible without problems



1



2



3



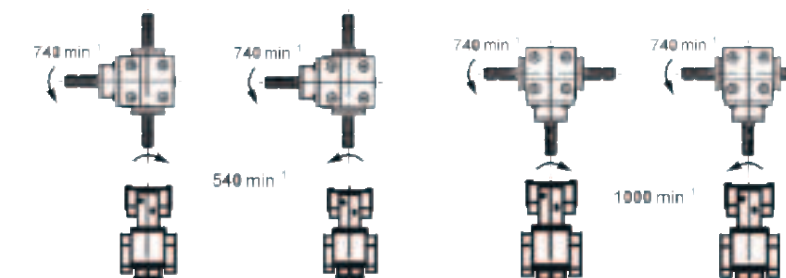
4

5

Denomination of machine	SM 210 FK	SM 210 FK-S	SM 260 FK
Reference number	712 079 0000	712 080 0000	712 076 0000
Mounting Category	I		
Working width approx. m	2,05		2,50
Transport width approx. m	2,08		2,50
Transport length approx. m	1,13	1,18	1,29
Capacity approx. ha/h	2,40		3,00
Mower discs	4		
Blades per disc	2		
Swath width approx. m	1,10		1,35
Power demand approx. kW/hp	19/26		22/30
Mechanic side-shift	-	standard	-
Necessary hydraulic outlets	-		
Transmission shaft on main drive (tractor-machine)	optional		
PTO rpm	540/1000		
Weight approx. kgs	369*	373*	410*
Assembling time h	assembled		

* Delivery without PTO-shaft

Special equipment	reference no.
Drive shaft; for attachment to standard tractor; supplied ex works without drive shaft	712 716 0000
Spring discharge device, for (hill-farm) tractors without spring discharge	712 820 0000
Lamp holder	714 741 0000
Set of suppression hoops for SM 260 FK; recommended for crop heights greater than 80 cm (required for crops 1.00 m or higher); for optimum product feed to the cutter bar + good cutting results	712 835 0000
Swath guide for SM 260 FK, to deposit a narrow swath: consisting of 2 rotating swath formers (left and right), swath width approx. 1,10 m	712 870 0000
Quick blade change set for SM 210 FK/FK-S	712 876 0000
Hydraulic side-shift for SM 210 FK-S, 1 x DAV necessary	712 859 0000

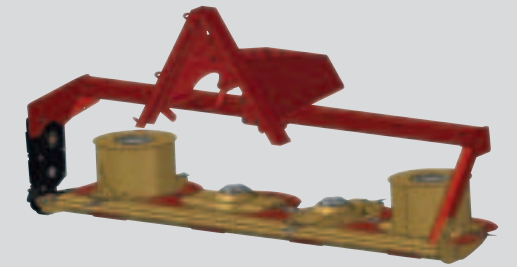


2 PTO rpm (540 and 1000)
2 driving directions (left and right)



Disc mowers

Front mounted
Oscillating linkage



Feature

- 1 Oscillating linkage

- 2 Spring relief on the side of the tractor in the direction of the upper link pivot point

- 3 Bearing frame

- 4 FP-S variant continuously variable hydraulic side-shift (by 12 cm in to the right and left, respectively)

4 mowing disks for both types

540 and 1000 rpm as well as clockwise and counterclockwise rotation as a standard

Overrunning clutch and overload protection in the drive train as a standard

Foldable side protection

Benefit

- Optimum adjustment to the ground by virtue of pendulum radius +/- 6.5°
- High degree of safety during street travel through spring centering mechanism allowing no lateral movement

- Uniform load over the entire working width

- Symmetrical, centered run
- Very good even positioning of swaths
- Very good conveying performance, also in downhill operation

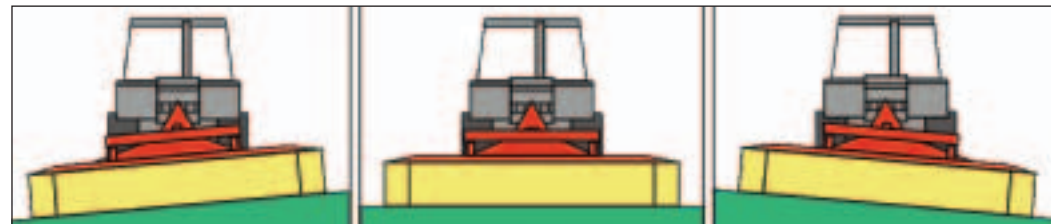
- Can be combined with all tractors

- Protection of the drive train
- Less wear

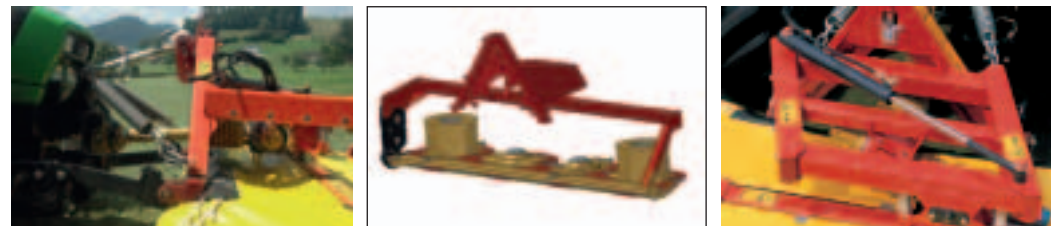
- High stability

- Large width on the meadow
- Small width on the street

- Mowing on slopes and/or with twin tires is possible without problems



1



2

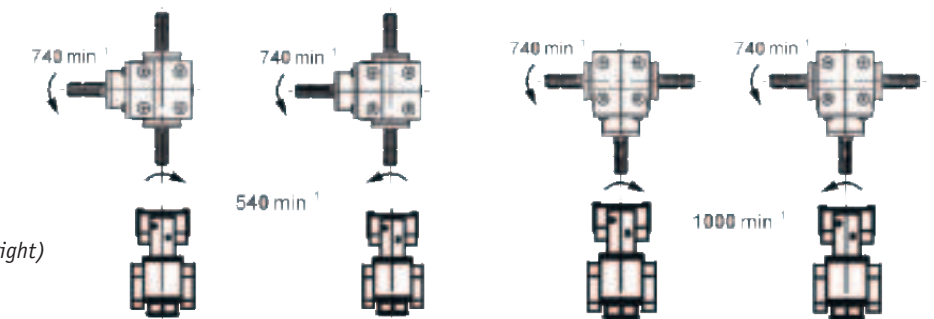
3

4

Denomination of machine	SM 260 FP	SM 260 FP-S
Reference number	712 074 0000	712 075 0000
Mounting Category	II	
Working width approx. m	2,50	
Transport width approx. m	2,50	
Transport length approx. m	1,21	
Capacity approx. ha/h	3,00	
Mower discs	4	
Blades per disc	2	
Swath width approx. m	1,35	
Power demand approx. kW/hp	28/38	
Hydraulic side-shift	-	standard
Necessary hydraulic outlets	-	1 x DAV*
Transmission shaft on main drive (tractor-machine)	standard	
PTO rpm	540/1000	
Weight approx. kgs	485	516
Assembling time h	assembled	

* double acting valve

Special equipment	reference no.
Cat. II triangular coupling frame (on the tractor)	712 814 0000
Lamp holder	714 741 0000
Set of suppression hoops; recommended for crop heights greater than 80 cm (required for crops 1.00 m or higher); for optimum product feed to the cutter bar + good cutting results	712 835 0000
Swath guide, to deposit a narrow swath: consisting of 2 rotating swath formers (left and right), swath width approx. 1,10 m	712 870 0000

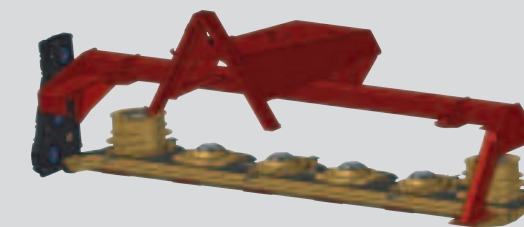


2 PTO rpm (540 and 1000)
2 driving directions (left and right)



Disc mowers

Front mounted
Oscillating linkage

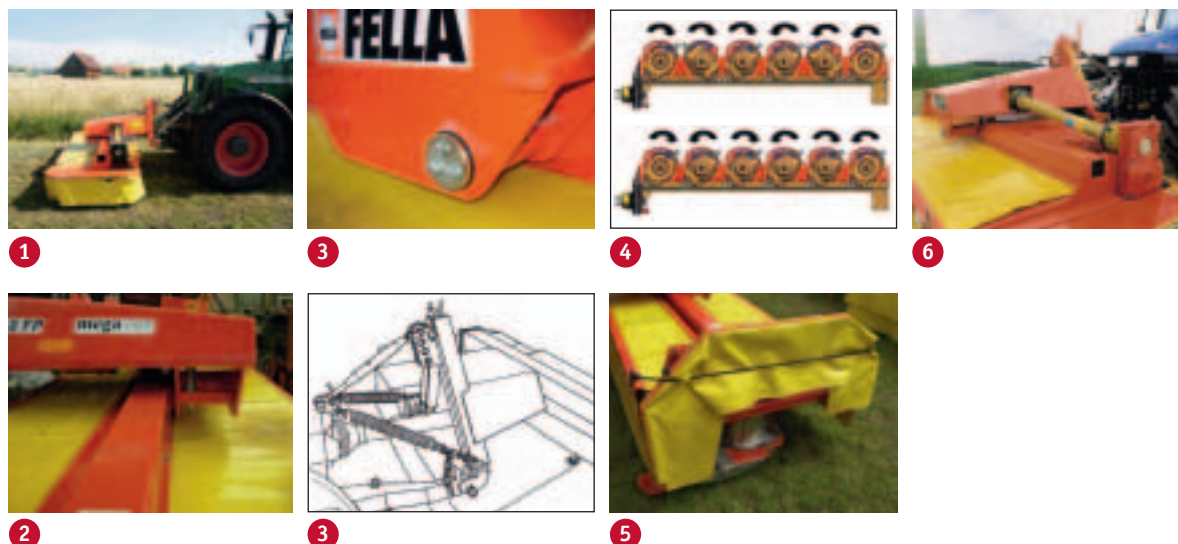


Feature

- 1 Compact tractor attachment system
- 2 Trailed suspension
„Pulling is easier than pushing“
- No hydraulic connection needed
- 3 Mower unit is suspended by means of an oscillating axle at the centre of gravity
- 4 Symmetrical number of cutter discs (6)
- Counterclockwise or clockwise rotation can be achieved very easily by reversing the gear
- 5 Side locking, folding safety covers
- 6 Simple and clear driveline via Walterscheid drive shaft with overrunning clutch

Benefit

- Centre of gravity close to the tractor
- Low load on tractor and machine
- Gentle on the turf sward
- Reduced load on the mower and tractor
- Lower fuel consumption
- Low demand on tractor power
- The mower unit adapts very well to the ground contour thanks to freedom of movement of +/-6.5°
- Spring relief device on tractor in the direction of the upper link pivot point results in uniform load across the entire working width
- Spring centering device ensures a high level of road safety as it prevents lateral movement
- Reduced wear due to large central bush bearing
- Uniform crop delivery without additional feeder drums or swath drums
- High flexibility
- Keeps within the max. allowable on-road transport width of 3.00 m



Denomination of machine	SM 310 FP	SM 310 FP-KC	SM 310 FP-RC
Reference number	712 111 0000	712 112 0000	712 113 0000
Mounting Category	II		
Working width approx. m	3,00		
Transport width approx. m	3,00		
Transport length approx. m	1,49	1,58	1,52
Capacity approx. ha/h	3,50		
Conditioner mounting prepared	-	standard	
Conditioner	-	KC	RC
Mower discs	6		
Blades per disc	2		
Swath width approx. m	2,00	1,45 - 2,20	1,55 - 1,90
Power demand approx. kW/hp	55/75	66/90	64/87
PTO rpm	1000		
Overrunning clutch	standard		
Weight approx. kgs	734	954	1006
Assembling time h	assembled		

Special equipment	reference no.
Lighting fixture; for attaching a warning panel and light	712 719 0000
Cat. II triangular coupling frame (on the tractor)	712 814 0000
Quick blade change set for 6 cutter discs	712 871 0000
1 additional skid • for increased cutting height; at least 2 skids are required per cutter bar • as wear protection in stony or sandy conditions (number of cutter discs = number of additional skids)	712 825 0000
Set of HD cutter discs with wear protection specially designed for stony or sandy conditions	712 883 0000
Set of suppression hoops; recommended for crop heights greater than 80 cm (required for crops 1.00 m or higher); for optimum product feed to the cutter bar + good cutting results	712 807 0000
Protective cover; for use without conditioner; for SM 310 FP/ -SL/-KC/-RC	712 800 0000
Spreader device for SM 310 FP-KC; for faster drying	712 852 0000
Articulated fork W2400-1 3/8" (21); additional delivery	712 863 0000
Articulated fork W2400- 8x32x38; additional delivery	712 864 0000
Stone guard RC 311 for version with roller conditioner; protects the mowing bar against stone impact	712 905 0000
Windrowing plate for operation without conditioner for piling of a more densified windrow, swath width approx. 1,70 - 1,80 m	712 886 0000
Mower disk with conveyor wings for improved forage transport from the mowing bar to the conditioner	712 909 0000



Disc mowers

Front mounted
Headstock with trailing linkage



Feature

- 1 Cutter bar is mounted at the outermost points on the sturdy support frame
- 2 Front attachment provides extremely easy pulling „Pulling is easier than pushing“

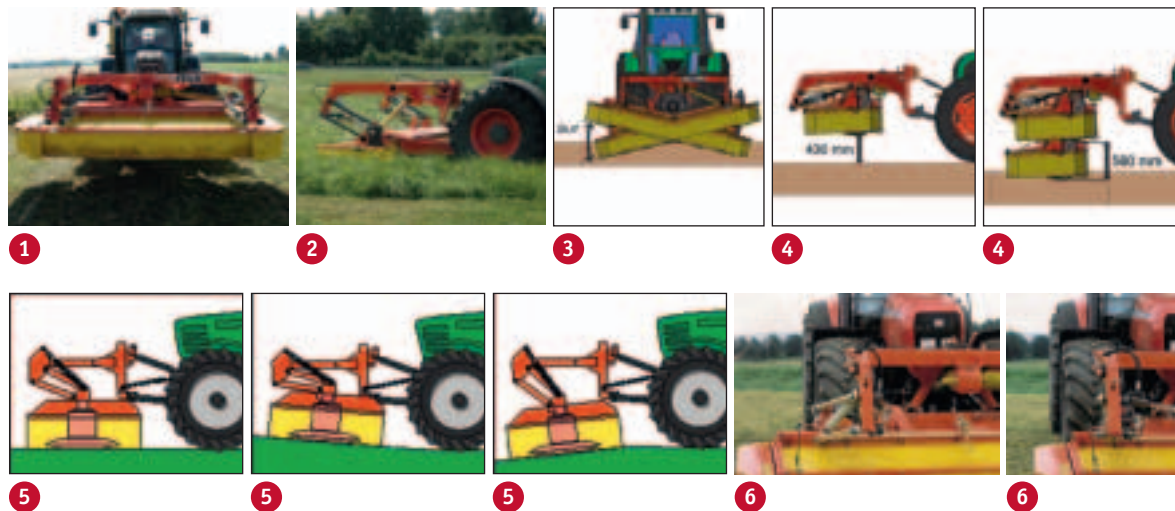
Frame preconfigured as standard for attachment of KC/RC conditioner and windrower
- 3 The overhead frame allows the mower unit a large freedom of movement
- 4 The integrated hydraulic cylinder in combination with the front hydraulics provide a long vertical travel range
- 5 Parallel adaptation of the mower unit to surface unevenness

Optimally located spring parallelogram
- 6 Mower unit can be shifted sideways for use on slopes

Mower unit can be operated at headlands by means of single-acting control unit

Benefit

- Optimum adaptation to the ground contour
- Gentle on the turf sward
- Optimum visibility forwards from the tractor seat
- No twisting of the cutter bar
- Soil conserving
- Fuel saving
- High flexibility
- Large freedom of movement 26,4°
- Vertical travel range: 430 mm
- Complete stroke distance: 560 mm
- No plunging into the ground
- Minimal spring contraction during oscillating movement of the mower unit
- Ground pressure is only marginally higher
- Mechanical (standard): 10 cm
- Hydraulic (optional): 20 cm variable to the left and right



Denomination of machine	SM 310 FZ	SM 310 FZ-KC	SM 310 FZ-RC
Reference number	712 117 0000	712 118 0000	712 119 0000
Mounting Category	II		
Working width approx. m	3,00		
Transport width approx. m	3,00		
Transport length approx. m	1,85	1,87	1,81
Capacity approx. ha/h	3,50		
Conditioner mounting prepared	standard		
Conditioner	-	KC	RC
Mower discs	6		
Blades per disc	2		
Swath width approx. m	2,00	1,45 - 2,20	1,55 - 1,90
Power demand approx. kW/hp	55/75	66/90	64/87
Necessary hydraulic outlets	1 x SAV*		
PTO rpm	1000		
Overrunning clutch	standard		
Weight approx. kgs	930	1150	1202
Assembling time h	assembled		

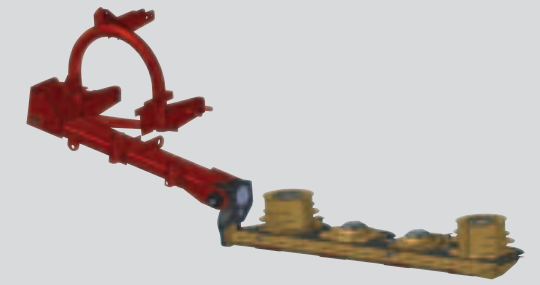
* single acting valve

Special equipment	reference no.	
Cat. II triangular coupling frame (on the tractor)	712 814 0000	
Quick blade change set for 6 cutter discs	712 871 0000	
1 additional skid • for increased cutting height; at least 2 skids are required per cutter bar • as wear protection in stony or sandy conditions (number of cutter discs = number of additional skids)	712 825 0000	
Set of HD cutter discs with wear protection specially designed for stony or sandy conditions	712 883 0000	
Set of suppression hoops; recommended for crop heights greater than 80 cm (required for crops 1.00 m or higher); for optimum product feed to the cutter bar + good cutting results	712 807 0000	
Protective cover; for use without conditioner	712 800 0000	
Spreader device for SM 310 FZ-KC; for faster drying	712 852 0000	
Stone guard RC 311 for version with roller conditioner; protects the mowing bar against stone impact	712 905 0000	
Articulated fork W2400-1 3/8" (21); additional delivery	712 863 0000	
Articulated fork W2400- 8x32x38; additional delivery	712 864 0000	
Hydraulic side-shift (1 double acting valve necessary)	712 858 0000	
Windrowing plate for operation without conditioner for piling of a more densified windrow, swath width approx. 1,70 - 1,80 m	712 886 0000	
Mower disk with conveyor wings for improved forage transport from the mowing bar to the conditioner	712 909 0000	
Additional spring relief for SM 310 FZ, for reduced contact pressure of the mower unit e.g. for stony conditions, additional delivery	712 920 0000	
Additional spring relief for SM 310 FZ, for reduced contact pressure of the mower unit e.g. for stony conditions, included in the delivery	712 921 0000	



Disc mowers

3-point linkage
Side attachment
For alpine and standard tractors



Feature

Approx. 50 kg (110 lbs) lighter than the standard version

Cutter bar and input gear: one oil circulation system

1 V-belt drive with automatic, adjustable V-belt tension

2 Controlled lifting kinematics

Double sided folding guard

Horizontal locking in the park position

Track adaptation by adjustable lower link pin

3 Left and right feeder drums as standard

Spring-loaded anti-collision device

Benefit

- Specially suited to mountain tractors

- Lifetime oil filling
- Simple oil level check

- Elastic drive
- Low mower wear

- Excellent lift height at headlands

- Easy access for cleaning and maintenance (e.g. changing blades)

- Stability even on uneven terrain
- Easy hitching

- Very high flexibility

- Clean forage harvesting is ensured

- Optimum protection when colliding with an obstacle



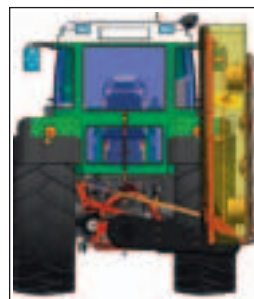
1



2



3



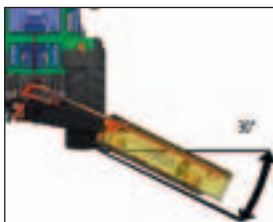
2



2



2



2

Denomination of machine	SM 210 L
Reference number	712 026 0000
Mounting Category	I*+II
Working width approx. m	2,05
Transport width approx. m	2,13
Transport height approx. m	2,47
Capacity approx. ha/h	2,40
Mower discs	4
Blades per disc	2
Swath width approx. m	1,10
Power demand approx. kW/hp	28/38
Necessary hydraulic outlets	1 x SAV**
PTO rpm	540
Overrunning clutch	standard
Weight approx. kgs	545
Assembling time h	1,0

* optional equipment

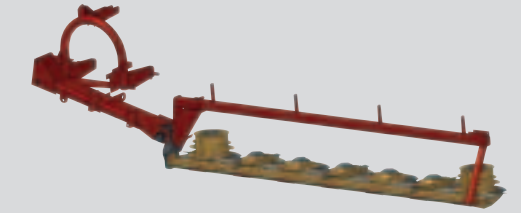
** single acting valve

Special equipment	reference no.
Lighting fixture; for attaching a warning panel and light	712 722 0000
1 additional skid • for increased cutting height; at least 2 skids are required per cutter bar • as wear protection in stony or sandy conditions (number of cutter discs = number of additional skids)	712 825 0000
Quick blade change set for 4 cutter discs	712 876 0000
Cat. I three point hitch assembly	714 736 0000



Disc mowers

3-point linkage
Side attachment



Feature

Cutter bar and input gear: one oil circulation system

1 V-belt drive with automatic, adjustable V-belt tension

Spring-loaded anti-collision device

2 Controlled lifting kinematics

Double sided folding guard

Horizontal locking in the park position

Track adaptation by adjustable lower link pin

3 Left and right feeder drums as standard

Conditioners (KC and RC) are very easy to install and remove, i.e. can be retrofitted at a y time

Benefit

- Lifetime oil filling
- Simple oil level check

- Elastic drive
- Low mower wear

- Optimum protection when colliding with an obstacle

- Excellent lift height at headlands

- Easy access for cleaning and maintenance (e.g. changing blades)

- Stability even on uneven terrain
- Easy hitching

- Very high flexibility

- Clean forage harvesting is ensured

- Flexibility



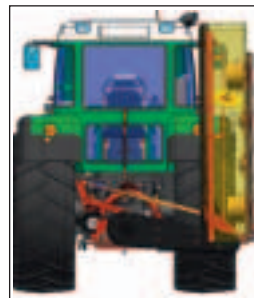
1



2



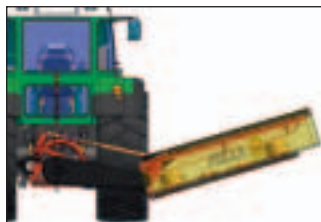
3



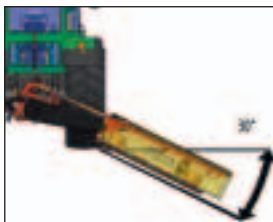
2



2



2



2

Denomination of machine	SM 210	SM 270	SM 320	SM 350
Reference number 540 rpm	712 031 0000	712 032 0000	712 034 0000	712 035 0000
Reference number 1000 rpm	712 021 0000	712 022 0000	712 024 0000	712 025 0000
Mounting Category	II			
Working width approx. m	2,05	2,55	3,00	3,50
Transport width approx. m	2,13			
Transport height approx. m	2,47	2,95	3,43	3,91
Capacity approx. ha/h	2,50	3,00	3,50	4,00
Conditioner mounting prepared	KC/RC		KC	-
Mower discs	4	5	6	7
Blades per disc	2			
Swath width approx. m	1,10	1,60	1,80	2,30
Power demand approx. kW/hp	36/49	40/54	45/61	50/68
Necessary hydraulic outlets	1 x SAV*			
PTO rpm	540/1000			
Overrunning clutch	standard			
Weight approx. kgs	612	630	724	798
Assembling time h	1,0			

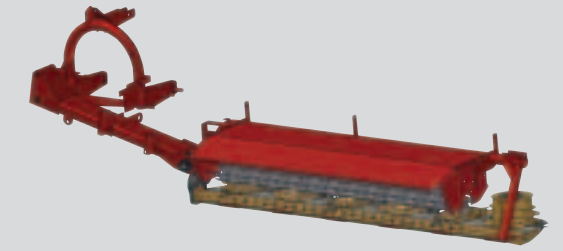
* single acting valve

Special equipment	reference no.
Lighting fixture ; for attaching a warning panel and light	712 722 0000
Rotating swath former (left) for SM 210/270; to deposit a narrow swath, swath width approx. 0,85 (SM 210)/1,30 m (SM 270)	712 823 0000
Swath guide (left) for SM 350; to deposit a narrow swath; consisting of rotating swath former and feeder drum, swath width approx. 1,60 m	712 824 0000
1 additional skid • for increased cutting height; at least 2 skids are required per cutter bar • as wear protection in stony or sandy conditions (number of cutter discs = number of additional skids)	712 825 0000
Set of HD cutter discs with wear protection for SM 270; specially designed for stony or sandy conditions	712 881 0000
Set of HD cutter discs with wear protection for SM 320; specially designed for stony or sandy conditions	712 882 0000
Set of HD cutter discs with wear protection for SM 350; specially designed for stony or sandy conditions	712 880 0000
2 height-adjustable contact wheels for increased cutting height	712 818 0000
Quick blade change set for SM 210 ; for 4 cutter discs	712 876 0000
Quick blade change set for SM 270 ; for 5 cutter discs	712 877 0000
Quick blade change set for SM 320 ; for 6 cutter discs	712 871 0000
Quick blade change set for SM 350 ; for 7 cutter discs	712 879 0000



Disc mowers

3-point linkage
Side attachment
With tine rotor-conditioner
FELLA „effective“-conditioner



Feature

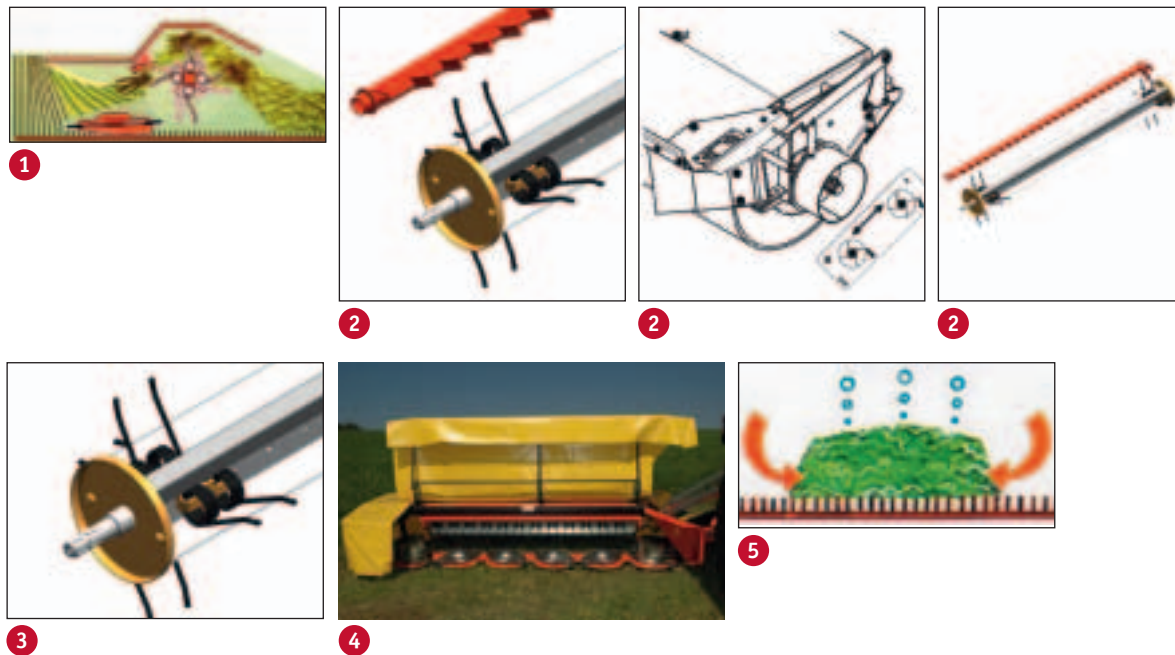
- 1 The forage is not crushed during conditioning; only the wax coat is removed
- 2 Conditioner intensity can be controlled by means of a counter-comb which can be adjusted to four different positions without tools
- 3 Spring tine rotor as standard with Super C tines and tine loss protection
- 4 Conditioner is mounted across the full working width
- 5 Formation of a loose, well aerated swath, wide distributor optional

Simple, direct drive concept

Low-wear conditioner rotor mounting

Benefit

- Gentle forage treatment
- Less loss due to crumbling compared to flail conditioners
- Adaptable to a variety of conditions
- Low sensitivity to foreign debris
- Wide forage pick-up
- Smooth forage flow
- Clean forage harvesting
- Optimum loading of the conditioner across the full cutting width
- Faster drying
- Low weight
- Easy to pull
> little additional power demand
- High durability
> Economy



Denomination of machine	SM 210 KC	SM 270 KC	SM 320 KC
Reference number 540 rpm	712 031 0000 + 712 311 0000	712 032 0000 + 712 312 0000	712 034 0000 + 712 327 0000
Reference number 1000 rpm	712 021 0000 + 712 321 0000	712 022 0000 + 712 322 0000	712 024 0000 + 712 328 0000
Mounting Category	II		
Working width approx. m	2,05	2,55	3,00
Transport width approx. m	2,13		
Transport height approx. m	2,47	2,95	3,43
Capacity approx. ha/h	2,50	3,00	3,50
Conditioner mounting prepared	standard		
Conditioner	KC		
Mower discs	4	5	6
Blades per disc	2		
Swath width approx. m	0,40 - 0,95	0,90 - 1,40	1,35 - 1,90
Power demand approx. kW/hp	48/65	55/75	63/86
Necessary hydraulic outlets	1 x SAV*		
PTO rpm	540/1000		
Overrunning clutch	standard		
Weight approx. kgs	782	883	1011
Assembling time h	1,5		

* single acting valve

Special equipment	reference no.
Lighting fixture; for attaching a warning panel and light	712 722 0000
Spreader device for SM 210 KC; for faster drying	712 841 0000
Spreader device for SM 270 KC; for faster drying	712 842 0000
Spreader device for SM 320 KC; for faster drying	712 843 0000
1 additional skid • for increased cutting height; at least 2 skids are required per cutter bar • as wear protection in stony or sandy conditions (number of cutter discs = number of additional skids)	712 825 0000
Set of HD cutter discs with wear protection for SM 270; specially designed for stony or sandy conditions	712 881 0000
Set of HD cutter discs with wear protection for SM 320; specially designed for stony or sandy conditions	712 882 0000
2 height-adjustable contact wheels for increased cutting height	712 818 0000
Quick blade change set for SM 210; for 4 cutter discs	712 876 0000
Quick blade change set for SM 270; for 5 cutter discs	712 877 0000
Quick blade change set for SM 320; for 6 cutter discs	712 871 0000



Disc mowers

3-point linkage
Side attachment
With roller conditioner



Feature

- 1 Rubber rollers have a large profile overlaps
- 2 Upper roller is protected by a spring
- 3 Contact pressure of the rubber profile elements is adjustable
- 4 Wide forage passage

Benefit

- It is only necessary to drive the lower roller
- Upper roller runs synchronously > Simple drive system
- Low sensitivity to foreign debris
- Optimum adaptation to different harvesting and weather conditions
- Ideal forage flo
- Easy forage flo



1



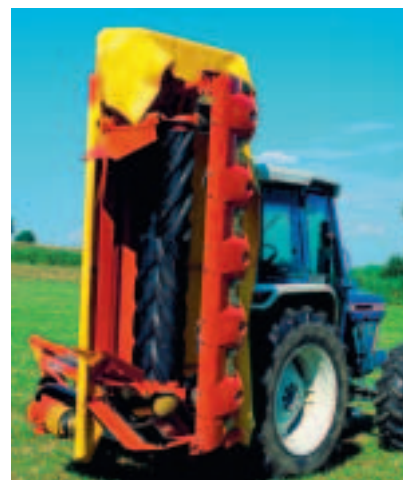
1



2



3



4

Denomination of machine	SM 210 RC	SM 270 RC
Reference number 540 rpm	712 031 0000 + 712 335 0000	712 032 0000 + 712 337 0000
Reference number 1000 rpm	712 021 0000 + 712 336 0000	712 022 0000 + 712 338 0000
Mounting Category	II	
Working width approx. m	2,05	2,55
Transport width approx. m	2,13	
Transport height approx. m	2,47	2,95
Capacity approx. ha/h	2,50	3,00
Conditioner mounting prepared	standard	
Conditioner	RC	
Mower discs	4	5
Blades per disc	2	
Swath width approx. m	0,55 - 0,90	1,05 - 1,40
Power demand approx. kW/hp	48/65	55/75
Necessary hydraulic outlets	1 x SAV*	
PTO rpm	540/1000	
Overrunning clutch	standard	
Weight approx. kgs	835	980
Assembling time h	1,5	

* single acting valve

Special equipment	reference no.
Lighting fixture ; for attaching a warning panel and light	712 722 0000
1 additional skid • for increased cutting height; at least 2 skids are required per cutter bar • as wear protection in stony or sandy conditions (number of cutter discs = number of additional skids)	712 825 0000
Set of HD cutter discs with wear protection for SM 270; specially designed for stony or sandy conditions	712 881 0000
2 height-adjustable contact wheels for increased cutting height	712 818 0000
Quick blade change set for SM 210 ; for 4 cutter discs	712 876 0000
Quick blade change set for SM 270 ; for 5 cutter discs	712 877 0000
Mower disk with conveyor wings for improved forage transport from the mowing bar to the conditioner	712 909 0000



Disc mowers

3-point linkage
Middle attachment



Feature

- 1 Mower units are mounted at the centre of gravity
- 2 Novel, patented sliding guide
- 3 Collision protection with swivel gear

Benefit

- Adapts very well to the ground contour
- Reduced load on the tractor lift arms
- Optimal support and guidance of the mowing bar
- Very good adjustment to the ground
- Load will be removed from the lifting arm of the mower
- Very large dodge angle of the mower
- Prevents damages to the drive shaft

Hydro-pneumatic suspension system - Turbolift system (TL-System)

- 4 Constant, continuously variable ground surface pressure by means of adjusting wheel (no need for tools!)

- Adaptable to a variety of conditions

Contact pressure adjustable while driving

- Passing of wet areas with low contact pressure is possible
- No damage to the sod
- No forage contamination

The cutter bar can glide into dips or depressions

- Improved cutting quality

Free-floating cutting

- Reduced load on the support frame, support tube and three-point hitch
- Gentle on the turf sward
- Reduced forage contamination (lower raw ash content in the basic forage)

- 5 Novel full-cloth protection

- Reduces the weight
- Reduces the fuel consumption

- 6 Protective cloth foldable on both sides

- Optimal accessibility for cleaning and maintenance work

Mower can be easily depressurized by push-button when setting down

- Mower is fully pressure less when the deck is fully lowered > no hazard to young children for example



Denomination of machine	SM 3060 TL	SM 3570 TL	SM 4080 TL
Reference number	712 156 0000	712 157 0000	712 158 0000
Mounting Category	II+III		
Working width approx. m	3,00	3,50	4,00
Transport width approx. m	2,30		
Transport height approx. m	4,65	5,15	5,60
Capacity approx. ha/h	3,50	4,00	4,80
Conditioner mounting prepared	-		
Conditioner	-		
Mower discs	6	7	8
Blades per disc	2		
Swath width approx. m	2,30	2,80	3,30
Power demand approx. kW/hp	55/75	65/88	72/99
Necessary hydraulic outlets	1 x SAV, 1 x DAV		
PTO rpm	1000		
Overrunning clutch	standard		
Warning panels	standard		
Electrical lightning	standard		
Weight approx. kgs	875	950	980
Assembling time h	1,5	1,5	1,5

* single acting valve
** double acting valve

Special equipment	reference no.
1 additional skid • for increased cutting height; at least 2 skids are required per cutter bar (SM 4080 TL at least 3) • as wear protection in stony or sandy conditions (number of cutter discs = number of additional skids)	712 825 0000
Quick blade change set for 6 cutter discs for SM 3060 TL	712 871 0000
Quick blade change set for 7 cutter discs for SM 3570 TL	712 879 0000
Quick blade change set for 8 cutter discs for SM 4080 TL	712 872 0000
Set of HD cutter discs with wear protection specially designed for stony or sandy conditions, for SM 3060 TL	712 883 0000
Set of HD cutter discs with wear protection specially designed for stony or sandy conditions, for SM 3570 TL	712 885 0000
Set of HD cutter discs with wear protection specially designed for stony or sandy conditions, for SM 4080 TL	712 884 0000
2 Swath depositing device for SM 4080 TL, consisting of 2 conveying drums, swath width approx. 2 x 1.10 m	712 894 0000
Articulated fork W2400-1 3/8" (21) ; additional delivery	712 863 0000
Articulated fork W2400- 8x32x38 ; additional delivery	712 864 0000



Disc mowers

3-point linkage
Middle attachment
With conditioner



Feature

- 1 Mower units are mounted at the centre of gravity
- 2 Trailed mower
„Pulling is easier than pushing“
- 3 Modular system is easy to attach to and detach from the conditioner

Spring-loaded anti-collision device

Hydro-pneumatic suspension system - Turbolift system (TL-System)

Constant, continuously variable ground surface pressure by means of adjusting wheel (no need for tools!)

- 4 Contact pressure adjustable while driving

Free-floating cutting

Mower can be easily depressurized by push-button when setting down

With conveyor belt (KCB)

- 5 • continuously variable belt speed
• belt can be activated individually (also while driving)

Benefit

- Adapts very well to the ground contour
- Reduced load on the tractor lift arms

- Soil conserving
- Fuel saving

- High flexibility

- Optimum protection when colliding with an obstacle

- Adaptable to a variety of conditions

- Passing of wet areas with low contact pressure is possible
- No damage to the sod
- No forage contamination

- Reduced load on the support frame, support tube and three-point hitch
- Gentle on the turf sward
- Reduced forage contamination (lower raw ash content in the basic forage)

- Mower is fully pressureless when the deck is fully lowered > no hazard to young children for example

- Adaptable to a variety of conditions



Denomination of machine	SM 310 TL-KC	SM 310 TL-RC	SM 310 TL-KCB
Reference number	712 040 0000	712 041 0000	712 042 0000
Mounting Category	II+III		
Working width approx. m	3,00		
Transport width approx. m	1,92		
Transport height approx. m	3,73		
Capacity approx. ha/h	3,50		
Conditioner mounting prepared	standard		
Conditioner	KC	RC	KC
Mower discs	6		
Blades per disc	2		
Swath width approx. m	1,45 - 2,25	1,55 - 1,90	1,60 - 2,00*
Power demand approx. kW/hp	63/86		70/95
Necessary hydraulic outlets	1 x SAV**, 1 x DAV***		2 x SAV, 1 x DAV
PTO rpm	1000		
Overrunning clutch	standard		
Warning panels	standard		
Electrical lightning	standard		
Weight approx. kgs	1225	1264	1528
Assembling time h	2,0		3,0

* according to type of forage and field conditions

** single acting valve

*** double acting valve

Special equipment	reference no.
1 additional skid • for increased cutting height; at least 2 skids are required per cutter bar • as wear protection in stony or sandy conditions (number of cutter discs = number of additional skids)	712 825 0000
Set of HD cutter discs with wear protection specially designed for stony or sandy conditions	712 883 0000
Protective cover for SM 310 TL-KC/-RC; for use without conditioner	712 801 0000
Spreader device for SM 310 TL-KC; for faster drying	712 846 0000
Compact swath deposit for SM 310 TL-KC; for trailer operation and to avoid driving over mowed forage	712 889 0000
Stone guard RC 311 for version with roller conditioner; protects the mowing bar against stone impact	712 905 0000
Quick blade change set; for 6 cutter discs	712 871 0000
Articulated fork W2500-1 3/4" (20); additional delivery (for SM 310 TL-KCB)	712 861 0000
Articulated fork W2400-1 3/8" (21); additional delivery (for SM 310 TL/-KC/-RC)	712 863 0000
Articulated fork W2400- 8x32x38; additional delivery (for SM 310TL/-KC/-RC)	712 864 0000
Articulated fork W2500-1 3/8" (21); additional delivery (für SM 310 TL-KCB)	712 865 0000
Articulated fork W2500-1 3/4" (6); additional delivery (für SM 310 TL-KCB)	712 866 0000
Windrowing plate for operation without conditioner for piling of a more densified windrow, swath width approx. 1,70 - 1,80 m	712 886 0000
Mower disk with conveyor wings for improved forage transport from the mowing bar to the conditioner	712 909 0000



Disc mowers

3-point attachment
Mower combination
Middle attachment



Feature

- 1 Mower units are mounted at the centre of gravity
- 2 Trailed mower
„Pulling is easier than pushing“
- 3 Modular system is easy to attach to and detach from the conditioner

Hydro-pneumatic suspension system - Turbolift system (TL-System)

- 4 Constant, continuously variable ground surface pressure by means of adjusting wheel (no need for tools!)

Contact pressure adjustable while driving

Free-floating cutting

„SafetySwing“ anti-collision device

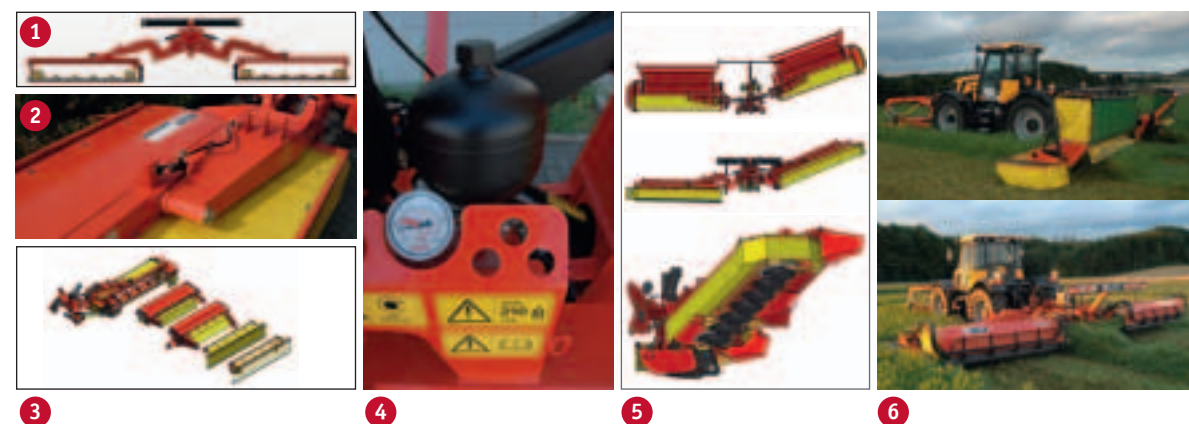
- 5 „SafetySwing“ anti-collision device

With conveyor belt (KCB)

- 6 • continuously variable belt speed
• belt can be activated individually (also while driving)

Benefit

- Adapts very well to the ground contour
- Reduced load on the tractor lift arms
- Soil conserving
- Fuel saving
- High flexibility
- Adaptable to a variety of conditions
- Passing of wet areas with low contact pressure is possible
- No damage to the sod
- No forage contamination
- Gentle on the turf sward
- Reduced forage contamination (lower raw ash content in the basic forage)



Denomination of machine Data of rear mower (without front mower), front mower see page 30-33	SM 911 TL	SM 911 TL-KC	SM 911 TL-RC	SM 911 TL-KCB
Reference number	712 136 0000	712 137 0000	712 138 0000	712 139 0000
Mounting Category	II+III			
Working width approx. m	8,30			
Transport width approx. m	2,78			
Transport height approx. m	3,73			
Capacity approx. ha/h	10,00			
Conditioner mounting prepared	standard			
Conditioner	-	KC	RC	KC
Mower discs	2 x 6			
Blades per disc	2			
Swath width approx. m	2 x 2,00	2 x 1,45 - 2,25	2 x 1,55 - 1,90	1,80 - 2,60*
Power demand approx. kW/hp	110/150	132/180	128/175	145/200
Necessary hydraulic outlets	1 x SAV**, 1 x DAV***			2 x SAV, 1 x DAV
PTO rpm	1000			
Overrunning clutch	standard			
Warning panels	standard			
Electrical lightning	standard			
Weight approx. kgs	1966	2410	2508	2901
Assembling time h	5,0	6,0	7,0	

* according to type of forage and field conditions
** single acting valve ** double acting valve

Special equipment	reference no.
1 additional skid	712 825 0000
Set of HD cutter discs with wear protection (2 x sets necessary; per set)	712 883 0000
Protective cover; for use without conditioner; for SM 911 TL-KC/-RC	712 804 0000
Spreader device for SM 911 TL-KC; for faster drying	712 847 0000
Stone guard RC 311 for version with roller conditioner; protects the mowing bar against stone impact (2 x sets necessary; per set)	712 905 0000
Elektromagnet 2/2-way valve for SM 911 TL; enables single lifting of either one mowing unit; saves 1 x single-acting valve	712 899 0000
Electro-hydraulic control Load-Sensing for SM 911 TL/-KC/-RC	712 903 0000
Electro-hydraulic control Load-Sensing for SM 911 TL-KCB	712 904 0000
Electro-hydraulic control for SM 911 TL/-KC/-RC; upgradable to Load-Sensing	712 911 0000
Electro-hydraulic control for SM 911 TL-KCB; upgradable to Load-Sensing	712 910 0000
Load-Sensing upgrade kit for the electro-hydraulic controls 712 910 0000 and 712 911 0000	712 915 0000
ISOBUS control; for SM 911 TL-KCB	712 901 0000
ISOBUS control; for SM 911 TL/-KC/-RC	712 902 0000
Quick blade change set; for 12 cutter discs	712 873 0000
Articulated fork W2500-1 3/4" (20); additional delivery	712 861 0000
Articulated fork W2500-1 3/8" (21); additional delivery	712 865 0000
Articulated fork W2500-1 3/4" (6); additional delivery	712 866 0000
Windrowing plate for operation without conditioner for piling of a more densified windrow, swath width approx. 1,70 - 1,80 m per mower unit, 2 sets necessary	712 886 0000
Mower disk with conveyor wings for improved forage transport to the conditioner	712 909 0000



Disc mowers

3-point attachment
Mower combination
Middle attachment



Feature

- 1 Mower units are mounted at the centre of gravity
- 2 Trailed mower
„Pulling is easier than pushing“
- 3 Modular system is easy to attach to and detach from the conditioner

Benefit

- Adapts very well to the ground contour
- Reduced load on the tractor lift arms
- Soil conserving
- Fuel saving
- High flexibility

Hydro-pneumatic suspension system - Turbolift system (TL-System)

- 4 Constant, continuously variable ground surface pressure by means of adjusting wheel (no need for tools!)

Contact pressure adjustable while driving

- Adaptable to a variety of conditions
- Passing of wet areas with low contact pressure is possible
- No damage to the sod
- No forage contamination

Free-floating cutting

- Gentle on the turf sward
- Reduced forage contamination (lower raw ash content in the basic forage)

- 5 „SafetySwing“ anti-collision device

„SafetySwing“ anti-collision device

- Each mower unit avoids obstructions independently from the other units
- Mower unit diverts backwards and upwards
- Re-engagement into working position through its own weight



1

2

3



4

5

Denomination of machine	SM 991 TL	SM 991 TL-KC
Data of rear mower (without front mower), front mower see page 30-33		
Reference number	712 181 0000	712 182 0000
Mounting Category	II+III	
Working width approx. m	9,30	
Transport width approx. m	2,78	
Transport height approx. m	3,90	
Capacity approx. ha/h	12,00	
Conditioner mounting prepared	Serie	
Conditioner	-	KC
Mower discs	2 x 7	
Blades per disc	2	
Swath width approx. m	2 x 2,50	2 x 1,85 - 3,25
Power demand approx. kW/hp	130/175	155/200
Necessary hydraulic outlets	1 x SAV*, 1 x DAV**	
PTO rpm	1000	
Overrunning clutch	standard	
Warning panels	standard	
Electrical lightning	standard	
Weight approx. kgs	2120	2830
Assembling time h	5,0	6,0

* single acting valve
** double acting valve

Special equipment	reference no.
1 additional skid • for increased cutting height; at least 2 skids are required per cutter bar • as wear protection in stony or sandy conditions (number of cutter discs = number of additional skids)	712 825 0000
Protective cover; for use without conditioner	712 805 0000
Spreader device for SM 991 TL-KC, for faster drying, 2 sets necessary	712 914 0000
Set of HD cutter discs with wear protection; specially designed for stony or sandy conditions; 2 sets necessary	712 885 0000
Quick blade change set for 14 cutter discs	712 875 0000
Elektromagnet 2/2-way valve; enables single lifting of either one mowing unit; saves 1 x single-acting valve	712 899 0000
Electro-hydraulic control Load-Sensing for SM 991 TL/-KC	712 903 0000
Electro-hydraulic control for SM 991 TL/-KC; upgradable to Load-Sensing	712 911 0000
Load-Sensing upgrade kit for the electro-hydraulic control 712 911 0000	712 915 0000
ISOBUS control; for SM 991 TL/-KC	712 902 0000
Articulated fork W2500-1 3/4" (20); additional delivery	712 861 0000
Articulated fork W2500-1 3/8" (21); additional delivery	712 865 0000
Articulated fork W2500-1 3/4" (6); additional delivery	712 866 0000
Swath discs for operation without conditioner; for making more narrow swaths, swath width approximately 1.70- 1.80 m, 2 sets necessary	712 886 0000



Disc mowers

Pulled
With transport chassis



Feature

- 1 Centrally pivoted drawbar
- 2 Power transmission through robust swivel gear
- 3 Cutter bar is mounted at the outermost points on the sturdy support frame
- 4 Front attachment provides extremely easy pulling „Pulling is easier than pushing“
- 5 The integrated hydraulic cylinder provide a long vertical travel range

Optimally located spring parallelogram

Central cutting height adjustment

Benefit

- Mower can be pivoted to the rear of the tractor to the left or right
- Advantage in case of horizontal forage and hillside situations
- No bending of the drive shaft even in tight curves
- Minimal wear in curves
- Optimum adaptation to the ground contour
- Gentle on the turf sward
- Optimum visibility forwards from the tractor seat
- No twisting of the cutter bar
- Soil conserving
- Fuel saving
- Vertical travel range: 430 mm
- Minimal spring contraction during oscillating movement of the mower unit
- Ground pressure is only marginally higher
- Adaptable to a variety of conditions



Denomination of machine	SM 313 Trans	SM 313 Trans-KC	SM 313 Trans-RC
Reference number 1000 rpm	712 144 0000	712 145 0000	712 146 0000
Reference number 540 rpm	712 147 0000	712 148 0000	712 149 0000
Mounting Category	II		
Working width approx. m	3,00		
Transport width approx. m	3,00		
Transport length approx. m	7,00		
Capacity approx. ha/h	3,50		
Conditioner mounting prepared	Serie		
Conditioner	-	KC	RC
Mower discs	6		
Blades per disc	2		
Swath width approx. m	2,00	0,90 - 2,25	1,55 - 1,90
Power demand approx. kW/hp	55/74	66/90	
Necessary hydraulic outlets	1 x SAV*, 1 x DAV**		
PTO rpm	540/1000		
Overrunning clutch	standard		
Tires	10.0/75-15.3 Imp. 8PR AW		
Warning panels	standard		
Electrical lightning	standard		
Weight approx. kgs	1690	1945	1962
Assembling time h	5,0		

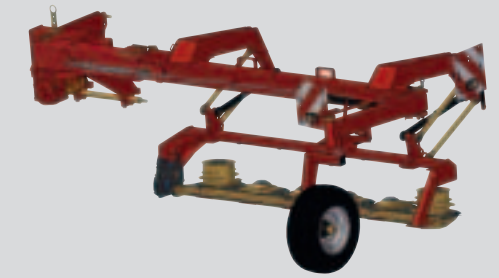
* single acting valve ** double acting valve

Special equipment	reference no.
Set of suppression hoops; recommended for crop heights greater than 80 cm	712 807 0000
1 additional skid	712 825 0000
Set of HD cutter discs with wear protection specially designed for stony or sandy conditions	712 883 0000
Protective cover; for use without conditioner; for SM 313 Trans-KC/-RC	712 800 0000
Swath displacer with hydraulically adjustable guiding plates for SM 313 Trans-RC; for swath displacement to left + right hand side for combined/contraflow operation; for 3.00 m field straw cutter pick-up	712 890 0000
Stone guard RC 311 for version with roller conditioner; protects the mowing bar against stone impact	712 905 0000
Quick blade change set for 6 cutter discs	712 871 0000
2 bogie wheels 10.0/75-15.3 AS; additional delivery	712 895 0000
2 bogie wheels 10.0/75-15.3 AS; supplied	712 896 0000
1 bogie wheel 11.5/80-15.3 AW; additional delivery	712 855 0000
1 bogie wheel 11.5/80-15.3. AW; supplied	712 856 0000
Articulated fork W2400-1 3/8" (21); additional delivery	712 863 0000
Articulated fork W2400- 8x32x38; additional delivery	712 864 0000
Windrowing plate for operation without conditioner for piling of a more densified windrow, swath width approx. 1,70 - 1,80 m	712 886 0000
Mower disk with conveyor wings for improved forage transport from the mowing bar to the cond.	712 909 0000
Additional spring relief for reduced contact pressure of the mower unit e.g. for stony conditions, additional delivery	712 922 0000
Additional spring relief for reduced contact pressure of the mower unit e.g. for stony conditions, included in the delivery	712 923 0000



Disc mowers

Pulled
With wheel support



Feature

- 1 The hitch load of the raised machine is distributed evenly to the bogie wheel and the tractor

Changing from working position to transport position and vice versa can be carried out hydraulically from the tractor seat

- 2 With fringe mower as standard (mower is inclined at an angle of 25°)

- 3 Anti collision device pivots 90° to the rear of the tractor > The swivel gear cannot damage the drive shaft

Cutter bar is mounted at the outermost points on the sturdy support frame

- 4 The integrated hydraulic cylinder provide a long vertical travel range

Optimally located spring parallelogram

Central cutting height adjustment

Benefit

- Low tractor load
- Large working widths can be achieved even with small tractors

- Easy operation

- No danger of slipping into ditches
- Forage is thrown inwards due to the inclination of the machine > No loss of forage

- High operation security

- Optimum adaptation to the ground contour
- Gentle on the turf sward
- No twisting of the cutter bar

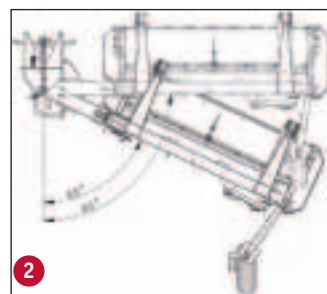
- Vertical travel range: 430 mm

- Minimal spring contraction during oscillating movement of the mower unit
- Ground pressure is only marginally higher

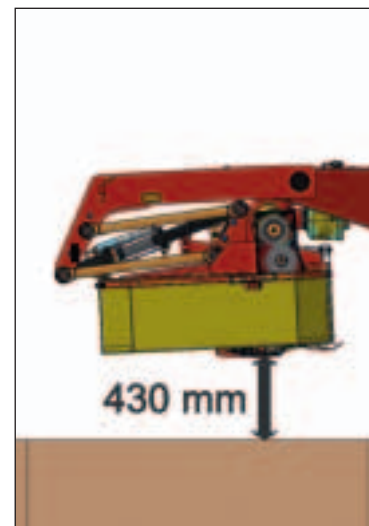
- Adaptable to a variety of conditions



1



3



4

Denomination of machine	SM 311 Trans	SM 311 Trans-KC	SM 311 Trans-RC
Reference number	712 141 0000	712 142 0000	712 143 0000
Mounting Category	II		
Working width approx. m	3,00		
Transport width approx. m	1,95		
Transport length approx. m	6,70		
Capacity approx. ha/h	3,50		
Conditioner mounting prepared	Serie		
Conditioner	-	KC	RC
Mower discs	6		
Blades per disc	2		
Swath width approx. m	2,00	1,45 - 2,25	1,55 - 1,90
Power demand approx. kW/hp	55/74	66/90	
Necessary hydraulic outlets	1 x SAV*, 1 x DAV**		
PTO rpm	1000		
Overrunning clutch	standard		
Tires	10.0/75-15.3 Imp. 8PR AW		
Warning panels	standard		
Electrical lightning	standard		
Weight approx. kgs	1458	1678	1730
Assembling time h	7,0		

* single acting valve ** double acting valve

Special equipment	reference no.
Mounted set for three-point extension for SM 311 Trans	712 867 0000
Cat. II lower link axle for SM 311 Trans; supplied	712 860 0000
Set of suppression hoops; recommended for crop heights greater than 80 cm	712 827 0000
1 additional skid	712 825 0000
Set of HD cutter discs with wear protection specially designed for stony or sandy conditions	712 883 0000
Protective cover for SM 311 Trans-KC/-RC; for use without conditioner	712 812 0000
Spreader device for SM 311 Trans-KC; for faster drying	712 846 0000
Compact swath deposit for SM 311 Trans-KC; for trailer operation and to avoid driving over mowed forage	712 889 0000
Stone guard RC 311 for version with roller conditioner; protects the mowing bar against stone impact	712 905 0000
Quick blade change set for 6 cutter discs	712 871 0000
1 bogie wheel 11.5/80-15.3 AW; additional delivery	712 855 0000
1 bogie wheel 11.5/80-15.3. AW; supplied	712 856 0000
Articulated fork W2400-1 3/8" (21); additional delivery	712 863 0000
Articulated fork W2400- 8x32x38; additional delivery	712 864 0000
Windrowing plate for operation without conditioner for piling of a more densified wi drow, swath width approx. 1,70 - 1,80 m	712 886 0000
Mower disk with conveyor wings for improved forage transport from the mowing bar to the cond.	712 909 0000
Additional spring relief for reduced contact pressure of the mower unit e.g. for stony conditions, additional delivery	712 920 0000
Additional spring relief for reduced contact pressure of the mower unit e.g. for stony conditions, included in the delivery	712 921 0000



Disc mowers

Pulled
With wheel support



Feature

- 1 The hitch load of the raised machine is distributed evenly to the bogie wheel and the tractor

Changing from working position to transport position and vice versa can be carried out hydraulically from the tractor seat

- 2 With fringe mower as standard (mower is inclined at an angle of 25°)

- 3 Anti collision device pivots 90° to the rear of the tractor > The swivel gear cannot damage the drive shaft

- 4 Cutter bar is mounted at the outermost points on the sturdy support frame

The integrated hydraulic cylinder provide a long vertical travel range

- 5 Optimally located spring parallelogram

Central cutting height adjustment

Benefit

- Low tractor load
- Large working widths can be achieved even with small tractors

- Easy operation

- No danger of slipping into ditches
- Forage is thrown inwards due to the inclination of the machine > No loss of forage

- High operation security

- Optimum adaptation to the ground contour
- Gentle on the turf sward
- No twisting of the cutter bar

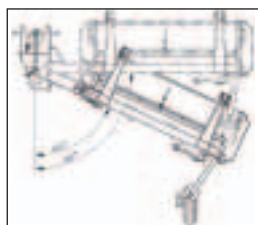
- Vertical travel range: 430 mm

- Minimal spring contraction during oscillating movement of the mower unit
- Ground pressure is only marginally higher

- Adaptable to a variety of conditions



1



2



3



5



4



Denomination of machine	SM 401 Trans	SM 401 Trans-KC	SM 401 Trans-RC
Reference number	712 151 0000	712 152 0000	712 153 0000
Mounting Category	II		
Working width approx. m	4,00		
Transport width approx. m	1,95		
Transport length approx. m	7,45		
Capacity approx. ha/h	4,80		
Conditioner mounting prepared	Serie		
Conditioner	-	KC	RC
Mower discs	8		
Blades per disc	2		
Swath width approx. m	2 x 1,05	2 x 0,50 - 1,25	2 x 0,60 - 0,95
Power demand approx. kW/hp	73/99	85/115	88/120
Necessary hydraulic outlets	1 x SAV*, 1 x DAV**		
PTO rpm	1000		
Overrunning clutch	standard		
Tires	10.0/75-15.3 Imp. 8PR AW		
Warning panels	standard		
Electrical lightning	standard		
Weight approx. kgs	1633	1928	1988
Assembling time h	8,0		

* single acting valve ** double acting valve

Special equipment	reference no.
Mounted set for three-point extension	712 867 0000
Cat. II lower link axle	712 860 0000
1 additional skid	712 825 0000
Set of HD cutter discs with wear protection specially designed for stony or sandy conditions	712 884 0000
Protective cover for use without conditioner	712 813 0000
Spreader device for SM 401 Trans-KC; for faster drying	712 844 0000
Single swath deposit for SM 401 Trans-RC; for depositing a single swath instead of 2 individual swaths in order to prevent the swath from drying quickly	712 892 0000
Quick blade change set for 8 cutter discs	712 872 0000
1 bogie wheel 11.5/80-15.3 AW; additional delivery	712 855 0000
1 bogie wheel 11.5/80-15.3. AW; supplied	712 856 0000
Articulated fork W2400-1 3/8" (21); additional delivery	712 863 0000
Articulated fork W2400- 8x32x38; additional delivery	712 864 0000
Windrowing plate for operation without conditioner for piling of a more densified windrow, swath width approx. 2,4 m (1 set) or 2x 1,2 m (2 sets)	712 886 0000
Stone guard RC 401 for version with roller conditioner; protects the mowing bar against stone impact	712 906 0000
Mower disk with conveyor wings for improved forage transport from the mowing bar to the cond.	712 909 0000
Additional spring relief for reduced contact pressure of the mower unit e.g. for stony conditions, included in the delivery	712 924 0000
Additional spring relief for reduced contact pressure of the mower unit e.g. for stony conditions, additional delivery	712 925 0000



Tine rotor-conditioner

FELLA „effective“-conditioner
3-point linkage



Feature

The forage is not crushed during conditioning; only the wax coat is removed

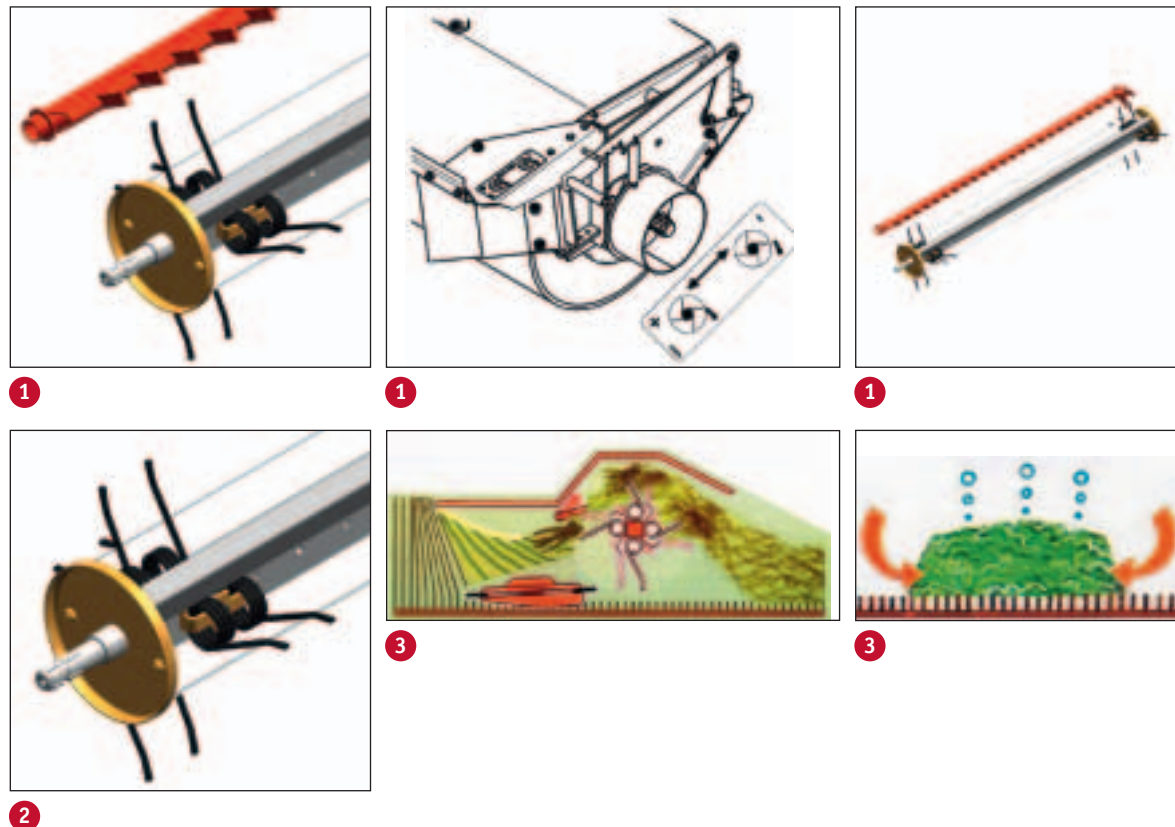
- 1 Conditioner intensity can be controlled by means of a counter-comb which can be adjusted to four different positions without tools
- 2 Spring tine rotor as standard with Super C tines and tine loss protection
- 3 Formation of a loose, well aerated swath, wide distributor optional

Simple, direct drive concept

Low-wear conditioner rotor mounted

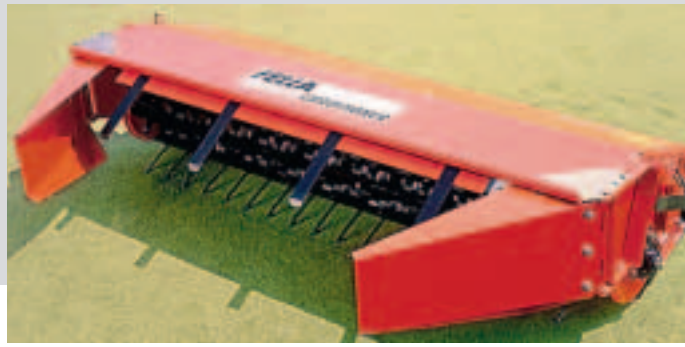
Benefit

- Gentle forage treatment
- Less loss due to crumbling compared to flail conditioners
- Adaptable to a variety of conditions
- Low sensitivity to foreign debris
- Faster drying
- Low weight
- Easy to pull
> little additional power demand
- High durability
> Economy



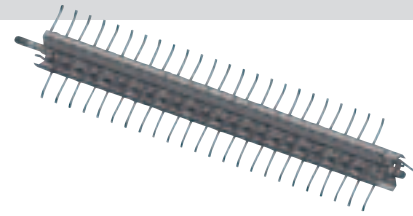
Denomination of machine	KC 275 D
Reference number	712 300 0000
Mounted to three-point linkage cat.	I/II
Pick-up width	1,73
Total width approx. m	2,32
Power demand approx. kW/hp	15/20
PTO-shaft rotation min-1	540/1000
Weight approx. kgs	398
Assembling time h	0,5

Special equipment	reference no.	
Wide spreading device for KC 275 D	712 853 0000	
Transmission shaft with overrunning clutch necessary for tractors with PTO-shaft brake, included in the delivery	712 712 0000	
Transmission shaft with overrunning clutch device necessary for tractors with PTO-shaft brake, additional delivery	712 714 0000	
Lamp holder	714 741 0000	
Contact wheel	715 575 0000	



Tine rotor-conditioner

For retrofitting
For SM 210/270/320



Feature

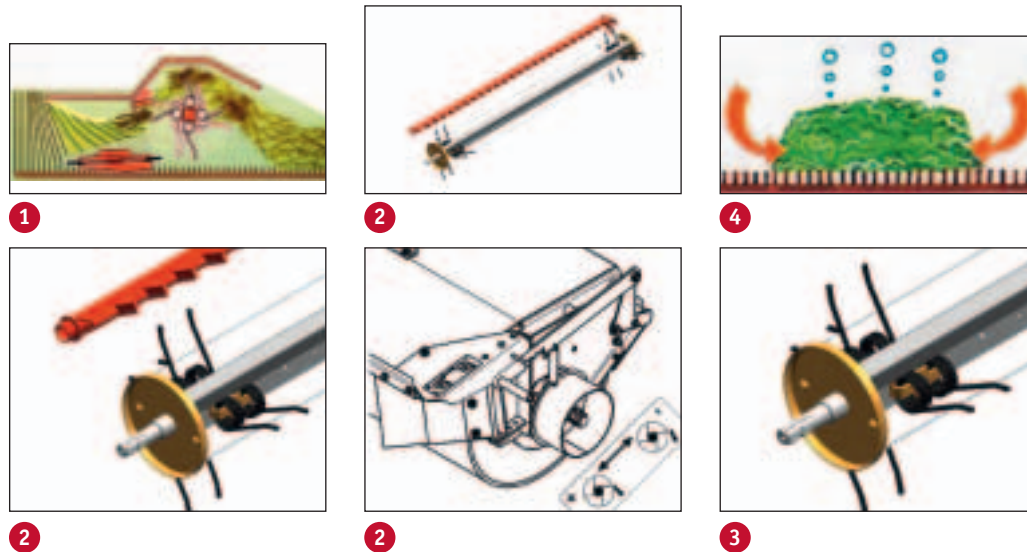
- 1 The forage is not crushed during conditioning; only the wax coat is removed
- 2 Conditioner intensity can be controlled by means of a counter-comb which can be adjusted to four different positions without tools
- 3 Spring tine rotor as standard with Super C tines and tine loss protection
- 4 Formation of a loose, well aerated swath, wide distributor optional

Benefit

- Gentle forage treatment
- Less loss due to crumbling compared to flail conditioners
- Adaptable to a variety of conditions
- Low sensitivity to foreign debris
- Faster drying
- Low weight
- Easy to pull > little additional power demand
- High durability > Economy

Simple, direct drive concept

Low-wear conditioner rotor mounted

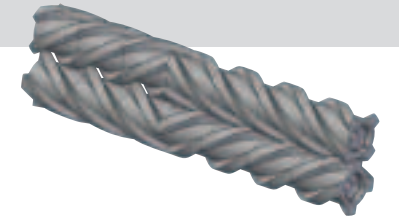


Denomination of machine	KC 210	KC 270	KC 320
Reference number 540 rpm	712 311 0000	712 312 0000	712 327 0000
Reference number 1000 rpm	712 321 0000	712 322 0000	712 328 0000
Power demand approx. kW/hp	12/16	15/20	18/25
PTO-shaft rotation min-1	540/1000		
Weight approx. kgs	180	223	287
Mounted time approx. h	0,5		



Roller conditioner

For retrofitting
For SM 210 / 270

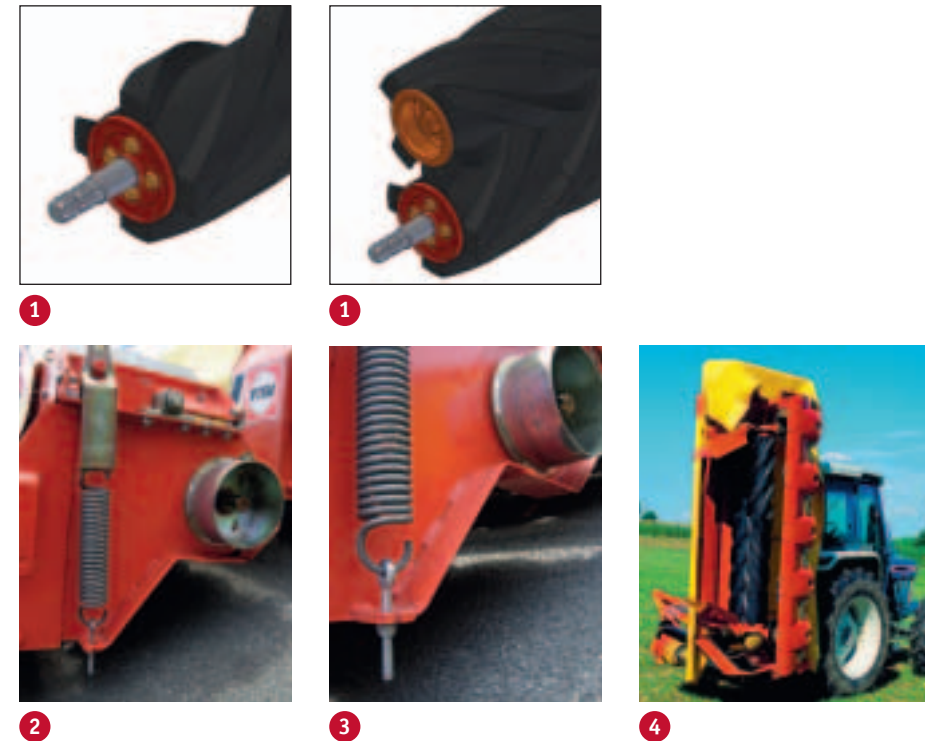


Feature

- 1 Rubber rollers have a large profile overlaps
- 2 Upper roller is protected by a spring
- 3 Contact pressure of the rubber profile elements is adjustable
- 4 Wide forage passage

Benefit

- It is only necessary to drive the lower roller
- Upper roller runs synchronously > Simple drive system
- Low sensitivity to foreign debris
- Optimum adaptation to different harvesting and weather conditions
- Easy flow of forage



Denomination of machine	RC 211	RC 271
Reference number 540 rpm	712 335 0000	712 337 0000
Reference number 1000 rpm	712 336 0000	712 338 0000
Power demand approx. kW/hp	12/16	15/20
PTO-shaft rotation min-1	540/1000	
Weight approx. kgs	223	320
Mounted time approx. h	0,5	



Tedders

Tedders



Alpine tedders

3-point linkage
Rigid headstock/with follow-up device



Feature

Drive of the individual rotors by means of hexagonal shaft and fork joints

Closed rotor heads lubricated with grease

Sturdy frame joints with special flange bushings and hardened bolts

Quick attachment to the tractor with linear power curve

Synchronous lift of the rotors

Standard spreading angle adjustment in 3 positions (15° - 18° - 21°)

Galvanized tine support, super C spring tines

Benefit

- Uniform and reliable power train

- Insensitive to dust and dirt
- Easy to maintain

- Refilled with grease
- Optimum ground adjustment even after many years of application

- Low relief of the front axle
- > High safety during road transport

- Safe operation even on slopes
- High stability

- Application possible under different conditions

- Break-proof
- Excellent adjustment to the ground contour
- Protection of the sod

Rigid headstock (TH 401 DS)

Rigid, compact headstock Cat I

- Especially for attachment to mountain tractors

Three-point linkage with follow-up device (TH 431/601 D Hydro)

Optimum guidance on the ground due to patented, low point of pull

- Excellent follow-up behaviour
- No overrunning downhill

Standard edge spreading device

- No forage losses at the edge of a field

Denomination of machine	TH 401 DS Hydro	TH 431 D Hydro	TH 601 D Hydro
Reference number	715 101 0000	715 110 0000	715 124 0000
Mounting Category	I+II*	I+II	
Working width approx. m	4,00	4,30	5,70
Transport width approx. m	2,33	2,44	2,70
Parking height approx. m	2,13	2,36	3,00
Rotors	4		6
Tine arms per rotor	5	6	5
Anti-tine loss protection	optional		
Tires	13/6.50-6	15/6.00-6	
Power demand approx. kW/hp	20/27	22/30	25/34
Necessary hydraulic outlets	1 x SAV		
PTO rpm	540		
PTO-shaft	overload safety clutch (radial pin clutch)		
Warning panels	standard		
Electrical lightning	optional		
Weight approx. kgs	305	385	498
Assembling time h	1,5		3,0

* optional equipment

Special equipment	reference no.
Anti-tine loss protective device (1 piece) Amount to be ordered = number of tine arms at the entire machine	715 781 0000
Electric lighting for TH 401 DS/431/601 D Hydro	715 560 0000
Contact wheel 13/6.50-6 , for optimal adjustment to the ground, for TH 431/601 D Hydro	715 575 0000
PTO shaft with overrunning clutch (included in the delivery), for TH 401 DS	715 773 0000
PTO shaft with overrunning clutch (additional delivery), for TH 401 DS	715 774 0000
PTO shaft with overrunning clutch (included in the delivery), for TH 431/601 D Hydro	715 760 0000
PTO shaft with overrunning clutch (additional delivery), for TH 431/601 D Hydro	716 733 0000
Attachment kit for normal tractors, for TH 431/601 D Hydro, required when attaching the tedder to a standard tractor	715 574 0000
Attachment kit for normal tractors CAT I + II, for TH 401 DS	715 716 0000
Spare wheel 13/6.50-6 with support , for TH 401 DS	715 586 0000
Spare wheel 15/6.00-6 with support , for TH 431/601 D Hydro	715 587 0000

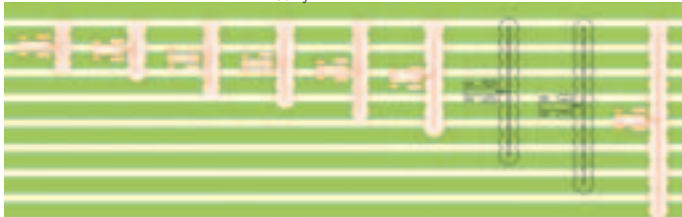
Combination mower - tedder



well-matched combination

TH 450 D TH 540 D TH 680 D TH 800 D TH 900 D TH 1101 Tr TH 1300 Hy TH 1550 Hy TH 1800 Hy
 TH 540 T TH 800 Tr TH 901 Tr TH 1100 Hy TH 790 TH 790 Hy

SM 248



KM 262
 SM 260 FK/FP/FP-S

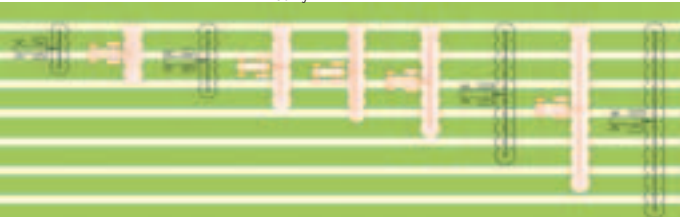


KM 270 FP
 SM 270/KC/RC

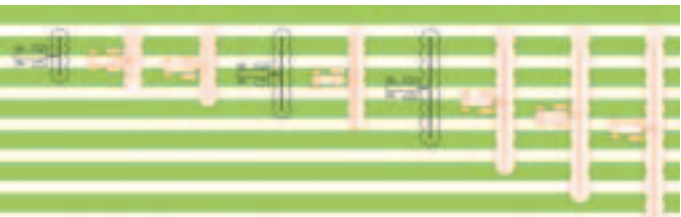


TH 450 D TH 540 D TH 680 D TH 800 D TH 900 D TH 1101 Tr TH 1300 Hy TH 1550 Hy TH 1800 Hy
 TH 540 T TH 800 Tr TH 901 Tr TH 1100 Hy TH 790 TH 790 Hy

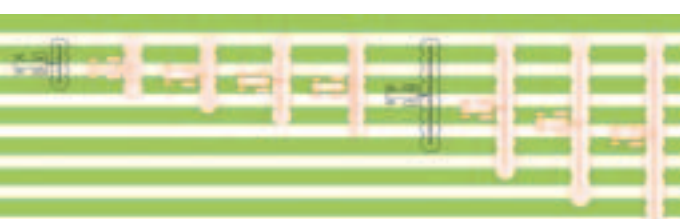
KM 286 TL
 KM 292
 KM 300 FP
 SM 288



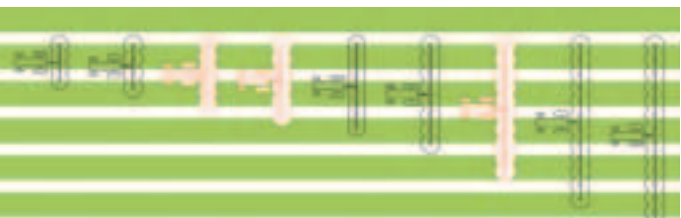
KM 310 FP/FZ
 KM 310 TL
 SM 310 FP/FZ
 SM 310 TL
 SM 311 Trans



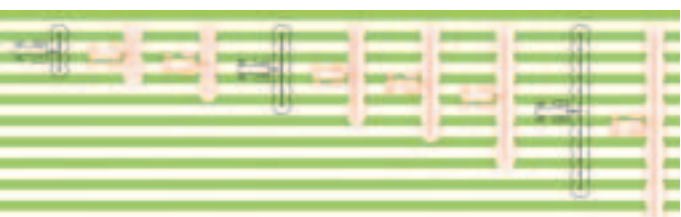
SM 313 Trans
 SM 320
 SM 911 TL



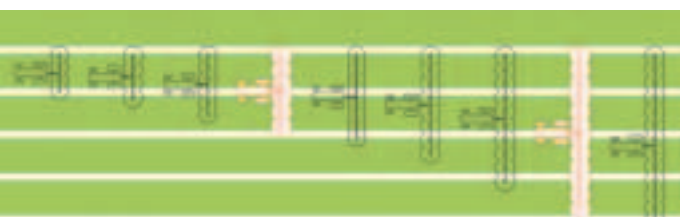
SM 350



SM 401 Trans



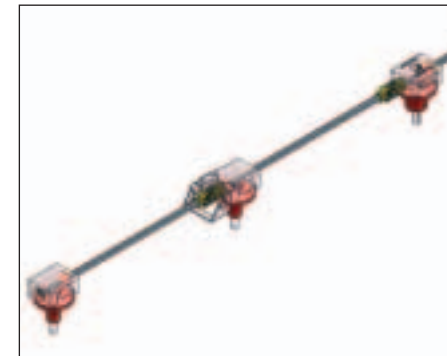
SM 420 TL



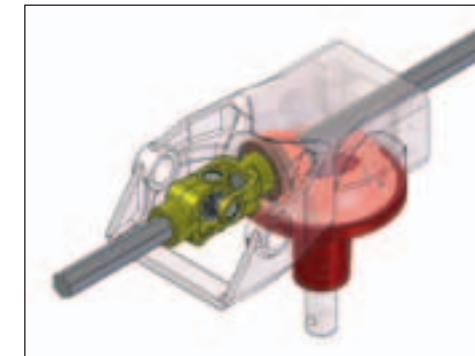
Tedders Rotorhead

The most important features

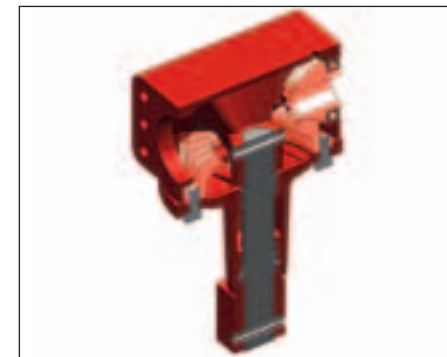
Feature	Benefit
1 Power-train single rotors with a hexagonal shaft and joint fork	<ul style="list-style-type: none"> Steady and reliable power transmission
2 Optimal transmission ration of 1:2 in the rotor head and the hinge head	<ul style="list-style-type: none"> High stability and minimization of peak torques due to hexagonal shaft in comparison to drive systems with key slots The required tine velocity will be achieved with low motor speed <ul style="list-style-type: none"> > Fuel-saving > Wear-reducing > Low impact on the forage > High profitabilit
3 Largely dimensioned, induction-hardened and ground tooth flank	<ul style="list-style-type: none"> Optimal power transmission to the rotors Very smooth run Extremely break-proof
4 Closed rotor head lubricated with grease	<ul style="list-style-type: none"> Resistant against dust and dirt Can be refilled with g ease Maintenance-friendly
5 Thick-wall, strongly dimensioned square frame tubes in modular system	<ul style="list-style-type: none"> High stability Long service life
6 Stable frame joints with special flange sleeves and hardened bolts	<ul style="list-style-type: none"> Very long service life Can be refilled with g ease Optimal adjustment to the ground even after many years in use
7 Short distance between the running wheel and the tines	<ul style="list-style-type: none"> Optimal adjustment to the ground
8 Galvanized tine support, super C spring tines	<ul style="list-style-type: none"> Break-proof Very good adjustment to the ground contours Protection of the sod <ul style="list-style-type: none"> > Clean forage with low portion of raw ashes



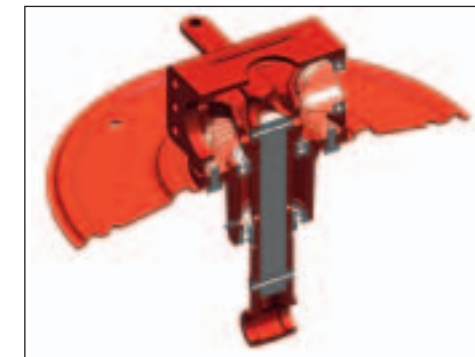
1



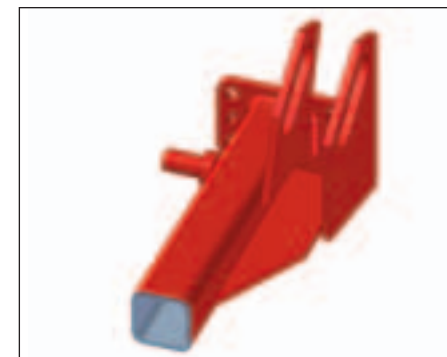
2



3



4



5



6



7



8



Tedders

3-point linkage
With follow-up device

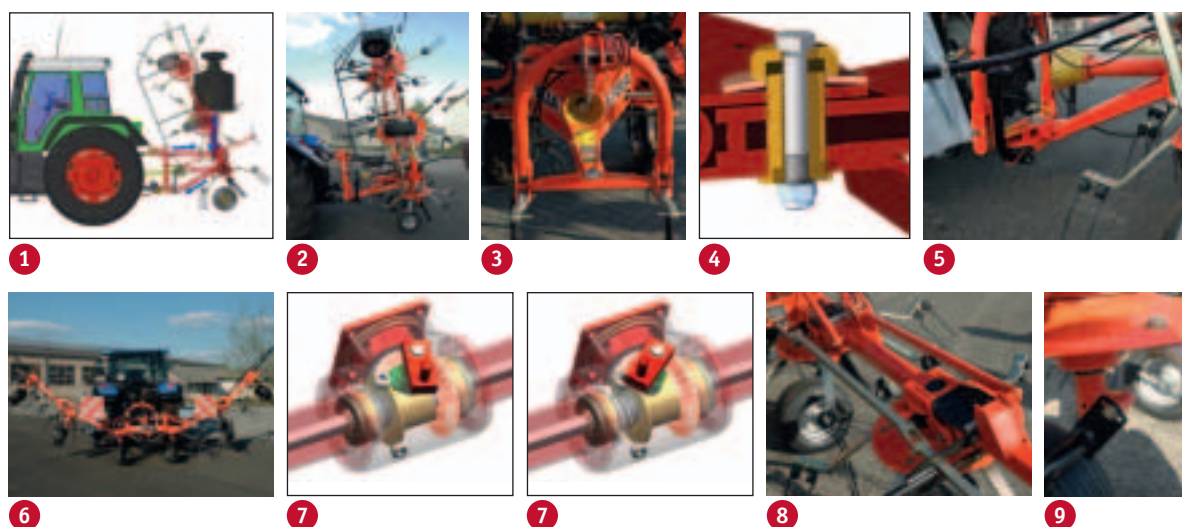


Feature

- 1 Patented traction/compression system
- 2 Quick attachment at the tractor with linear power curve
- 3 D-shaped circular tube frame
- 4 Pendulum brake integrated in the three-point linkage
- 5 Optimal guidance on the ground due to patented, low traction point
- 6 Synchronous lift due to pressure cylinders
- 7 Automatic safety disconnection when lifting the rotors into transport position
- 8 Central edge spreading device on both sides which can be adjusted from the tractor seat (**FELLA patent**)
- 9 Standard spreading angle adjustment into three different positions (15° -18° -21°)

Benefit

- Direct transmission of the machine weight to the lower control arms
- Automatic centralization and immobilization when lifting the machine (**FELLA patent**)
- Smooth run of the tedder in each situation
- Constant adjustment to the ground in each situation
- Low relief of the front axle
- > High degree of safety during road transport
- High stability
- Long service life
- No rocking of the tedder
- Very good follow-up behavior
- No risk of collisions when driving downhill
- Uniform lift of the rotors in each position
- Safe operation even on slopes
- High stability
- High user comfort
- Protection against operational failures
- No lost of forage at f led edge
- High user comfort
- Can be used in different types of crop



Denomination of machine	TH 450 D Hydro	TH 540 D Hydro	TH 680 D Hydro	TH 800 D Hydro	TH 900 D Hydro
Reference number	715 111 0000	715 121 0000	715 126 0000	715 132 0000	715 133 0000
Mounting Category	I+II				
Working width approx. m	4,50	5,20	6,60	7,70	8,60
Transport width approx. m	2,55	2,96	2,86	3,00	2,93
Parking height approx. m	2,41	2,67	3,43	3,67	3,36
Rotors	4		6		8
Tine arms per rotor	6				
Anti-tine loss protection	standard				
Tires	16/6.50-8				6 x 16/6.50-8 2 x 18.5/8.50-8
Power demand approx. kW/hp	22/30		30/41	60/82	70/95
Necessary hydraulic outlets	1 x SAV				1 x SAV, 1 x DAV*
PTO rpm	540				
PTO-shaft	overload safety clutch (radial pin clutch)				
Warning panels	standard				
Electrical lightning	optional				
Weight approx. kgs	557	597	782	919	1080
Assembling time h	2,5		3,0	4,0	6,0

* floati g position required

Special equipment	reference no.
Night swath gear for TH 450/540/680/800 D Hydro	715 451 0000
Night swath gear for TH 900 D Hydro	715 453 0000
Hydraulic edge spreading device, 1x SAV required in addition	715 736 0000
Electric lighting to be mounted on the existent warning plates	715 565 0000
Contact wheel 15/6.00-6 (ballon tires), for optimal adjustment to the ground, for TH 450/540/680/800 D Hydro	715 572 0000
Contact wheel 16/6.50-8 (super ballon tires), for optimum adjustment to the ground, for TH 900 D Hydro	715 576 0000
Spare wheel 16/6.50-8 10PR (super ballon tires) with support	716 828 0000
Friction brake for TH 900 D Hydro, for stable driving behavior if the allocation between the mower and the tedder has not been optimally coordinated	715 578 0000



Tedders

Pulled
With transport chassis



Feature

Automatic steering when switching from the working position to the transport position

Synchronous lift of the rotors

Transport chassis in working position in front of the rotors, below the frame of the machine

Rotors are positioned on large rubber dampers during transport

Automatic safety shutdown in transport position

Standard edge spreading device on both sides

Standard spreading angle adjustment in 3 positions (15° - 18° - 21°)

Wide track of the transport chassis with large dimensioned tires

Rotors with standard super low pressure tires (16/6.50-8); central machine 18 and/or 18.5/8.50-8

Approved speed 40 km/h

Benefit

- High ease of operation

- Uniform lift of the rotors in any position
- High stability

- Chassis not in the forage throwing range
- Lower load on the central rotors in comparison to the chassis tilted upward in the rear

- No load on the swivel joints

- High ease of operation
- Protection in case of operation errors

- No forage losses at the edge of a field
- High ease of operation

- Application possible under different conditions

- Smooth road behaviour

- Smooth running of the machine even on uneven ground
- Protection of the sod
- Excellent stability

- Low time losses when moving from one field to a other

Denomination of machine	TH 800 Trans	TH 901 Trans	TH 1101 Trans
Reference number	715 131 0000	715 130 0000	715 137 0000
Mounting Category	drawbar	II	
Working width approx. m	7,70	8,60	10,20
Transport width approx. m	3,00		
Transport length approx. m	4,48	4,40	4,78
Rotors	6	8	
Tine arms per rotor	6		
Anti-tine loss protection	standard		
Rotor tires	4 x 16/6.50-8 2 x 18/8.50-8	6 x 16/6.50-8 2 x 18.5/8.50-8	
Chassis tires	215/65-15	10.0/80-12	10.0/80-12
Power demand approx. kW/hp	30/41	40/54	
Necessary hydraulic outlets	1 x SAV	1 x DAV*	
PTO rpm	540		
PTO-shaft	overload safety clutch in the auxiliary drive (radial pin clutch)		
Warning panels	standard		
Electrical lightning	standard		
Weight approx. kgs	1237	1608	1676
Assembling time h	4,0	5,0	

* floati g position required

Special equipment	reference no.
Night swath gear	715 451 0000
Hydraulic edge spreading device, 1x SAV required in addition	715 729 0000
Unilateral wide-angle drive shaft, included in the delivery	715 747 0000
Unilateral wide-angle drive shaft, additional delivery	715 746 0000
Spare wheel 16/6.50-8 10PR (super ballon tires) with support	716 828 0000
Spare wheel 18/8.50-8 (hyper ballon tires) with support, for TH 800 Trans	716 829 0000
1 set of flexible contact wheels 18.5/8.50-8, for TH 901/1101 Trans	715 577 0000
Pulling eye for hitch hook, for TH 800 Trans	715 737 0000



Tedder

Pulled Drawbar



Feature

Coupling of the machine to a linkage drawbar or a towing hitch

Rotor tires:

- External rotors 16/6.50-8
- Central rotors 18/8.50-8

Standard spreading angle adjustment in 3 positions (15° - 18° - 21°)

Synchronous lift of the rotors

Automatic safety shutdown in transport position

Automatic transport lock

Benefit

- Quick and easy machine coupling
- High flexibility

- Smooth run of the machine
- Protection of the sod
- Excellent stability

- Application possible under different conditions

- Uniform lift of the rotors in any position
- Safe operation even on slopes
- High stability

- High ease of operation
- Protection in case of operation errors

- High safety during road transport

Denomination of machine	TH 540 T Hydro
Reference number	715 115 0000
Mounting Category	-
Working width approx. m	5,20
Transport width approx. m	2,96
Parking height approx. m	2,67
Rotors	4
Tine arms per rotor	6
Anti-tine loss protection	standard
Tires	2 x 16/6.50-8 2 x 18/8.50-8
Power demand approx. kW/hp	22/30
Necessary hydraulic outlets	1 x SAV
PTO rpm	540
PTO-shaft	overload safety clutch (radial pin clutch)
Warning panels	standard
Electrical lightning	optional
Weight approx. kgs	555
Assembling time h	2,5

Special equipment	reference no.
Night swath gear	715 451 0000
Electric lighting to be mounted on the existent warning plates	715 565 0000
Unilateral wide-angle drive shaft with overload protection (radial pin clutch), included in the delivery	715 761 0000
Unilateral wide-angle drive shaft with overload protection (radial pin clutch), additional delivery	715 762 0000
Spare wheel 16/6.50-8 10PR (super ballon tires) with support	716 828 0000
Spare wheel 18/8.50-8 (hyper ballon tires) with support	716 829 0000



Tedders

Pulled Drawbar



Feature

Coupling of the machine to a linkage drawbar, a towing hitch or a hitch hook

Rotors are automatically swiveled in the horizontal transport position during switching

Adjustment of working height centrally by means of spindle

Standard spreading angle adjustment in 3 positions (15° - 18° - 21°)

Rotors with standard super low-pressure tires (16/6.50-8)

Automatic transport lock

Standard edge spreading device on both sides

Trailing wheels centered in the respective positions via spring brackets

Mechanically folding variation (TH 790)

Switching process via preselecting of drawbar and running wheel locking

Hydraulically folding variation (TH 790/1100/1300 Hydro)

Synchronous switching process via single-acting hydraulic cylinders

Benefit

- Quick and easy machine coupling
- High flexibility

- Preselected working height is maintained
- High ease of operation

- Adjustment to different application conditions is possible

- Application possible under different conditions

- Smooth run of the machine
- Protection of the sod
- Excellent stability

- High safety during road transport

- No forage losses at the edge of a field

- Smooth run of the machine

- No hydraulic connection required

- High ease of operation

Denomination of machine	TH 790	TH 790 Hydro	TH 1100 Hydro	TH 1300 Hydro
Reference number	715 146 0000	715 147 0000	715 135 0000	715 138 0000
Mounting Category	drawbar			
Working width approx. m	7,70		10,20	12,70
Transport width approx. m	2,78			
Transport length approx. m	5,59		6,83	8,07
Rotors	6		8	10
Tine arms per rotor	6			
Anti-tine loss protection	standard			
Rotor tires	16/6.50-8			
Chassis tires	-			
Power demand approx. kW/hp	30/41		35/48	45/61
Necessary hydraulic outlets	-	1 x SAV		
PTO rpm	540			
PTO-shaft	overload safety clutch (radial pin clutch)			overload safety clutch (friction clutch)
Warning panels	optional			
Electrical lightning	optional			
Weight approx. kgs	790	890	1090	1305
Assembling time h	5,0		6,0	6,5

Special equipment	reference no.
Warning plates set with reflectors	715 735 0000
Electric lighting (to be mounted on warning plates 715 735 only)	715 566 0000
Pulling eye for hitch hook	715 737 0000
Night swath gear for TH 790, TH 790/1100 Hydro	715 451 0000
Night swath gear for TH 1300 Hydro	715 452 0000
Spare wheel 16/6.50-8 10PR (super ballon tires) with support	716 828 0000
1 set of locking axles (2 pieces), recommended for extensive use on slopes, for TH 790	715 571 0000

One-side wide-angle transmission shaft, recommended for mounted to hitch hook or drawbar.

Unilateral wide-angle drive shaft with overload protection (radial pin clutch), included in the delivery, for TH 790, TH 790/1100 Hydro	715 763 0000
Unilateral wide-angle drive shaft with overload protection (radial pin clutch), additional delivery, for TH 790, TH 790/1100 Hydro	715 764 0000
Unilateral wide-angle drive shaft with overload protection (friction clutch), included in the delivery, for TH 1300 Hydro	715 765 0000
Unilateral wide-angle drive shaft with overload protection (friction clutch), additional delivery, for TH 1300 Hydro	715 766 0000



Tedders

Pulled
Lower link mounting



Feature

Synchronous switching process via double-acting hydraulic cylinders

Continuously variable adjustment of the working height via double-acting hydraulic cylinder

Standard spreading angle adjustment in 3 positions (15° - 18° - 21°)

Rotors with standard super low-pressure tires (16/6.50-8)

Automatic transport lock

2 height-adjustable contact wheels (standard)

Trailing wheels centered in the respective positions via spring brackets

Central rotor wheels manually lockable

Benefit

- High ease of operation
- Tractor does not have to be moved

- Adjustment to different application conditions is possible
- High ease of operation

- Application possible under different conditions

- Smooth run of the machine
- Protection of the sod
- Excellent stability

- High safety during road transport

- Optimum adjustment to the ground

- Smooth run of the machine

- Very good suitability on slopes

Denomination of machine	TH 1550 Hydro	TH 1800 Hydro
Reference number	715 139 0000	715 140 0000
Mounting Category	II	
Working width approx. m	15,00	17,50
Transport width approx. m	2,80	
Transport length approx. m	9,05	10,30
Rotors	12	14
Tine arms per rotor	6	
Anti-tine loss protection	standard	
Rotor tires	12 x 16/6.50-8 10 PR	14 x 16/6.50-8 10 PR
Power demand approx. kW/hp	58/79	75/102
Necessary hydraulic outlets	2 x SAV	
PTO rpm	540	
PTO-shaft	overrunning clutch	
Warning panels	standard	
Electrical lightning	standard	
Weight approx. kgs	1800	2038
Assembling time h	7,0	8,0

Special equipment	reference no.	
Spare wheel 16/6.50-8 10PR (super ballon tires) with support	716 828 0000	
Unilateral wide-angle drive shaft with overrunning clutch (included in the delivery)	715 776 0000	
Unilateral wide-angle drive shaft with overrunning clutch (additional delivery)	715 777 0000	



Rakes
Rakes

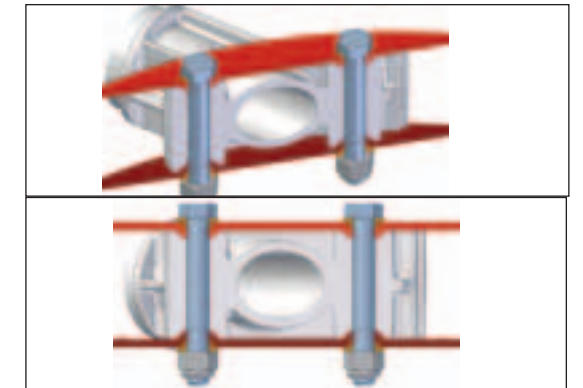
Rakes Rotorhead

The most important features

Feature	Benefit
1 Windrows will be piled on the right side (except for center rakes)	<ul style="list-style-type: none"> Better ergonomics and overview since the operating elements of state-to-the-art tractors are located on the right side
2 Conical bolting of the rake unit with conical ring (not TS 5 head = TS 2000)	<ul style="list-style-type: none"> Screws are not loaded with shearing effect Perfect centering and strength > Very long service life
Closed cam track	<ul style="list-style-type: none"> Protection of the gearbox against dust and contaminations Longer service life
3 Optimized sine-type cam track consists of high-quality, break-proof spherical cast iron	<ul style="list-style-type: none"> Very smooth operation Fast and exact lift of the tines Ideal formation of windrows
4 The cam track can be adjusted without the use of tools	<ul style="list-style-type: none"> Adaption to different conditions possible
5 Steel rollers (permanently lubricated) on roller bearings with flat contact surface	<ul style="list-style-type: none"> Reduced wear Maintenance-free due to sealing > High service life
6 Continuous linear adjustment of the working height with the help of a crank handle	<ul style="list-style-type: none"> Best raking quality and optimum adaption to the ground
7 Tangentially arranged rotor arms	<ul style="list-style-type: none"> Best possible raking quality Ideal formation of windrows > Allows higher working speed
8 Tine support with smooth leading edge	<ul style="list-style-type: none"> Grass will not be winded up
9 Tube tine support enlarged to fit	<ul style="list-style-type: none"> Material is not degraded No wear between rotor arm and tine support
10 The tines are not pulled over the tube but screwed from the bottom	<ul style="list-style-type: none"> Big freedom of movement of every tine Each double tine can be exchanged individually



1



2



4



7



5



6



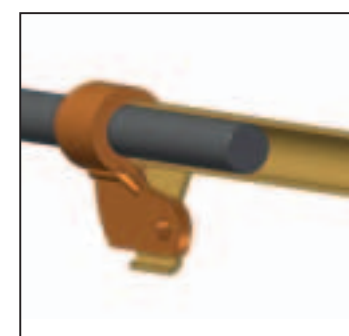
8



9



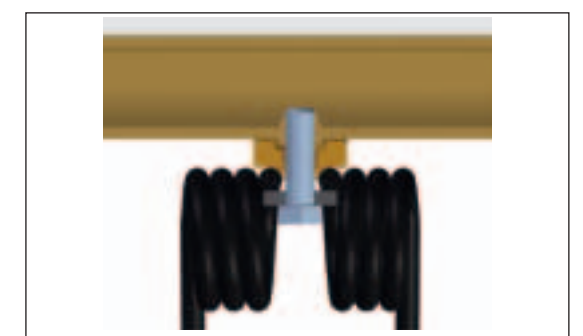
10



9



10



10



Rakes

3-point linkage
Rigid headstock



Feature

- 1 Versatile use
- 2 The swath is always placed on the right side of the machine in the driving direction
- 3 Short headstock
- 4 Flexible lower control arms, optionally available, spring-centered contact wheel
- 5 Adjustable transversal inclination over washers as well as large track width
- 6 By default equipped with lockable swiveling wheels
- 7 All tine supports can be removed
- 8 The removed tine supports are stored in horizontal position at the machine
- 9 The swath cloth can be continuously adjusted

Benefit

- Front, Rear, Rear backwards
- Better ergonomics and overview since the operating elements of the tractors are always on the right side
- The machine is mounted very close to the tractor
- Optimum adjustment to the ground
- Very good suitability on slopes
- Exact adjustment to the ground
- Optimum working quality
- Optimum guidance when working on slopes
- Small transport and parking width
- Better ergonomic working
- No risk of accidents for weaker persons
- The swath width can be adjusted in accordance with your requirements



Denomination of machine	TS 301 DS	TS 351 DS
Reference number	716 214 0000	716 223 0000
Mounting Category	I+II	
Working width approx. m	3,40	3,60
Swath width approx. m	0,60 - 1,30	0,60 - 1,50
Transport width approx. m	1,70	
Transport length approx. m	2,03	2,13
Tine arms per rotor	8	10
Double tines per arm	3	
Tires of rotor chassis	2 x 15/6.00-6	
Power demand approx. kW/hp	17/23	25/34
Necessary hydraulic outlets	-	-
PTO rpm	540	
PTO-shaft	overload safety clutch (radial pin clutch)	
Warning panels	optional	
Electrical lightning	optional	
Weight approx. kgs	330	370
Assembling time h	1,0	

Special equipment	reference no.	
Warning plates	716 778 0000	
Electric lighting, (to be mounted on warning plates 716 778 0000 only)	716 779 0000	
Contact wheel 15/6.00-6 (low-pressure tires), for optimum adjustment to the ground	715 572 0000	
PTO shaft with overrunning clutch, for rear use only, included in the delivery	716 732 0000	
PTO shaft with overrunning clutch, for rear use only, additional delivery	715 750 0000	
Spare wheel 15/6.00-6 with support	715 587 0000	
Necessary for driving backwards when mounted to the rear:		
Front mounting kit, consisting of: Contact wheel, relief spring and allround protection	716 753 0000	
Lower link attachment kit of category I + II, is recommended for the attachment to standard tractors with wide track; swath can be positioned to the right with an offset of 15 cm	716 754 0000	
Necessary for Front Application:		
Universal gear made of aluminum allow casting, suitable for 540 rpm counterclockwise as well as 1000 rpm counterclockwise and clockwise rotation; Not required for a front PTO shaft rotating clockwise with 540 rpm	716 751 0000	
Front mounting kit, consisting of: Contact wheel, relief spring and allround protection	716 753 0000	
Lower link attachment kit of category I + II, is recommended for the attachment to standard tractors with wide track; swath can be positioned to the right with an offset of 15 cm	716 754 0000	



Rakes

3-point linkage
With follow-up device



Feature

- 1 Swath is placed on the right side
- 2 Adjustable transversal inclination of the rotor (not applicable for TS 301 DN)
- 3 Wide-track chassis
- 4 All tine supports can be removed
- 5 The removed tine supports are stored in horizontal position at the machine
- 6 The swath cloth can be continuously adjusted
- 7 D-shaped circular tube frame
- 8 Forged, flexible lower control arms

Benefit

- Better ergonomic position for the driver since the operating elements of modern tractors are always on the right side
- Optimum raking
- Optimum adjustment to the ground
- Very good suitability on slopes
- Small transport and parking width
- Better ergonomic working
- No risk of accidents
- The swath width can be adjusted in accordance with your requirements
- High stability
- Very good suitability on slopes
- Optimum adjustment to the ground



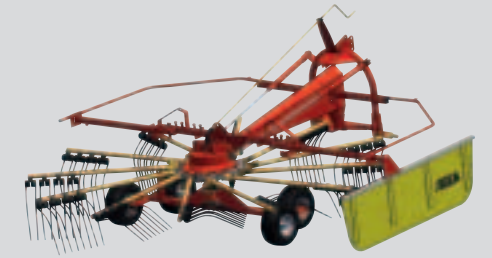
Denomination of machine	TS 301 DN	TS 351 DN	TS 391 DN
Reference number	716 213 0000	716 222 0000	716 227 0000
Mounting Category	I+II		
Working width approx. m	3,40	3,60	3,80
Swath width approx. m	0,60 - 1,30		
Transport width approx. m	1,42	1,55	
Transport length approx. m	2,00	2,21	2,31
Tine arms per rotor	8	10	
Double tines per arm	3		4
Tires of rotor chassis	2 x 15/6.00-6	2 x 16/6.50-8	
Power demand approx. kW/hp	17/23	20/27	
Necessary hydraulic outlets	-		
PTO rpm	540		
PTO-shaft	overload safety clutch (radial pin clutch)		
Warning panels	optional		
Electrical lightning	optional		
Weight approx. kgs	360	420	440
Assembling time h	1,0		

Special equipment	reference no.	
Warning plates	716 778 0000	
Electric lighting, (to be mounted on warning plates 716 778 0000 only)	716 779 0000	
Contact wheel 15/6.00-6 (low-pressure tires), for optimum adjustment to the ground	715 572 0000	
1 set of tandem axle with wheel 15/6.00-6 (low-pressure tires), for a smooth run and clean work at all conditions and for all types of forage, for TS 301 DN	716 762 0000	
1 set of tandem axles with wheel 16/6.50-8 (super ballon tires), for a smooth run and clean work at all conditions and for all types of forage, for TS 351/391 DN	716 765 0000	
PTO shaft with overrunning clutch, included in the delivery	716 730 0000	
PTO shaft with overrunning clutch, additional delivery	716 733 0000	
Spare wheel 15/6.00-6 with support, for TS 301 DN	715 587 0000	
Spare wheel 16/6.50-8 10PR (super ballon tires) with support, for TS 351/391 DN	716 828 0000	



Rakes

3-point linkage
With follow-up device

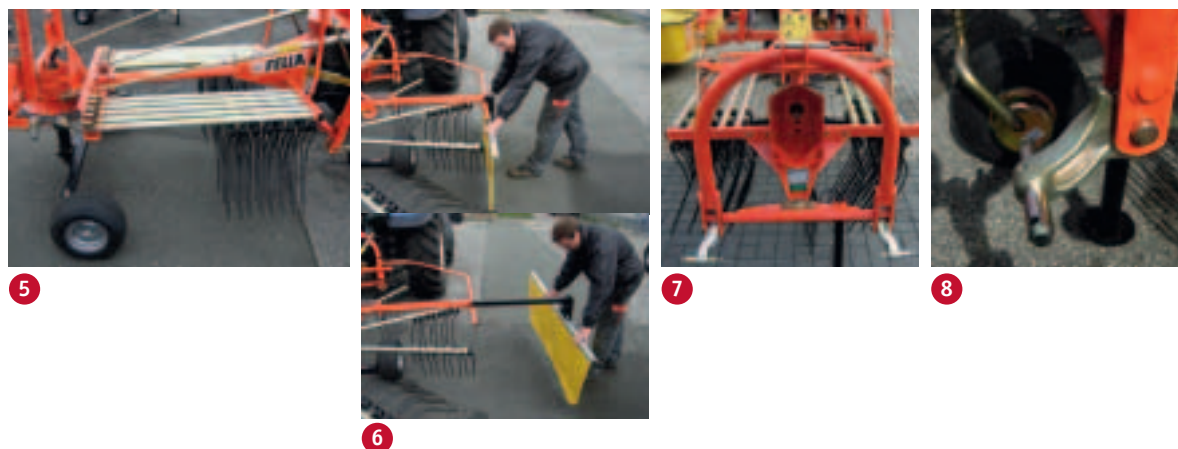
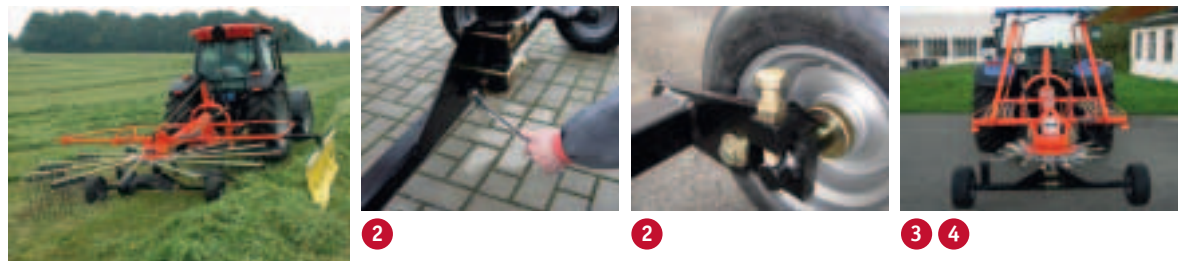


Feature

- 1 Swath is placed on the right side
- 2 Adjustable traversal inclination of the rotor
- 3 Wide-track chassis
- 4 All tine supports can be removed
- 5 The removed tine supports are stored in horizontal position at the machine
- 6 The swath cloth can be continuously adjusted
- 7 D-shaped circular tube frame
- 8 Forged, flexible Lower control arms

Benefit

- Better ergonomic position for the driver since the operating elements of modern tractors are always on the right side
- Optimum raking
- Optimum adjustment to the ground
- Very good suitability on slopes
- Small transport and parking width
- Better ergonomic working
- No risk of accidents for weaker persons
- The swath width can be adjusted in accordance with your requirements
- High stability
- Very good suitability on slopes
- Optimum adjustment to the ground



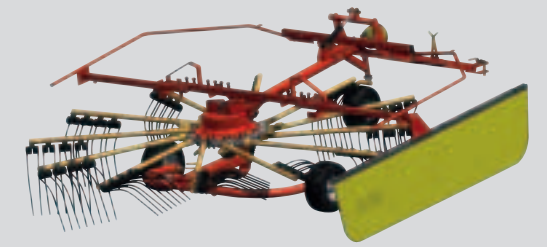
Denomination of machine	TS 400 DN	TS 426 DN	TS 456 DN
Reference number	716 228 0000	716 239 0000	716 242 0000
Mounting Category	I+II		
Working width approx. m	3,85	4,20	4,50
Swath width approx. m	0,70 - 1,55		0,75 - 1,60
Transport width approx. m	1,68	1,83	1,99
Transport length approx. m	2,34	2,58	2,68
Tine arms per rotor	10	12	
Double tines per arm	4		
Tires of rotor chassis	2 x 16/6.50-8		4 x 16/6.50-8
Tandem axle	optional		Serie
Power demand approx. kW/hp	20/27	30/41	
Necessary hydraulic outlets	-		
PTO rpm	540		
PTO-shaft	overload safety clutch (radial pin clutch)		
Warning panels	optional		
Electrical lightning	optional		
Weight approx. kgs	520	580	620
Assembling time h	1,0		1,5

Special equipment	reference no.	
Warning plates	716 778 0000	
Electric lighting, (to be mounted on warning plates 716 778 0000 only)	716 779 0000	
Contact wheel 15/6.00-6 (low-pressure tires), for optimum adjustment to the ground	715 572 0000	
1 set of tandem axles with wheel 16/6.50-8 (super ballon tires), for a smooth run and clean work at all conditions and for all types of forage, for TS 400/426 DN	716 765 0000	
PTO shaft with overrunning clutch, included in the delivery	716 731 0000	
PTO shaft with overrunning clutch, additional delivery	716 733 0000	
Spare wheel 16/6.50-8 10PR (super ballon tires) with support	716 828 0000	



Rake

Drawbar
1 rotor



Feature

Swath is placed on the right side

Adjustable traversal inclination of the rotor via eccentric bolts

Wide-track chassis

Coupling to a tractor linkage drawbar or a towing hitch

Continuously adjustable linear working height adjustment via mechanical adjustment crank

Parallel lifting motion of the rotor due to hydraulic portal axle

All tine supports can be removed

The removed tine supports are stored in horizontal position at the machine

The swath cloth can be continuously adjusted

Optionally available spring-centered contact wheel and tandem axle

Benefit

- Better ergonomic position for the driver since the operating elements of modern tractors are always on the right side

- Optimum raking

- Optimum adjustment to the ground
- Very good suitability on slopes

- Very easy coupling and uncoupling of the machine
- Large working widths also possible with small tractors

- Optimum raking and ideal adjustment to the ground

- Large ground clearance

- All tine supports can be removed

- Better ergonomic working
- No risk of accidents for weaker persons

- The swath width can be adjusted in accordance with your requirements

- Optimum suitability on slopes
- Ideal tracing of the ground

Denomination of machine	TS 425 T Hydro
Reference number	716 238 0000
Hitch type	drawbar
Working width approx. m	4,20
Swath width approx. m	0,70 - 1,55
Transport width approx. m (dismounted tine arms)	1,83
Transport length approx. m	3,46
Tine arms per rotor	12
Double tines per arm	4
Tires of rotor chassis	2 x 16/6.50-8
Power demand approx. kW/hp	30/41
Necessary hydraulic outlets	1 x SAV*
PTO rpm	540
PTO-shaft	overload safety clutch
Warning panels	optional
Electrical lightning	optional
Weight approx. kgs	540
Assembling time h	3,0

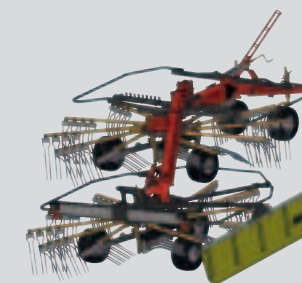
* single acting valve

Special equipment	reference no.	
Warning plates	716 778 0000	
Electric lighting, (to be mounted on warning plates 716 778 0000 only)	716 779 0000	
1 set of tandem axles with wheel 16/6.50-8 (super ballon tires), for a smooth run and clean work at all conditions and for all types of forage	716 765 0000	
Contact wheel 15/6.00-6 (ballon tires), for optimum adjustment to the ground	716 769 0000	
Wide-angle drive shaft on one side with overload clutch, included in the delivery	716 794 0000	
Wide-angle drive shaft on one side with overload clutch, additional delivery	716 795 0000	
Spare wheel 16/6.50-8 10PR (super ballon tires) with support	716 828 0000	



Rakes

Drawbar
2 rotors



Feature

Cardanic suspension of the rotors and twistable frame

Overrunning clutch as standard and overload protection in the drive line

Coupling to a tractor linkage drawbar or a towing hitch

Large-dimensioned hyper low-pressure tires 18x8.50-8

Parallel lifting motion of the rotor due to hydraulic portal axle

Secondary station as a standard (TS 1502)

Adjustable transversal inclination of the rotors via eccentric bolts

Continuously variable hydraulic adjustment of the operating width

Positioning of 1 side swath or positioning of 2 individual swaths is standard

Transport width with attached tine arms less than 3 m

Benefit

- Optimal adaptation to the ground in all directions > Clean raking job

- Protects the power train
- Low wear

- Very easy coupling and uncoupling of the machine
- Large operating widths also possible with small tractors

- Very smooth running during operation and transport

- Large ground clearance

- For exact swaths, also at the end of the field

- Exact adaptation to ground
- Optimum working quality

- High flexibility

- Positioning of the swath is adaptable to the mass of forage

- Tine arms do not have to be removed for road transport

Denomination of machine	TS 1302	TS 1502
Reference number	716 116 0000	716 118 0000
Hitch type	drawbar	
Working width approx. m (one side windrow)	6,30	
Working width approx. m (two windrows)	7,00	
Swath width approx. m	0,60 - 1,90	
Transport width approx. m (mounted tine arms)	3,00	
Transport width approx. m (dismounted tine arms)	2,30	
Transport length approx. m	8,45	
Tine arms per rotor	10/10	12/12
Double tines per arm	3	4
Tires of rotor chassis	2 x 18/8.50-8 2 x 18/8.80-8	2 x 18/8.50-8 3 x 18/8.80-8
Power demand approx. kW/hp	33/45	
Necessary hydraulic outlets	1 x SAV*, 1 x DAV**	
PTO rpm	540	
PTO-shaft	wide angle, one-sided	
Overrunning clutch in the auxiliary drive	standard	
Warning panels	standard	
Electrical lightning	standard	
Weight approx. kgs	1250	1380
Assembling time h	6,0	

* single acting valve
** double acting valve

Special equipment	reference no.
1 set of tandem axles with wheel 18/8.50-8 (hyper ballon tires), for a smooth run and clean work at all conditions and for all types of forage, 2 sets required	716 761 0000
Contact wheel 18/8.50-8 (hyper ballon tires) for the front rotor, for optimum adjustment to the ground	716 821 0000
Additional swath former for the positioning of 2 individual swaths, recommended for large amounts of forage	716 803 0000
Hydraulic operation for the rear swath former	716 804 0000
Pulling eye for hitch hook	716 816 0000
Hydraulic steering , for the delayed lift of the rear rotor, for TS 1302	716 819 0000
Spare wheel 18/8.50-8 (hyper ballon tires) with support	716 829 0000



Rakes

With transport chassis
2 rotors - lateral windrow deposition



Feature

- 1 Cardanic Suspension
- 2 Jet Effect
- 3 Rotating shaft steering with steering shaft located within the frame
- 4 Positioning of 1 side swath or positioning of 2 individual swaths is standard
- 5 Headland position with automatic height limitation

Secondary station as a standard

Benefit

- Optimal adaptation to the ground in all directions > clean raking job
- Prevents the front tines from driving into the ground when lifting and lowering
- No feed contamination
- High stability
- Shaft protected against damage
- Precise steering even after years of service
- Protects the power train
- Low wear
- Exact adaptation to ground
- Optimum working quality
- Positioning of the swath is adaptable to the mass of forage
- Lifting first parallel to ground
- No need to switch off rotors in headland position
- Large ground clearance
- For exact swaths, also at the end of the field



Denomination of machine	TS 1402	TS 1452	TS 1603
Reference number	716 111 0000	716 110 0000	716 114 0000
Mounting Category	I+II		
Working width approx. m (one side windrow)	6,50		7,70
Working width approx. m (two windrows)	7,00		8,40
Swath width approx. m	0,60 - 1,90		
Transport width approx. m	2,97		3,00
Transport height approx. m (mounted tine arms)	3,60		-
Transport height approx. m (dismounted tine arms)	3,30		3,65
Transport length approx. m	6,63		7,43
Tine arms per rotor	10/12	12/12	
Double tines per arm	4		4/5
Tires of rotor chassis	3 x 16/6.50-8		4 x 16/6.50-8
Tires of transport chassis	10.0/75 - 15.3		
Power demand approx. kW/hp	19/26		30/41
Necessary hydraulic outlets	1 x SAV*		
PTO rpm	540		
PTO-shaft	standard type		
Overrunning clutch in the auxiliary drive	standard		
Warning panels	standard		
Electrical lightning	standard		
Weight approx. kgs	1550	1580	2100
Assembling time h	8,0		

* single acting valve

Special equipment	reference no.	
1 ground wheel chassis TS 1402/1452 for one rotor, all 3 rotor wheels controllable, cannot be combined with tandem axle, additional delivery	716 775 0000	
1 ground wheel chassis TS 1603 for one rotor, all rotor wheels controllable, cannot be combined with tandem axle, additional delivery	716 823 0000	
1 set of tandem axles with wheel 16/6.50-8 (super ballon tires), for a smooth run and clean work at all conditions and for all types of forage, for TS 1603 (2 sets required)	716 765 0000	
1 set of tandem axles with wheel 16/6.50-8 (super ballon tires), for a smooth run and clean work at all conditions and for all types of forage, for TS 1402/1452 (2 sets required)	716 766 0000	
Additional swath former for the formation of 2 individual swaths, recommended for large amounts of forage	716 802 0000	
1 running wheel 11.5/80-15.3 AW for TS 1603, included in the delivery, to be ordered twice	712 856 0000	
1 running wheel 11.5/80-15.3 AW for TS 1603, additional delivery, to be ordered twice	712 855 0000	
Spare wheel 16/6.50-8 10PR (super ballon tires) with support	716 828 0000	
Wide-angle drive shaft on both sides, included in the delivery	716 789 0000	
Wide-angle drive shaft on both sides, additional delivery	716 791 0000	



Rake

With transport chassis
2 rotors - lateral windrow deposition



Feature

Maintenance-free ball bearings at the rotor arms, huge bearing distance of 43 cm

Double bearing of the input shaft at the rake head; profile of the power take-off shaft at the gearbox input

1 Cardanic suspension

2 Jet effect

Overrunning clutch as standard and overload protection in the drive line

Adjustable longitudinal and transverse inclination of the rotors

Headland position with automatic height limitation

Secondary station as a standard

Special folding kinematics with diagonal positioned rotors in transport position

Automatic hydraulic folding of the swath former from working in transport position

Benefit

- High stability

- Optimum power train
- High stability

- Optimal adaptation to the ground in all directions > Clean raking job

- Prevents the front tines from driving into the ground when lifting and lowering
- No feed contamination

- Protects the power train
- Low wear

- Exact adaptation to ground
- Optimum working quality

- Lifting first parallel to ground
- No need to switch off rotors in headland position
- Large ground clearance

- For exact swaths, also at the end of the field

- Transport height under 4 m
- Tine arms don't have to be removed for road transport

- High ease of use



1

1

2

Denomination of machine	TS 2000
Reference number	716 119 0000
Mounting Category	II
Working width approx. m (one side windrow)	9,00
Working width approx. m (two windrows)	-
Swath width approx. m	0,80 - 2,20
Transport width approx. m	3,00
Transport height approx. m (mounted tine arms)	3,99
Transport height approx. m (dismounted tine arms)	3,35
Transport length approx. m	10,80
Tine arms per rotor	15/15
Double tines per arm	5
Tires of rotor chassis	2 x 16/6.50 8 2 x 18/8.50-8
Tires of transport chassis	380/55 - 17
Power demand approx. kW/hp	55/75
Necessary hydraulic outlets	1 x SAV* 1 x DAV**
PTO rpm	540
PTO-shaft	standard type
Overrunning clutch in the auxiliary drive	standard
Warning panels	standard
Electrical lightning	standard
Weight approx. kgs	2900
Assembling time h	2,5

* single acting valve

** double acting valve

Special equipment	reference no.
Spare wheel 16/6.50-8 10PR (super ballon tires) with support	716 828 0000
Spare wheel 18/8.50-8 (hyper ballon tires) with support	716 829 0000
Wide-angle drive shaft on both sides, included in the delivery	716 836 0000
Wide-angle drive shaft on both sides, additional delivery	716 837 0000



Rakes

With transport chassis
2-rotor central rakes

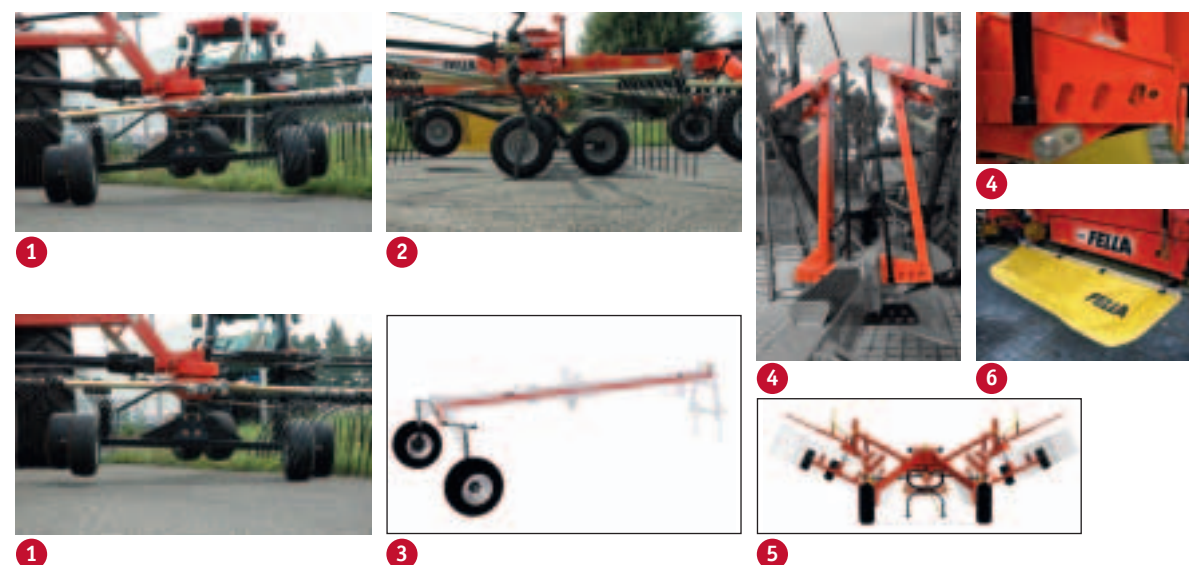


Feature

- 1 Cardanic Suspension
- 2 Jet effect
- 3 Rotating shaft steering with steering shaft located within the frame
- Overrunning clutch as standard and overload protection in the driveline
- Adjustable longitudinal and transverse inclination of the rotors
- 4 Working-/Swath width adjustment
- 5 Headland position with automatic height limitation
- 6 Swath cloth is automatic folding

Benefit

- Optimal adaptation to the ground in all directions
- Makes for a clean raking job
- Prevents the front tines from driving into the ground when lifting and lowering
- No feed contamination
- High stability
- Shaft protected against damage
- Precise steering even after years of service
- Protects the power train
- Low wear
- Exact adaptation to ground
- Clean raking job
- 4 widths selectable (without tools)
- Always lowest transport height, independent of preselected working width (**FELLA patent**)
- Lifting first parallel to ground
- No need to switch off rotors in headland position
- Large ground clearance
- For driving over high swaths



Denomination of machine	TS 671	TS 801	TS 880
Reference number	716 104 0000	716 106 0000	716 107 0000
Mounting Category	I+II		
Working width approx. m	5,80 - 6,60	6,80 - 7,60	7,20 - 8,10
Swath width approx. m	1,20 - 1,80	1,20 - 2,00	1,20 - 2,10
Transport width approx. m	2,98		
Transport height approx. m (mounted tine arms)	3,70	-	-
Transport height approx. m (dismounted tine arms)	3,18	3,55	3,60
Transport length approx. m	4,66	5,33	
Tine arms per rotor	10/10	12/12	
Double tines per arm	4		
Tires of rotor chassis	3 x 16/6.50-8	4 x 16/6.50-8	
Tires of transport chassis	10.0/75 - 15.3		
Power demand approx. kW/hp	19/26	30/41	35/48
Necessary hydraulic outlets	1 x SAV*		
PTO rpm	540		
PTO-shaft	standard type		
Overrunning clutch in the auxiliary drive	standard		
Warning panels	standard		
Electrical lightning	standard		
Weight approx. kgs	1350	1875	1900
Assembling time h	8,0		

* single acting valve

Special equipment	reference no.
1 set of tandem axles with wheel 16/6.50-8 (super ballon tires), for a smooth run and clean work at all conditions and for all types of forage, for TS 801/880 (2 sets required)	716 765 0000
1 set of tandem axles with wheel 16/6.50-8 (super ballon tires), for a smooth run and clean work at all conditions and for all types of forage, for TS 671 (2 sets required)	716 766 0000
Individual lifting device for the rotors, a total of 2 SAV required	716 774 0000
Individual lifting device for the rotors with three-way valve, a total of 1 SAV required	716 806 0000
1 running wheel 11.5/80-15.3 AW for TS 801/880, included in the delivery, to be ordered twice	712 856 0000
1 running wheel 11.5/80-15.3 AW for TS 801/880, additional delivery, to be ordered twice	712 855 0000
Flow divider , for synchronous lift of the rotors	716 817 0000
Spare wheel 16/6.50-8 10PR (super ballon tires) with support	716 828 0000
Wide-angle drive shaft on both sides , included in the delivery	716 789 0000
Wide-angle drive shaft on both sides , additional delivery	716 791 0000



Rake

With transport chassis
2-rotor central rakes



Feature	Benefit
1 Cardanic Suspension	<ul style="list-style-type: none"> Optimal adaptation to the ground in all directions Makes for a clean raking job
2 Jet effect	<ul style="list-style-type: none"> Prevents the front tines from driving into the ground when lifting and lowering No feed contamination
3 Rotating shaft steering with steering shaft located within the frame	<ul style="list-style-type: none"> High stability Shaft protected against damage Precise steering even after years of service
Overrunning clutch as standard and overload protection in the driveline	<ul style="list-style-type: none"> Protects the power train Low wear
Adjustable longitudinal and transverse inclination of the rotors	<ul style="list-style-type: none"> Exact adaptation to ground Clean raking job
4 6-wheel rotor chassis with <ul style="list-style-type: none"> fixed twin jockey wheel tandem axle as standard 18/8.50-8 tires 	<ul style="list-style-type: none"> Ideal adjustment to ground conditions Even operation of the machine also in hard conditions
5 Working-/Swath width adjustment	<ul style="list-style-type: none"> 4 widths selectable (without tools) Always lowest transport height, independent of preselected working width (FELLA patent)
6 Headland position with automatic height limitation	<ul style="list-style-type: none"> Lifting first parallel to ground No need to switch off rotors in headland position Large ground clearance
7 Swath cloth is automatic folding	<ul style="list-style-type: none"> For driving over high swaths

Denomination of machine	TS 880 PRO
Reference number	716 124 0000
Mounting Category	I+II
Working width approx. m	7,20 - 8,10
Swath width approx. m	1,20 - 2,10
Transport width approx. m	2,98
Transport height approx. m (mounted tine arms)	-
Transport height approx. m (dismounted tine arms)	3,60
Transport length approx. m	5,37
Tine arms per rotor	12
Double tines per arm	4
Tires of rotor chassis	6 x 18/8.50-8
Tires of transport chassis	15.3 (11.5/80-15.3 AW)
Power demand approx. kW/hp	35/48
Necessary hydraulic outlets	1 x SAV
PTO rpm	540
PTO-shaft	standard type
Overrunning clutch in the auxiliary drive	standard
Warning panels	standard
Electrical lightning	standard
Weight approx. kgs	2000
Assembling time h	8,0

Special equipment	reference no.
Individual lifting device for the rotors, a total of 2 SAV required	716 774 0000
Individual lifting device for the rotors with three-way valve, a total of 1 SAV required	716 806 0000
Flow divider, for synchronous lift of the rotors	716 817 0000
Spare wheel 18/8.50-8 (hyper ballon tires) with support	716 829 0000
Wide-angle drive shaft on both sides, included in the delivery	716 789 0000
Wide-angle drive shaft on both sides, additional delivery	716 791 0000





Rake

With transport chassis
4-rotor central rakes



Feature

1 Cardanic suspension

2 Jet effect

3 Sturdy central tube frame with central chassis axle

4 Drawbar swivel head

Overrunning clutch as standard and overload protection in the drive line

Adjustable longitudinal and transverse inclination of the rotors

5 Hydraulic adjustment of the working width

Standard steering, synchronous lifting of the front rotors possible

Headland position with automatic height limitation

Swath cloth is automatic folding

Benefit

- Optimal adaptation to the ground in all directions
- Makes for a clean raking job

- Prevents the front tines from driving into the ground when lifting and lowering
- No feed contamination

- High stability
- Compact transport position

- Good maneuverability

- Protects the power train
- Low wear

- Exact adaptation to ground
- Clean raking job

- High flexibility

- For exact swaths, also at the end of the field

- Lifting first parallel to ground > Large ground clearance
- No need to switch off rotors in headland position

- For driving over high swaths



Denomination of machine	TS 4000
Reference number (hydraulic brake)	716 121 0000 (HB)
Reference number (air brake)	716 122 0000 (DB)
Mounting Category	II
Working width approx. m	12,50
Swath width approx. m	1,20 - 2,20
Transport width approx. m	2,98
Transport height approx. m (mounted tine arms)	-
Transport height approx. m (dismounted tine arms)	3,65
Transport length approx. m	8,49
Tine arms per rotor	4 x 12
Double tines per arm	4
Tires of rotor chassis	4 x 16/6.50-8
Tires of transport chassis	500/50-17
Power demand approx. kW/hp	59/80
Necessary hydraulic outlets	2 x DAV*
PTO rpm	540
PTO-shaft	standard type
Overrunning clutch in the auxiliary drive	standard
Warning panels	standard
Electrical lightning	standard
Weight approx. kgs	4200
Assembling time h	assembled

* double acting valve

Special equipment	reference no.
1 set of tandem axles with wheel 16/6.50-8 (super ballon tires), for a smooth run and clean work at all conditions and for all types of forage, (2 sets required), only for the 2 rear rotors	716 765 0000
Wide-angle drive shaft on both sides , included in the delivery	716 836 0000
Wide-angle drive shaft on both sides , additional delivery	716 837 0000
Flow divider , for synchronous lift of the rotors	716 817 0000
Spare wheel 16/6.50-8 10PR (super ballon tires) with support	716 828 0000
2x ground wheel chassis , all rotor wheels controllable, cannot be combined with tandem axle, for rear rotors only, included in the delivery	716 824 0000
2x ground wheel chassis , all rotor wheels controllable, cannot be combined with tandem axle, for rear rotors only, additional delivery	716 825 0000

