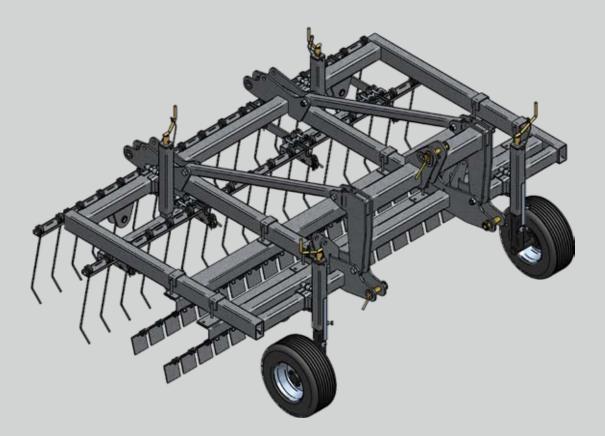




Manual and spare parts catalog Pasture Harrow 2,50m - 6,00m working width





Thomas Hatzenbitchler agro-technik gabH Fischering 2, A-9433 St.Andra Tel: +43(0) 4358/2287 Fax: +43(0) 4358/2208 E-mail: agrotechnik@hatzenbichler.com OPICO LIMITED South Road, Bourne, Lincs, PE10 9LG Tel: 01778 421111 Fax: 01778 425080 Email: ask@opico.co.uk Web: www.opico.co.uk







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EG Declaration of Conformity

The manufacturer: Thomas Hatzenbichler Agro-Technik GmbH Fischering 2 A-9433 St. Andrä Phone: +43 (0) 4358/2287

declares that the following product:

Product:	Pasture harrow
Working width	
Serial number:	
Year of building	

all relevant provisions of the Machinery Directive (2006/42/EC).

To properly implement the EG directives specified in the safety and health requirements of the following standards and / or specifications have been used.

DIN EN ISO 4254-1	Agricultural machinery - Safety - Part 1: General requirements
DIN EN ISO 12100	Safety of machinery - Basic concepts - Risk assessment and risk reduction
DIN EN 60204-1	Safety of machinery - Electrical equipment of machines Part 1: General requirements

GMBH FISCHERING 2 (4358) 287, Fax, 2208

Fischering, 17.11.2012 Date

Director





Second Safety Information:



Before starting, read the instruction manual and note



The transport of the machine is prohibited!



When attaching the machine and during operation of the hydraulic folding sure that no one in between.



Never reach into the crushing area as long as parts may move!



The stay in the danger zone is permitted only if a memory stroke cylinders assurance or safety support!



Beware of high pressure fluid escaping!





Dear Customer!

We are pleased to congratulate you on your buying decision and wish you much fun and success in working with this device.

Please read necessarily before using this product all the instructions in this manual carefully.

This will avoid, reduce risks, downtime and repair costs, increase reliability and service life of your machine.

With illustrations and information on technical data and dimensions in this manual changes designed to improve, are reserved.

The machine is equipped with state of the art and the recognized securities safety rules. Nevertheless, results from the use of injury to the user or third parties.

The only machine in perfect working condition for its intended purpose, safety and risk of danger with respect to use of the manual!

In particular, problems that can affect safety must be corrected immediately.

The machine may only be used by individuals, maintained and repaired, who are familiar with and aware of the danger.

The installation or modification of products cannot Hatzenbichler constructively given

Characteristics of the machine to change negative and thereby impair the safety of man and machine.

The machine is designed for normal use for cultivation in the agricultural sector determined. Any other or additional use is considered improper.

Shall not be liable for damages resulting from Hatzenbichler. The risk is borne entirely by the user.

Intended use also includes compliance with the instruction manual and the adherence to the manufacturer's instructions for operation, maintenance and maintenance requirements.

4th. Accident prevention

- The General accident prevention regulations of each country are taken into account.
- When is arrival and uncoupling the machine to the hitch of the tractor injury.
- The unit must be secured to prevent accidental switching off when rolling.
- The device may only be used by anyone on the regulations for public transport streets know.
- The attached machine before hanging off the ground.





5th. Transport on public roads (main provisions)

- For transport on public roads, the stop valve on the cylinders shut off to allow a accidentally open the machine is prevented.
- The axle load and total weight of the tractor must not be exceeded.
- The attachment must match films with warning signs or red and white diagonal bar (according to DIN, or relevant standards) are identified.
- Transport hazardous or dangerous parts must be covered and also with warning signs or sheets be identified.
- Warning signs or slides to max. be 1.50 m above the roadway while driving.
- Illumination devices of the tractor must not be obscured by the unit, otherwise must be attached to the attachment also repeats.
- The ability to steer the tractor may be the attachment is not impaired or diminished.
- The device may only be used by anyone on the regulations for public transport streets know.
- For transport on public roads with a max. 25 km/h run.

6th. Warranty

The unit immediately upon acceptance check for possible shipping damage. Subsequent complaints from transit damage cannot be accepted.

We give a one year warranty from date of shipment (your invoice or delivery note as proof of valid). This warranty is valid in the case of material or construction failure and does not cover parts that are damaged by normal-or excessive wear.

The warranty is void:

- if damage is caused by external forces
- when an operation error
- if the specified KW/horsepower limit is exceeded
- if the device is changed without our consent, extended, or is equipped with foreign parts.

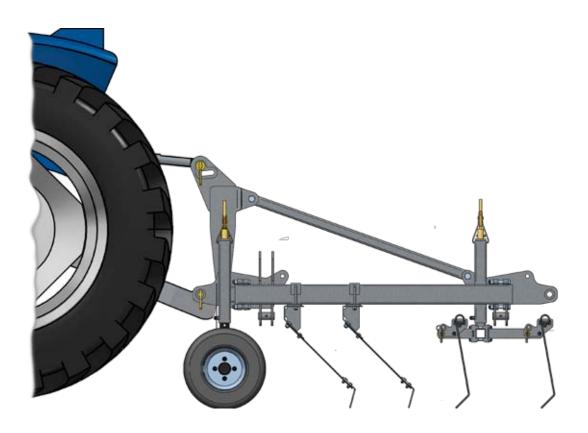




7th Appendices the pasture harrow to the tractor

- The air pressure in the tractor rear tires should be sufficient for use
- Under difficult operating conditions may be additional wheel weights advantage. See also operating instructions of the tractor manufacturer.
- The tractor's front equipment with sufficient ballast to ensure the steering and braking ability.
- The lift arms must be adjusted left and right at the same height.
- The harrow to the 3-point hitch of the tractor to attach.
- The hydraulic hoses (for devices with hydraulic folding) connected to a double-acting valve.

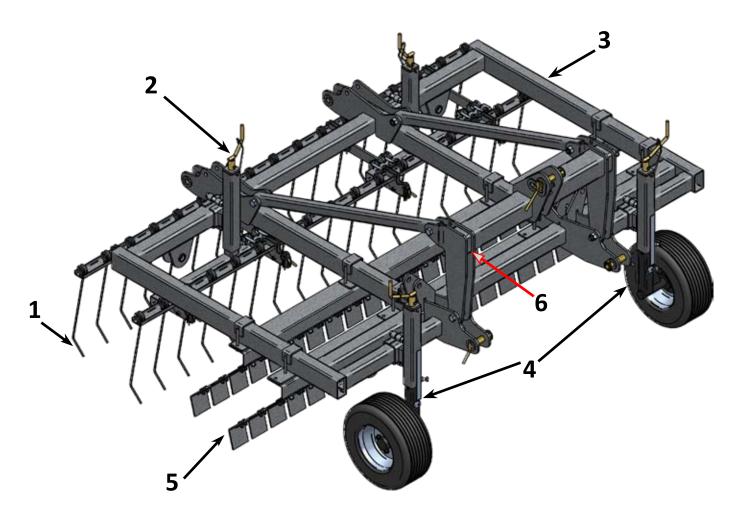
Note when connecting to the tractor and machine hoses are depressurized







8th Design and operation



- 1. Tine Ø=8mm
- 2. Adjustable support for harrow bar
- 3. Base frame galvanized
- 4. Adjustable spindle wheels
- 5. Three-point hitch
- 6. grazing plates b=95mm





Operation of the Pasture Harrow:

The management and maintenance of grassland is the foundation to provide optimum roughage.

The Hatzenbichler pasture harrow is used for incorporation of slurry and manure at the same time of harrow- wing weeded grassland.

The whole frame was in a special process to the so-called galvaniesiert corrosions which of slurry and manure incur withstand longer.

The optimal constructed levelling plates with a width of 95mm, which are individually mounted on the guide rail a perfect incorporation of slurry and manure and the levelling out of molehills is achieved.

The aggressiveness of the levelling plates is adjusted by means of screw adjustment

The specially shaped tines with vibration effect, "clean" the grassland of moss-covered and matted places without damage the grassland.

The tine aggressiveness by 10-hole adjustment (see page 9) can be set

Due to the special arrangement of the teeth on the 2 tine bar, a perfect, full-surface-clogging work is guaran- teed.

The tines can be adjusted by means of adjustment of spindle separately from the lining plates.

Specifically for grassland Hatzenbichler tines with a diameter of 7 mm and a length of 410mm (on request tine 8mm diameter) are manufactured oil-tempered hardened spring wire, which makes them very durable and sturdy. The tines can be replaced individually.

The pasture harrow with 5m and 6m working width are hydraulic folding.

9th Technical data:

Working width:	2,50m	5,00m	6,00m
Weight approximately in kg:	510 kg	940 kg	1050 kg
Transport width:	2,50m	3,00m	3,00m
HP:	40	80	100
Diameter of tines:	7mm	7 mm	7 mm
Length of the tines:	410mm	410 mm	410 mm
Pieces hydraulic cylinders		2	2





10th Hatzenbichler grassland tine:

- The special grassland tine are made of oil tempered spring wire (which is also used in the motor industry).
- He has, therefore, particularly long service life.
- The tines changing are seperatly
- vibration effect
- Ø= 7mm or 8mm
- tine length = 410mm
- special spring coil

11th Support Wheels



The spindle adjustable support wheels serve firstly. As transport on roads and on the other to adjust the operating pressure to the harrow tines and oblique plates

- 1. The rotation through reclines solve
- 2. Set the desired pressure Attention!! Both wheels must be on the same level
- 3. The twisting back flip again.

12th Levelling Scrapers

•



- Width of 95mm and a length
- This particular attack angle optimum towing grass- land is given.
- By special spring plate not bend and break the streak plate.
 - The levelling scrapers are individually mounted on the guide rail.
- These can also be replaced individually.

If desired, this can be mounted levelling scrapers with a width of 215mm

0





13th Care and Maintenance

- Off for maintenance and service work, the machine on level and stable ground and from rolling away.
- After cleaning, all hydraulic lines for leaks and loose connections check (About every 50 hours, the hydraulic power packs and hoses checked).
- Damage or wear study. Any defects rectified immediately.
- Check nuts and bolts regularly for tightness and tighten if necessary. (On new units every 3 hours and again after 20 hours.)
- The lubrication points on the joints and bearings greased regularly (approximately every 10 hours).
- Do not use high pressure washers for cleaning bearings and hydraulic parts used.
- During the winter, protect the equipment with environmentally friendly means against rust.
- Equipment off and protected from the weather so no unnecessary pressure on store example, the harrow.

14th Adjustment / operation

When coupling may reside there are no people between the tractor and machine.

Attach the machine:

- The machine, depending on the equipment at the three-point, or on the drawbar of the hitch ball attach tractor.
- Hydraulic lines connect
- Connect the plug for the lights and functioning
- Lift the machine.
- Remove the jack stand (if any)
- Fold sides (for transport) or fold out for the working position.

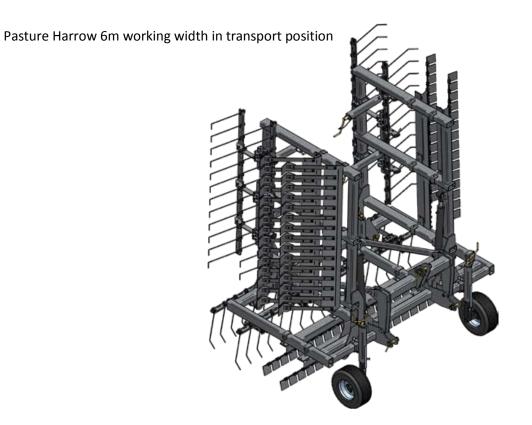




15th Views Pasture Harrow

Pasture Harrow 5m working width in transport position

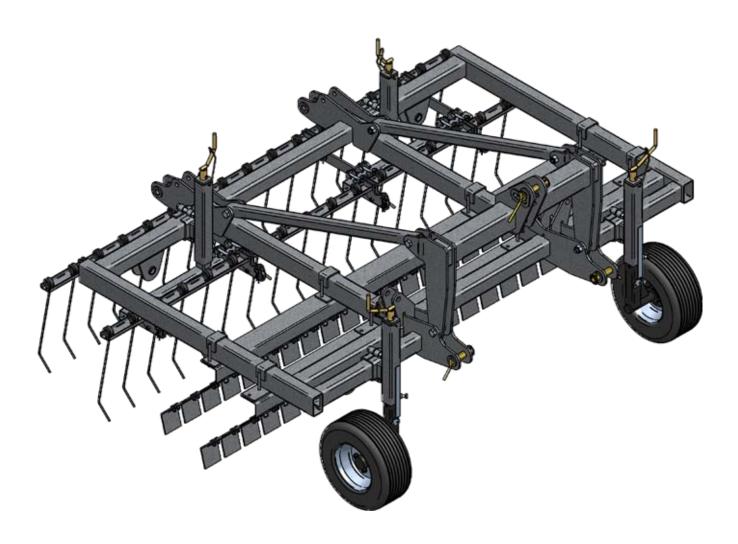








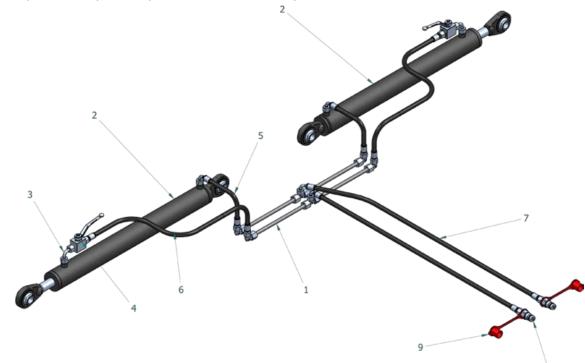
Pasture Harrow 2,50m working width







- Hydraulic connect only when the machine is hydraulic and unit pressure.
- Throttling for all hydraulic movements controller before stop of the machine parts.
- To set the device to flaps it must be connected to a double-acting control device.
- Fold through perform only excavated unit and on solid ground.
- When folding movement of the side panels always keep in mind Warning Danger of tipping!
- The side panels fold up until all parts have reached the stop with the shut-off valve the sides secure.



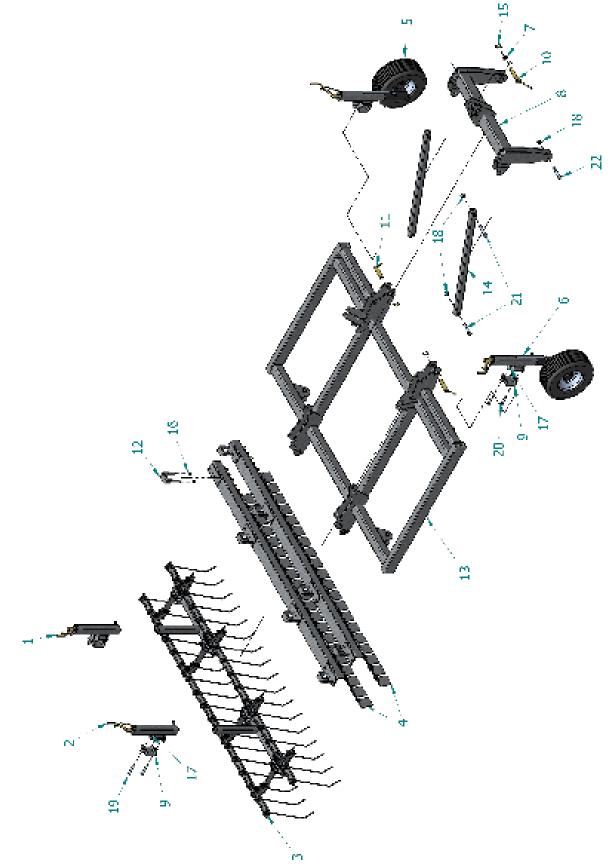
item code	item number	designation	quantity
1912110001	1	hydraulic line 12L f. pasture harrow	1
1912010008	2	Cylinder 60x30x600	2
1912030003	3	12L- Angle Gland	1
1912060001	4	stopcock 12L - 18x1,5	1
1912020014	5	Hydr. hose l=450mm	1
1912020013	6	Hydr. hose l= 950mm	1
1912020015	7	Hydr. hose l=1500mm	1
1912030001	8	12L Push Pull Connector	1
1912040001	9	Dust cap red	1





17th Spare Part List Pasture Harrow

Pasture Harrow 2,50m working width item code: SC3915







17th Spare Part List Pasture Harrow

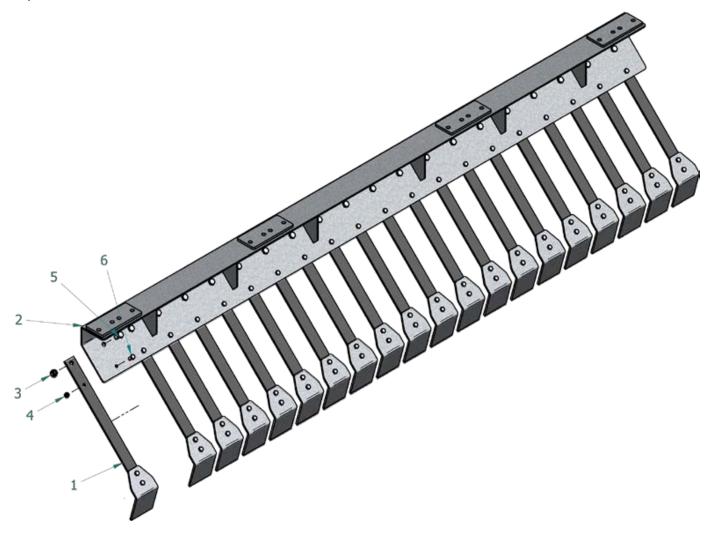
Pasture Harrow 2,50m working width item code: SC3915

Item code	Item number	Description	Quantity
0114020001	1	Holder for trailing harrow 2,50m	1
0114020001	2	Holder for trailing harrow 2,50m	1
0114010005	3	Trailing harrow for 2,50m	1
0114030001	4	grazing plate frame-95 f. 2,50m	2
0115010001	5	Support wheel left	1
0115010002	6	Support wheel right	1
1908020004	7	Disc A25 - 6mm	1
0101150002	8	3-Point	1
1913020007	9	Blind plate FR80	4
1903020004	10	bolt OL 25x122,5	1
1913030001	11	bolt UL 25x100	2
0101150001	12	terminal block FR60	8
0101150003	13	Frame for middle part 2,50m	1
1903010002	14	Brace for pasture harrow	2
1904010002	15	linch DIN 11023 10x45	3
1902010003	16	hexagonal nut DIN 982-M12	4
1902010008	17	hexagonal nut DIN 982-M16	8
1902010001	18	hexagonal nut DIN 982-M20	6
1901010046	19	hexagonal screw DIN 931-M16x100	4
1901010047	20	hexagonal screw DIN 931 M16x80	3
1901010048	21	hexagonal screw DIN 931 M20x100	4
1901010004	22	hexagonal screw DIN 931 M20x110	2





levelling Scrapers for 2.5m working width



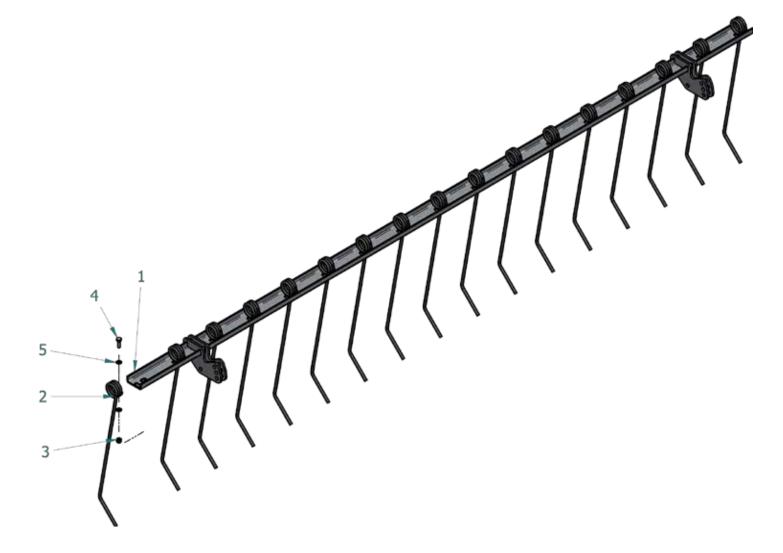
Item code	Item number	Description	Quantity
1909050001	1	Levelling scapers-95	20
0114030010	2	Levelling scrapers holder f. 2,50m middle part	1
1902010003	3	hexagonal nut M12	20
1902010002	4	hexagonal nut M8	20
1901010005	5	hexagonal screw M12x25	20
1901010049	6	hexagonal screw M8x20	20





Comb Harrow Holder for 2.5m working width

Complete Art. Nr.: 0114010008

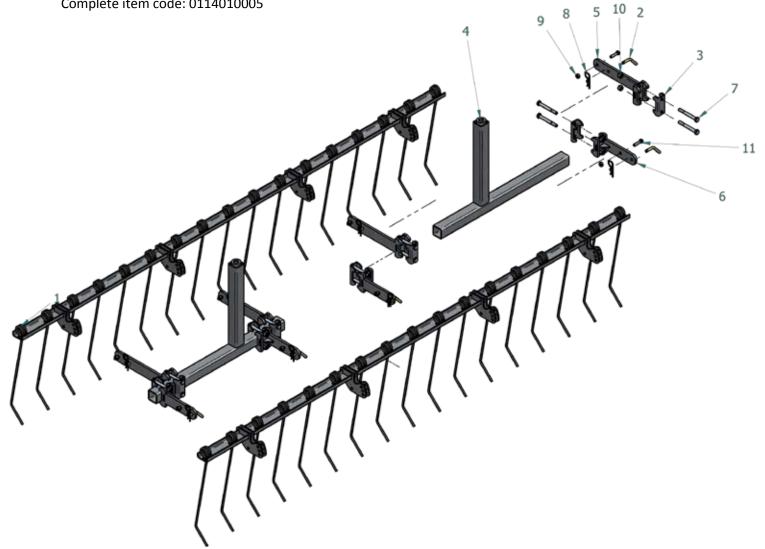


Item code	Item number	Description	Quantity
0114010015	1	tine carrier-150 f. 2,50m	1
1909030007	2	tine 7mm	17
1902010002	3	hexagonal nut M8	17
1901010032	4	hexagonal screw M8x25	17
1908010004	5	disc DIN125-A8,4	18





Comb Harrow for 2.5m working width

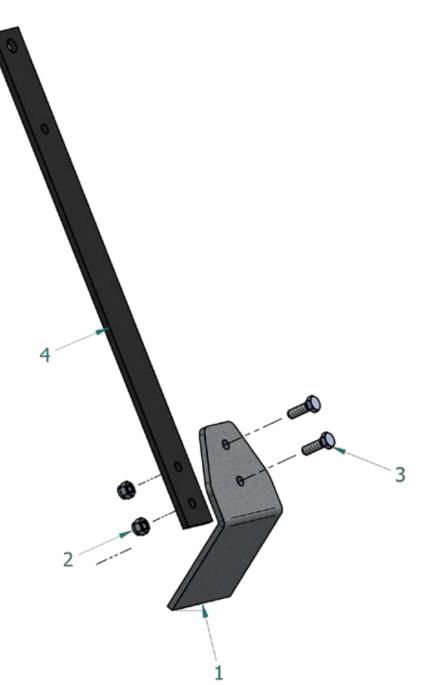


Item code	Item number	Description	Quantity
011401000	1	tine carrier -150 f. 2,50m	2
190303000	2	bolt AB 10x25	8
191301000	3	clamping plate FR50	8
011401001	4	Insertion part f. trailing harrow - long	2
011401001	5	holder f. tine carrier - long	4
011401001	6	holder f. tine carrier - short	4
190101001	7	hexagonal screw M12x100	16
190402000	8	Linch pin 4mm	8
190201000	9	hexagonal nut M10	8
190201000	10	hexagonal nut M12	16
190101003	11	hexagonal screw M10x40	8





levelling Scapers-95mm

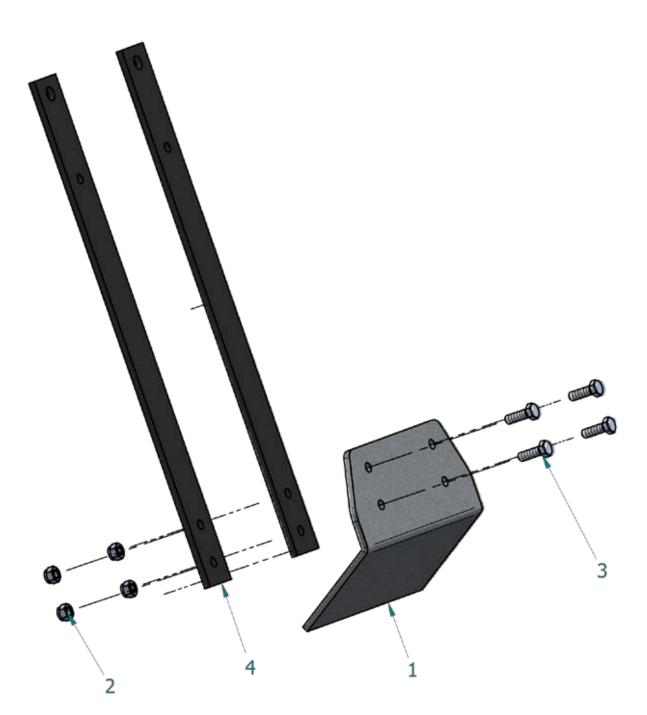


Item code	Item number	Description	Quantity
190905000	1	Levelling scapers-95	1
190201000	2	hexagonal nut M8	2
190101003	3	hexagonal screw M8x25	2
190905000	4	spring plate	1





levelling Scapers-215mm



Item code	Item number	Description	Quantity
190905000	1	Levelling scapers-215	1
190201000	2	hexagonal nut M8	4
190101003	3	hexagonal nut M8x25	4
190905000	4	spring plate	2





Support Wheel

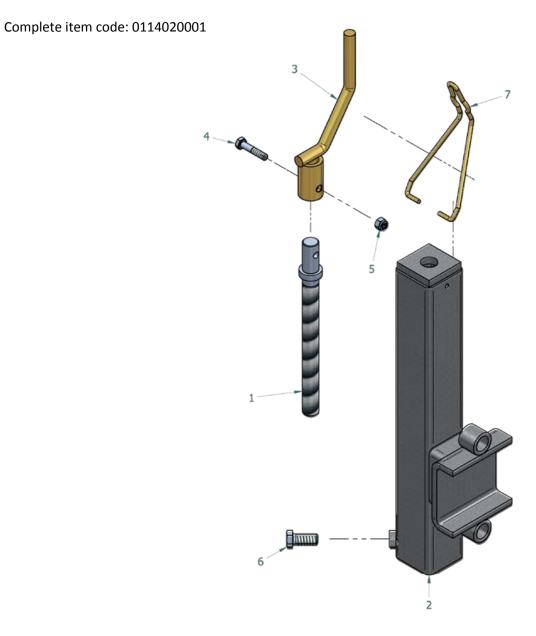


Item code	Item	Description	Quantity
0309020003	1	Spindle f. support wheel	1
1906080001	2	Scale for wheel lever	1
0115010003	3	holder for trailing harrow and support wheel	1
1914010006	4	Hub with rubber support for stem	1
0309020004	5	crank f. trailing harrow and support wheel	1
0309020008	6	crank fixation FR60	1
1901010003	7	hexagonal screw M8x40	1
1902010002	8	hexagonal nut M8	1
1914030001	9	wheel 16x6,5-8	1
1902030001	10	Wheel Nut M12	4
1901010035	11	hexagonal screw M12x30	1
1904050001	12	rivets A4x10	2





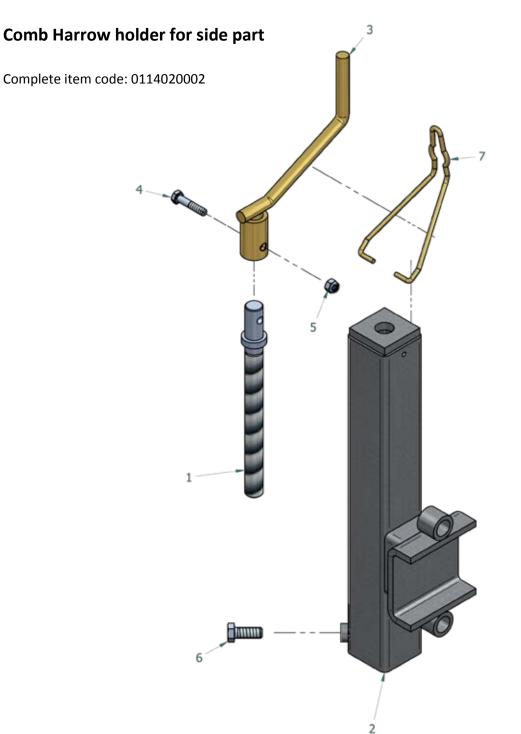
Comb Harrow holder for middle part



Item code	Item	Description	Quantity
030902000	1	spindle for support wheel	1
011501000	2	holder for trailing harrow and support wheel	1
011501000	3	crank for trailing harrow and support wheel	1
190101000	4	hexagonal screw M8x40	1
190201000	5	hexagonal nut M8	1
190101003	6	hexagonal screw M12x30	1
030902000	7	crank fixation FR60	1



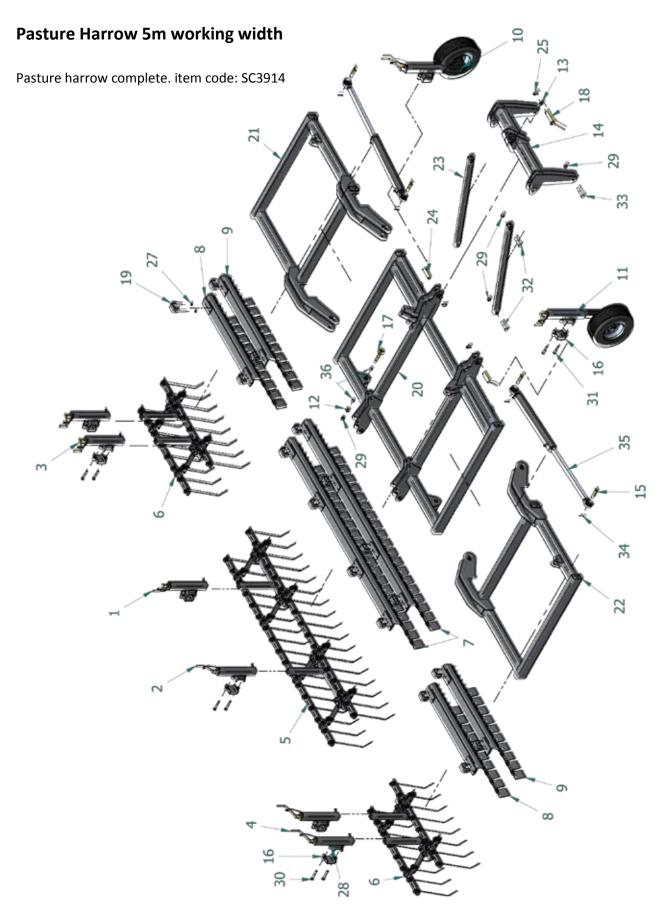




Item code	Item	Description	Quantity
030902000	1	spindle for support wheel	1
011501000	2	holder for trailing harrow and support wheel	1
030902000	3	crank for trailing harrow and support wheel	1
190101000	4	hexagonal screw M8x40	1
190201000	5	hexagonal nut M8	1
190101003	6	hexagonal screw M12x30	1
030902000	7	crank fixation FR60	1











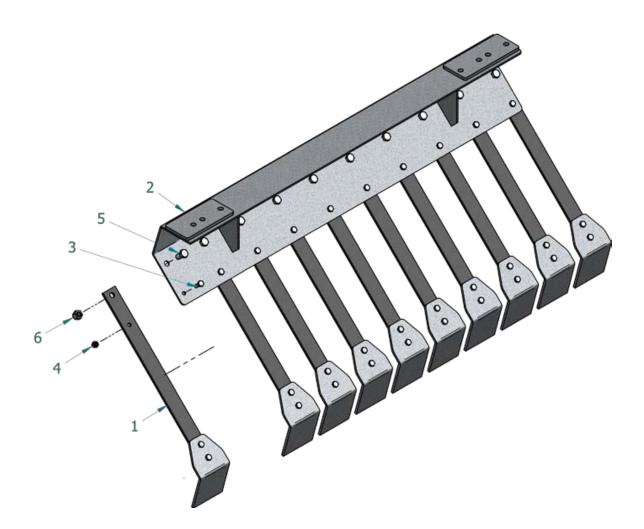
Pasture Harrow 5m working width

Item code	Item number	Description	Quantity
0114020001	1	holder for trailing harrow 2,50m complete	1
0114020001	2	holder for trailing harrow 2,50m complete	1
0114020002	3	holder for trailing harrow complete	2
0114020002	4	holder for trailing harrow complete	2
0114010005	5	trailing harrow-150 f. 2,50m complete	1
0114010005	6	trailing harrow-150 f. 5m complete	2
0114030001	7	Levelling plate field-95 f. 2,50m	2
0114030004	8	Levelling plate field-95 f. 5m complete left	2
0114030005	9	Levelling plate field-95 f. 5m complete right	2
0115010001	10	support wheel left	1
0115010002	11	support wheel right	1
1908020001	12	disc A20	4
1908020004	13	disc A25 - 6mm	1
0101150002	14	3-point hitch	1
1903030003	15	connecting pins 25x95	4
1913020007	16	Blind plate FR80	8
1903040005	17	bolt DGB 25x104	4
1903020004	18	bolt OL 25x122,2	1
1913030001	19	terminal block FR60	16
0101150001	20	frame for middle part	1
0103280001	21	frame for side field 5m left	1
0102280001	22	frame for side field 5m right	1
0101150003	23	Brace f. pasture harrow	2
1903010002	24	Lower link bolt	2
1904010002	25	linch 10x45	3
1906060001	26*	grease nipple M8	2
1902010003	27	hexagonal nut M12	6
1902010008	28	hexagonal nut M16	16
1902010001	29	hexagonal nut M20	10
1901010046	30	hexagonal screw M16x100	12
1901010047	31	hexagonal screw M16x80	3
1901010048	32	hexagonal screw M20x100	4
1901010004	33	hexagonal screw M20x110	2
1904010004	34	linch ISO 1234 - 6,3x40	4





levelling plate field for 5m working width

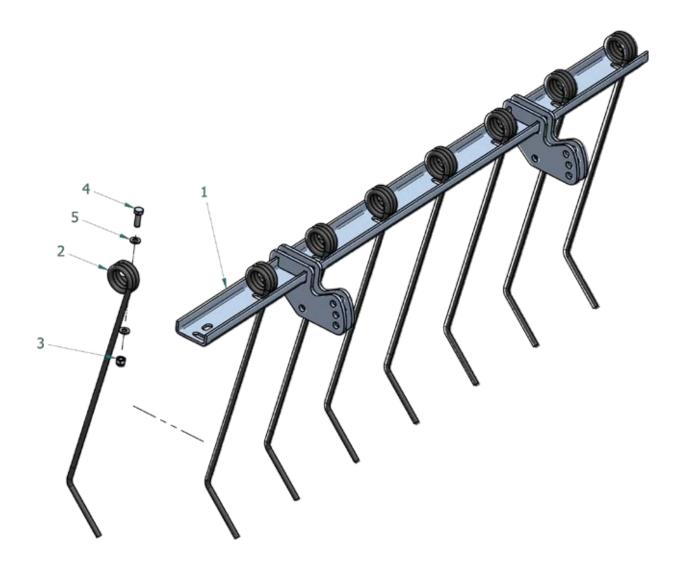


Item code	Item number	Description	Quantity
1909050001	1	levelling scrapers 95 complete	10
0114030006	2	holder for levelling scrapers f. 5m left	1
1901010049	3	hexagonal screw M8x20	10
1902010002	4	hexagonal nut M8	1
1901010005	5	hexagonal screw M12x25	10
1902010003	6	hexagonal nut M12	1





Tine carrier for Comb Harrow for 5m working width

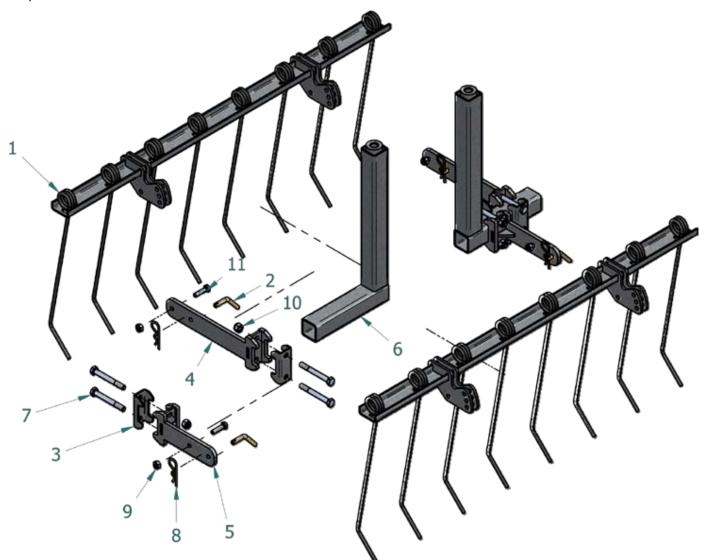


Item code	Item	Description	Quantity
011401001	1	tine carrier-150 f. 5m	1
190903000	2	tine 7mm	8
190201000	3	hexagonal nut M8	1
190101003	4	hexagonal screw M8x25	8
190801000	5	disc DIN 125-A8,4	9





Comb Harrow for 5m working width

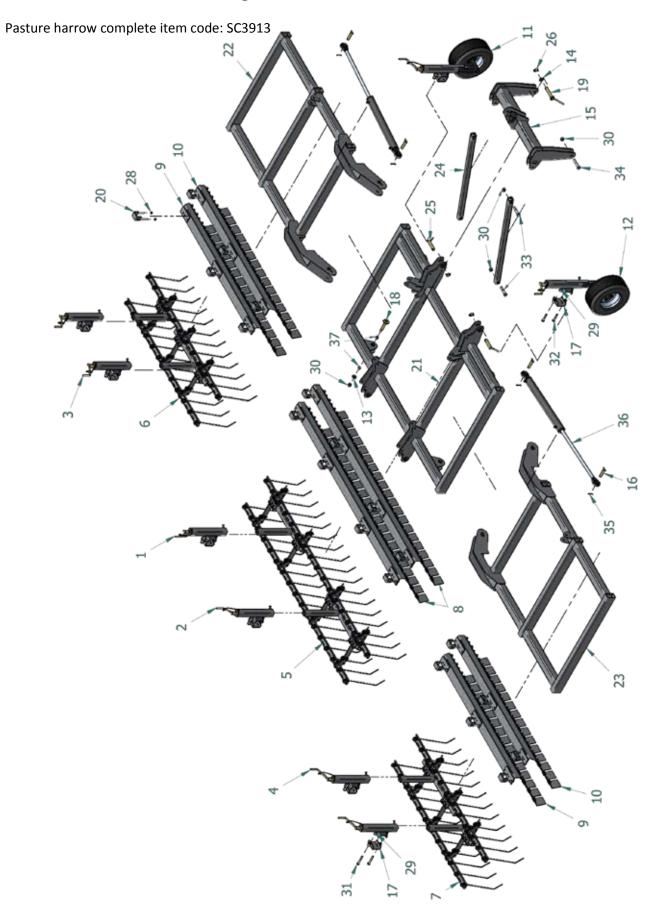


Item code	Item	Description	Quantity
011401000	1	tine carrier-150 complete f. 5m	2
190303000	2	bolt AB 10x25	4
191301000	3	clamping plate FR50	4
011401001	4	holder for tine carrier - long	2
011401001	5	holder for tine carrier - short	2
011401000	6	insertion part f. trailing harrow short	2
190101001	7	hexagonal screw M12x100	8
190402000	8	Linch pin Ø=4mm	4
190201000	9	hexagonal nut M10	4
190201000	10	hexagonal nut M12	5
190101003	11	hexagonal screw M10x40	4





Pasture Harrow for 6m working width



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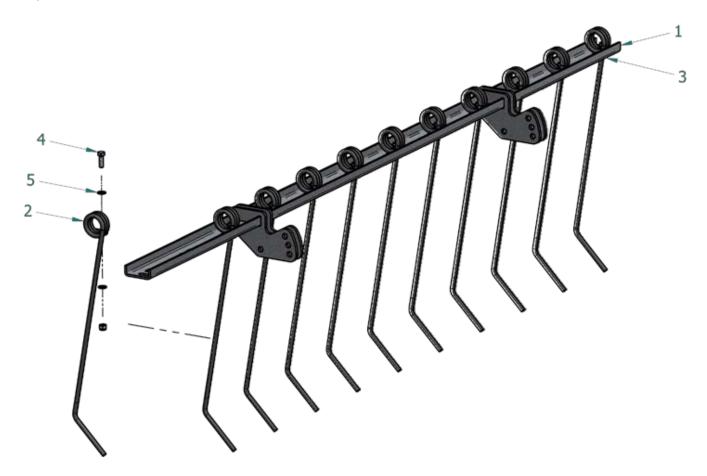
Pasture Harrow for 6m working width

Item code	Item number	Description	Quantity
0114020001	1	holder for trailing harrow 2,50m complete	1
0114020001	2	holder for trailing harrow 2,50m complete	1
0114020002	3	holder for trailing harrow complete	2
0114020002	4	holder for trailing harrow complete	2
0114010005	5	trailing harrow-150 f. 2,50m	1
0114010002	6	trailing harrow-150 f. 2,50m left	1
0114010001	7	trailing harrow-150 f. 2,50m right	1
0114030001	8	levelling plate field-95 f. 2,50m	2
0114030002	9	levelling plate field-95 f. 6m links	2
0114030003	10	levelling plate field-95 f. 6m right	2
0115010001	11	support wheel left	1
0115010002	12	support wheel right	1
1908020001	13	disc A20	4
1908020004	14	disc A25-6mm	1
0101150002	15	3-point hitch	1
1903030003	16	connecting pins	4
1913020007	17	Blind plate FR80	8
1903040005	18	bolt DGB 25x104	4
1903020004	19	bolt OL 25x122,5	1
1913030001	20	terminal block FR60	20
0101150001	21	frame for middle part 2,50m	1
0103290001	22	frame for side part 6m left	1
0102290001	23	frame for side part 6m right	1
0101150003	24	strut for pasture harrow	2
1903010002	25	Lower link bolt	2
1904010002	26	linch 10x45	3
1906060001	27	greasing	2
1902010003	28	hexagonal nut M12	6
1902010008	29	hexagonal nut M16	16
1902010001	30	hexagonal nut M20	10
1901010046	31	hexagonal screw M16x100	11
1901010047	32	hexagonal screw M16x80	3
1901010048	33	hexagonal screw M20x100	4
1901010004	34	hexagonal screw M20x110	2
1904010004	35	cotter ISO 1234-6,3x40	4
1912010008	36	cylinder 60x30x600	2
1906010004	37	cylindrical socket	3





Tine carrier for comb harrow 6m working width

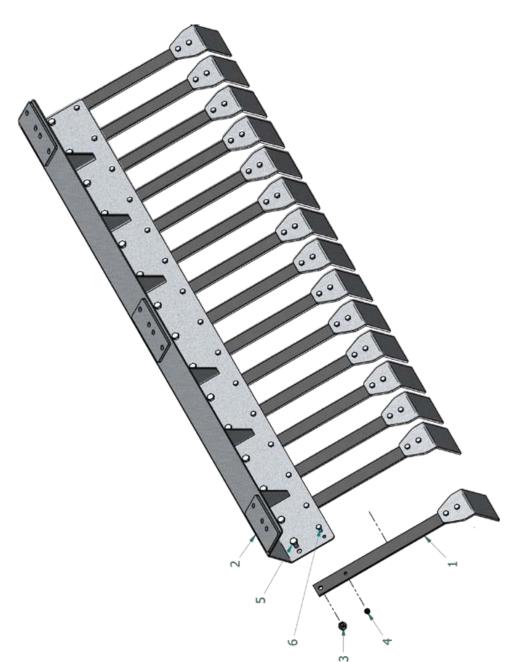


Item code	Item	Description	Quantity
011401001	1	tine carrier-150 f. 6m	1
190903000	2	tine 7mm	12
190201000	3	hexagonal nut M8	11
190101003	4	hexagonal screw M8x25	12
190801000	5	disc DIN 125-A8,4	13





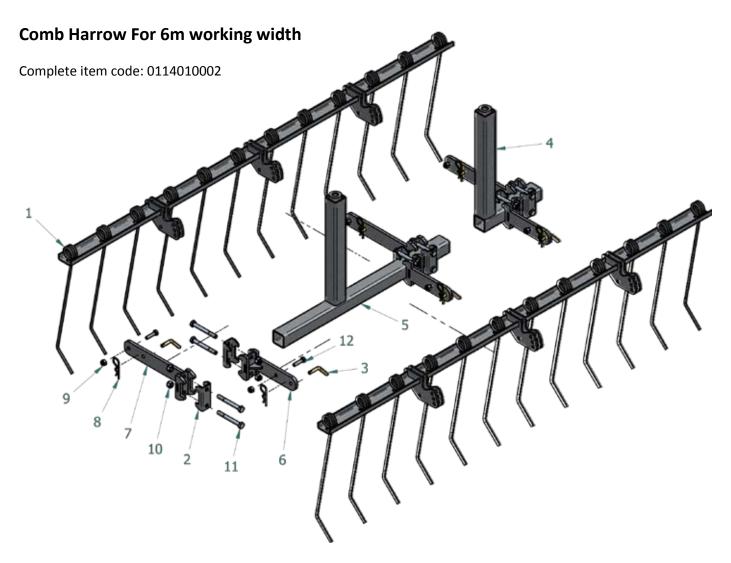
levelling scrapers for 6m pasture harrow - left side



Item code	Item number	Description	Quantity
1909050001	1	levelling scaper-95 complete.	15
0114030008	2	holder for levelling scraper f. 6m left	1
1902010003	3	hexagonal nut M12	15
1902010002	4	hexagonal nut M8	15
1901010005	5	hexagonal screw M12x25	15
1901010049	6	hexagonal screw M8x20	15







Item code	Item	Description	Quantity
011401000	1	tine carrier-150 f. 6m	2
191301000	2	clamping plate FR50	6
190303000	3	bolt AB 10x25	6
011401000	4	insertion part f. trailing harrow short	1
011401001	5	insertion part f. trailing harrow long	1
011401001	6	holder for tine carrier - short	3
011401001	7	holder for tine carrier - long	3
190402000	8	Linch pin Ø=4mm	6
190201000	9	hexagonal nut M10	6
190201000	10	hexagonal nut M12	8
190101001	11	hexagonal screw M12x100	10
190101003	12	hexagonal screw M10x40	6