ENG

UNIA

AGRICULTURAL MACHINERY CATALOGUE

Dear All!

The year 2023 has seen numerous changes of the entire agricultural industry and of the Unia brand itself, which for 141 years has been contributing to the history of Polish agriculture.

Today, we are proudly presenting to you a catalogue created to accommodate the needs of farmers. It is a comprehensive source of information on farming machinery developed and manufactured under the brand of Unia. In the catalogue, we have featured machines and technologies that have been designed to meet the highest standards to suit requirements of soils.

Developed by Polish engineers and manufactured in Polish factories, the machines of Unia exemplify quality that guarantees not only durability, but also efficiency in operation. For years, we have listened to voices of the farmers and offer a wide range of modifications to each of our machines to meet the individual farm needs. We want to provide effective solutions for years to come.

A team of qualified representatives is also at your disposal every day to provide expert advice and help you choose a machine that would best match your needs and conditions.

I truly believe that your experience in farming and the knowledge of Unia team about farming machinery will prove instrumental in your achievement of the best possible financial results.

On behalf of the entire team of Unia, I strongly encourage you to browse the catalogue carefully and use our services.

Thank you for your time and I hope you enjoy the reading!

Yours sincerely,

Michał Lange
Chairman of the Board (CEO), UNIA

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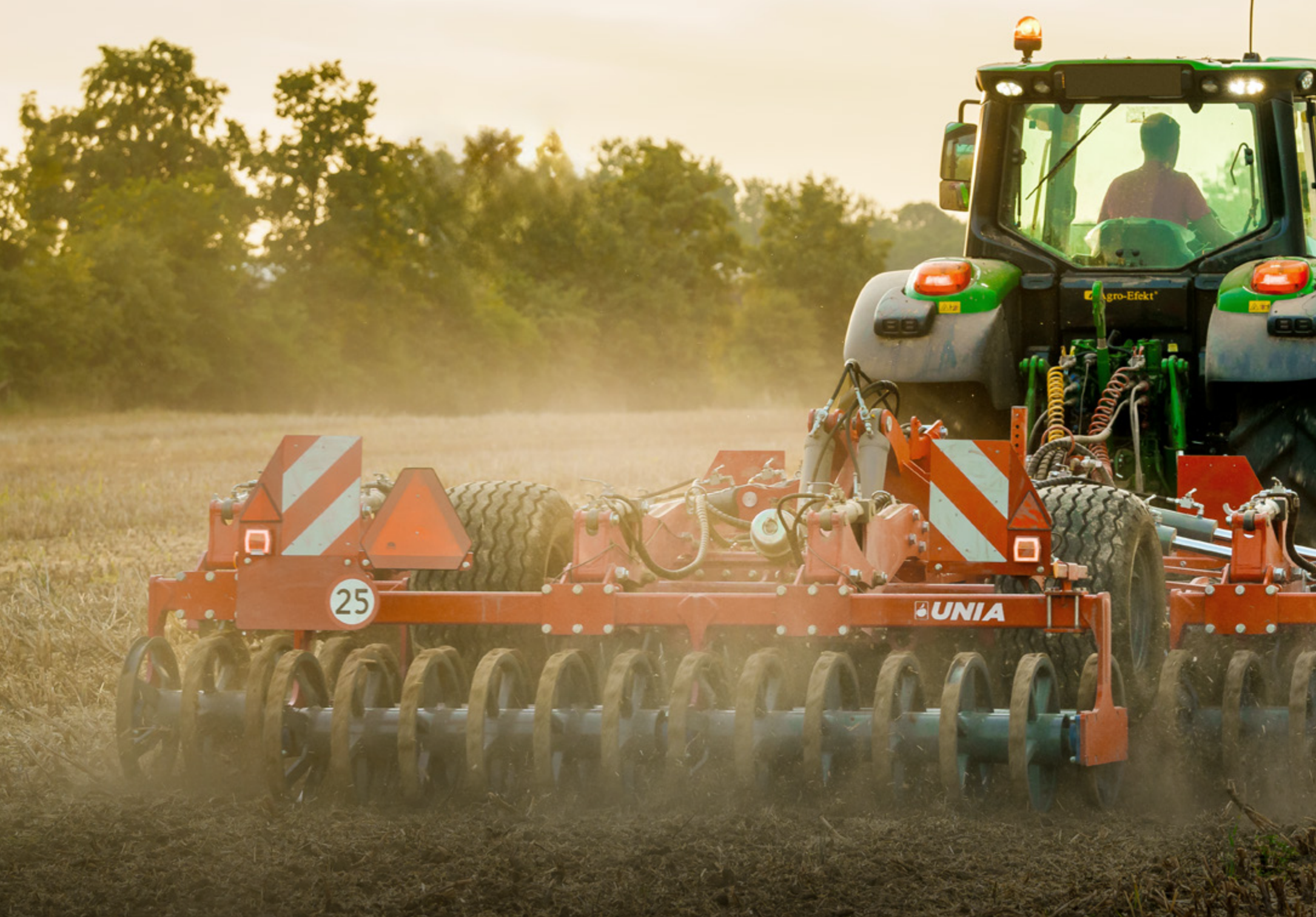
Issue: November 2023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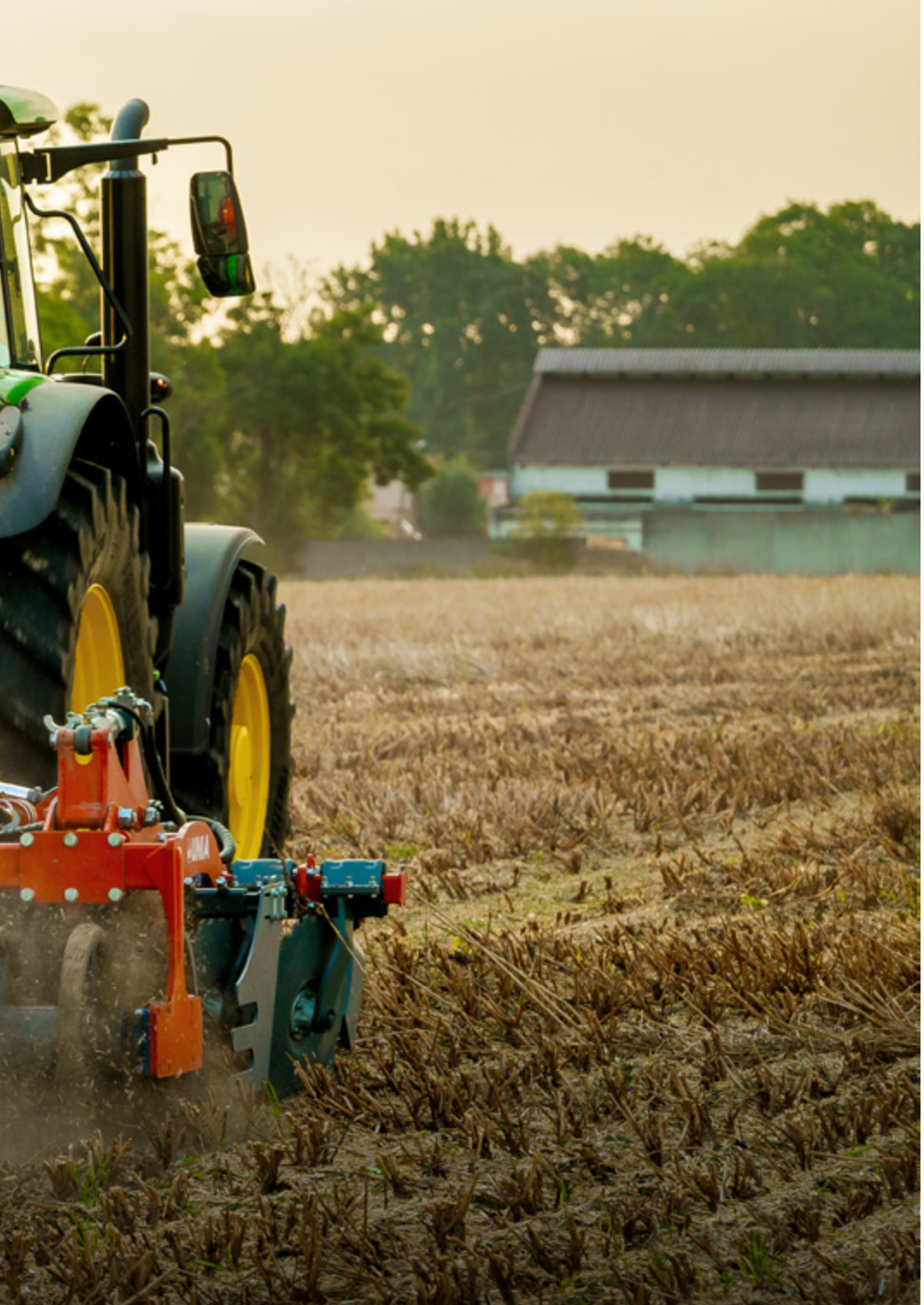
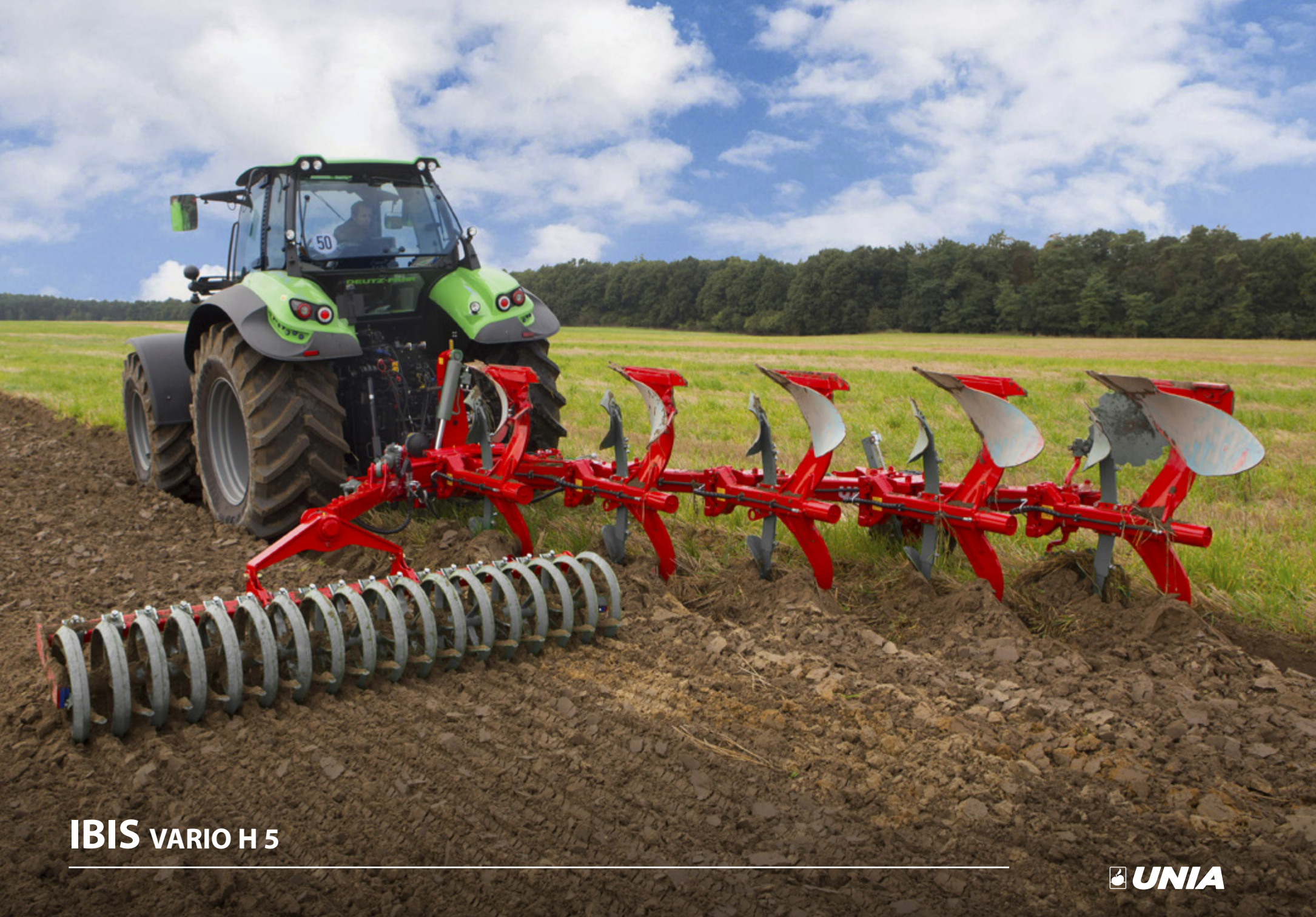
UNIA



SOIL CULTIVATION

Uniform mixing of soil layers is crucial for crop yield and quality. Our ploughs, cultivators, harrows, and subsoilers make it possible to effectively process the soil, improving its structure and preparing it optimally for sowing. Thanks to the use of boron steel in the working elements, we gain not only better quality, but also greater durability.



IBIS VARIO H 5

UNIA

IBIS VARIO

REVERSIBLE PLOUGHS, MOUNTED

ADVANTAGES OF IBIS VARIO:

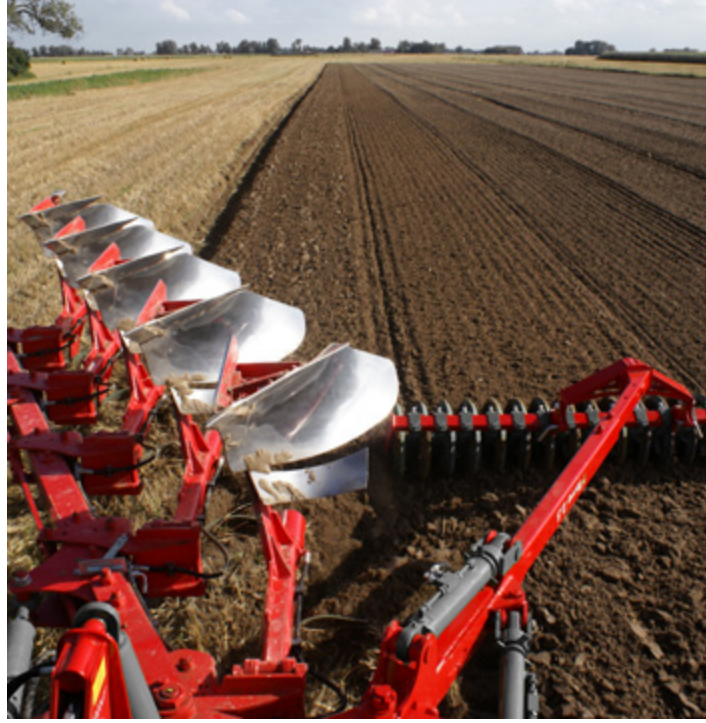
» **Good ratio of weight to pulling requirements**
Thanks to the beam matching the number of bodies.

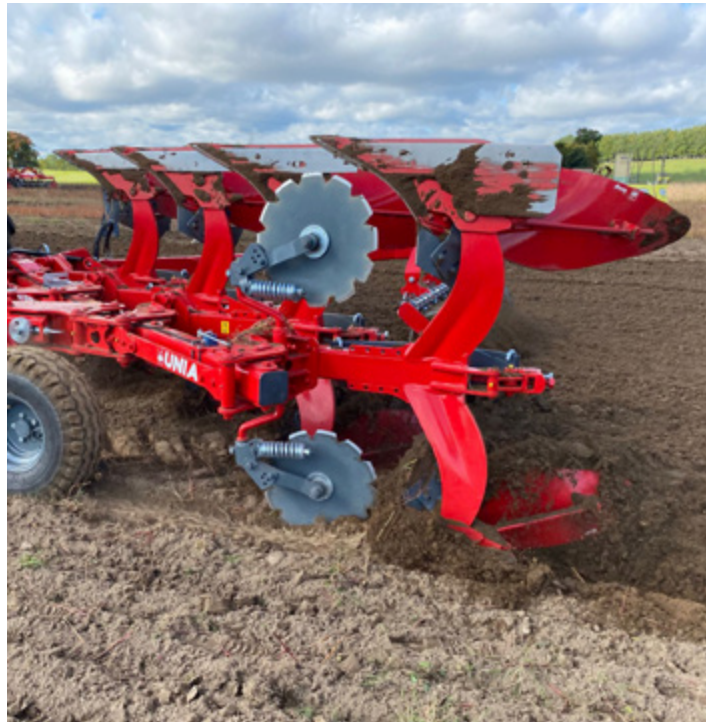
» **Hydraulic width adjustment**
Increase productivity by 43% without leaving the tractor cab.

» **Robust connection**
Beam connected by a forged rail to the turntable axle.

» **Working elements made of boron steel**
UNIA's plough shares, chisels, mouldboard, skids, and firmers are made of boron-enriched steel, providing high wear resistance.

» **Choice between three types of body protection**
Spring protection, breakaway bolts, or hydraulic.





TECHNICAL SPECIFICATIONS

IBIS VARIO	4	5	PLUS 4	PLUS 5
Weight [kg]	1,490	1,790	1,590	1,970
Power requirement [hp]	120–150	140–180	130–160	150–200

IBIS VARIO S	4	5	PLUS 4	PLUS 5
Weight [kg]	1,700	2,000	1,790	2,180
Power requirement [hp]	130–160	150–200	140–170	160–210

IBIS VARIO H	4	5	PLUS 4	PLUS 5
Weight [kg]	1,680	1,980	1,770	2,160
Power requirement [hp]	130–160	150–200	140–170	160–210

IBIS L

REVERSIBLE PLOUGHS, MOUNTED

ADVANTAGES OF IBIS L:

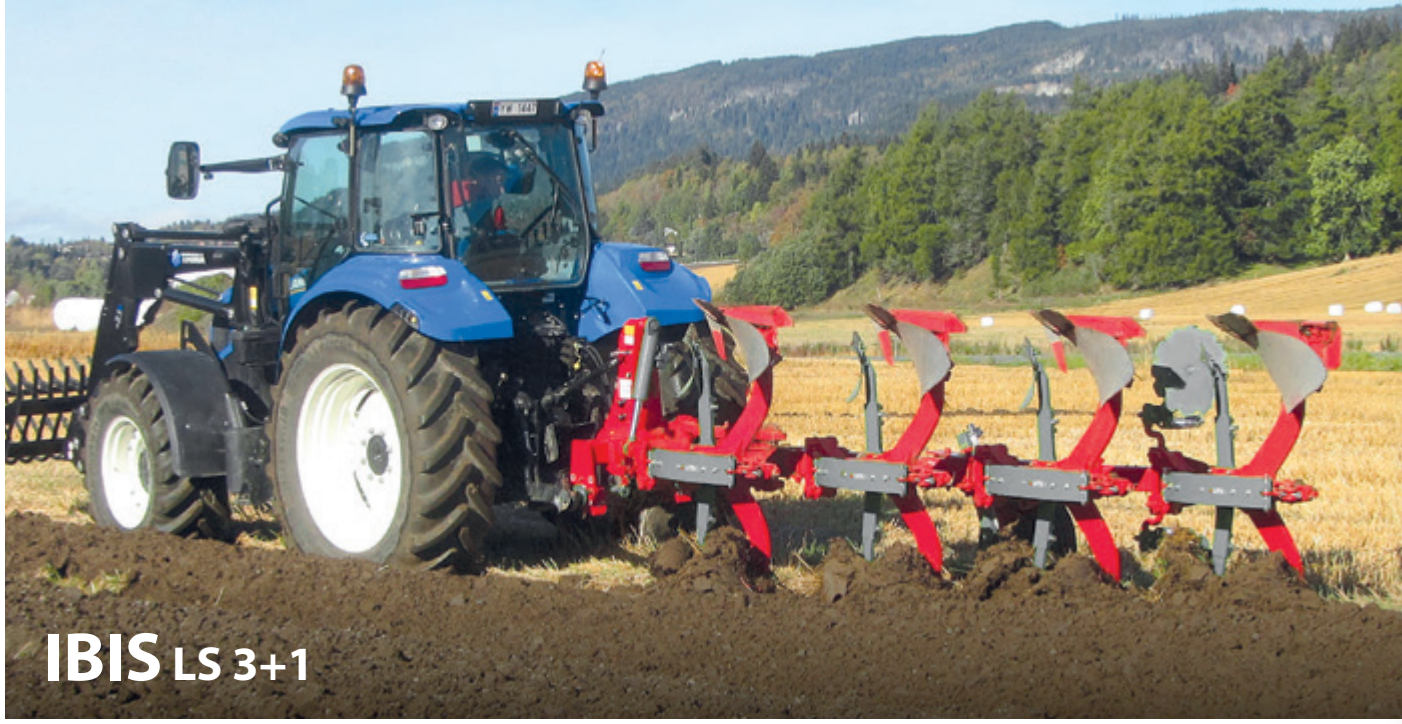
» **Lightweight construction suitable for tractors with low lifting capacity**
The centre of gravity has been moved closer to the tractor through the use of a pantograph system.

» **Efficient operation even with large amounts of post-harvest residues**
Increased spacing between the bodies in the PLUS model (up to 100 cm).

» **Choice between two types of body protection**
Spring protection that ensures effective tilting and return to the set depth – suitable for rocky conditions, and breakaway bolts with a breakaway force of up to 1750 kg.

» **Smooth rotation for many years**
Thanks to the fully bearing-mounted turntable axis, any backlash that occurs can be easily reduced by tightening the axle nut.

» **Low drag during work**
Thanks to the specially shaped LONG mouldboard.



TECHNICAL SPECIFICATIONS

IBIS L PLUS	3+	3+1	4+	4+1
Weight [kg]	1,080	1,250	1,270	1,530
Power requirement [hp]	90–100	100–110	120–140	120–160

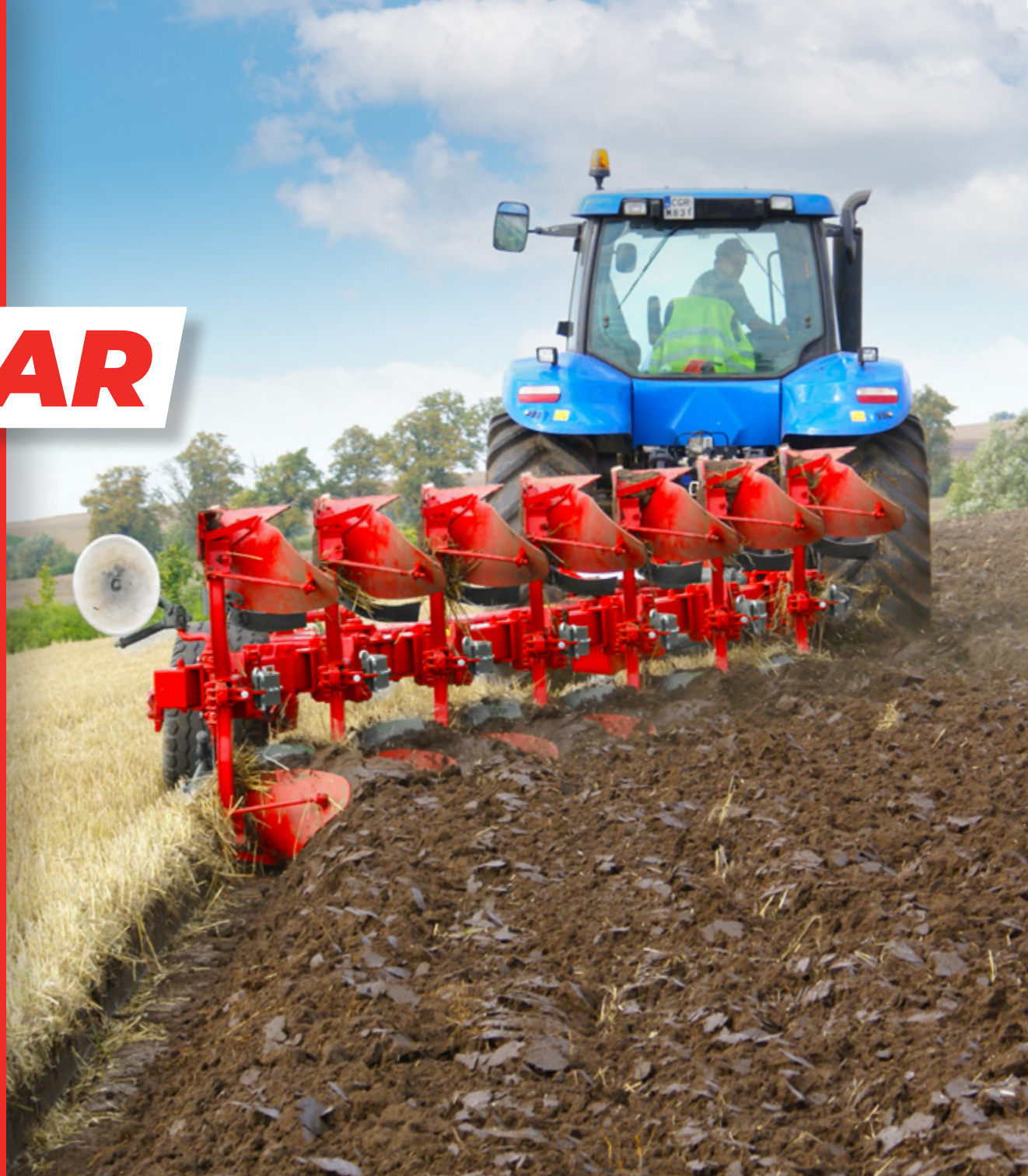
IBIS LS	3+	3+1	4+	4+1
Weight [kg]	1,120	1,350	1,440	1,650
Power requirement [hp]	80–90	90–110	90–130	100–150

IBIS LS PLUS	3+	3+1	4+	4+1
Weight [kg]	1,190	1,420	1,600	1,800
Power requirement [hp]	100–110	110–120	120–150	120–160

5 YEAR

FACTORY WARRANTY

As a leading manufacturer with one of the longest track records of plough production worldwide, UNIA offers a 5-year warranty on IBIS ploughs, TERIS rollers, and the main frames for other machines.



IBIS XM

REVERSIBLE PLOUGHS, MOUNTED

ADVANTAGES OF IBIS XM:

» **Robust connection between beam and turntable axle**
The use of cast steel rail is a solution for heavy-duty work.

» **Robust frame**
Reinforced at the points carrying the heaviest loads.

» **Working elements made of boron steel**
UNIA's plough shares, chisels, mouldboard, skids, and firmers are made of boron-enriched steel, providing high wear resistance.

» **Smooth rotation for many years**
Thanks to the fully bearing-mounted turntable axis, the arising slack can be easily removed by tightening the axle nut.

» **Efficient operation even with large amounts of post-harvest residues**
Increased spacing between the bodies in the PLUS model..

» **Low resistance during work**
The pulling requirement under optimal conditions is only 20 HP per body.

TECHNICAL SPECIFICATIONS

IBIS XM	4+	4+1	PLUS 4+	PLUS 4+1
Weight [kg]	1,340	1,510	1,400	1,580
Power requirement [hp]	110–140	100–120	120–150	130–160

IBIS XM S	4+	4+1	PLUS 4+	PLUS 4+1
Weight [kg]	1,480	1,700	1,560	1,790
Power requirement [hp]	120–150	140–160	120–170	140–180

IBIS XXL

REVERSIBLE PLOUGHS, MOUNTED

ADVANTAGES OF IBIS XXL:

» **A solution for the heaviest soils and high-powered tractors**
Beam connected by a forged rail to the turntable axle. Additionally reinforced at the points carrying the highest loads during ploughing.

» **Working elements made of boron steel**
UNIA's plough shares, chisels, mouldboard, skids, and firmers are made of boron-enriched steel, providing high wear resistance.

» **Choice between three types of body protection**
Spring protection, breakaway bolts or hydraulic.

» **Four plough bodies available**
Universal LONG for ploughing, BIG LONG for deep ploughing of post-harvest residues, slatted mouldboard LONG for ploughing sticky and heavy soils and ZX for deep ploughing.

TECHNICAL SPECIFICATIONS

IBIS XXL	3+	3+1	4+	4+1
Weight [kg]	1,180	1,370	1,390	1,560
Power requirement [hp]	90–110	120–150	120–150	140–180

IBIS XXL S	3+	3+1	4+	4+1
Weight [kg]	1,400	1,590	1,600	1,760
Power requirement [hp]	110–130	130–160	130–160	150–200

IBIS XXL H	3+	3+1	4+	4+1
Weight [kg]	1,390	1,570	1,590	1,750
Power requirement [hp]	110–130	130–160	130–160	150–200

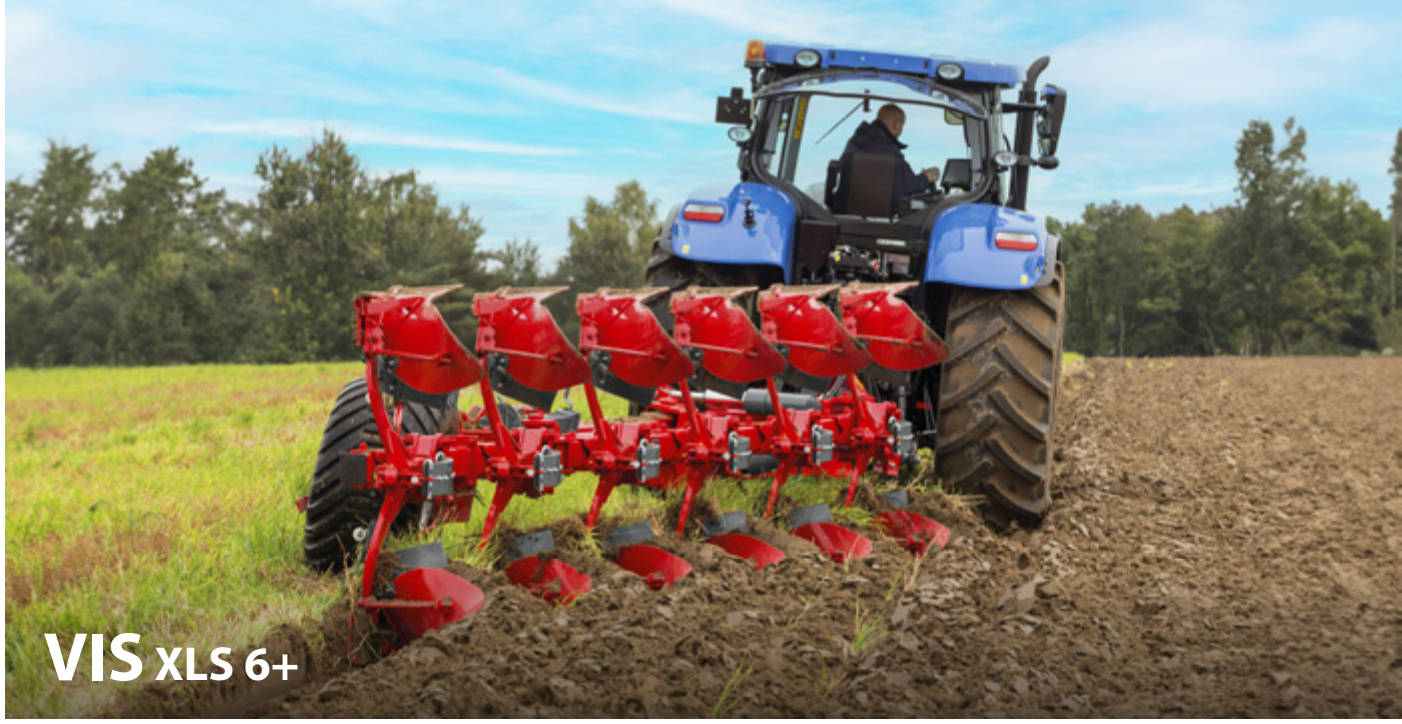
IBIS XXL PLUS	3+	3+1	4+	4+1
Weight [kg]	1,290	1,430	1,450	1,640
Power requirement [hp]	100–120	110–140	130–160	150–190

IBIS XXL S PLUS	3+	3+1	4+	4+1
Weight [kg]	1,520	1,690	1,700	1,880
Power requirement [hp]	120–140	140–170	140–170	160–170

IBIS XXL H PLUS	3+	3+1	4+	4+1
Weight [kg]	1,510	1,680	1,690	1,870
Power requirement [hp]	120–140	140–170	140–170	160–220

VIS XL

REVERSIBLE PLOUGHS, SEMI-MOUNTED



ADVANTAGES OF VIS XL:

» **Design for the toughest conditions**
Beam made of robust steel (180×180×8 mm).

» **Easy manoeuvring on tight headlands**
The headstock is connected to the plough frame by a solid cross member.

» **Smooth plough rotation**
Two telescopic Weber Hydraulik cylinders are responsible for the rotation.

» **Working elements made of boron steel**
UNIA's plough shares, chisels, mouldboard, skids, and firmers are made of boron-enriched steel, providing high wear resistance.

» **Stability and low rolling resistance**
The large 550/45-22.5 support and transport wheel and use of shock absorption to smooth out uneven terrain„ thus extending the plough's service life.

» **Two types of body protection**
Spring protection or breakaway bolts.

» **Three plough bodies available**
Universal LONG, BIG LONG for deep ploughing of crop residues, and slatted mouldboard LONG for ploughing sticky and heavy soils.

TECHNICAL SPECIFICATIONS

VIS XL	6+1	7+	7+1	8+
Weight [kg]	3,510	3,630	3,890	3,600
Power requirement [hp]	190–260	210–290	250–310	250–310

VIS L XL S	6+1	7+	7+1	8+
Weight [kg]	3,930	4,050	4,370	4,140
Power requirement [hp]	200–280	220–280	250–350	210–290

VIS ON LAND

REVERSIBLE PLOUGHS, SEMI-MOUNTED

ADVANTAGES OF VIS ON LAND:

» **System of ploughing undisturbed soil**
It allows operation with a tractor equipped with tracks or twin wheels.

» **Increased strength class (Re – 500 and 700 MPa kN/mm²)**
The plough bodies are mounted on a 160×160×10 mm frame.

» **Easy manoeuvring on tight headlands**
The hitching system is connected to the plough frame by a solid cross member.

» **Workpieces made of boron steel**
UNIA's plough shares, chisels, mouldboard, skids, and firmers are made of boron-enriched steel, providing high wear resistance.

» **Smooth plough rotation**
Two telescopic Weber Hydraulik cylinders are responsible for the rotation.

» **Stability and low rolling resistance**
The large 550/45-22.5 support and transport wheel and use of shock absorption to smooth out uneven terrain, thus extending the plough's service life.

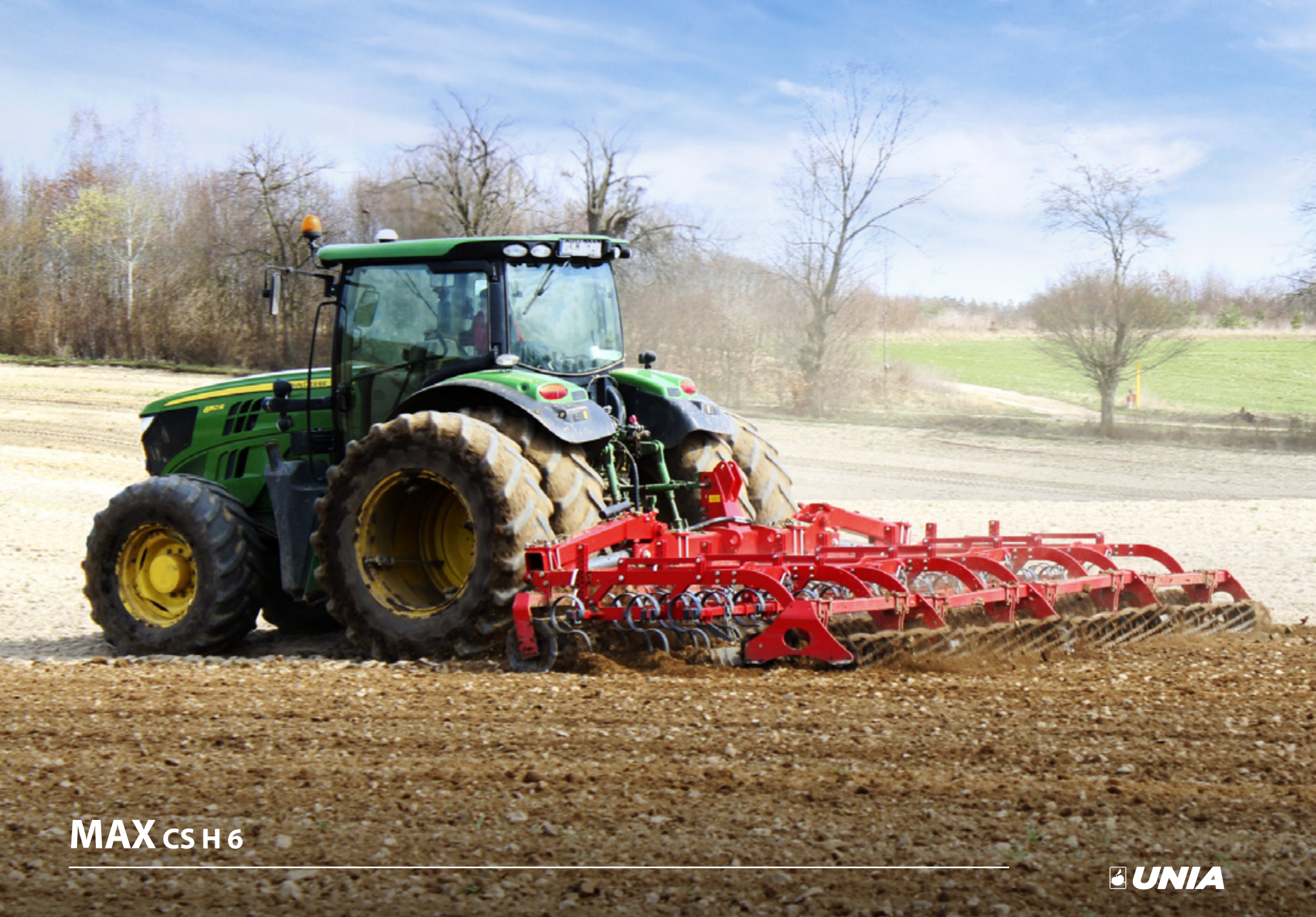
» **Two types of body protection**
Spring protection or breakaway bolts.

» **Three plough bodies available**
Universal LONG, BIG LONG for deep ploughing of crop residues, and slatted mouldboard LONG for ploughing sticky and heavy soils.

TECHNICAL SPECIFICATIONS

VIS ON LAND	5+	5+1	6+	6+1	7+	7+1
Weight [kg]	2,980	3,230	3,260	3,510	3,630	3,890
Power requirement [hp]	140–170	160–190	170–230	190–260	210–290	250–310

VIS ON LAND S	5+	5+1	6+	6+1	7+	7+1
Weight [kg]	2,980	3,230	3,260	3,510	3,630	3,890
Power requirement [hp]	140–170	160–190	170–230	190–260	210–290	250–310



MAX CS H 6

UNIA

MAX

CULTIVATION AND PRESEEDING UNITS

ADVANTAGES OF MAX:

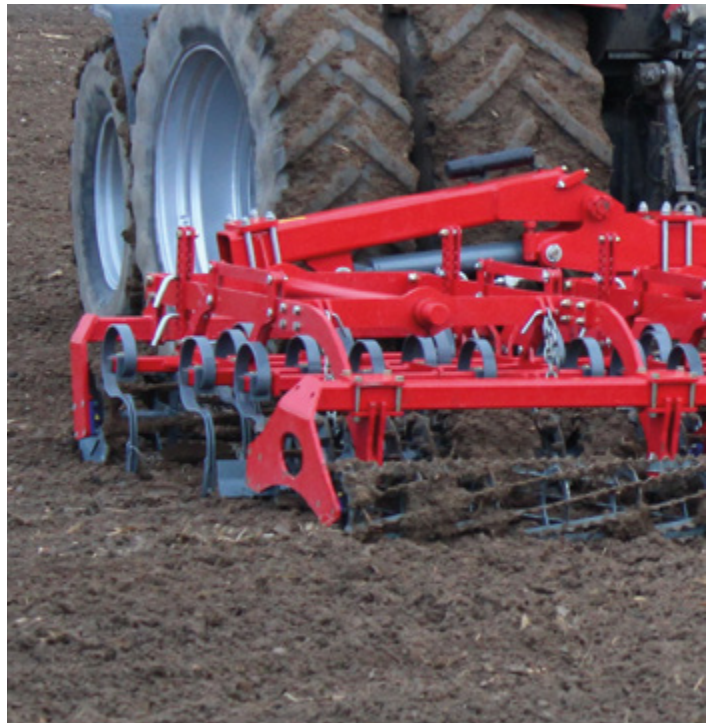
» **Precise soil preparation for sowing maize, beet, or potatoes**
Compact design for demanding customers.

» **Sections centrally suspended on a robust frame**
This ensures accurate ground following and uniform cultivation.

» **Mounted and semi-mounted**
The 4.5-, 6-, and 9-metre models have the option of adding a chassis.

» **Three different coulters made of boron steel available:**
- 4-row section of SV tines,
- 3-row section of SE tines,
- 2-row section of SX tines.

» **Low rolling resistance of the front roller**
The large-diameter ø400 mm string roller maintains working depth and efficiently crushes large soil clods.



TECHNICAL SPECIFICATIONS

MAX	3	H 4	H 4.5	H 6	H 7.5	H 9
Weight with double string roller [kg]	1,305	2,040	2,205	2,880	4,000	4,550
Weight with crosskill/string roller [kg]	1,510	2,290	2,510	3,280	4,500	5,150
Weight with double croskill roller [kg]	1,555	2,325	2,585	3,380	4,620	5,300
Power requirement [hp]	90–110	120–160	140–180	170–220	190–260	230–300
Number of SV tines [pcs]	32	36	48	64	80	96
Number of SX/SZ tines [pcs]	12	18	20	24	30	36
Number of SE tines [pcs]	20	24	30	40	50	60

ARES XM 5

UNIA

ARES XM

DISC CULTIVATOR, SEMI-MOUNTED

ADVANTAGES OF ARES XM:

» **Stable operation of the cultivator at 15 km/h**
Rollers set up in an offset system are characterised by the correct weight distribution and spacing of the cultivating rollers.

» **Arched shape of the reinforced frame**
The arched frame, reinforced at the points carrying the heaviest loads, ensures adequate flow of crop residues and soil.

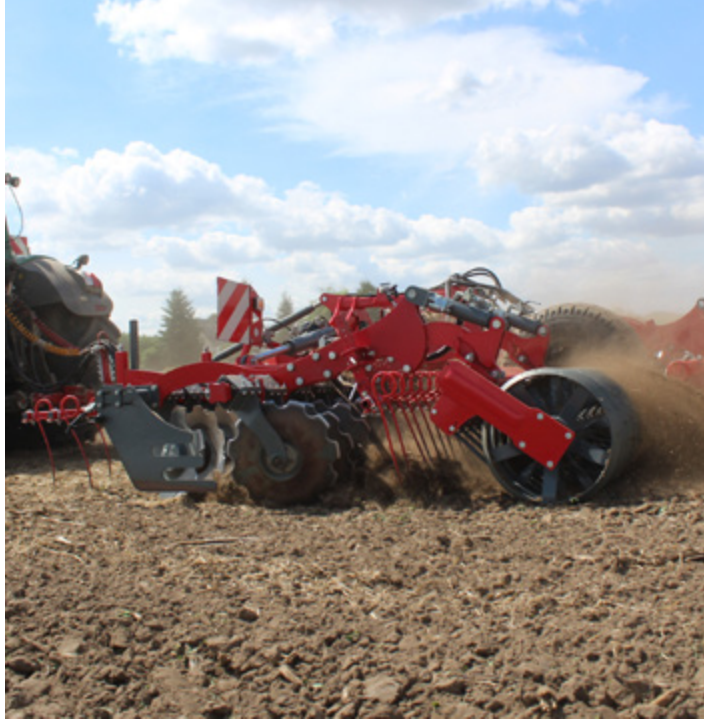
» **Robust plough-beam**
Made of HARDOX® steel and adapted to the shape of the disc.

» **Maintenance-free bearings**
The coulters rotate on double-row, maintenance-free, replaceable hubs with increased load capacity.

» **Wear-resistant coulters made of boron steel**
The unique process of hardening the discs in the preserved shape guarantees a long service life in harsh conditions.

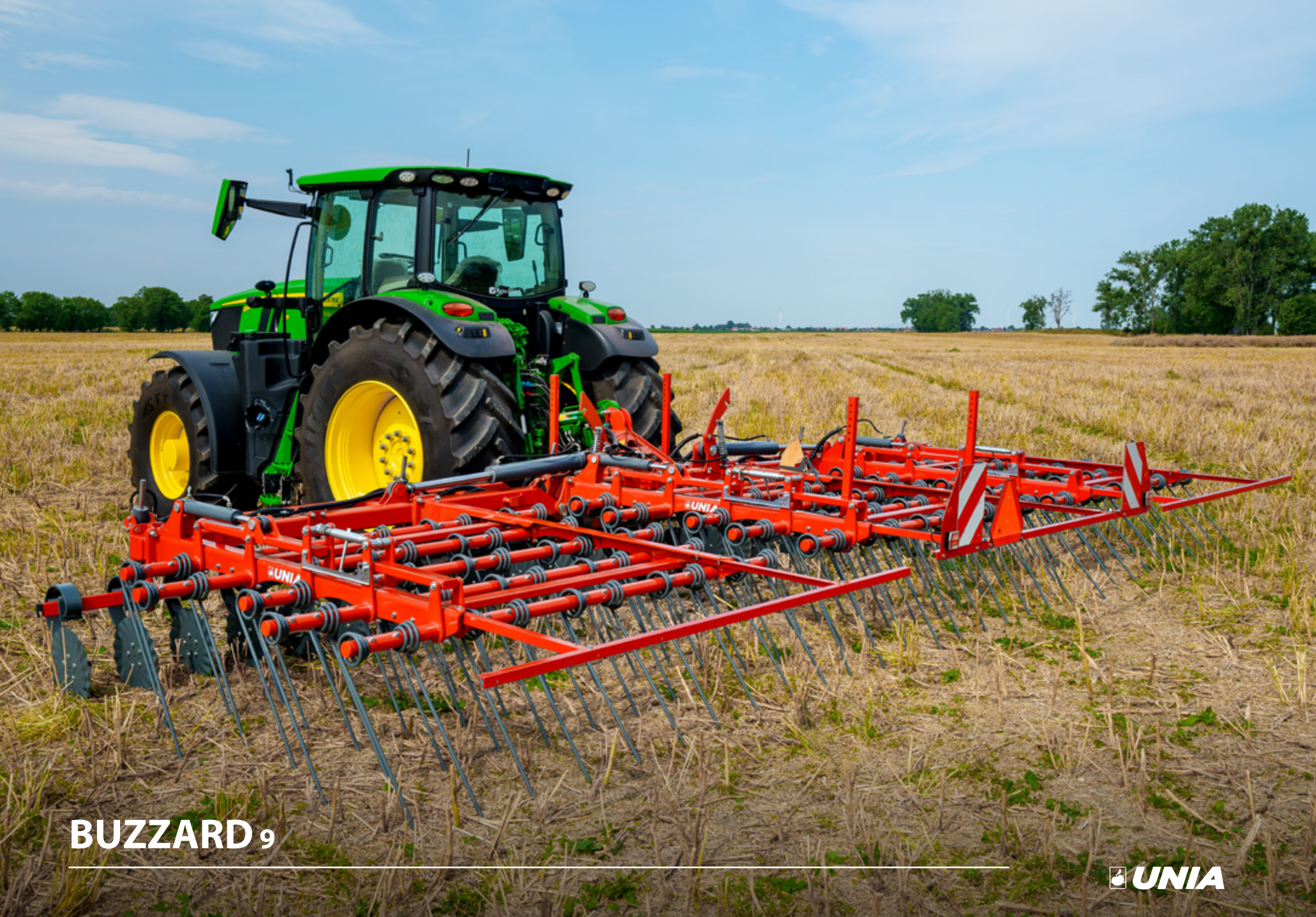
» **Flat surfaces between passes**
The adjustment of the edge coulters and the deep indentation make it possible to level out the tracks between passes.

» **Three different front-mounted tools available**
Hydraulically controlled levelling harrow, spring-loaded tines for spreading straw, ø400 mm blade roller.



TECHNICAL SPECIFICATIONS

ARES XM	5	6
Weight with ø 600-millimetre pipe roller [kg]	4,700	5,100
Power demand [HP]	160–190	170–210
Number of discs [pcs]	40	48
Spacing between disc rows [cm]	80	80



BUZZARD 9

UNIA

BUZZARD

MULCH HARROW

ADVANTAGES OF BUZZARD:

» **Efficient cultivation**
Effective and efficient in dealing with volunteers. Work without interfering with the cultivation layer to a depth of up to 30 mm.

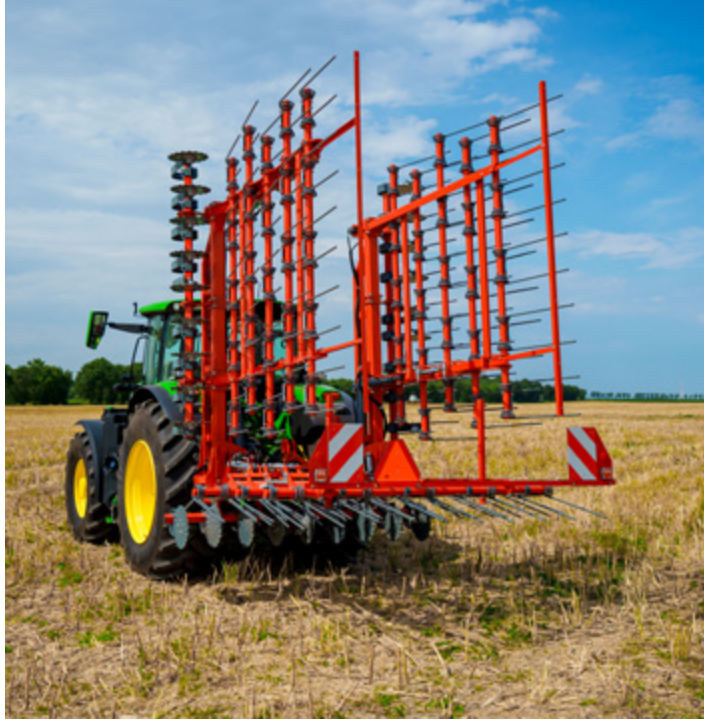
» **Robust frame construction**
The front part of the frame is based on two profiles, providing high strength to withstand the forces exerted at higher speeds. The tine profile brackets are made of RAEX 500 steel.

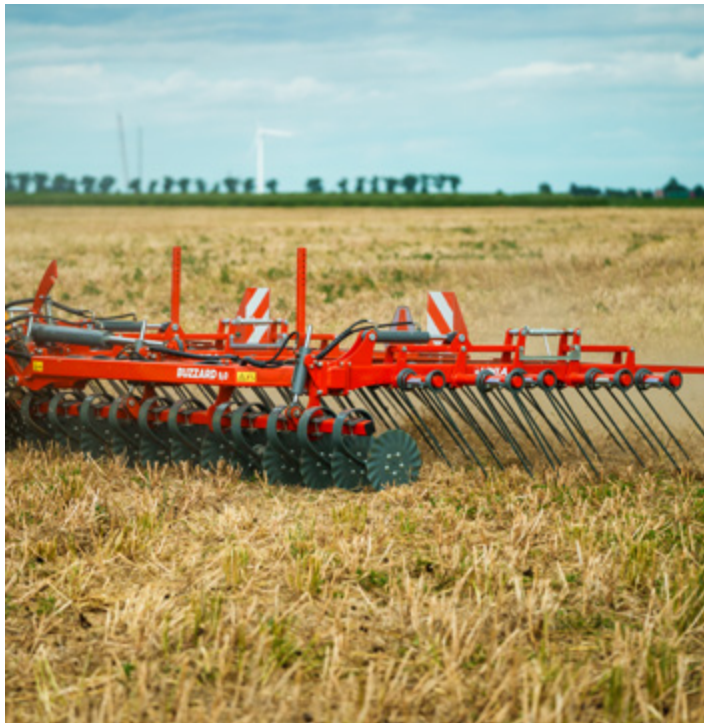
» **Design folding into three parts for easy transport**
The machine is folded by two cylinders into three parts, making it lower for transport.

» **Easy adaptation to crop residues**
With the aid of a hydraulically adjustable working angle, the five rows of tines, of which the two rear rows can be swung independently.

» **ø400 mm shaft with boron steel blades**
Resistant to mechanical damage. They rotate on solid service hubs and are protected by triangular rubber shock absorbers.

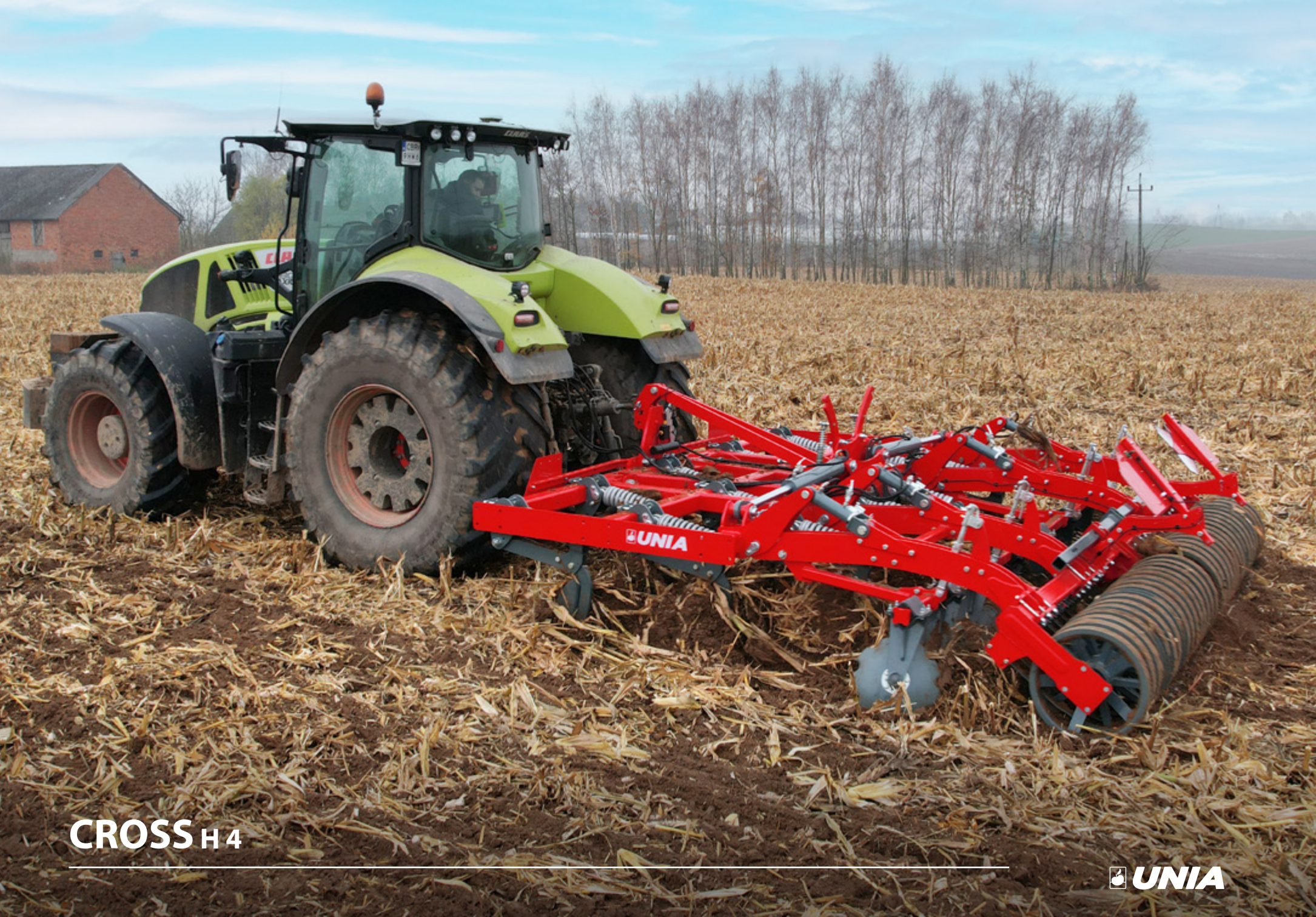
» **Efficient aftercrop sowing BUZZARD 7.5**
It can be equipped with an FP aftercrop seed drill.





TECHNICAL SPECIFICATIONS

BUZZARD	7.5	9
Weight in standard version [kg]	1,760	2,000
Weight with cutting roller [kg]	2,760	3,130
Weight with cutting disc [kg]	2,510	2,730
Weight with harrow [kg]	2,340	2,550
Power requirement [hp]	130–170	170–220
Number of springs/tines [pcs]	60/120	75/150



CROSS H 4

UNIA

CROSS S/H

CULTIVATORS FOR SIMPLIFIED TILLAGE

ADVANTAGES OF CROSS:

» **Efficient work at 30 cm depth**
Thanks to the high-positioned frame and the three rows of CX tines, equipped with twisted mouldboard, the soil is thoroughly loosened and mixed with crop residues.

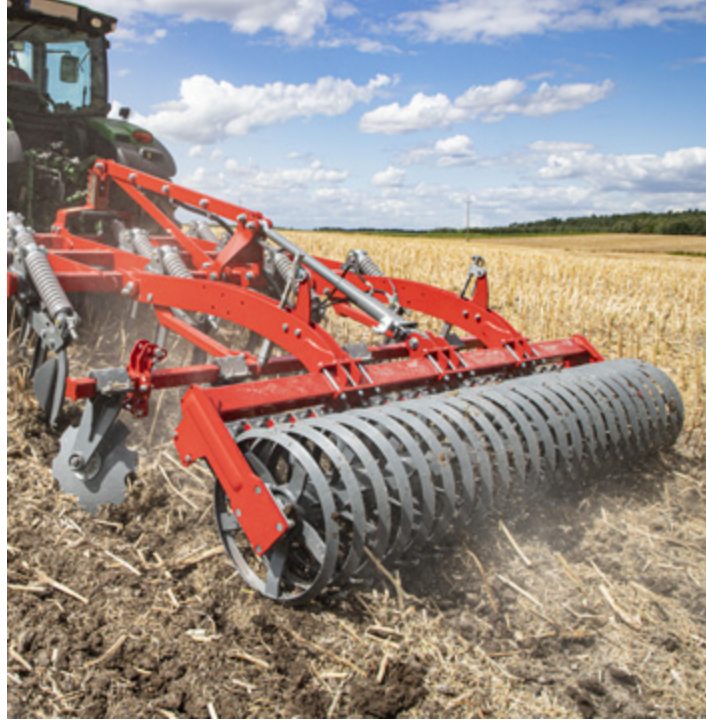
» **Easy digging in and working under all conditions**
The high weight of the machine makes it easy to dig into extremely heavy and dry soil.

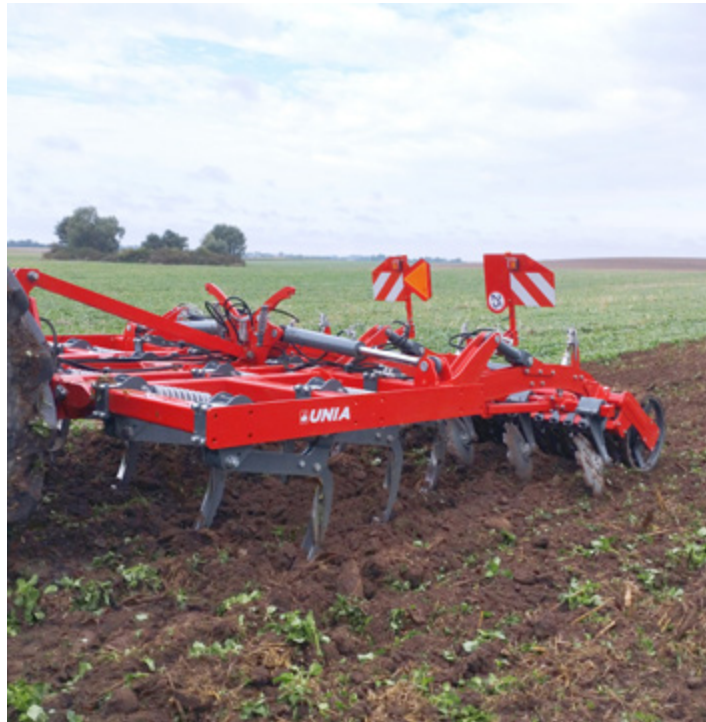
» **550 kilograms of tine trigger force**
The robust spring protection allows work on heavy and rocky soils.

» **Optional DURUM chisels with 8-fold increased strength**
Reinforced with tungsten carbide inserts, they ensure that the working depth is maintained uniform throughout the service life.

» **Can be used for stubble field cultivation**
The aggregate with side undercutters fully undercuts the field surface.

» **Working elements made of boron steel**
Chisels, mouldboards, undercutters, discs and harrows made by UNIA are made of boron-enriched steel, providing high wear resistance.





TECHNICAL SPECIFICATIONS

CROSS S	3	3.5	4	Drive 3	Drive 3.5	Drive 4	H 4	H 4.5	H 5
Weight with ø 600-millimetre pipe roller [kg]	2,260	2,460	2,620	2,760	3,080	3,240	3,550 kg	3,850 kg	4,300
Power requirement [hp]	150–180	160–190	170–200	140–170	150–180	170–200	>250 HP	>300 HP	>400 HP
Number of tines [pcs]	10	12	13	10	12	13	13	15	17
Tine spacing in the machine [mm]	300	290	300	300	290	300	305	305	305
Underbeam clearance [cm]	85	85	85	85	85	85	80.5	80.5	80.5
Beam spacing [cm]	75	75	75	75	75	75	80	80	80
Machine length [cm]	397	397	397	430	430	430	427	427	427

CROSS HP

UNIA

CROSS HP

CULTIVATORS FOR SIMPLIFIED TILLAGE

ADVANTAGES OF CROSS HP:

» **Effective working depth of up to 30 cm**
The CX tine design allows soil loosening and agitating up to 30 centimetres.

» **Proper flow of cultivated mass**
The high ground clearance and the arrangement of the working elements on the four beams ensures proper flow of the cultivated soil.

» **550 kilograms of tine trigger force**
The robust spring protection allows work on heavy and rocky soils.

» **The design of the cultivator is based on 120×120 mm profiles**
The robust design allows the machine to be operated in extreme conditions with maximum working depths.

» **Traction Improvement System**
A cylinder on the drawbar allows the rear axle of the attached tractor to be weighted down during operation.

» **Chassis with 500/45-22.5 wheels**
The wide tyres ensure safe transport and the wheels do not damage the soil structure when manoeuvring in the field.

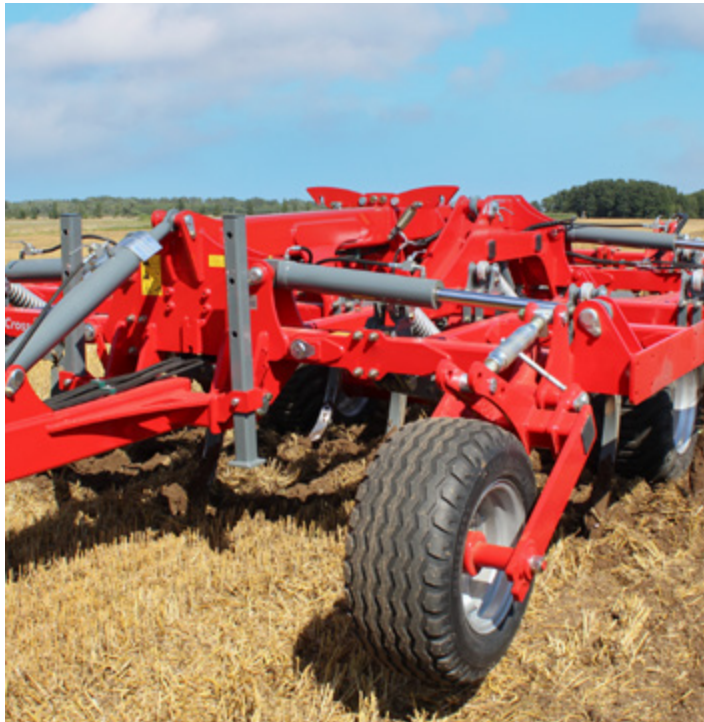
» **Support wheels**
The machine is equipped with front support wheels with mechanical adjustment of the working depth.

» **Hydraulic adjustment of working depth**
The depth is adjustable by means of clips and allows the desired working depth to be set precisely. This comes as a standard.

» **Optional DURUM chisels with 8-fold increased strength**
Reinforced with tungsten carbide inserts, they ensure that the working depth is maintained uniform throughout the service life.

TECHNICAL SPECIFICATIONS

CROSS HP	4	5	6
Weight with ø 600-millimetre pipe roller [kg]	6,300	6,950	7,270
Power requirement [hp]	180–240	240–280	280–320
Number of tines [pcs]	13	17	19
Tine spacing in the machine [mm]	300	290	305
Underbeam clearance [cm]	85	85	85
Beam spacing [cm]	75	75	75
Machine length [cm]	760	760	760



ATLAS II/II P/HP

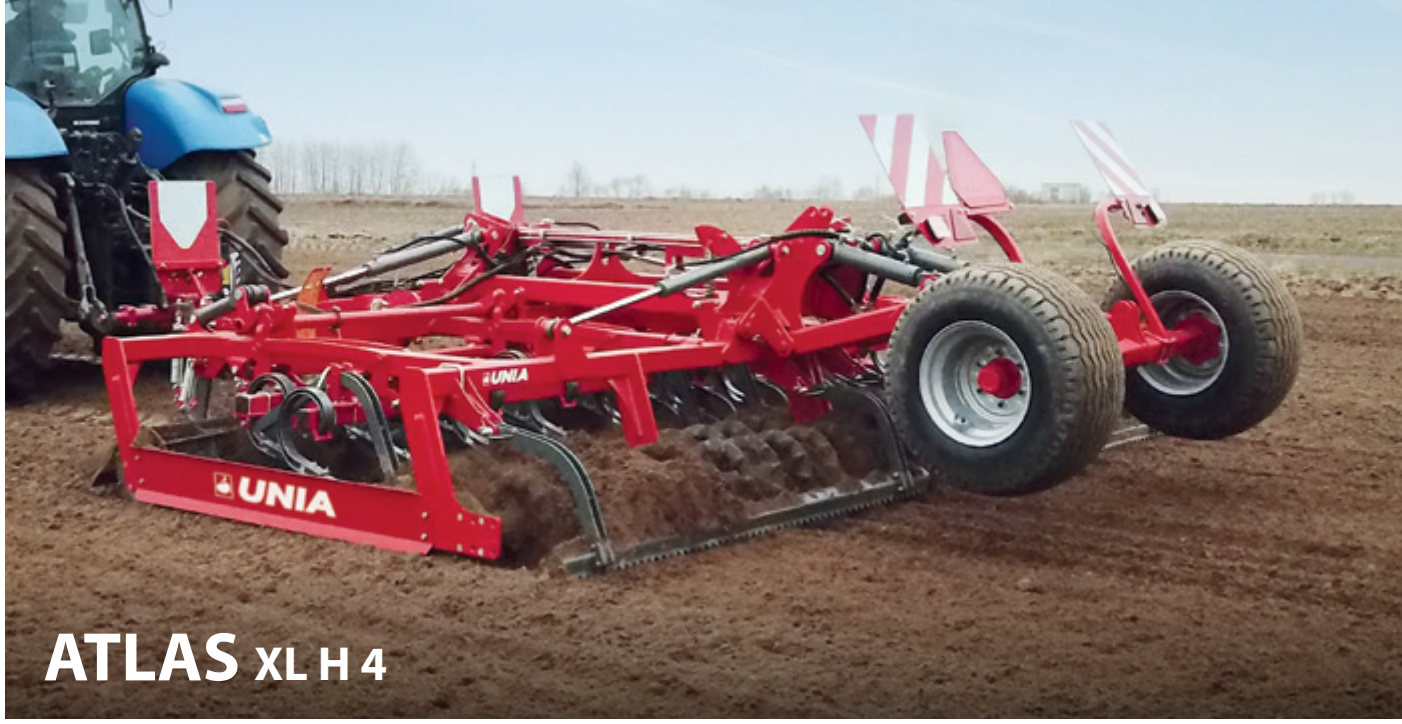
CULTIVATORS

ADVANTAGES OF ATLAS:

» **The perfect seed bed**
In a single pass by combining six cultivation tools.

» **Three different coulters made of boron steel available:**
- 4-row section of SV tines,
- 3-row section of SE tines,
- 2-row section of SX tines.

» **Low rolling resistance of the front roller**
The string roller in front of the tine section is resistant to clogging with soil; its diameter of ø400 mm and the strings twisted along the axis ensure continuous rotation.



ATLAS XL H 4

» **CROSSKILL roller rings made of ductile cast iron**
The rings have an increased resistance to mechanical damage.

» **Adjustable track openers**
The solid design allows the soil compacted by the wheels to be properly loosened, and the adjustable spacing makes it easy to adapt to the width of the tractor.

TECHNICAL SPECIFICATIONS

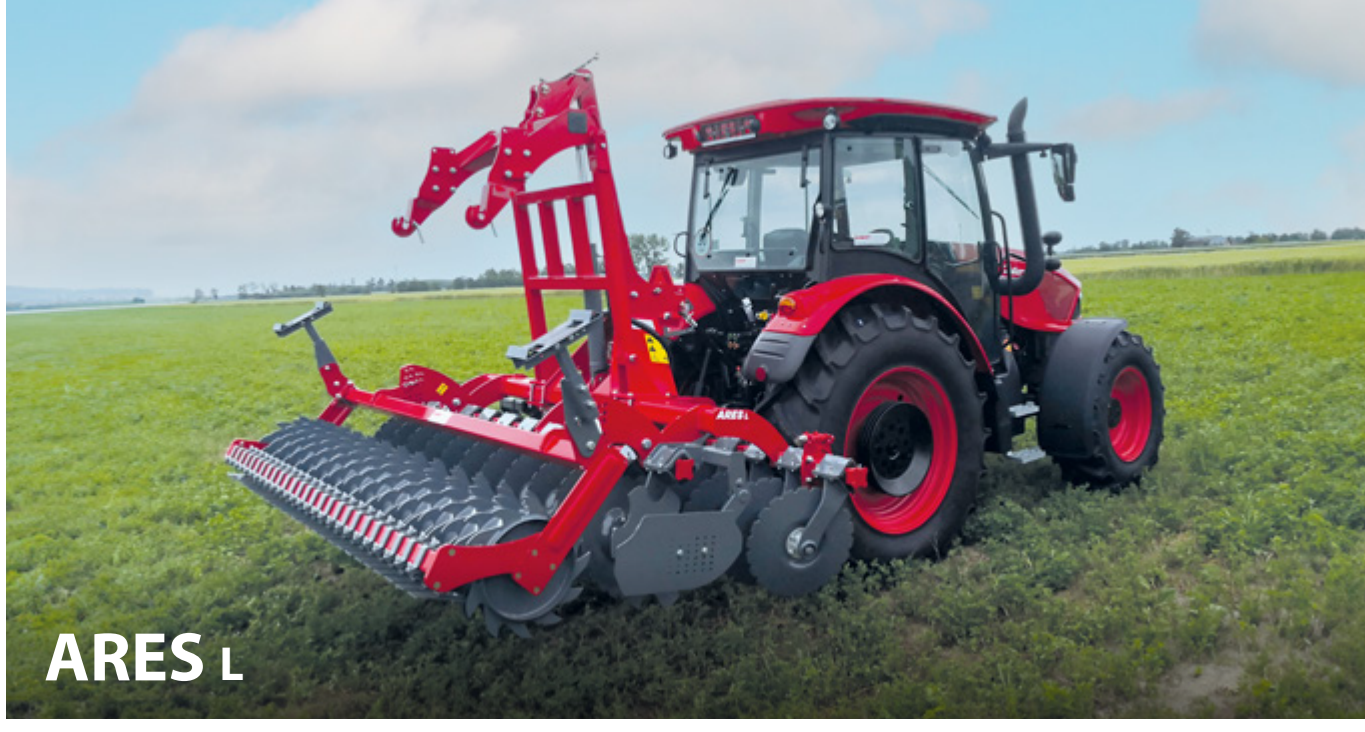
ATLAS II	2.5	3	4
Weight [kg]	1,460	1,720	2,180
Power requirement [hp]	90–110	110–150	130–170
Number of SX or SZ tines [pcs]	10	12	16
Number of SV tines [pcs]	25	30	40
Number of SE tines [pcs]	16	20	25
Working depth [cm]	12	12	12

ATLAS II P	3	4
Weight [kg]	2,250	2,600
Power requirement [hp]	80–110	90–130
Number of SX or SZ tines [pcs]	12	16
Number of SV tines [pcs]	30	40
Number of SE tines [pcs]	20	25
Working depth [cm]	12	12

ATLAS II HP	4	5	6	8
Weight [kg]	3,200	3,750	4,450	5,700
Power requirement [hp]	120–160	140–180	170–210	190–250
Number of SX or SZ tines [pcs]	16	20	24	32
Number of SV tines [pcs]	40	54	64	94
Number of SE tines [pcs]	26	32	40	54
Working depth [cm]	12	12	12	12

ARES L

DISC CULTIVATORS



ADVANTAGES OF ARES L:

» **Compact yet robust frame**
This allows work with tractors of 70 HP and above.

» **Optimum flow of crop residues**
The curved shape of the frame aids uniform mixing of soil and post-harvest residues.

» **Robust frame construction**
Based on a 100×200 mm profile. The tool beams are supported by RAEX 500 steel brackets.

» **Robust plough-beam**
Made of HARDOX® steel and adapted to the shape of the disc.

» **Maintenance-free bearings**
The coulters rotate on double-row, maintenance-free, and replaceable hubs with increased load capacity.

» **Wear-resistant coulters made of boron steel**
The discs are made of boron steel hardened in the preserved shape.

» **Flat surface between passes**
The adjustment of the edge coulters and the deep indentation make it possible to level out the tracks between passes.

» **High quality performance when working with seed drills**
A trussed coupling equipped with a powerful hydraulic cylinder.

TECHNICAL SPECIFICATIONS

ARES L	2.5	3	3.5	4
Weight [kg]	920	1,080	1,300	1,420
Power requirement [hp]	70–90	80–100	100–120	110–130
Number of discs [pcs]	20	24	28	32
Spacing between disc rows [cm]	64	64	64	64

ARES L DRIVE	3
Weight [kg]	1,530
Power requirement [hp]	80–100
Number of discs [pcs]	24
Spacing between disc rows [cm]	64

ARES XL

DISC CULTIVATORS

ADVANTAGES OF ARES XL:

» **Universality and versatility of use**
The modularity of the machine and the range of widths allow the machine to be adapted to work on any farm.

» **Optimum flow of crop residues**
The curved shape of the frame aids uniform mixing of soil and post-harvest residues.

» **Robust frame construction**
Based on a 160×160 mm profile. The tool beams are supported by RAEX 500 steel brackets.

» **Robust plough-beam**
Made of HARDOX® steel and adapted to the shape of the disc.

» **Maintenance-free bearings**
The coulters rotate on double-row, maintenance-free, and replaceable hubs with increased load capacity.

» **Wear-resistant coulters**
The discs are made of boron steel hardened in the preserved shape.

» **Flat surface between passes**
The adjustment of the edge coulters and the deep indentation make it possible to level out the tracks between passes.

» **Slurry application possible**
The ARES XL A version is adapted for slurry application, the unique system minimises nitrogen losses.

» **Design versatility**
The machine can function as a mounted and semi-mounted machine; regardless of the width, the machine can be retrofitted with a chassis with **European type-approval**.

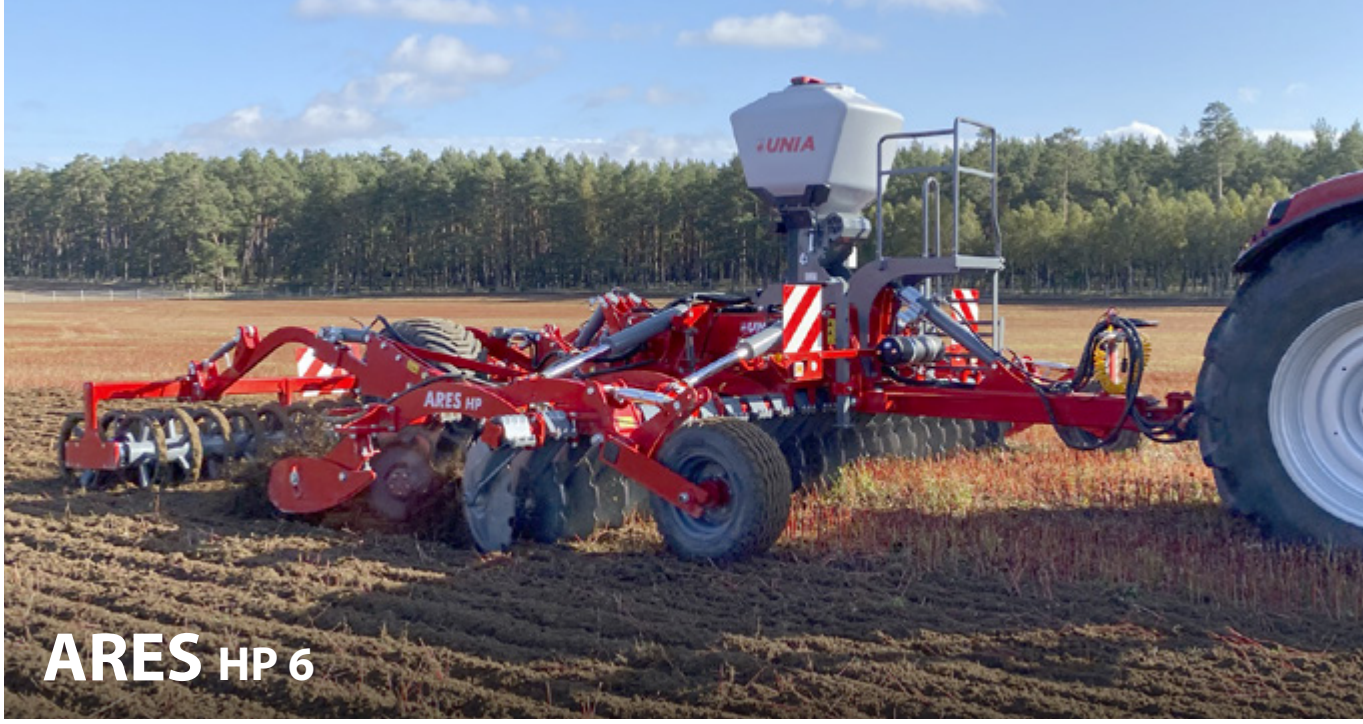
TECHNICAL SPECIFICATIONS

ARES XL	3	3.5	4
Weight with ø 600-millimetre pipe roller [kg]	1,530	1,875	2,085
Power requirement [hp]	110–130	120–140	120–150
Number of discs [pcs]	24	28	32
Spacing between disc rows [cm]	80	80	80

ARES XL	H 4	H 4.5	H 6.0	H 7.5
Weight with ø 600-millimetre pipe roller [kg]	2,470	3,075	3,630	4,485
Power requirement [hp]	130–160	150–180	170–210	190–260
Number of discs [pcs]	32	36	48	60
Spacing between disc rows [cm]	80	80	80	80

ARES HP

DISC CULTIVATOR, SEMI-MOUNTED



ADVANTAGES OF ARES HP:

» **High machine weight for effective work in all conditions**
Each metre of working width of the machine carries 1,200 kg (depending on equipment).

» **Adequate flow of large quantities of organic matter**
The distance between the disc rows (120 cm) and the high ground clearance (curved frame shape).

» **Universal application**
The machine can work on stubble fields, breaking up permanent grassland and deep cultivation replacing ploughing.

» **Two types of coulter protection available**
Triangular rubber shock absorbers and TX protection.

» **Durable plough-beam with additional reinforcement**
Made of HARDOX® steel and adapted to the shape of the disc.

» **Maintenance-free bearings**
The coulters rotate on double-row, maintenance-free, and replaceable hubs with increased load capacity.

» **Wear-resistant coulters**
The discs are made of boron steel hardened in the preserved shape.

» **Flat surface between passes**
The adjustment of the edge coulters and the deep indentation make it possible to level out the tracks between passes.

» **Improved comfort of use**
The machine's folding system is equipped with a hydraulic folding lock.

TECHNICAL SPECIFICATIONS

ARES HP	4	5	6	8
Weight XL [kg]	5,560	6,160	6,530	8,030
Weight XXL [kg]	5,660	6,260	6,730	8,210
Weight TX [kg]	6,120	6,700	7,220	—
Power requirement [hp]	170–220	220–230	240–260	260–280
Number of discs (XXL/TX) [pcs]	32	40	48	64
Spacing between disc rows [cm]	120	120	120	120

KOS PREMIUM

CULTIVATORS FOR SIMPLIFIED TILLAGE

ADVANTAGES OF KOS:

» **Effective loosening and agitating**
The design of the CX tine, equipped with 70 mm wide chisels and agitating mouldboards to ensure an adequate soil agitation effect of up to approx. 30 centimetres.

» **Two-beam unit for tractors with lower horsepower**
The cultivator is designed for farmers with tractors of lower horsepower that are unable to work efficiently with three-beam units.

» **Optimum flow of soil and crop residues**
Thanks to the high positioned frame and the appropriate distance between the cultivation tines.

» **Working elements made of boron steel**
Chisels, mouldboards, undercutters, discs, and harrows made by UNIA are made of boron-enriched steel, providing high wear resistance.

» **Adaptation to work on heavy and stony soils**
High trigger force of the tine (550 kg) and robust spring protection.

» **Can be used for stubble field cultivation**
The aggregate with side undercutters fully undercuts the field surface.

KOS PREMIUM 3

» **Optional DURUM chisels with 8-fold increased strength**
Reinforced with tungsten carbide inserts, ensure that the working depth is maintained uniform throughout the service life.

TECHNICAL SPECIFICATIONS

KOS PREMIUM	3	3.5	4
Weight with ø 600-millimetre pipe roller [kg]	1,880	2,190	2,500
Power requirement [hp]	120–150	140–170	160–190
Number of tines [pcs]	8	10	12
Number of discs (harrow A) [pcs]	9	10	13
Number of discs (harrow B) [pcs]	16	20	24
Tine spacing [cm]	37	37	37
Underbeam clearance [cm]	85	85	85

KOS PREMIUM LONG	3	4
Weight without roller [kg]	3,000	3,640
Power requirement [hp]	140–170	180–220
Number of tines [pcs]	8	12
Underbeam clearance [cm]	85	85
Tines spacing [cm]	37	37

AKCENT

WEEDER HARROW

ADVANTAGES OF AKCENT:

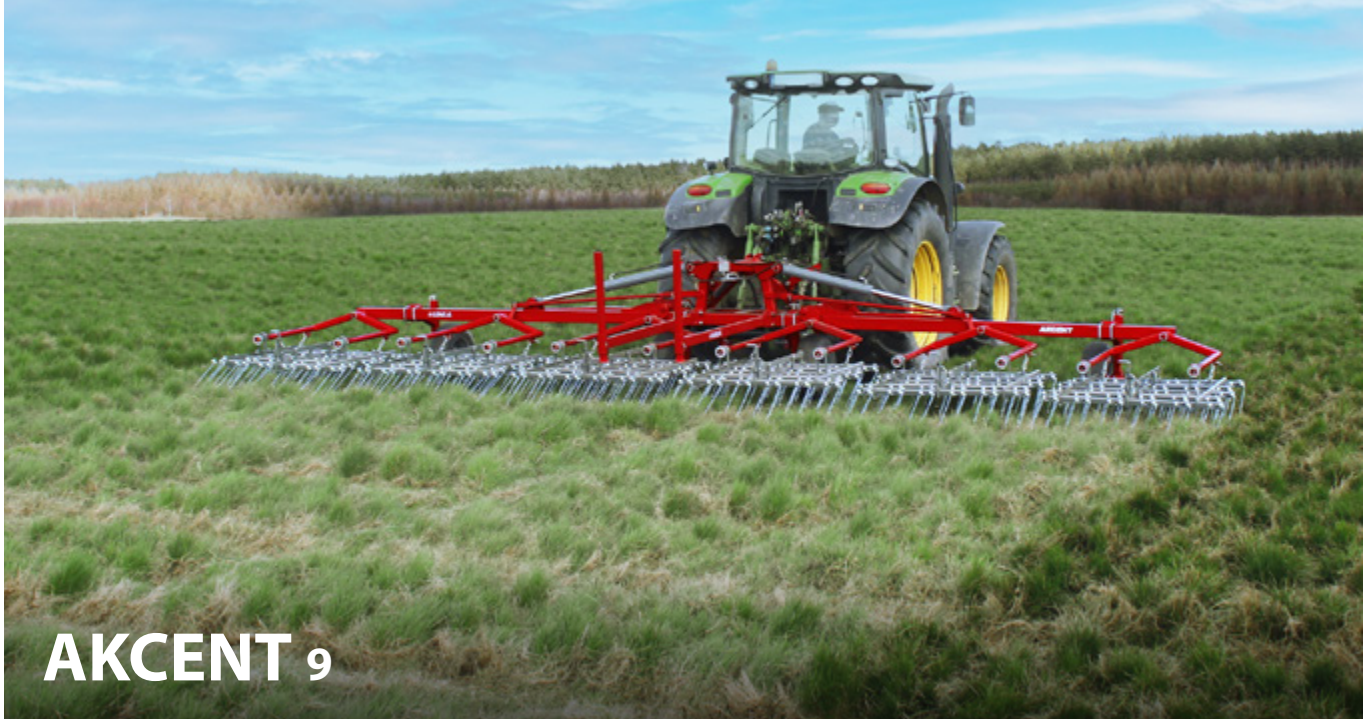
» **Effective weed control**
The AKCENT weeder is used for mechanical weed control in the early growth stages of cereals and other crops.

» **Quick exchange of working elements**
The tines are fixed with pins, and the replacement is a matter of unlocking the pin, sliding out the old tine and inserting the new one.

» **Five levels of rake angle adjustment**
The tine profiles are mounted in a parallelogram, allowing the tine angle to be set precisely with a single lever.

» **Ground following**
Each one-and-a-half-metre section is mounted centrally, allowing for precise following of uneven terrain.

» **Precise steering of the machine**
The 5.00×9 support wheels (AKCENT 9 and 12) ensure that the machine is properly supported on the field surface. The height of the wheels is steplessly adjustable.

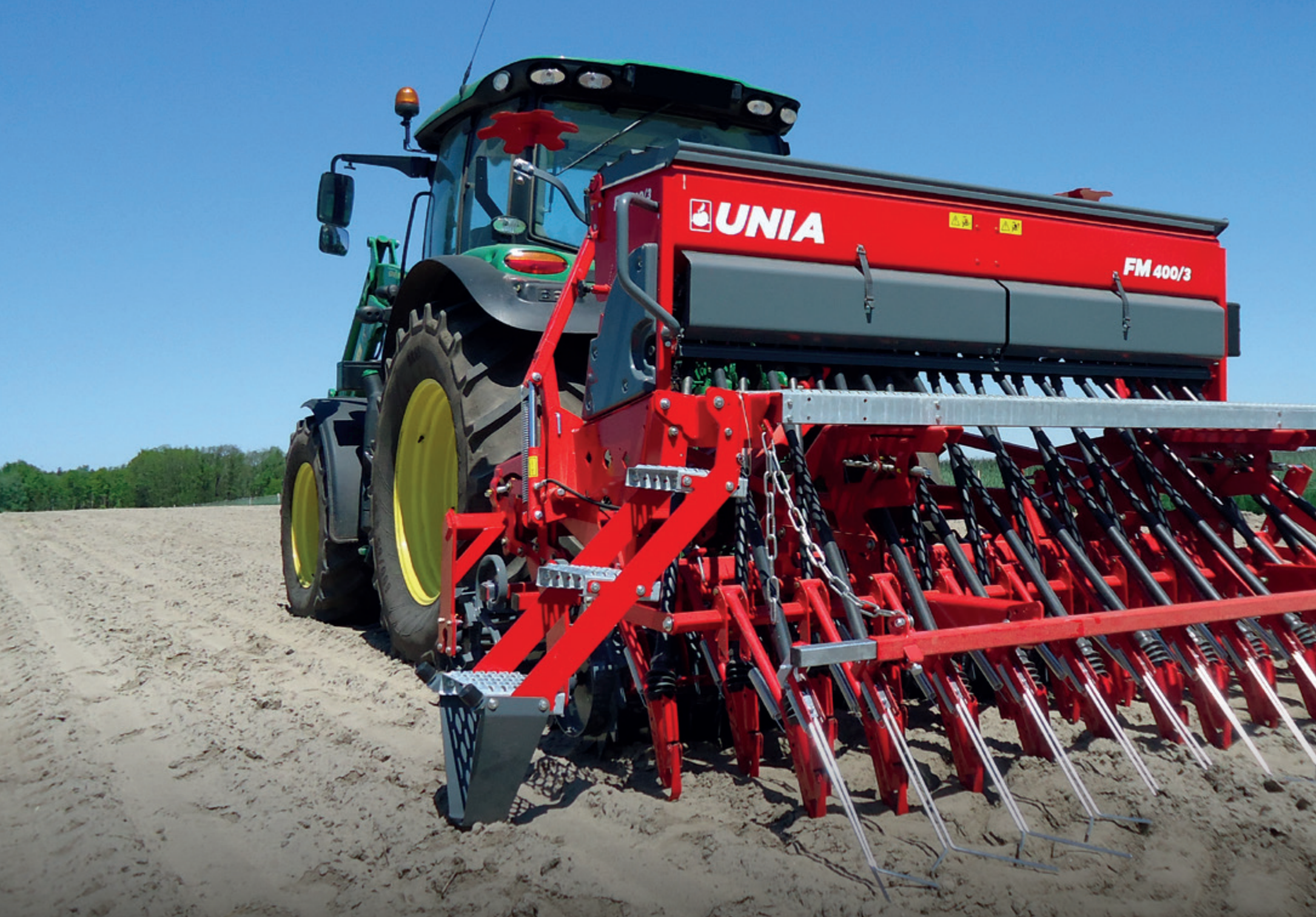


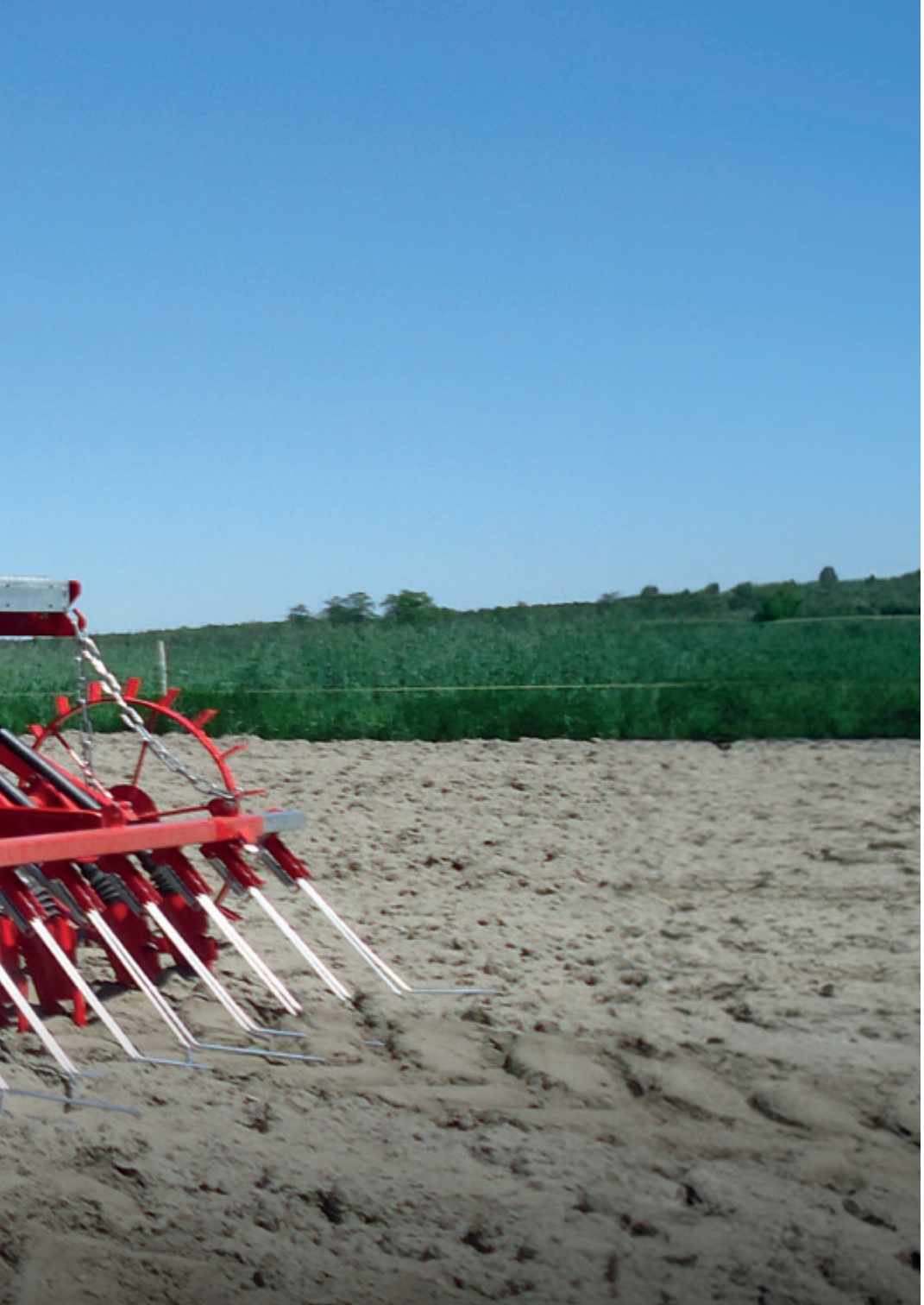
» **Uniform folding of the machine**
The weeder is equipped with a stream splitter, ensuring that the right and left sides of the machine are folded evenly.

» **Use for grassland management**
When retrofitted with levelling skid, AKCENT can be used for grassland management.

TECHNICAL SPECIFICATIONS

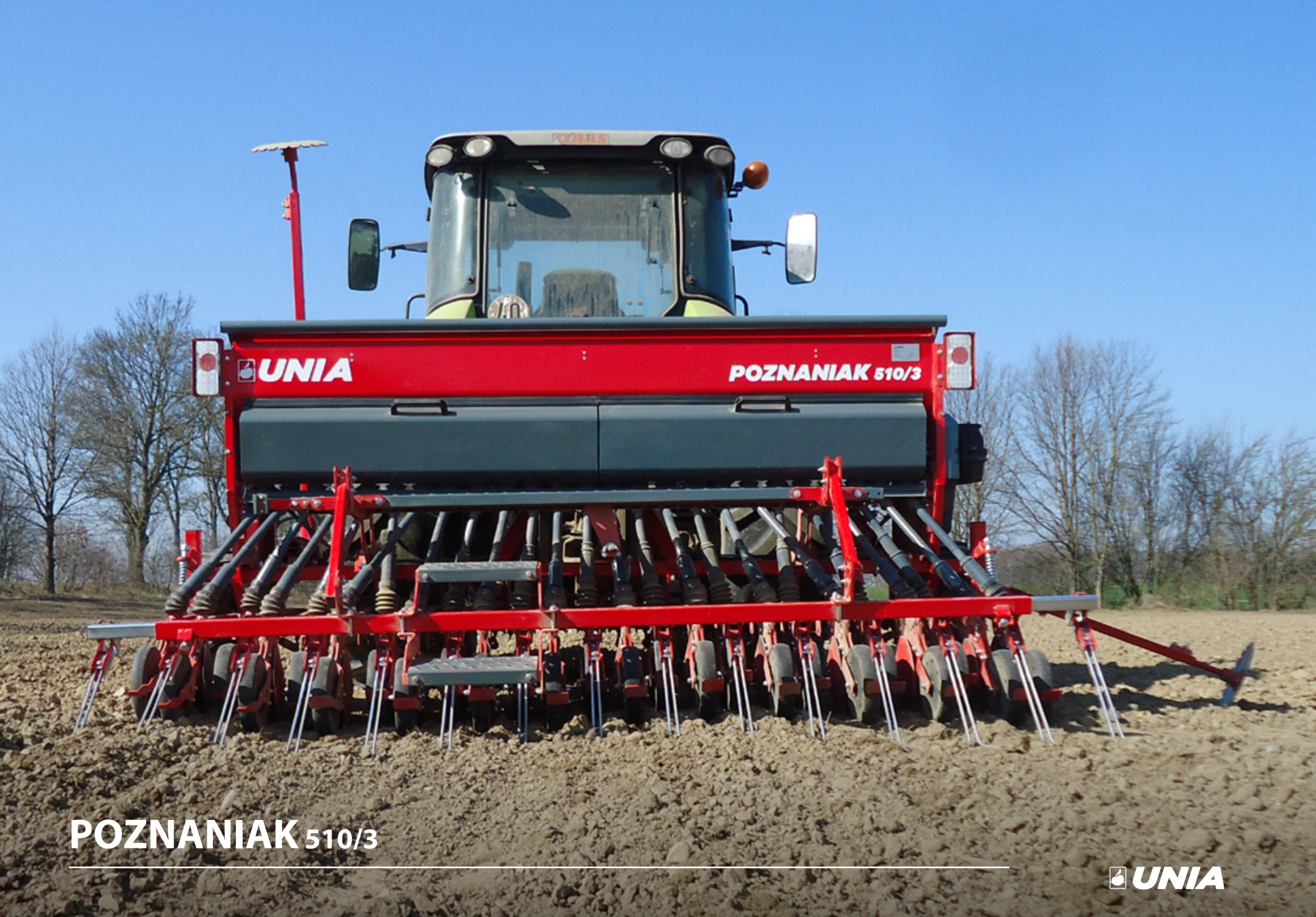
AKCENT	6	9	12
Weight [kg]	740	1,260	1,700
Power requirement [hp]	70–100	90–120	110–140
Number of sections [pcs]	4	6	8
Number of springs [pcs]	240	360	480


UNIA
FM 400/3



SOWING TECHNOLOGY

Seed metering systems ensure precise and even sowing, resulting in uniform emergence and better yields. Unia supplies farmers with advanced mechanical and pneumatic seed drills and complete combination seed drills, equipped with large seed hoppers, significantly speeding up every farmer's work. With our solutions, farmers can achieve optimal results and maximise the productivity of their crops.



POZNANIAK 510/3

UNIA

POZNANIAK

MECHANICAL SEED DRILL

ADVANTAGES OF POZNANIAK:

» **Compact design**
Lightweight, compact design recommended both for solo operation and with cultivators, especially the mounted version which is equipped with a coupling to the seed drill.

» **Mechanical seed dosing system**
Sowing is based on a stepless three-cam gearbox and universal pin seed sowing apparatus.

» **High performance**
Seed hoppers with a capacity of 470 or 510 dm^3 result in better productivity and fewer loadings.

» **Universal SHELL coulter**
Alternating 300 mm SHELL coulter with individual pressure of up to 25 kgf ensures ideal seed-to-soil contact in all conditions.

» **Comfort of use**
The STARTER SEED and PILOT SEED controllers control the operation of the seeder and contribute to user comfort.

» **Additional options**
Extensive optional equipment allows the machine to be equipped exactly to the customer's needs.

» **Transport width**
The machine does not exceed 3.0 metres in transport, so it can be driven on public roads (version 510/3).

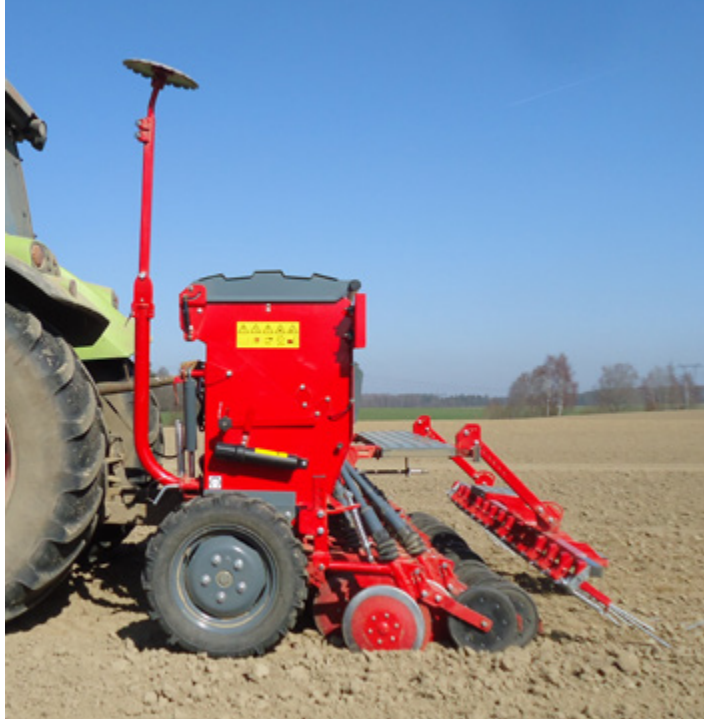
» **Easy calibration test**
A special system for lowering the beam with telescopic tubes makes it easier to carry out the drill adjustment.

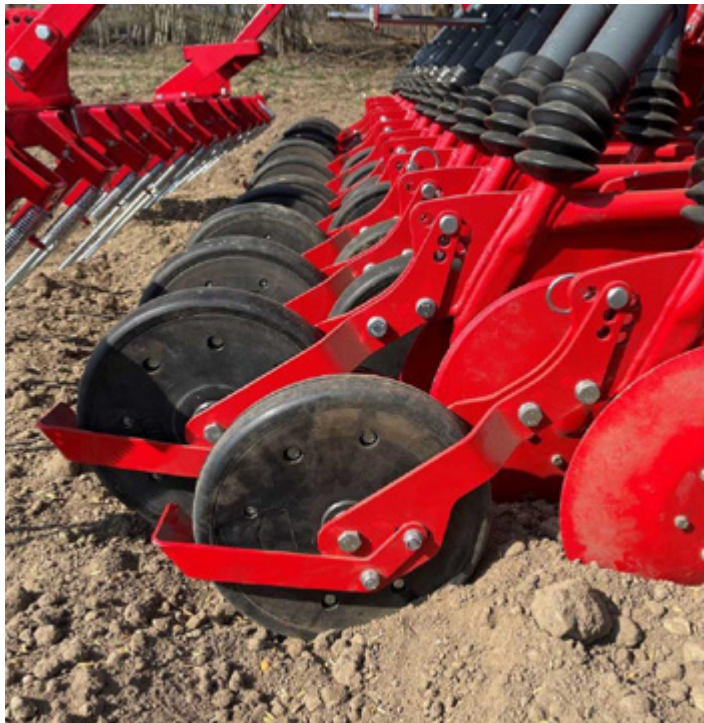
» **Safety of work**
A 2.0-metre-wide inspection platform with steps allows mechanical loading of the seed box. The loading height does not exceed 1.5 m.

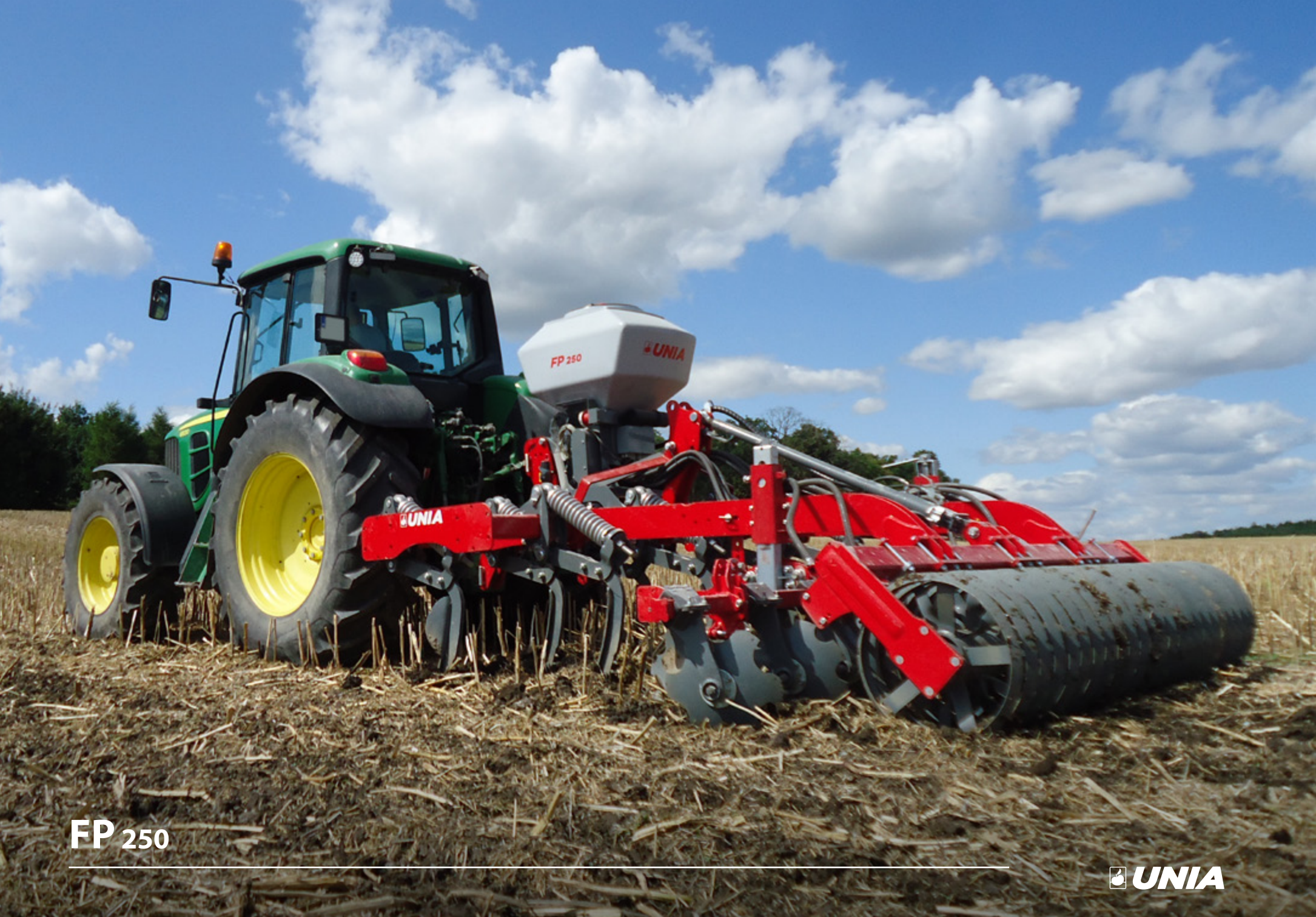
» **Key firmer**
A weeder harrow with individual springs covers the sown rows and levels the field.

TECHNICAL SPECIFICATIONS

POZNANIAK	470/2.5	470/2.7	510/3
Working width [m]	2.5	2.7	3
Hopper capacity [dm^3]	470	470	510
Number of coulters [pcs]	21	23	25
Power requirement [hp]	45	45	60
Weight [kg]	610/760	630/790	650/850







FP 250

UNIA

FP 250/550

PNEUMATIC SEED DRILLS FOR AFTERCROP

ADVANTAGES OF FP:

» **Uniform pneumatic sowing**
The pneumatic sowing system used ensures uniform sowing of seeds for aftercrop across the entire working width, regardless of weather conditions.

» **Large working width**
The electric blower drive allows accurate seeding of different calibrations up to a working width of 6 m.

» **Dedicated sowing rollers**
Two sowing rollers as standard for fine and coarse seeds, plus an additional roller for sowing fine seeds in small doses.

» **Comfort of use**
The seeder is controlled by the STARTER FP and PILOT FP controllers with speed sensors. Three speed sensors are available: wheel-mounted, GPS and 7 PIN.

» **Compact hoppers**
Seed hoppers of 250 or 550 litres allow the size and shape of the seed drill to be matched to the hydraulically folded machines. The hermetic sealing of the seed hopper ensures that no dust associated with aggregate cultivation gets inside.

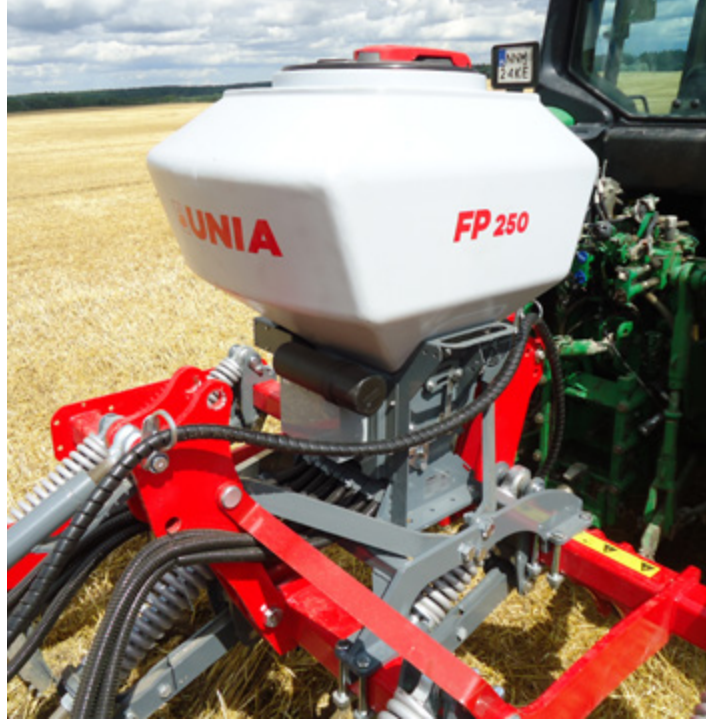
» **Easy fitting to soil tillage machines**
Dedicated mounting elements for UNIA machines – including mounting elements with platform and ladder, distributors, distributor mounting strips, and appropriate lengths of seed transport hoses.

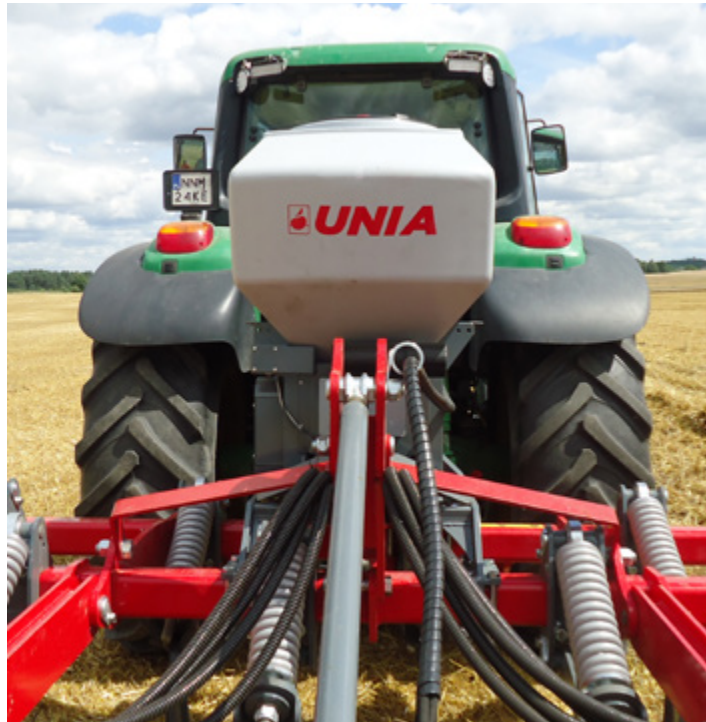
» **Universal application**
Extension possibility, e.g. increasing the number of seeding sections to 16 outputs by means of T-pieces and additional diffusers.

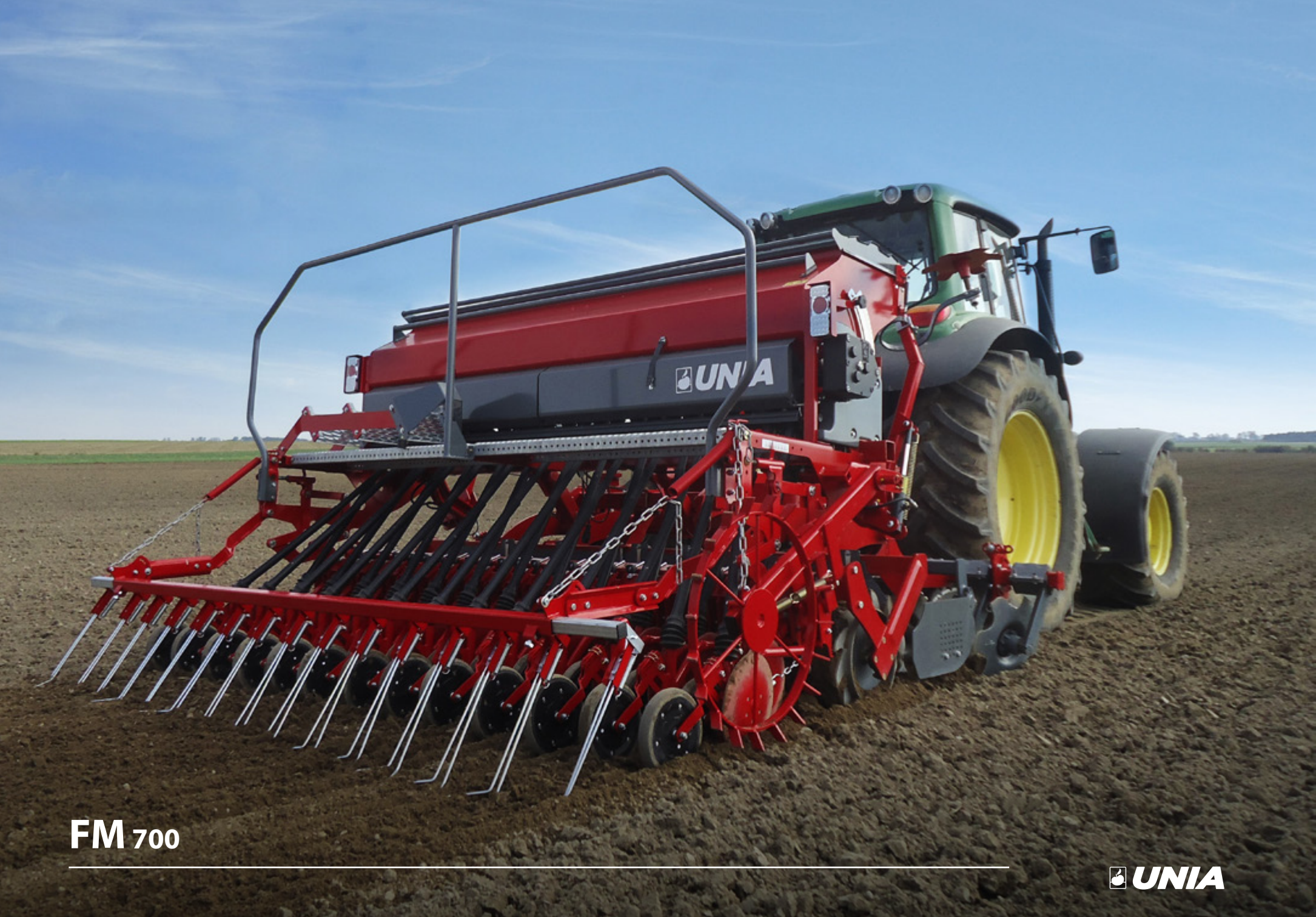
» **Intuitive operation**
Quick calibration of the seed sowing apparatus enables a wide variety of seed to be sown in accordance with the machine's working width and drive speed.

TECHNICAL SPECIFICATIONS

FP	250	550
Fan drive	electrical	electrical
Working width [m]	0–6	0–6
Hopper capacity [dm^3]	250	550
Weight [kg]	60	75
Electrical parameters	12 V / 25 A	12 V / 25 A







FM 700

UNIA

FM 400/700

MECHANICAL COMBINATION SEED DRILL

ADVANTAGES OF FM:

» **Compact kits for mounting**
A seed drill mounted on one of three units: tine, disc or active. Centre of gravity shifted close to the tractor.

» **Mechanical seed dosing system**
Sowing is based on a stepless gearbox and universal pin seed sowing apparatus.

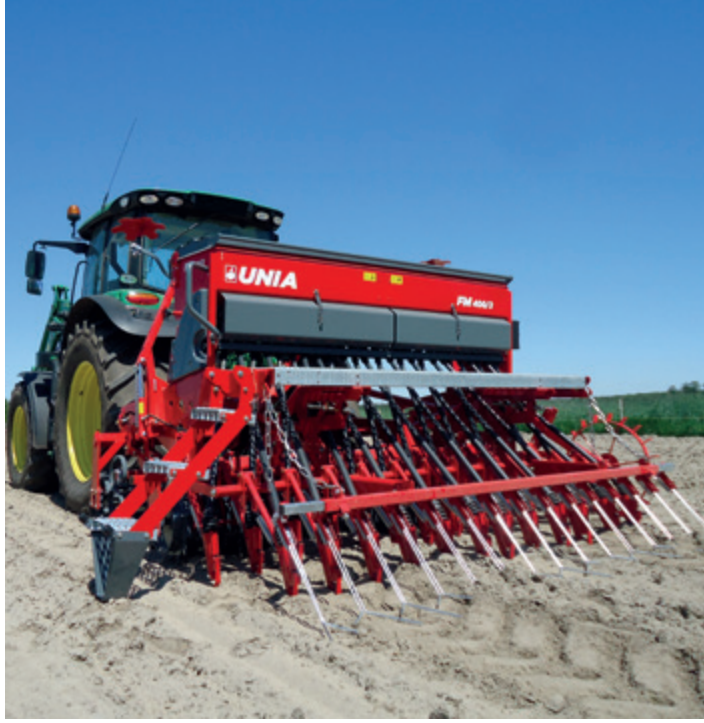
» **High performance**
Large seed hoppers with a capacity of up to 700 dm^3 result in better productivity and fewer loadings.

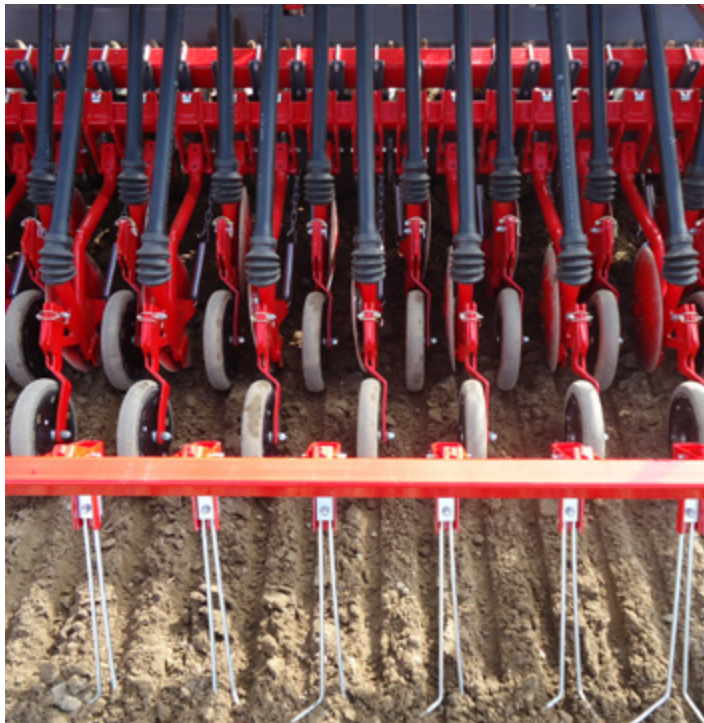
» **Comfort of use**
The seeder is controlled by intuitive STARTER SEED and PILOT SEED controllers.

» **Appropriate density**
Massive compaction rollers: pipe roller, packer roller, or rubber roller with a diameter of ø500 mm crush and compact the soil immediately before sowing.

» **Key firmer**
A weeder harrow with individual springs covers the sown rows, levels the field, and follows any unevenness well.

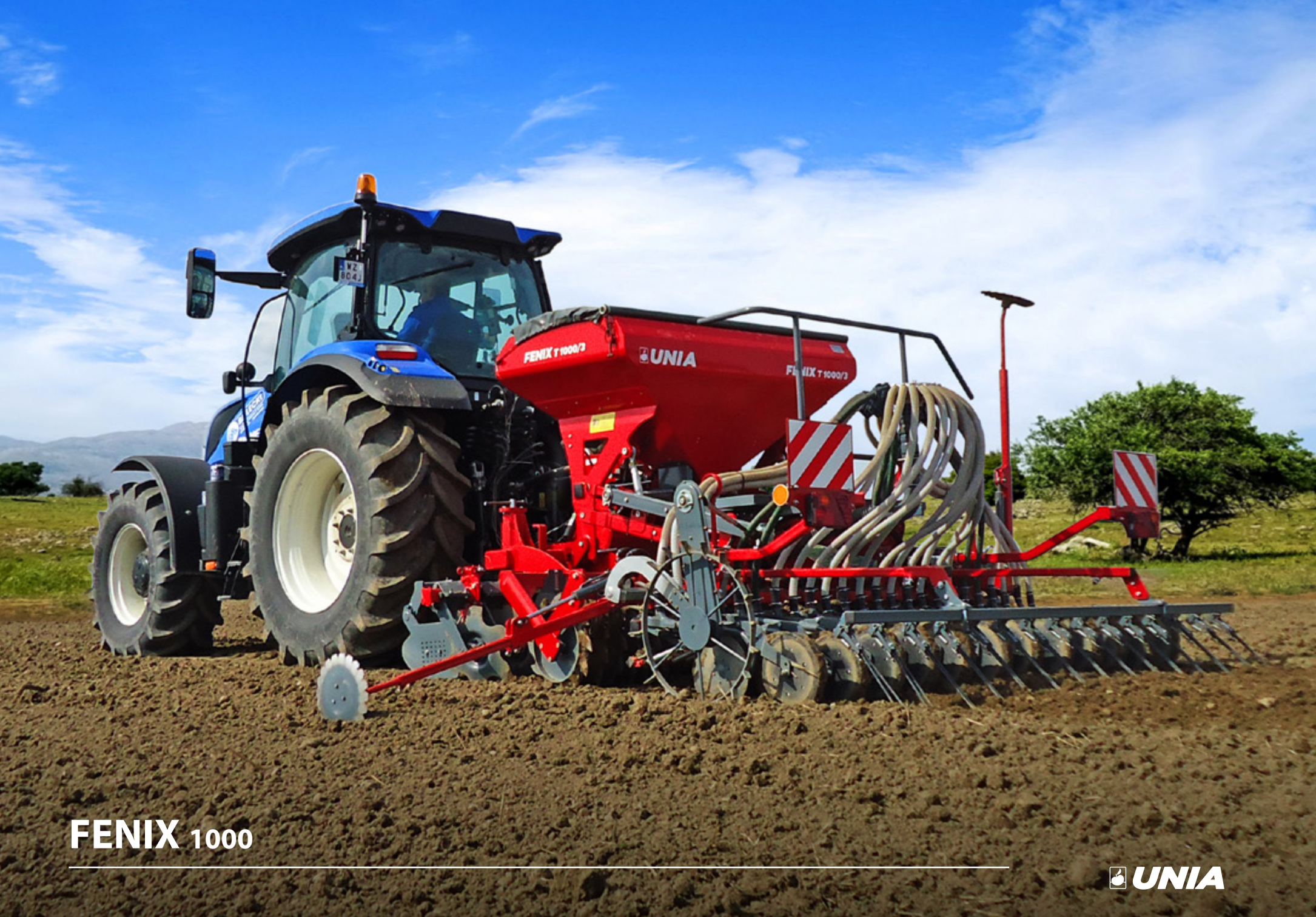
» **Safe inspection platform**
Loading platform across the full width of the seed drill.





TECHNICAL SPECIFICATIONS

FM	400	400/D	S 700	S 700/D	T 700/D	A 700	A 700/D
Unit type	tine	tine	tine	tine	disc	active	active
Working width [m]	3	3	3	3	3	3	3
Hopper capacity [dm^3]	400	400	700	700	700	700	700
Coulter type	hoe	disc	hoe	disc	disc	shoe	disc
Number of coulters [pcs]	25	25	25	25	25	25	25
Weight [kg]	1,450	1,550	1,950	2,050	2,400	2,250	2,350
Power requirement [hp]	70–80	70–80	120	120	120	140	140



FENIX 1000

UNIA

FENIX 1000

MECHANICAL COMBINATION SEED DRILL

ADVANTAGES OF FENIX 1000:

» **Uniform sowing**
The pneumatic seeding system with a distributor located above the sowing coulters guarantees uniform seeding over the entire width of the machine.

» **Precise dosing**
Universal FX seeding apparatus for fine and coarse seed, allowing seeding from 1.5 to 400 kg/ha.

» **Universal coulter**
300 mm SHELL coulter with individual pressure of up to 25 kgf ensures ideal seed-to-soil contact in all conditions.

» **Precise cultivation**
The seed drill can be mounted on one of two units: a disc unit with 460 mm discs or an active unit with 12 rotors and 280 mm blades.

» **Efficient fan**
A hydraulic motor supplied from the tractor hydraulics is used to drive the fan (oil requirement 24 litres/minute).

» **Proper compaction before sowing**
Massive compaction rollers: pipe roller, packer roller or rubber roller with a diameter of ø500 mm crush and compact the soil immediately before sowing.

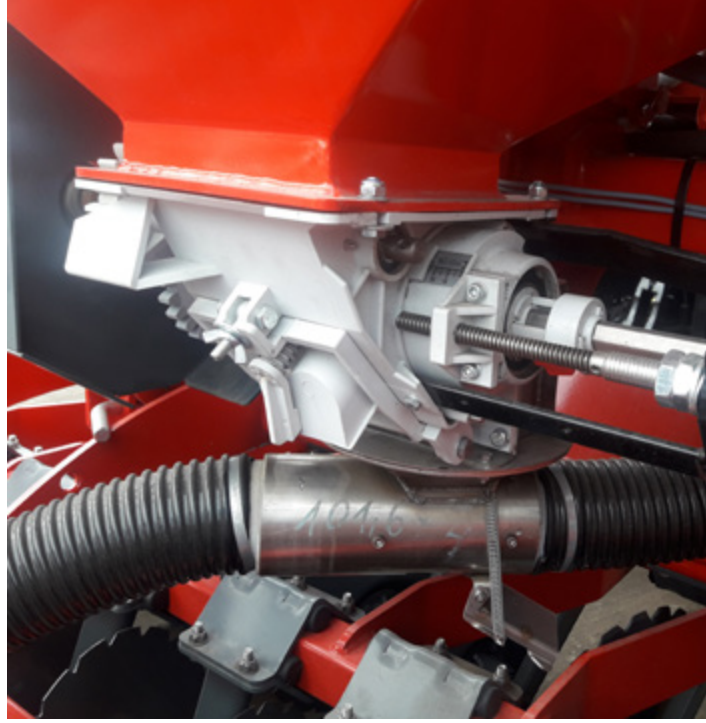
» **Comfort of use**
An ISOBUS-compatible computer controls the seed drill and allows, among other things, quick calibration of the seed and a change of application rate while driving (electric drive).

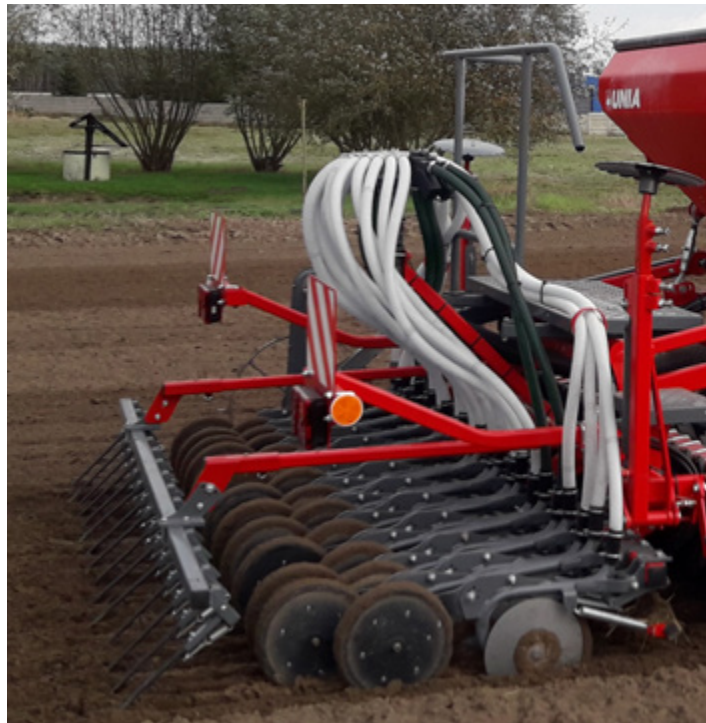
» **Proper compaction after sowing**
The large 330×50 mm ground following wheels compact the soil after sowing and maintain the set working depth even on soils with different textures.

» **Key firmer**
A weeder harrow with individual springs covers the sown rows, levels the field, and follows any unevenness well.

TECHNICAL SPECIFICATIONS

FENIX 1000	T 1000	A 1000
Unit type	Disc	Active
Working width [m]	3	3
Hopper capacity [dm^3]	1,000	1,000
Number of coulters [pcs]	24	24
Weight [kg]	1,980	2,270
Power requirement [hp]	140	140





POLONEZ

MECHANICAL SEED DRILL

ADVANTAGES OF POLONEZ:

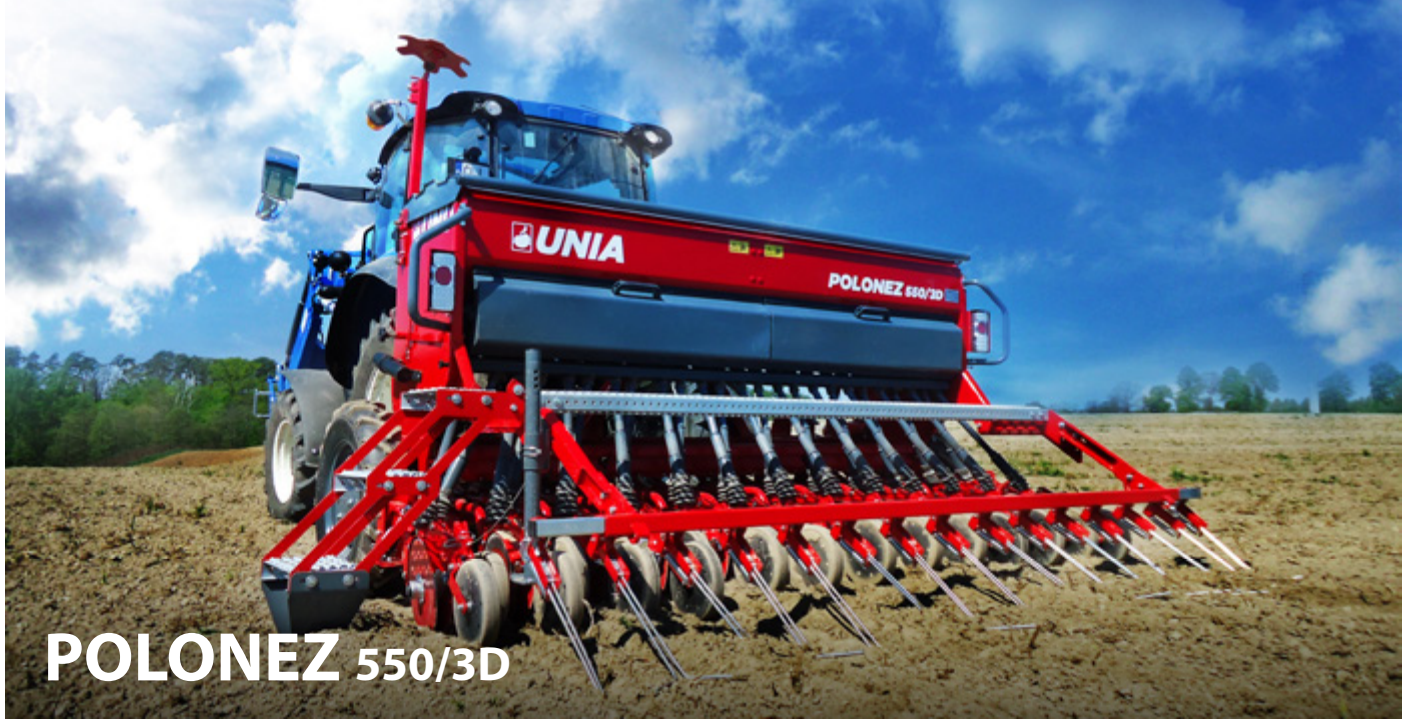
» **Stable design**
Solid design recommended both for solo operation and with cultivators, especially semi-mounted ones equipped with a coupling to the seed drill. Mechanical seed dosing system. Sowing is based on a stepless three-cam gearbox and universal pin seed sowing apparatus.

» **High performance**
Seed hoppers with a capacity of up to 750 dm^3 (with extension) result in better productivity and fewer loadings.

» **Universal SHELL or V-TECH coulter**
Alternating 300 mm SHELL or V-TECH coulter with individual pressure of up to 25 kgf ensures ideal seed-to-soil contact in all conditions.

» **Comfort of use**
The STARTER SEED, PILOT SEED, or SUPERIOR controllers control the operation of the seeder and contribute to user comfort.

» **Easy calibration test**
A special system for lowering the beam with telescopic tubes makes it easier to carry out the drill adjustment.



» **Adjustable coulter pressure**
Mechanical or hydraulic central pressure and individual pressure guarantee perfect contact between seed and soil at the right depth.

» **Simultaneous spreading of fertiliser**
The DUPLO version with a split fertiliser-seed hopper allows simultaneous seeding of seed and fertiliser with one coulter, the so-called around-seed fertilisation.

TECHNICAL SPECIFICATIONS

POLONEZ	550	550 D	550 D DUPLO	550 PREMIUM
Working width [m]	3	3	3	3
Hopper capacity [dm^3]	550 (750)	550 (750)	550 (750)	550 (750)
Number of coulters [pcs]	25	25	25	25
Weight [kg]	790	970	1,050	1,250
Power requirement [hp]	80	80	80	80

AMBER

HEAVY MECHANICAL SEED DRILL

ADVANTAGES OF AMBER:

» **Conventional or no-tillage**
Mechanical heavy-duty seed drill for simplified and conventional sowing with a trailed design and low power requirements. Mechanical seed dosing system. Sowing is based on a stepless gearbox and universal pin seed sowing apparatus.

» **High performance**
Large loading hoppers with capacities from 900 to 3,500 litres guarantee excellent seeding performance, and easy access allows loading from BIG-BAGs.

» **Cultivating and sowing at the same time**
Possibility to mount the cultivation section and create a combination seed drill. In such a case, the cultivator is equipped with ø460 mm discs and a ø670 mm tyre roller. This solution ensures thorough cultivation of the soil immediately before sowing (versions 3000 and 3500).

» **Coulter for challenging conditions**
The massive ø400 mm single-disc coulter with 100 kgf pressure ensures seed sowing in the most difficult soil conditions.

AMBER 3000/3

» **Preliminary soil levelling**
The hydraulically controlled front board levels the soil directly in front of the sowing coulters and levels the tracks left by the tractor wheels.

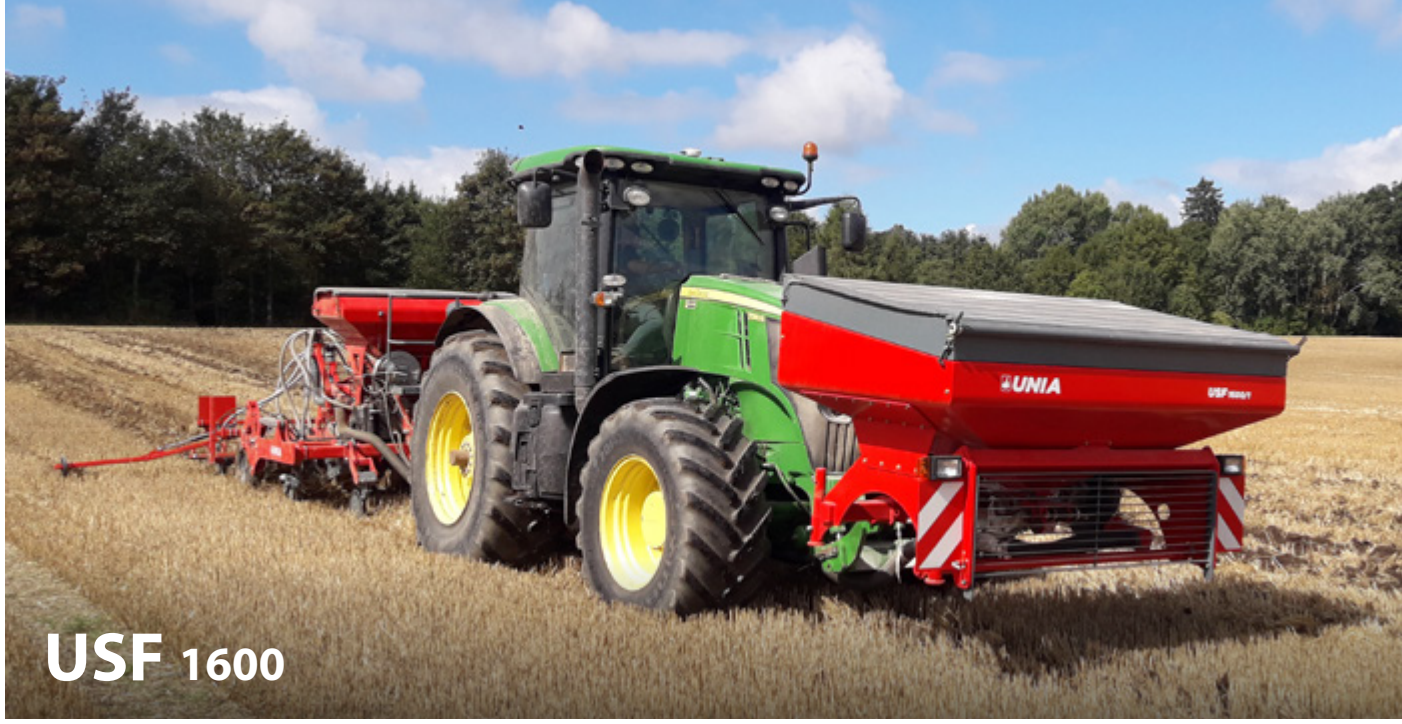
» **Compaction after sowing**
The ø670 mm or ø800 mm tyre roller compacts the soil after sowing, guaranteeing ideal contact between seed and soil and ensuring proper water absorption.

TECHNICAL SPECIFICATIONS

AMBER	900	900 DUPLO	1200	1200 DUPLO	3000	3000 DUPLO	3500	3500 DUPLO
Working width [m]	3	3	4	4	3	3	4	4
Hopper capacity [dm³]	900	900	1,200	1,200	3,000	3,000	3,500	3,500
Number of coulters [pcs]	24	24	32	32	24	24	32	32
Weight [kg]	2,500	2,700	3,000	3,300	3,500	3,800	4,900	5,300
Power requirement [hp]	100–120	100–120	120–140	120–140	120-140	120-140	140-160	140-160

USF

FRONT-MOUNTED PNEUMATIC SEED DRILL



ADVANTAGES OF USF:

» **Universal application**
A pneumatic seed drill designed to be fitted to the tractor's front three-point hitch for use with cultivators, weeders, potato planters, and other machines using fertiliser application.

» **High performance**
The 1,600 litre capacity loading hopper (2,200 litres with extension) made of lacquered black sheet metal, with a tarpaulin to facilitate loading from BIG-BAGs, improves efficiency and reduces the number of loadings.

» **Precise dosing**
The FX universal volumetric seeding apparatus allows seeding at a rate of 1.5 to 300 kg/ha, depending on speed and working width.

» **Mechanical or electric drive**
The seed drill can be equipped with a mechanical drive of the seed sowing apparatus from the ground following wheel (spur wheel) or with an electric drive that reads the speed from the GPS sensor and uses an ISOBUS-based control computer.

» **Functional distributor heads**
USF seed drills can be equipped with distributor heads with different numbers of outputs depending on the coupled machine. Heads with 4, 6, 8, 12, 20, or 24 outputs are available.

» **Split loading hopper**
The loading hopper with a split (50÷50), unscrewable partition allows seeding of two different seed materials (USF 1600/2).

TECHNICAL SPECIFICATIONS

USF	1600/1	1600/2
Distributors [number of outputs]	4/6/8/12/20/24	4/6/8/12/20/24
Hopper capacity [dm^3]	1600 (2200)	1600 (2200)
Fan drive	Hydraulic (24 litres/minute)	Hydraulic (24 litres/minute)
Number of seed sowing apparatus [pcs]	1	2
Weight [kg]	780 (810)	800 (830)
Power requirement [hp]	The same as cooperating machine	The same as cooperating machine

HAWK

UNIT FOR STRIP TILL

ADVANTAGES OF HAWK:

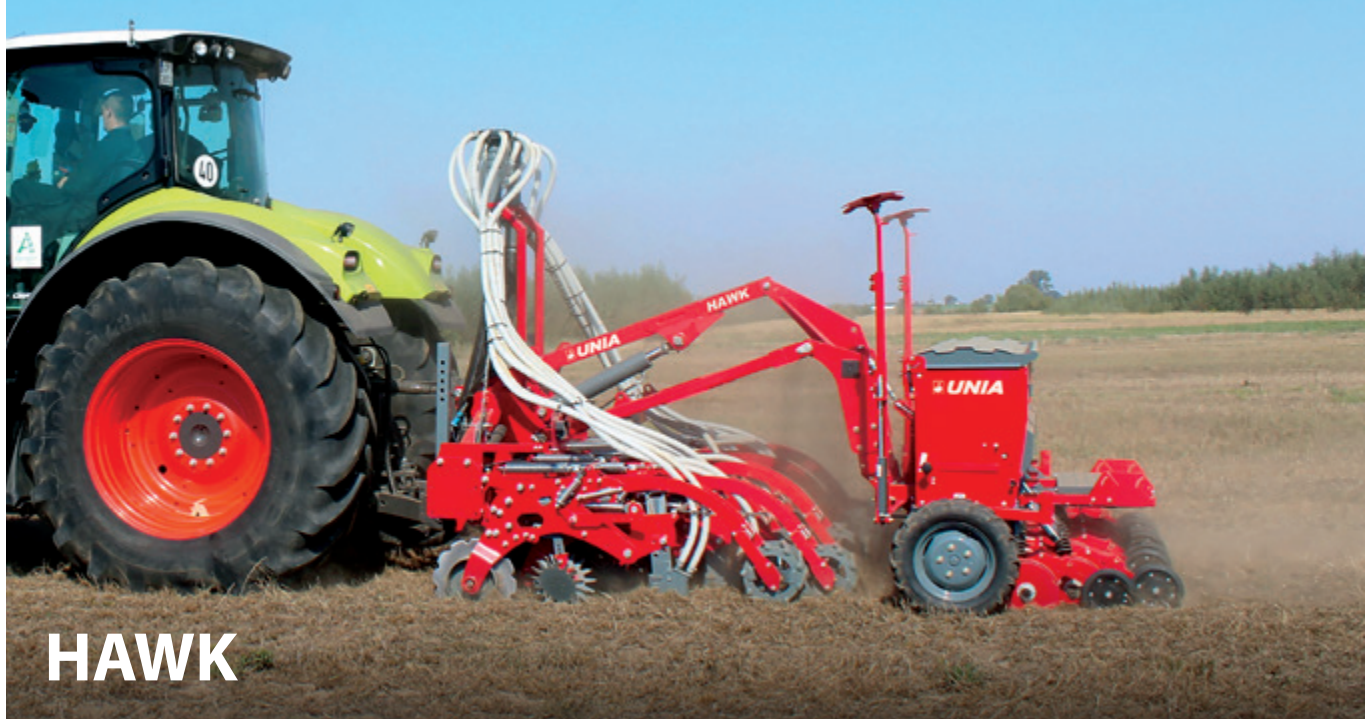
» **Monolithic frame**
Four, six or eight working sections can be mounted on a massive 3-metre wide monolithic frame. The spacing between sections is 75, 45, or 37.5 cm respectively.

» **Modular section design**
Cultivation section consists of several parts: the cutting disc, spreading discs, working tine, harrowing discs, and compacting roller.

» **Solo or with a cooperating machine**
HAWK unit is equipped with coupling based on a single cylinder, on which a seed drill or sowing ramp weighing up to 1,600 kg can be mounted.

» **Massive work tine**
Each plough-beam has its own hydraulic protection and is finished with a 25-millimetre wide chisel and side undercutters with a total width of 150 mm.

» **Adjustable working range**
The maximum working depth of the tine is 35 cm, while the two outlets at the back of each tine allow fertiliser to be placed in the soil at levels 7 cm apart.



» **Proper compaction after sowing**
Consolidation is provided by compaction rollers with a width of 240 mm and a diameter of ø300 mm. They have spring clamp, which allows adjusting their aggressiveness.

» **Functional extensions**
A set of extensions allows the width of the frame to be increased to 4.0 metres, so that it is possible to install, for example, 6 sections at a spacing of 75 cm.

» **Precise ground following**
A section suspended on a parallelogram allows each section to maintain the same working depth.

TECHNICAL SPECIFICATIONS

HAWK	3/4	3/6	3/8
Number of tines [pcs]	4	6	8
Section spacing [cm]	75	45	37.5
Weight [kg]	1,700	2,200	2,650
Power requirement [hp]	170–250	220–270	250–300

FENIX 3000

PNEUMATIC COMBINATION SEED DRILL

ADVANTAGES OF FENIX 3000:

» **Uniform sowing**
The pneumatic seeding system with a distributor located above the sowing coulters guarantees uniform seeding over the entire width of the machine.

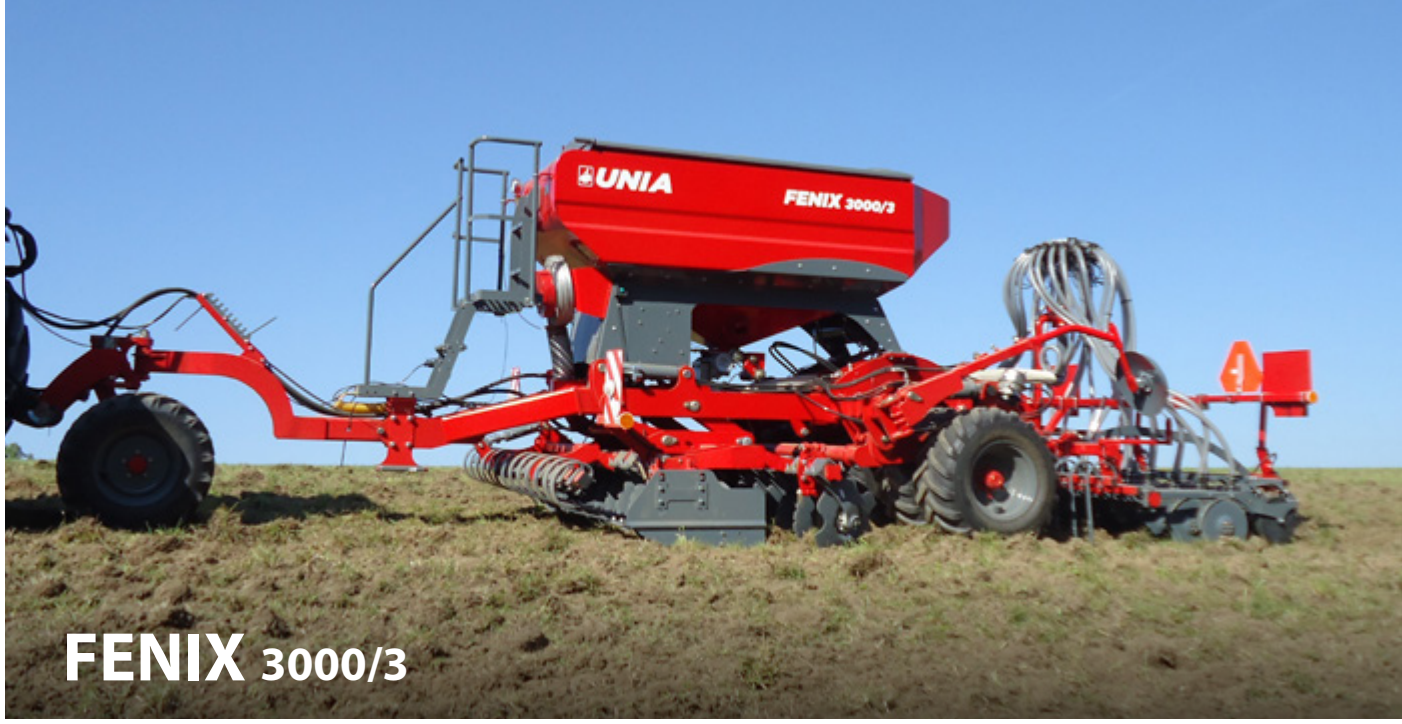
» **Precise dosing**
Universal FX seeding apparatus for fine and coarse seed, allowing seeding from 1.5 to 400 kg/ha.

» **High coulter pressure**
Massive 350 mm V-TECH coulter with individual pressure of up to 80 kgf ensures ideal seed-to-soil contact in all conditions.

» **Precise cultivation**
The 485 mm diameter cultivation discs thoroughly cultivate the soil, providing undercutting across the entire width of the machine.

» **Safe transport**
The stable transport system on four wide wheels makes it easy to transport the machine under difficult conditions.

» **Comfort of use**
An ISOBUS-compatible computer controls the seed drill and hydraulics, which allows, among other things, quick calibration of the seed and a change of application rate while driving.



FENIX 3000/3

» **Easy operation of hydraulics**
The extended hydraulic block ensures oil supply from just one pair of hydraulics. All adjustments of the machine are made using hydraulic cylinders.

» **Proper compaction after sowing**
The large 330×50 mm ground following wheels compact the soil after sowing and maintain the set working depth even on soils with different textures.

TECHNICAL SPECIFICATIONS

FENIX	3000/3	3000/4	3000/6	4000/6 duplo
Working width [m]	3	4	6	6
Seed hopper capacity [dm³]	3,000	3,000	3,000	4,000
Number of discs [pcs]	18/24	24/32	40	40
Weight [kg]	4,750–4,900	5,900–6,500	7,600–8,200	7,900–8,500
Power requirement [hp]	120–140	140–160	190–240	220–270

FS T DRIVE

MECHANICAL COMBINATION SEED DRILL

ADVANTAGES OF FS T DRIVE:

» **Proven seeding system**
FS seeding system – mechanical metering by means of a gearbox and pin seed sowing apparatus, while seed transport to the coulters is pneumatic.

» **High performance**
A large loading hopper with a capacity of 1,500 dm^3 guarantees good performance of the seed drill, reducing the number and time of loading.

» **Efficient fan**
The fan, driven by a hydraulic motor, can be powered directly by the tractor's hydraulics or by a pump applied to the tractor's PTO (independent hydraulics). The oil demand is 24 litres/minute.

» **Universal disc coulters**
The massive SHELL 300 mm alternating coulters with 25 kgf pressure or the V-TECH G 350 mm with 80 kgf pressure ensure ideal seed/soil contact even in difficult soil conditions.

» **Proper compaction before sowing**
Tyre roller with ø800 mm diameter guarantees high stability during operation and transport of the machine and ensures good strip compaction before sowing.

FS T DRIVE 1500/3

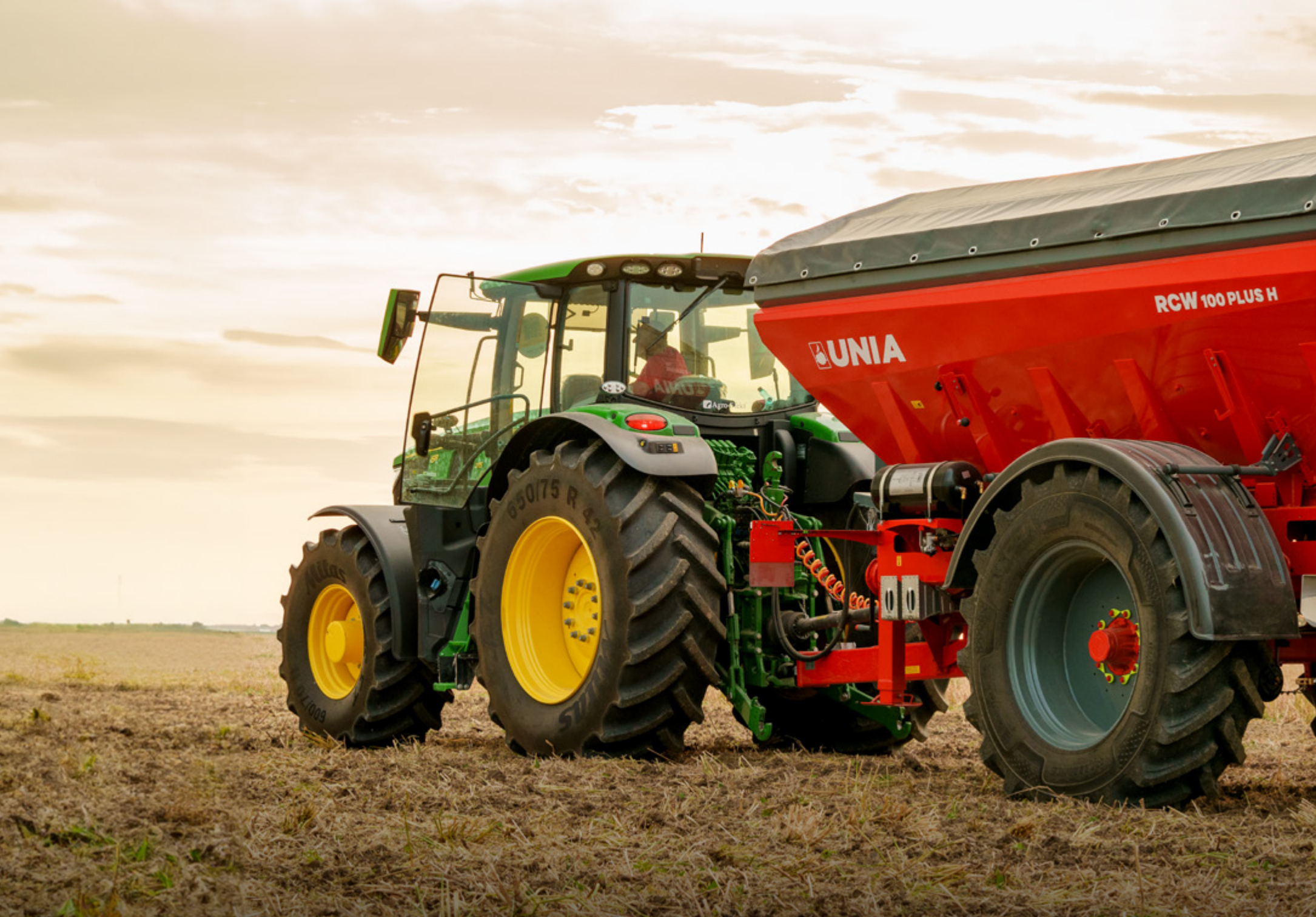
» **Precise ground following of the coulters**
The large 330×50 mm ground following wheels compact the soil after sowing and maintain the set depth, which is particularly important on mosaic soils.

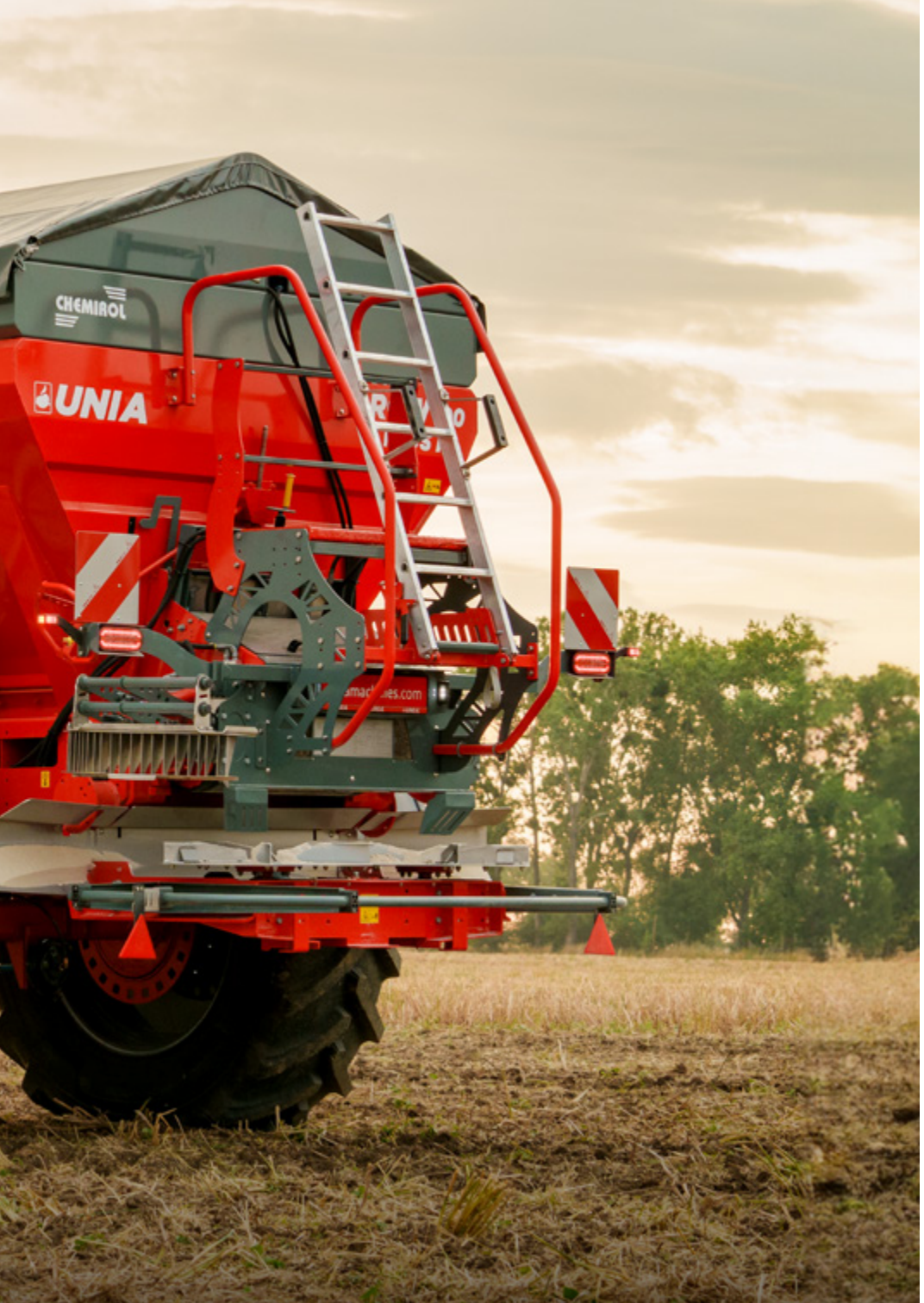
» **Precise preseeding cultivation**
The ø460 mm diameter cultivation discs, protected by rubber shock absorbers, thoroughly cultivate the soil, providing undercutting across the entire width of the machine.

» **Compaction between the tractor wheels**
The front hitch packer compacts the soil between the tractor wheels to level the soil surface before the cultivation section.

TECHNICAL SPECIFICATIONS

FS T DRIVE	1500/3	1500/3 PREMIUM
Working width [m]	3	3
Seed hopper capacity [dm^3]	1,500	1,500
Number of coulters [pcs]	24	20
Weight [kg]	2,850	3,050
Power requirement [hp]	100	120

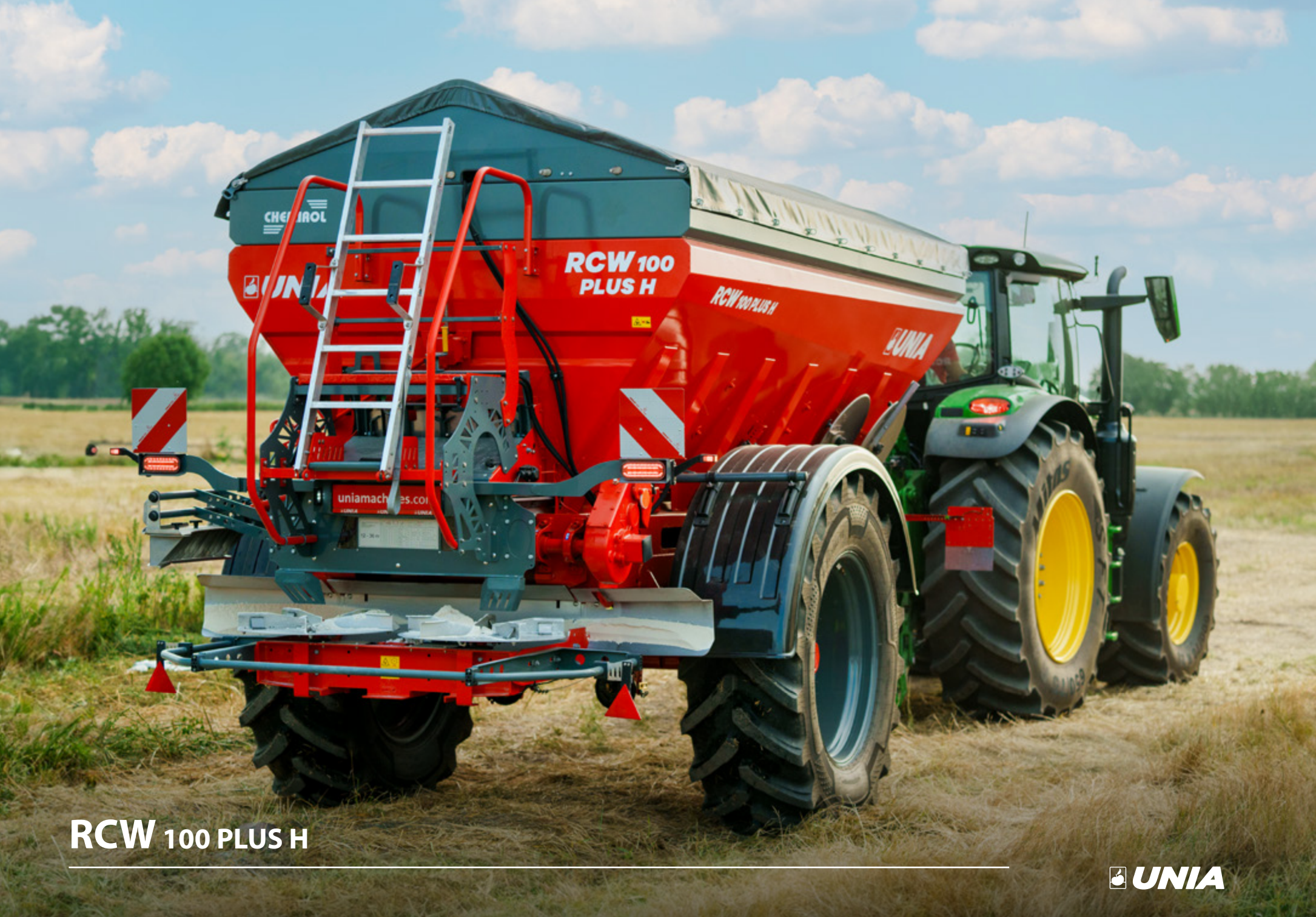

UNIA
RCW 100 PLUS H



UNIA

FERTILISATION TECHNOLOGY

Systems that provide dosage control and precise fertiliser application increase fertiliser efficiency and have a positive impact on plant health and yields. Unia spreaders and manure spreaders are an excellent example of the use of advanced precision farming systems. They ensure that plants receive the right amount of nutrients, resulting in increased yield and quality of the crop.



RCW 100 PLUS H

UNIA

RCW PLUS H

TRAILED SPREADER

ADVANTAGES OF RCW PLUS H:

» **Durability and high quality of work**
Thanks to the reinforced beam design and the steeper walls of the fertiliser hopper, which makes it easier for the material to fall onto the belt feeder.

» **Compatibility with ISOBUS**
Allows operation in precision farming standards (option).

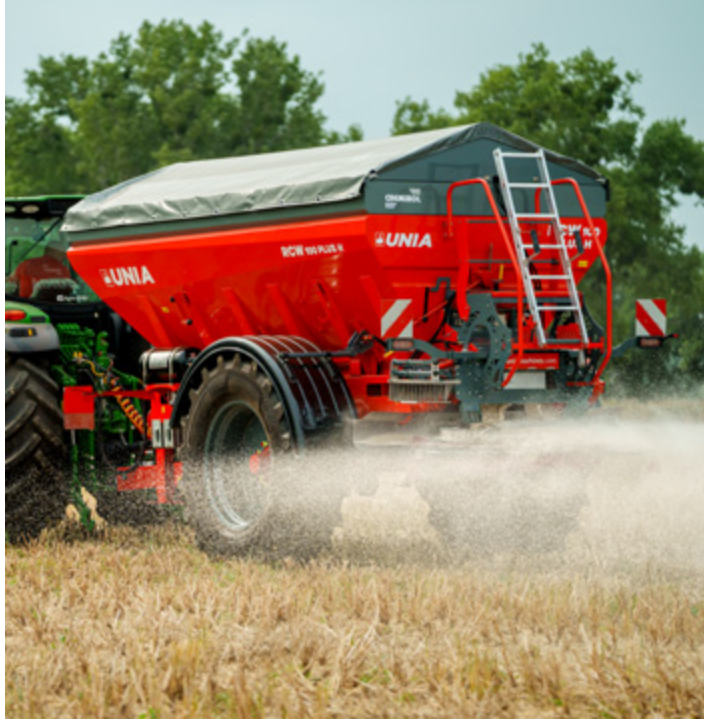
» **Universal application**
Allows application of both granular fertilisers and lime. With two, easily exchangeable sets of discs and chutes as standard.

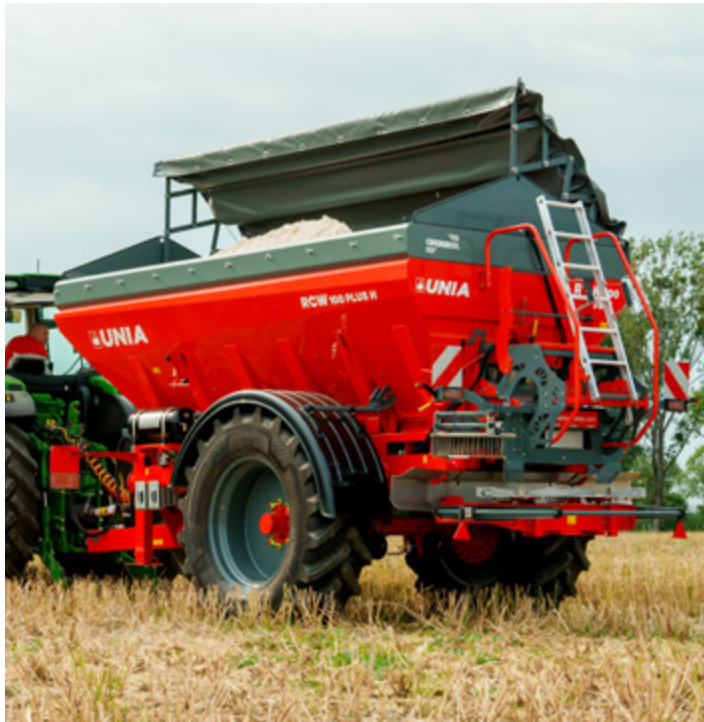
» **Working widths of up to 36 m**
Thanks to the placement of the spreading discs at a height of approx. 120 cm (depending on wheel size).

» **Facilitated fertiliser application at the field edge**
Thanks to a special edge spreader disc or a mechanically or hydraulically foldable limiter.

» **Constant application of the set rate independent of driving speed**
Thanks to the standard PILOT JOY controller.

» **Special sowing bar with a width of 9 m**
Optional HELIX system dedicated to the application of fertilisers in powdered form.





TECHNICAL SPECIFICATIONS

RCW		100 Plus H	120 Plus H
Hopper capacity [dm^3]		10,000	12,000
Working width [m]	Granulated fertilisers	10–36	10–36
	Lime	8–16	8–16
Height of discs from the ground [cm]		120	120
Weight [kg]		4,450	4,750
Standard tyres		580/70 R 38	650/75 R 32

RCW

FOR LIME AND GRANULATED FERTILISER

ADVANTAGES OF RCW:

» **Durability and high quality of work**
Thanks to the reinforced beam design and the steeper walls of the fertiliser hopper, which makes it easier for the material to fall onto the belt feeder.

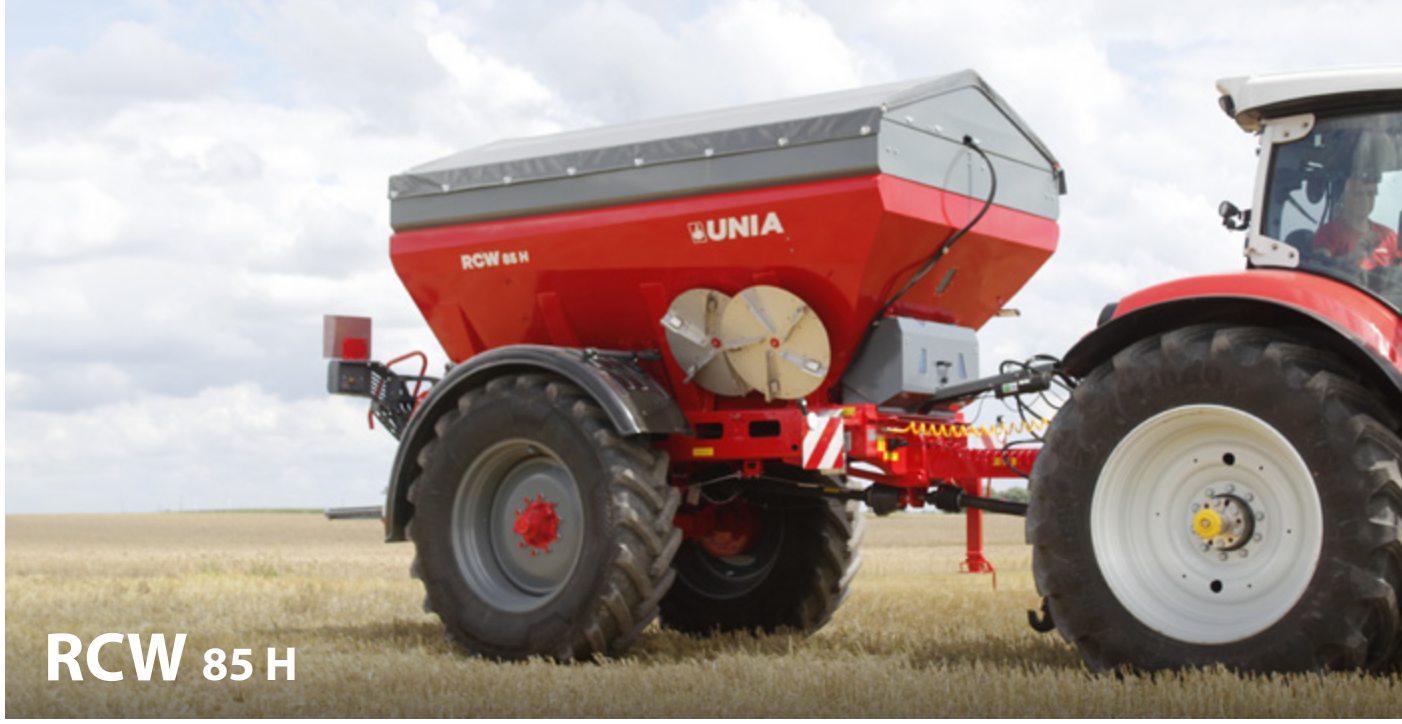
» **Proven solutions**
The machine uses a precise system for dosing fertiliser onto the discs by means of a belt conveyor.

» **Suitable for farms of all sizes**
Thanks to a large number of models that differ, for example, in hitching, chassis, or fertiliser hopper capacity (from 4,500 to 13,000 litres).

» **Possibility to choose the drive of the conveyor**
From spur wheel to hydraulic drive.

» **Versatility**
Allows application of both granular fertilisers and lime. With two, easily exchangeable sets of discs and chute as standard.

» **Safety of work**
Thanks to double-circuit brakes as standard.
The machine has **EU 167/2013 type-approval**.



RCW 85 H

» **Openwork beam construction**
Easier maintenance of the machine.

» **Reliable corrosion protection**
Both the discs and the seed sowing apparatus are made of stainless steel.

» **Compatibility with ISOBUS**
Allows operation in precision farming standards (option).

» **Impressive working widths**
Up to 36 m for pellets and 16m for lime.

TECHNICAL SPECIFICATIONS

RCW		45	60	85	90 TD	110 TD	130 TD	60 H	85 H
Hopper capacity [dm³]		4,500	6,000	8,500	9,000	11,000	13,000	6,000	8,500
Working width [m]	Granulated fertilisers	10–36	10–36	10–36	10–36	10–36	10–36	10–36	10–36
	Lime	8–16	8–16	8–16	8–16	8–16	8–16	8–16	8–16
Weight [kg]		2,430	2,840	3,120	4,200	4,400	5,600	3,230	3,630
Standard tyres		500/60–22.5	550/60–22.5	550/60–22.5	500/60–22.5	550/60–22.5	600/55–22.5	18.4 R 38	520/85 R 38

RCW HELIX

FOR POWDERED LIME

ADVANTAGES OF RCW HELIX:

» **Precise application of powdered lime without fear of wind drift**
Thanks to a special beam for powdered fertiliser (9 or 12 m).

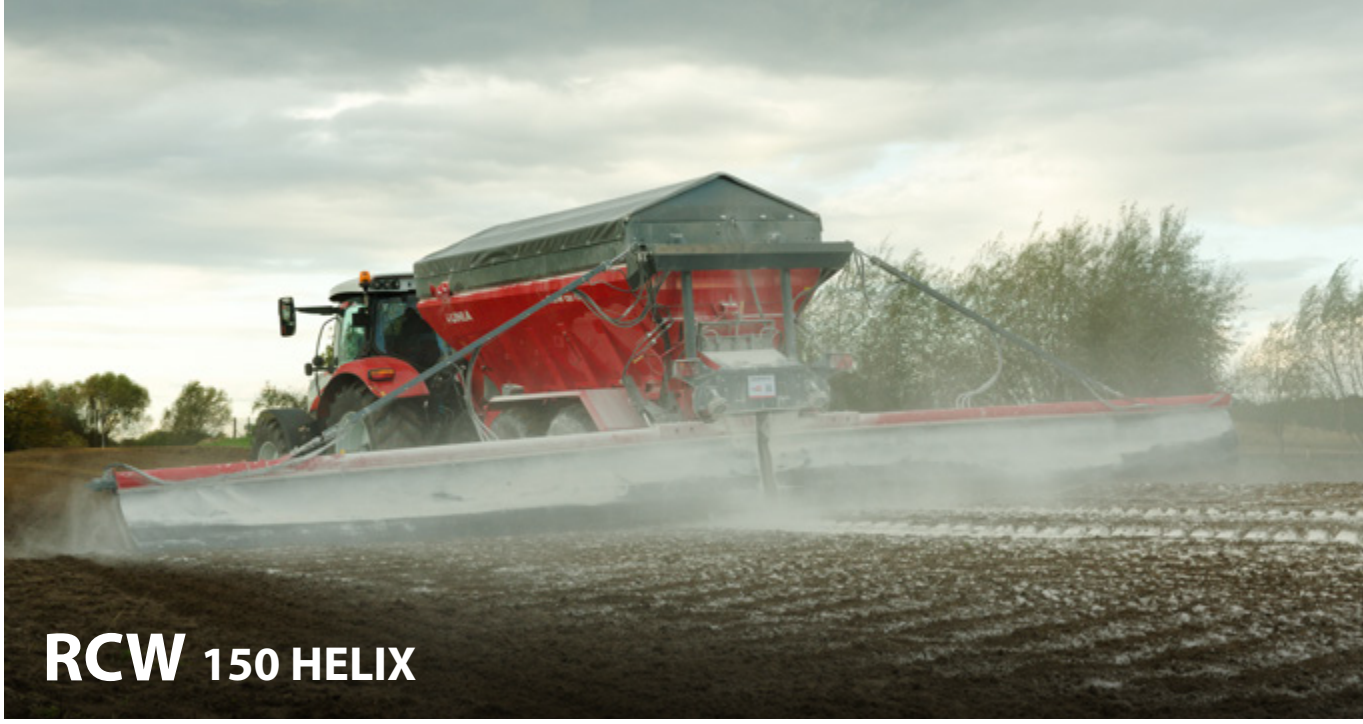
» **Durability and high quality of work**
Thanks to the reinforced beam design and the steeper walls of the fertiliser hopper, which makes it easier for the material to fall onto the belt feeder.

» **Operation of all hydraulic functions in one place**
Thanks to the SUPERIOR computer, which is responsible, among other things, for maintaining a constant seed rate.

» **Compatibility with ISOBUS**
Allows operation in precision farming standards (option).

» **Maintaining precise application rate**
Thanks to hydraulically driven components: floor conveyor and spreader beam.

» **Safety of work**
The machine has **EU 167/2013 type-approval**.



» **Efficient and comfortable manoeuvring of the machine**
Thanks to Boogie-type tandem suspension with rear steering axle. It makes it easier to pass very sharp corners.

» **Hydraulically controlled cut-offs (left/right) and the possibility of half-folding the beam**
Allow the working width to be halved to avoid overlaps.

» **Longitudinal leaf spring located in the drawbar line**
This reduces load on the tractor hitch, also on uneven ground.

» **Extensive standard equipment**
Drawbar support, lighting system, dual-circuit brake system, and hydraulically folded hopper cover.

TECHNICAL SPECIFICATIONS

RCW	150 HELIX
Hopper capacity [dm³]	15,000
Working width [m]	12
Power requirement [hp]	>200
Weight [kg]	7,100
Standard tyres	600/55–22.5

BYK

LOADER FOR BACK THREE-POINT HITCH

ADVANTAGES OF BYK:

» **Robustness**
Made with attention to standards.

» **Convenience and safety**
The loader is equipped with a certified hook.

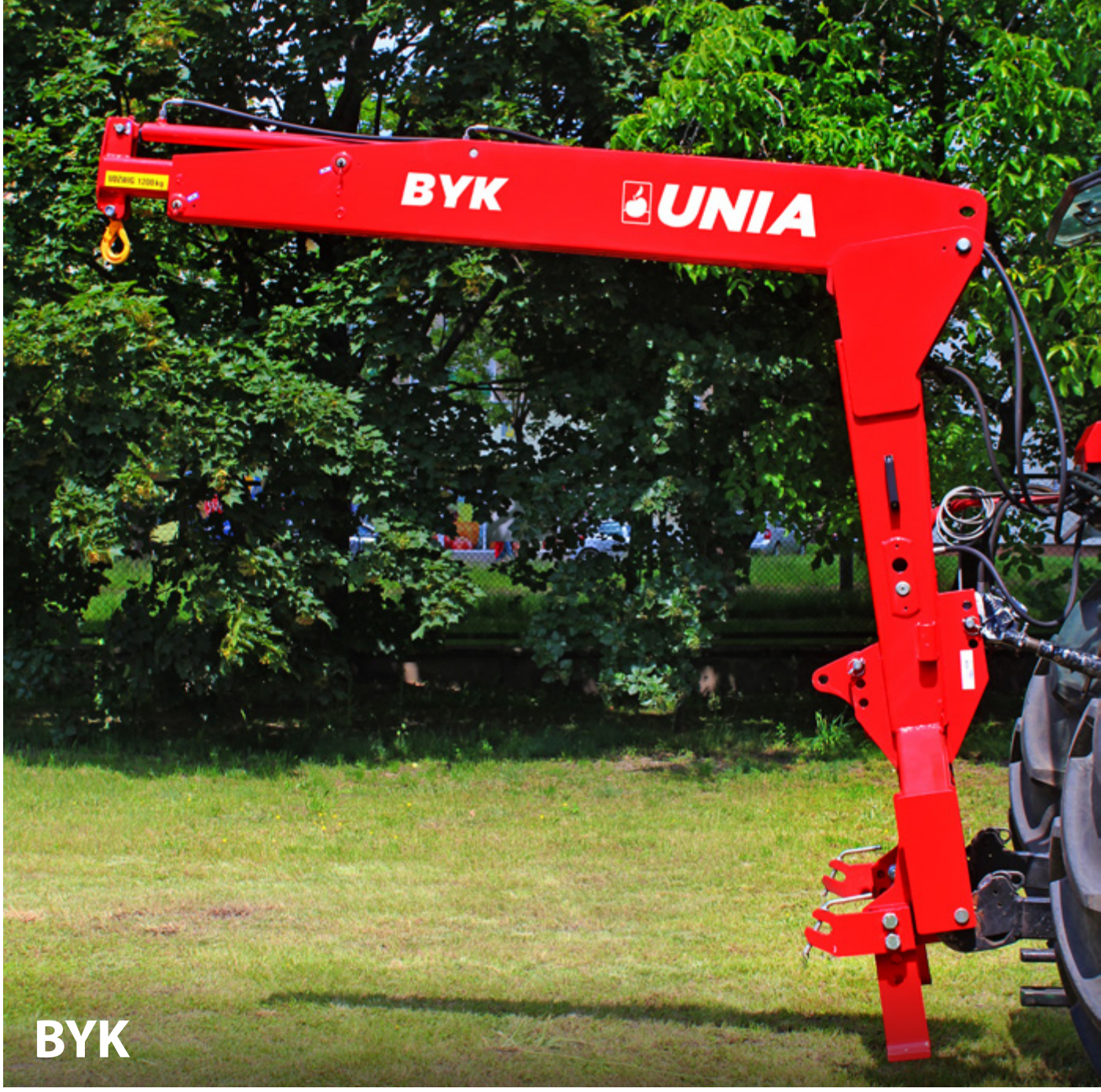
» **Telescopic jib**
Hydraulically controlled.

» **Simultaneous combination possible**
Can be combined with tractor
and spreader, or spreader chassis.

» **Low requirements**
The RBS hydraulic distributor allows the loader
to be operated with just one pair of hydraulic sockets.

TECHNICAL SPECIFICATIONS

MODEL	BYK
Max. load capacity [kg]	1,200
Max. lifting height when the tractor's three-point hitch arms are raised [m]	5.05
Range in horizontal position [m]	1.5–2.85
Weight [kg]	380



MX

MOUNTED FERTILISER SPREADER

ADVANTAGES OF MX:

» **LED road lighting**
Included as standard (not applicable to MX 850).

» **Edge spreading**
Possible by using a special disc or limiter fitted to the left or right side of the spreader.

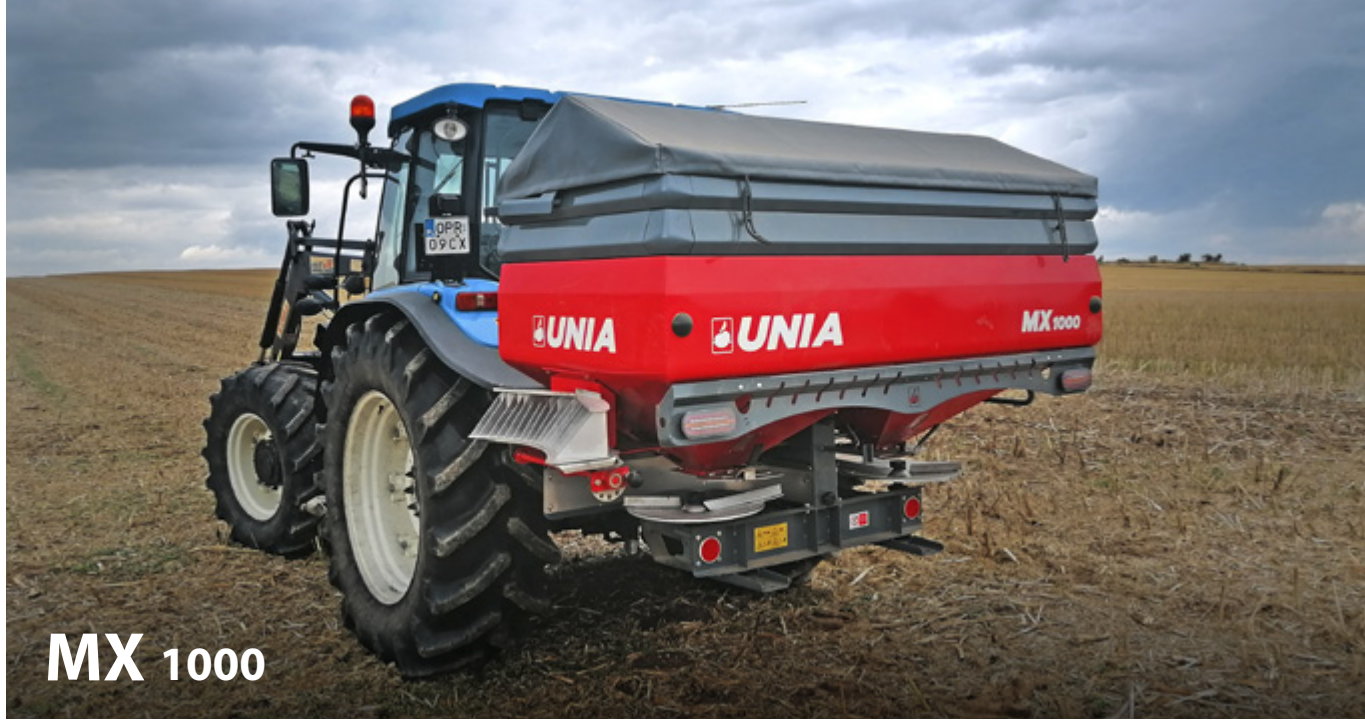
» **Stainless steel spreader discs**
Durability for many seasons.

» **Easy setting of the working width with adjustable blades**
It allows efficient adjustment of the operating parameters for each field.

» **Hopper sieves and agitators**
They enable the crumbling of clumped fertiliser and ensure smooth spreading.

» **Easy-to-read seeding rate chart**
Facilitates quick calibration of the spreader before use.

» **Simple adjustment of spreader settings**
Thanks to the easy accessibility of all key components.



MX 1000

» **Spreader tilt indicator**
Makes it easy to set up the machine for standard or additional spreading.

» **Wide range of hopper capacities**
From 850 to 3,000 litres, depending on the needs of the farm and the power of the tractor.

» **The seed sowing apparatus, discs, and blades made of stainless steel**
Long service life and simple adjustment of the working width and reduce set-up times to a minimum.

» **Up to 3 years guarantee**
For the entire paintwork (fertiliser hopper and frame).

TECHNICAL SPECIFICATIONS

MX	850	1000	2500
Hopper capacity [dm³]	850	1,000	2,500
Working width [m]	10–24	10–24	10–36
Loading dimensions [L/W/H] [m].	1.1 / 2.0 / 1.06	1.1 / 2.0 / 1.06	1.67 / 2.67 / 1.78
Weight [kg]	273	280	595


APOLLO 13 PREMIUM
UNIA
UNIA

APOLLO PREMIUM

THREE-AXLE SPREADERS

ADVANTAGES OF APOLLO PREMIUM:

» **Good load capacity and manoeuvrability**
Thanks to large wheels that provide less rolling resistance.

» **Tightness and comfort**
Thanks to the self-carrying structure hopper structure.

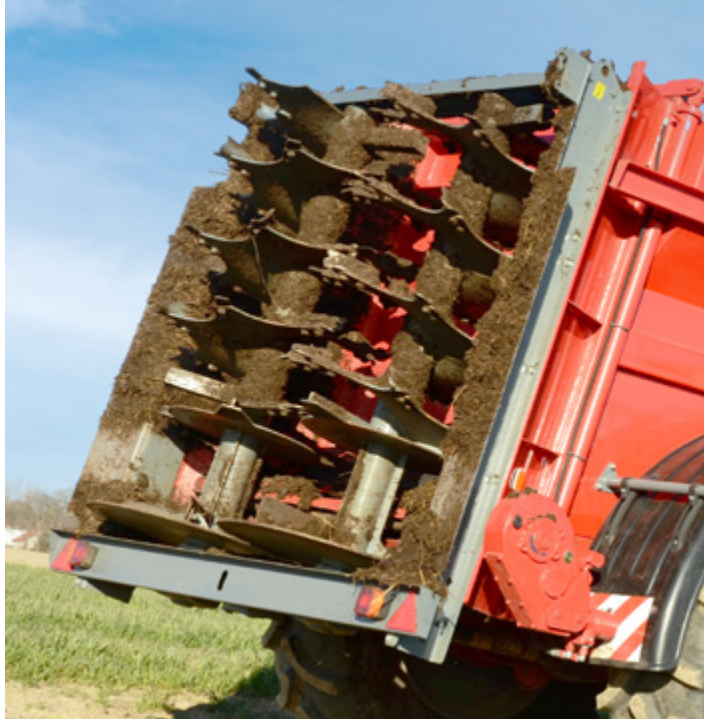
» **Mining grade conveyor chain links**
Durability and long service life thanks to ø14mm diameter.

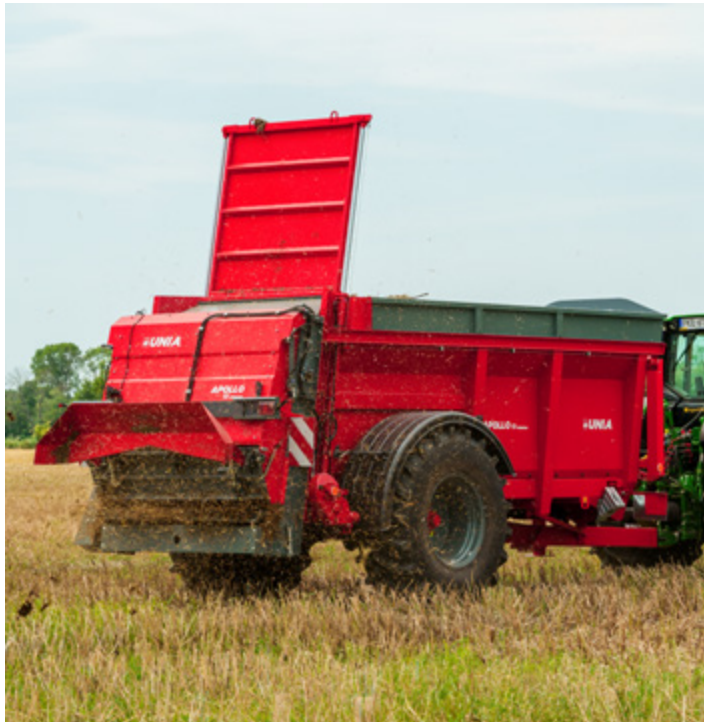
» **Large spreader wheels**
They protect the soil structure and make it easier to manoeuvre and pass even in difficult working conditions.

» **Reduced load on the tractor hitch**
Also on uneven ground. This is provided by a longitudinal leaf spring located in the drawbar line.

» **Various control options for the floor conveyor**
via a standard potentiometer or with one of the 3 optional controllers: Spread, Starter Spread, Starter Spread Pro, or SUPERIOR.

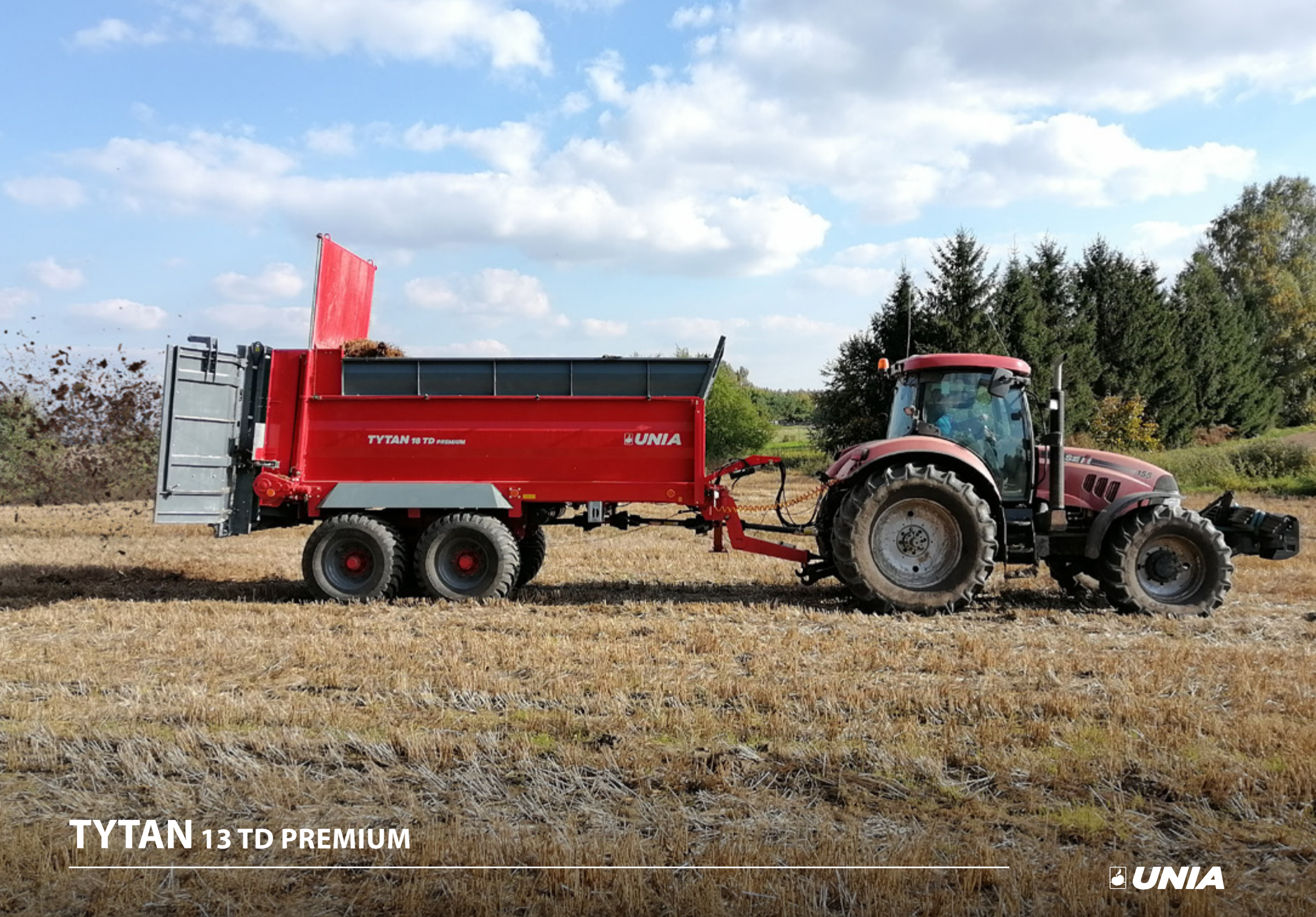
» **Compatibility with ISOBUS**
Allows operation in precision farming standards in APOLLO 11-16 PREMIUM models (option).





TECHNICAL SPECIFICATIONS

APOLLO PREMIUM		8	10	11	13	14	16
Load capacity [kg]	Nominal	6,500	8,000	9,000	10,000	11,000	13,000
	On the field	9,000	11,000	12,000	13,000	14,000	16,000
Adapter width [m]		1.8	1.8	2.0	2.0	2.0	2.0
PTO speed [rpm]		540	540	540	540	1,000	1,000
Working width [m]	Vertical 2-roller adapter	8–12	8–12	8–12	8–12	8–12	8–12
	Horizontal/Shredder adapter	12–24	12–24	12–24	12–24	12–24	12–24
Standard tyres		18.4–34	18.4–38	23.1 R 26	580/70 R 38	28.1 R 26	650/70 R 32



TYTAN 13 TD PREMIUM

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TYTAN TD PREMIUM

SPREADERS WITH TIGHT, SELF-CARRYING HOPPER

ADVANTAGES OF TYTAN TD PREMIUM:

» **Hopper tailgate as standard**
It separates the hopper from the adaptor so that the weight does not push against the rollers when starting the spreader.

» **Tightness and comfort**
Thanks to the self-carrying structure hopper structure.

» **Convenient control**
The floor conveyor speed can be controlled either by means of a potentiometer (standard) or the Starter Spread/Starter Spread Pro controller (optional).

» **Minimum soil compaction**
Thanks to the tandem driving system which ensures that the weight is properly distributed over the soil surface.

» **Smooth ride even on difficult terrain**
Thanks to spring-loaded axle suspension.

» **Smooth transport of material towards the adapter**
thanks to a four-chain floor conveyor (ø11mm links). Hydraulically controlled.

TECHNICAL SPECIFICATIONS

TYTAN TD PREMIUM		8	10	11	13	18
Load capacity [kg]	Nominal	6,500	8,000	9,000	10,000	14,000
	On the field	9,000	11,000	12,000	13,000	16,000
Adapter width [m]		1.8	1.8	2.0	2.0	2.0
PTO speed [rpm]		540	540	540	540	540
Working width [m]	Vertical 4-roller adapter	4–6	4–6	—	—	—
	Vertical 2-roller adapter	8–12	8–12	8–12	8–12	8–12
	Horizontal/Shredder adapter	—	—	12–24	12–24	12–24
Standard tyres		400/60–15.5	500/50–17	400/60–22.5	500/60–22.5	550/60–22.5

TYTAN 20/24

EFFICIENT AND ROBUST

ADVANTAGES OF TYTAN:

» **Robust and reliable construction**
A capacious box, robust drawbar with shock absorber, and tandem suspension with rear steering axle ensure ultimate durability.

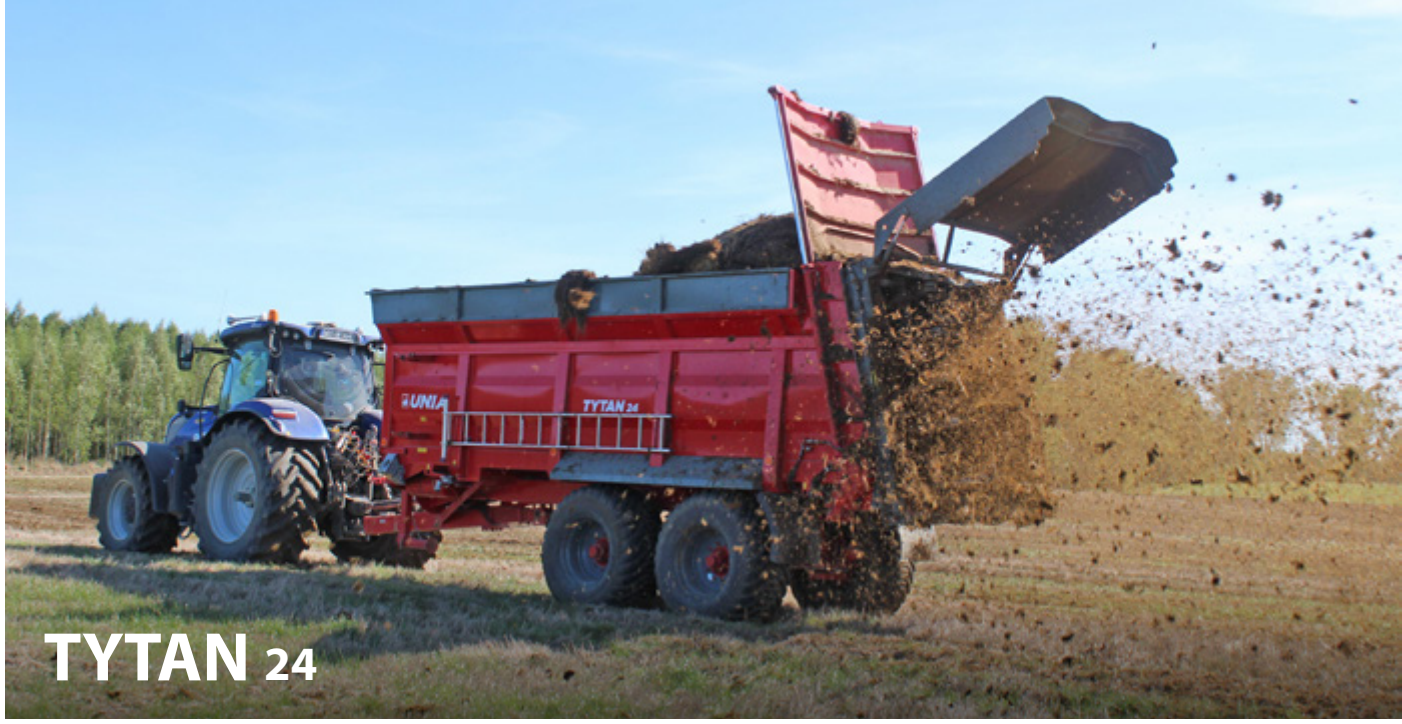
» **Conveyor for special tasks**
Consisting of four mining-grade chains with 14 mm thick links and robust slats to carry even the heaviest materials.

» **Wide range of adapters**
Versatile use of the machine, both in the application of manure and other materials: lime, compost, peat, sludge, or manure.

» **Precision farming**
Capable of interfacing with ISOBUS, GPS, and map applications (VRC).

» **Minimum soil compaction**
Thanks to large wheel contact area.

» **Comfort and safety at work and during transport**
Thanks to the longitudinal leaf spring located in the drawbar line.



» **Axles with follow-up control**
Allow the back wheels of the spreader to turn in line with the tractor's direction of travel when cornering.

» **Good weight distribution**
Through the use of two-axle leaf suspension. This optimises the drawbar pressure on the hitch.

» **Simplified operator work**
Thanks to the convenient, stepless, and adjustable floor conveyor.

» **Four-chain conveyor (2 pairs) with ø14mm diameter links**
It ensures durability and a long service life.

TECHNICAL SPECIFICATIONS

TYTAN		20	24
Load capacity [kg]	Nominal	14,000	18,000
	On the field	16,000	20,000
Adapter width [m]		2.0	2.0
PTO speed [rpm]		1,000	1,000
Working width [m]	Vertical 2-roller adapter	8–12	8–12
	Horizontal/Shredder adapter	12–24	12–24
Standard tyres		550/60–22.5	600/55–26.5

TYTAN 30/36

THREE-AXLE SPREADERS

ADVANTAGES OF TYTAN:

» **Good weight distribution of the machine**
Through the use of a three-axle chassis.
This reduces the drawbar pressure on the hitch and allows the use of capacious hoppers.

» **Impressive loading capacity**
It can be as much as 24 t. The spreader is ideal for large-scale farms.

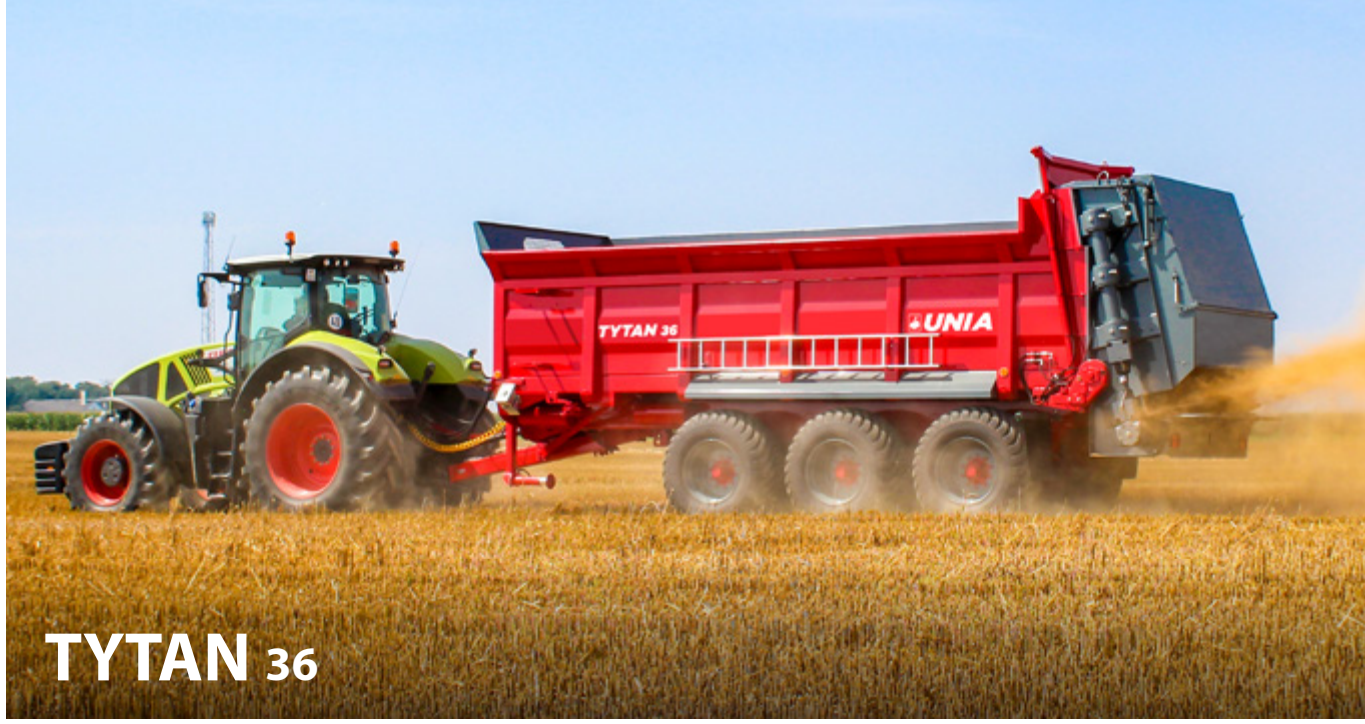
» **Safe and trouble-free operation**
Safe and trouble-free operation thanks to the tight, tubular body construction, and robust chassis.

» **Working and transport comfort**
Thanks to the longitudinal leaf spring located in the drawbar line, which provides excellent vibration damping.

» **Special gearbox for heavy loads**
Operated by a hydraulic floor conveyor drive.

» **Compatibility with ISOBUS**
Allows operation in precision farming standards (option).

» **High quality, long service life**
By making the key working elements of the adapter from the highest quality high-strength steel.



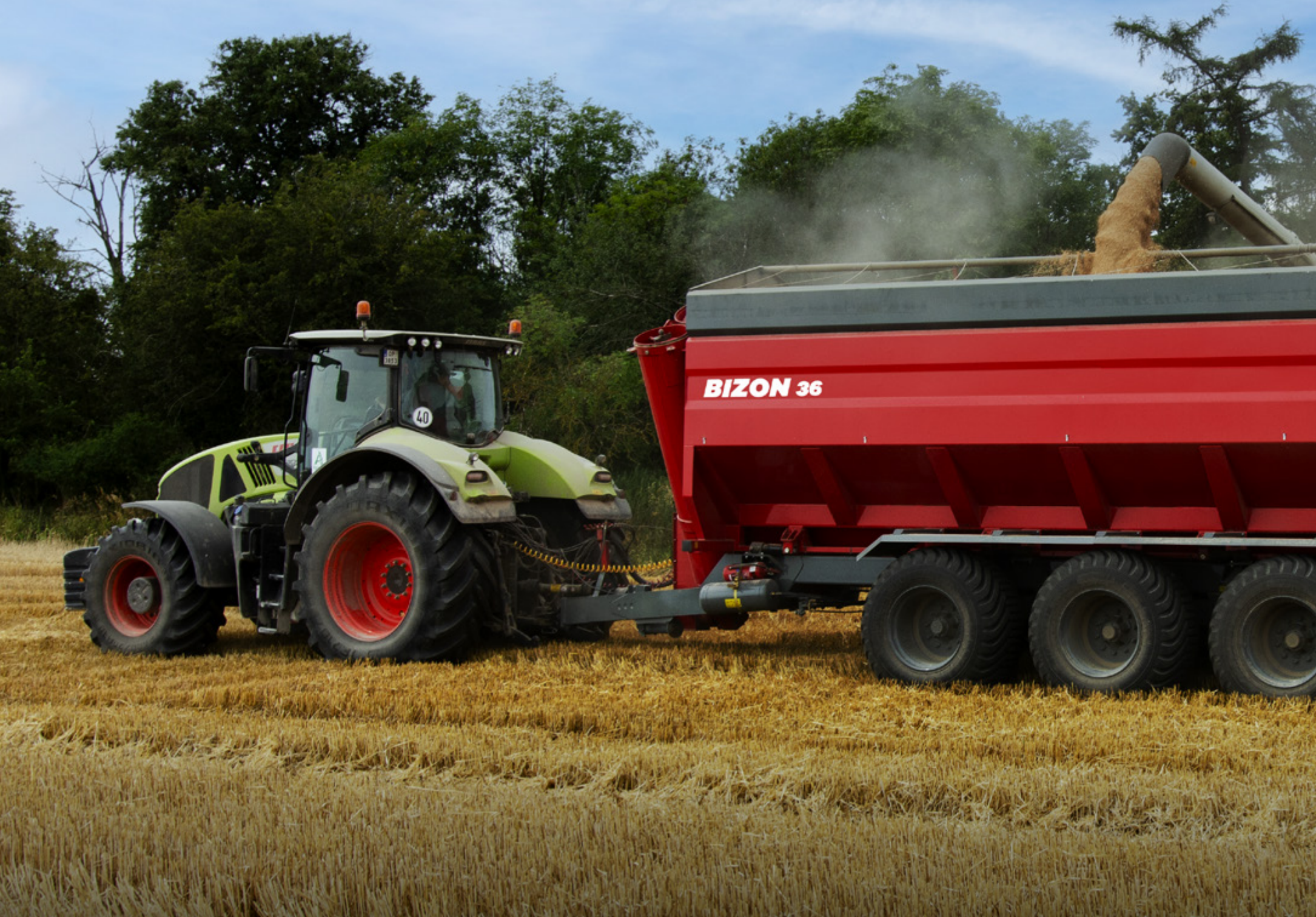
TYTAN 36

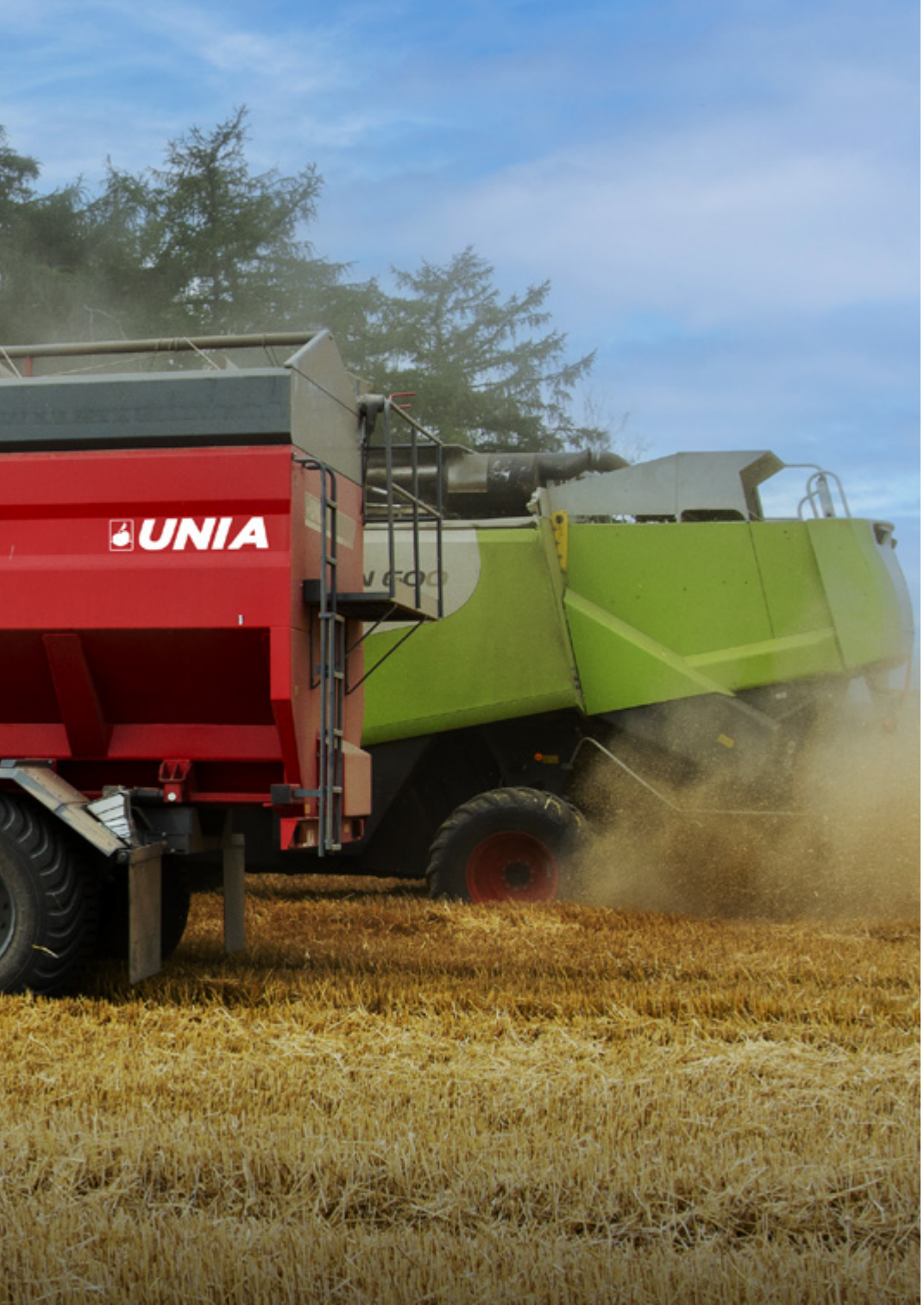
» **Large number of options**
The spreader can be equipped with one of three optional controllers and with different types of adapter: 2-roller vertical, 2-roller horizontal (TYTAN 30), 3-roller horizontal (TYTAN 36), shredder, or with capacity attachment.

» **Extensive standard equipment**
Hydraulic tailgate, rear adapter cover, air brake system, road lights, drawbar support.

TECHNICAL SPECIFICATIONS

TYTAN		30	36
Load capacity [kg]	Nominal	20,000	22,000
	On the field	22,000	24,000
Adapter width [m]		2.0	2.25
PTO speed [rpm]		1,000	1,000
Working width [m]	Vertical 2-roller adapter	8–12	8–12
	Horizontal/Shredder adapter	12–24	12–24
Standard tyres		550/60–22.5	600/55–26.5


BIZON 36



UNIA

TRANSPORT TECHNOLOGY

Reliable solutions for transporting machinery, crops and other agricultural materials. The weighing system used on the trailers ensures that the amount of material being transported is controlled. Thanks to the hydraulically lowered floor in the transport platform, loading is easier and safer. With our solutions, farmers can manage logistics efficiently, saving time and resources while keeping their materials and machinery safe.

PL 6

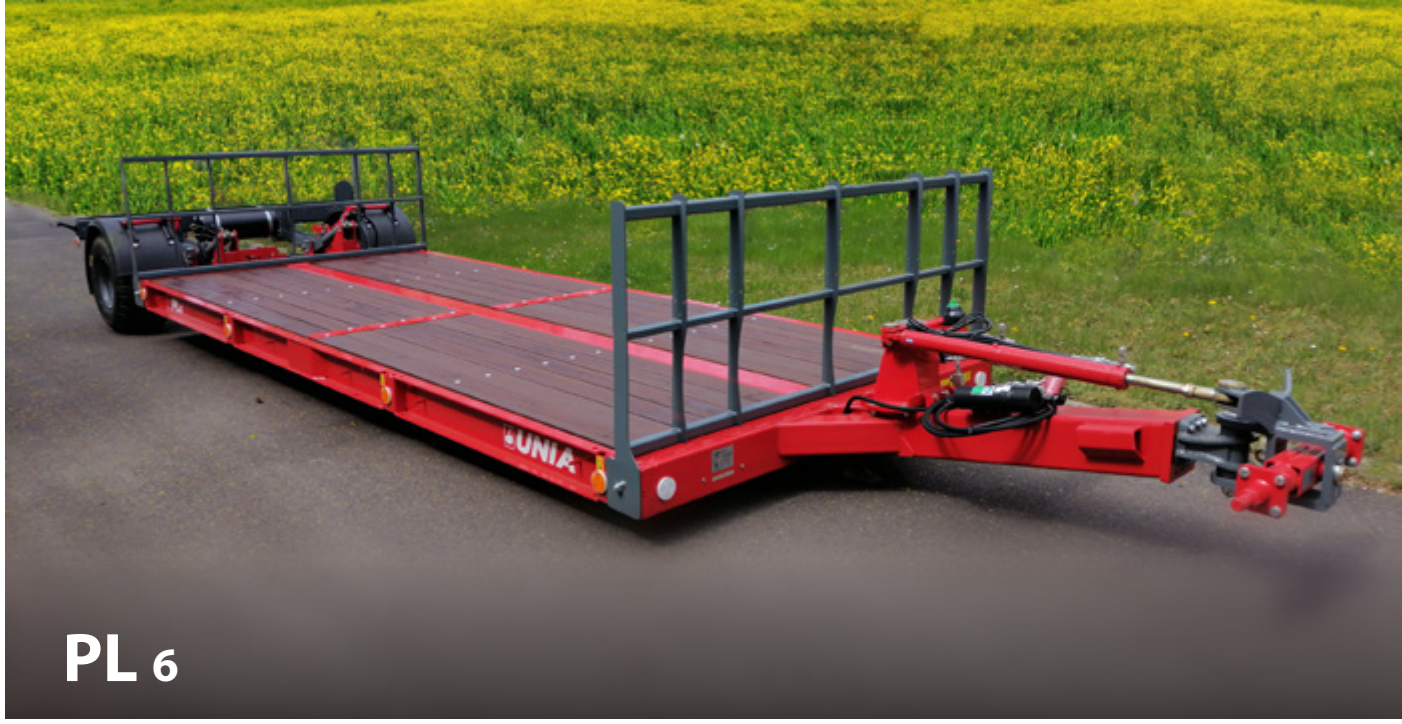
UNIVERSAL TRANSPORT PLATFORM

ADVANTAGES OF PL 6:

» **Easy loading of machinery and other materials**
Thanks to the floor that is hydraulically lowered to the ground level.

» **Two axle version available**
Rigid or steering axle.

» **Easy manoeuvrability**
Movable hitch on a Category II or III beam reduces the turning radius.



TECHNICAL SPECIFICATIONS

PL 6		rigid axle	steering axle
Load capacity [kg]		6,200	6,100
Weight [kg]		2,060	2,160
Total length [mm]		9,000	9,000
Width of loading area [mm]	standard	2,400	2,400
	with extension	2,900	2,900
Standard tyres		400/60–15.5	400/60–15.5

BIZON

TRANSPORT TRAILER

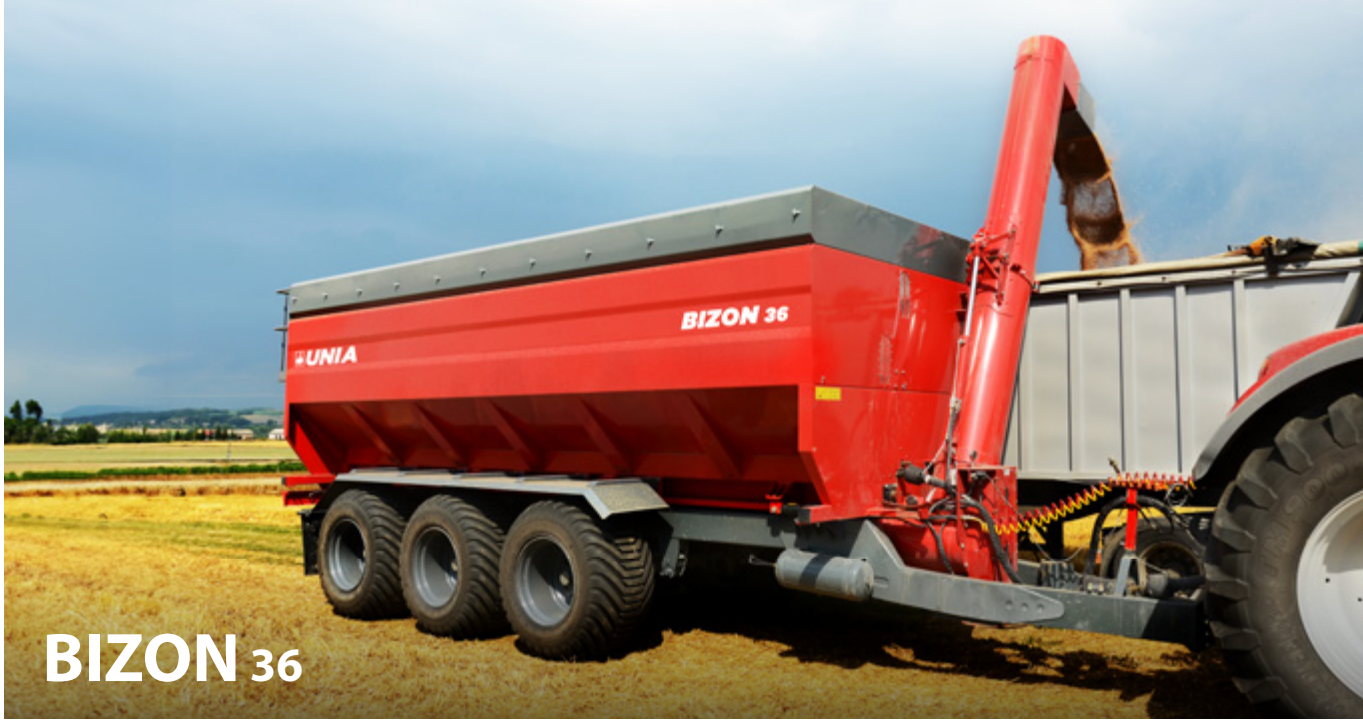
ADVANTAGES OF BIZON:

» **Comfortable handling and soil protection**
Thanks to the three-axle chassis,
spring system, and wide tyres.

» **Design to prevent grain accumulation**
Thanks to sliders on the bottom of the box
and a conveyor inspection window that helps
discharge the trailer to the last grain.

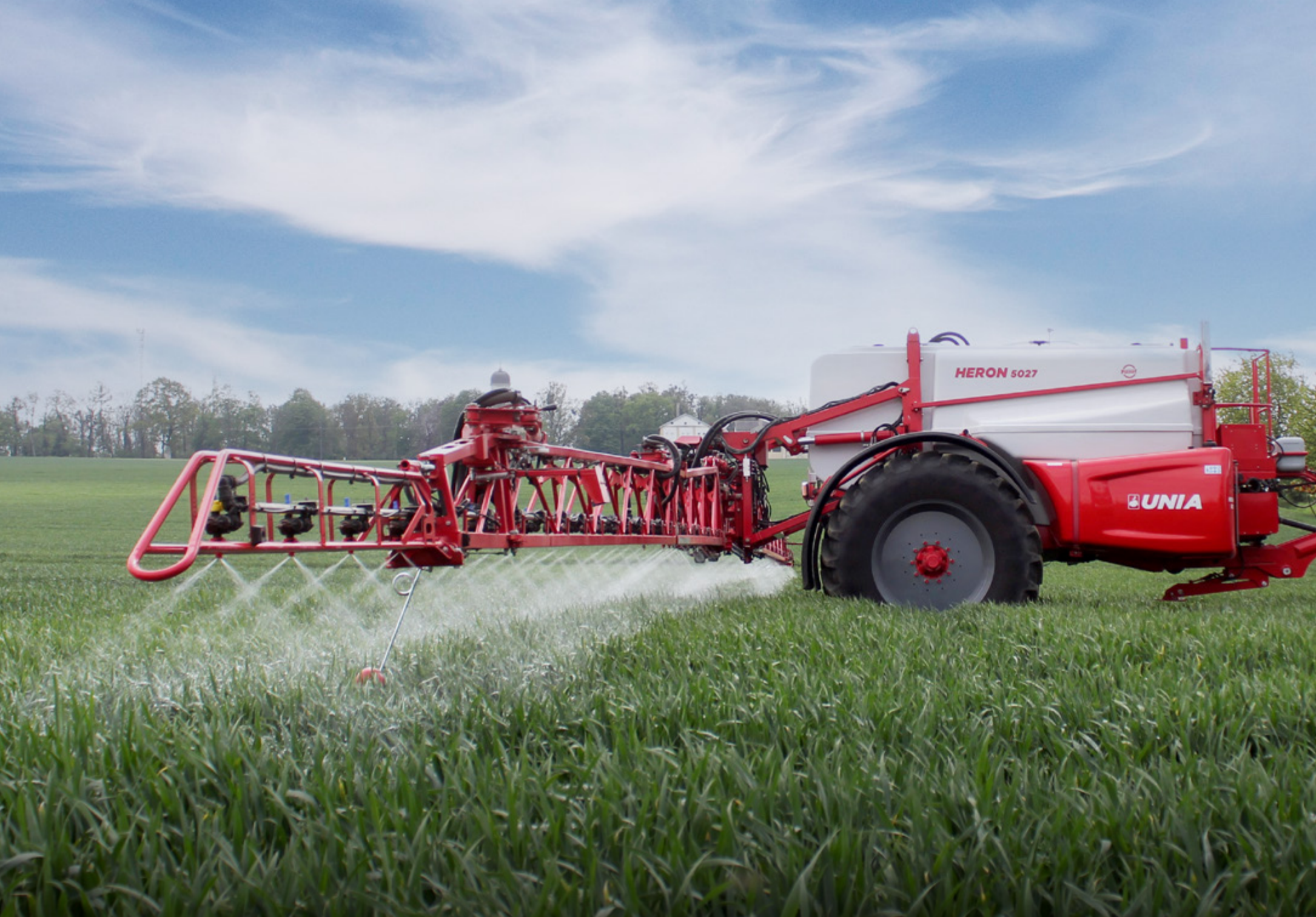
» **Controlling the quantity of transported material**
Thanks to a weighing system based
on eight weight sensors.

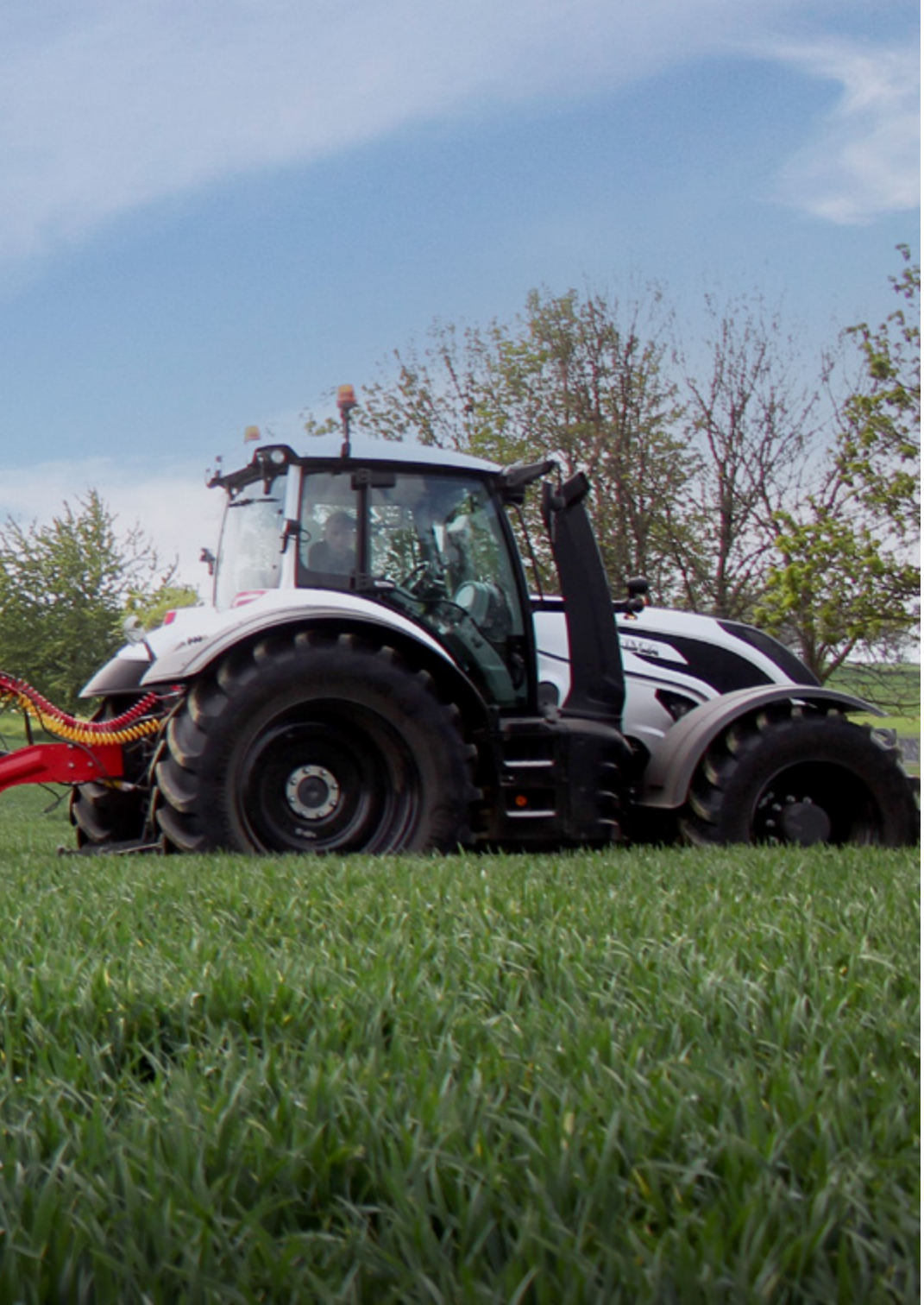
» **High discharge capacity**
Thanks to the use of two screw conveyors in the bottom
of the box and a discharge conveyor with a diameter
of ø500 mm. The achieved capacity is 500 t/h.



TECHNICAL SPECIFICATIONS

BIZON	19	25	36
Load capacity [t]	13	19	25
Tank capacity [m^3]	19	28	36

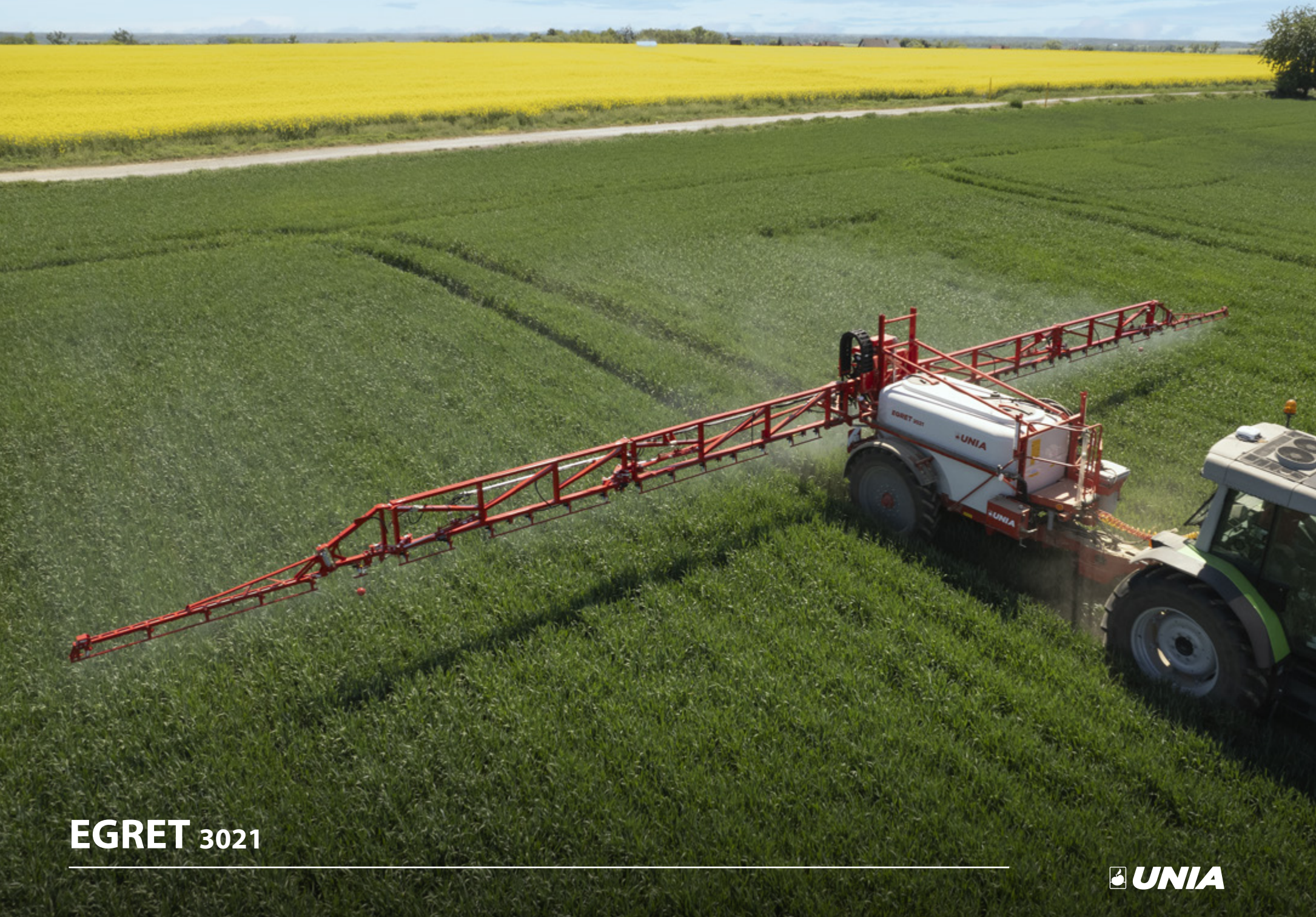

HERON 5027
UNIA



UNIA

PLANT PROTECTION TECHNOLOGY

Owing to the precision applicators and advanced metering systems of our sprayers, farmers can achieve exceptional efficiency and productivity in crop cultivation. Our innovations help to protect the environment and minimise the use of crop protection products, while providing optimum protection.



EGRET 3021

UNIA

EGRET

TRAILED SPRAYERS

ADVANTAGES OF EGRET:

» **Robust and compact design; the beam folds horizontally to the ground**
With no protruding parts, the sprayer ensures safety during journeys and is also easier to store.

» **Large capacity spray liquid tank**
Made of polyester, with two breakwaters to limit the movement of the liquid (capacities: 2 000 l, 2 500 l i 3 000 l).

» **Versatile use of the machine in a variety of crops**
With an adjustable wheelbase (1.50 – 1.80 m) and various wheel size options to choose from.

» **Option to equip the sprayer with a precision farming package**
Parallel driving and automatic section control (optional).

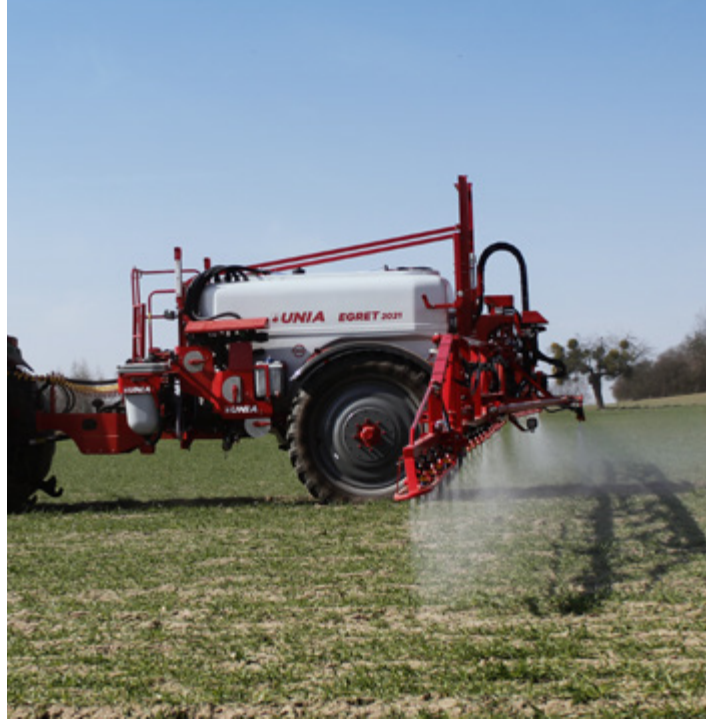
» **Headland losses are reduced**
The tracking drawbar allows the sprayer to follow the tractor's wheel tracks.

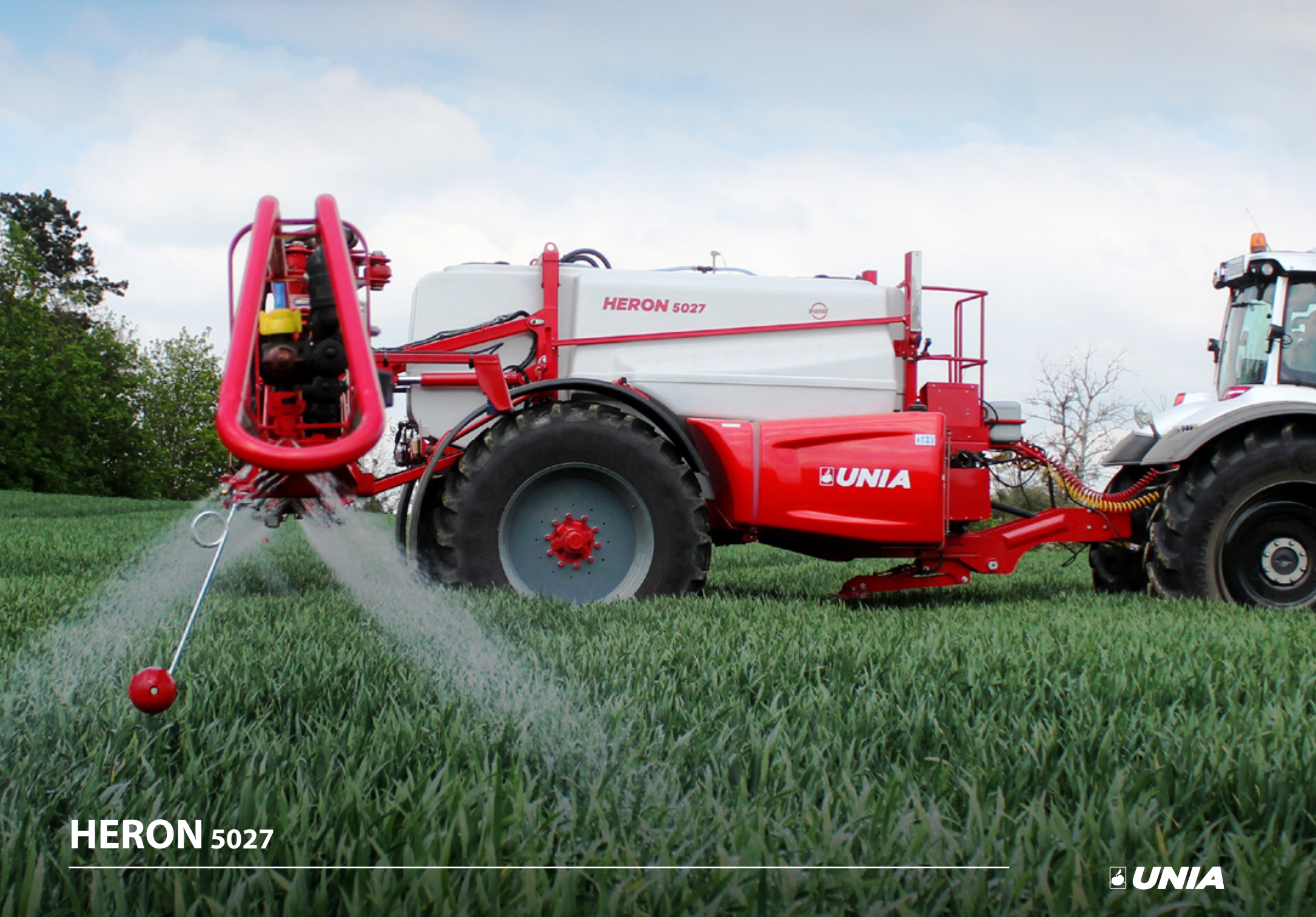
» **Stable independent boom as standard**
Pendulum stabilisation with shock absorbers that effectively absorb any vibrations and unwanted beam movements during operation.
It is possible to unfold only one side of the boom (left/right), or to reduce the working width of the boom from 21 to 15 m or from 20 to 16 m.

» **Convenient operation of the liquid system from the tractor cab**
Thanks to the SPRAY controller, which comes as standard, the preset application rate can be maintained independently of forward speed and allows all the sprayer's hydraulic functions to be operated (RADION computer available as an option).

TECHNICAL SPECIFICATIONS

MODEL	EGRET
Hopper capacity [l]	2,000 / 2,500 / 3,000
Working width [m]	18 / 20 / 21
Number of sections	5–9
Beam lifting range [m]	0.5–2.3
Pump [capacity]	ZETA 260 [260 l/min.]





HERON 5027

UNIA

HERON

TRAILED SPRAYERS

ADVANTAGES OF HERON:

» **Large sprayers dedicated to larger farms**
Available in 4,200 l and 5,000 l capacities, the models are made of polyester, with breakwaters to limit liquid movement inside the tank.

» **Reduced vibrations and unwanted boom movements**
Hydraulically controlled, independent boom with spatial design, protected by pendulum stabilisation with shock absorbers.

» **Compact sprayer body**
Provides safe passage under low-hanging tree branches.

» **Conveniently located control valves**
Concealed under a hinged cover that protects them from contamination during spraying in difficult field conditions.

» **A range of optional equipment options to choose from**
Solutions and systems, such as navigation with automatic section control, V-SYSTEM, DYSTANS CONTROL, EDS (where each head is a separate working section), or an autonomous hydraulic system.

» **Individual selection of the driving axle**
Rigid with adjustable wheelbase (1.80 – 2.25 m), or steering axle (2.00 or 2.25 m).

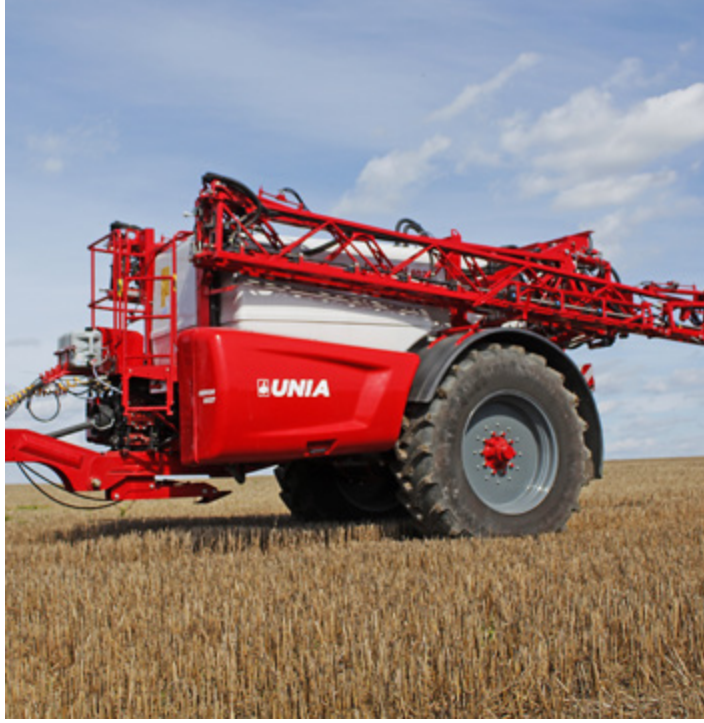
» **Extensive standard equipment**
It includes, among other things, RADION controller, pneumatic axle suspension, LED boom lighting, and powerful 60 l diluter to ensure safe application of crop protection agents.

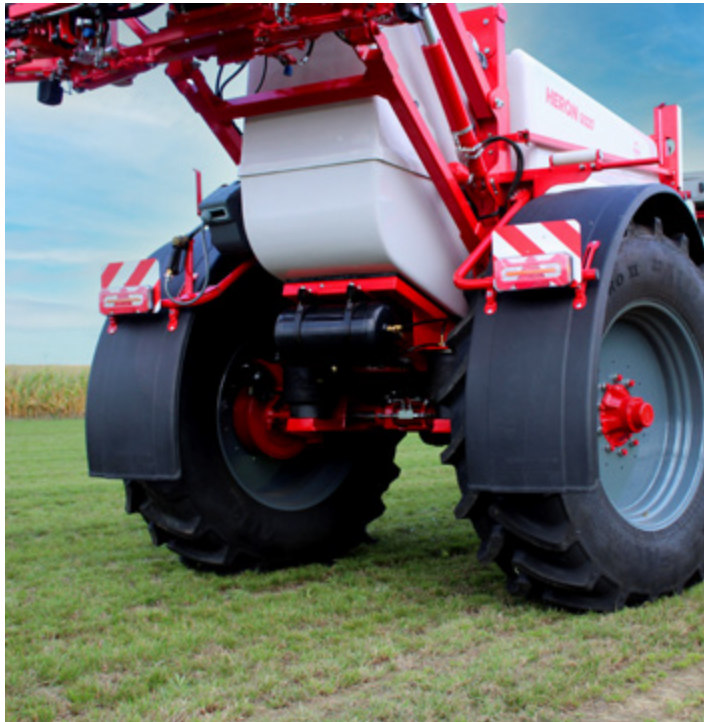
» **Precision farming systems**
The sprayer can be retrofitted with ISOBUS control combined with GPS navigation.

» **Dedicated liquid system systems**
It can be expanded to include: Dyna-Jet, EDS, V-System, or fluid circulation.

TECHNICAL SPECIFICATIONS

MODEL	HERON
Hopper capacity [l]	4,200 / 5,000
Working width [m]	21 / 24 / 27 / 28 / 30
Number of sections	5–13
Beam lifting range [m]	0.5–2.3
Pump [capacity]	POLY 2300 [300 l/min.]





TOP

FRONT TANK

ADVANTAGES OF TOP:

» **Streamlined transport**
The two front position lamps have direction indicators. The tank also has a set of transport wheels for rolling.

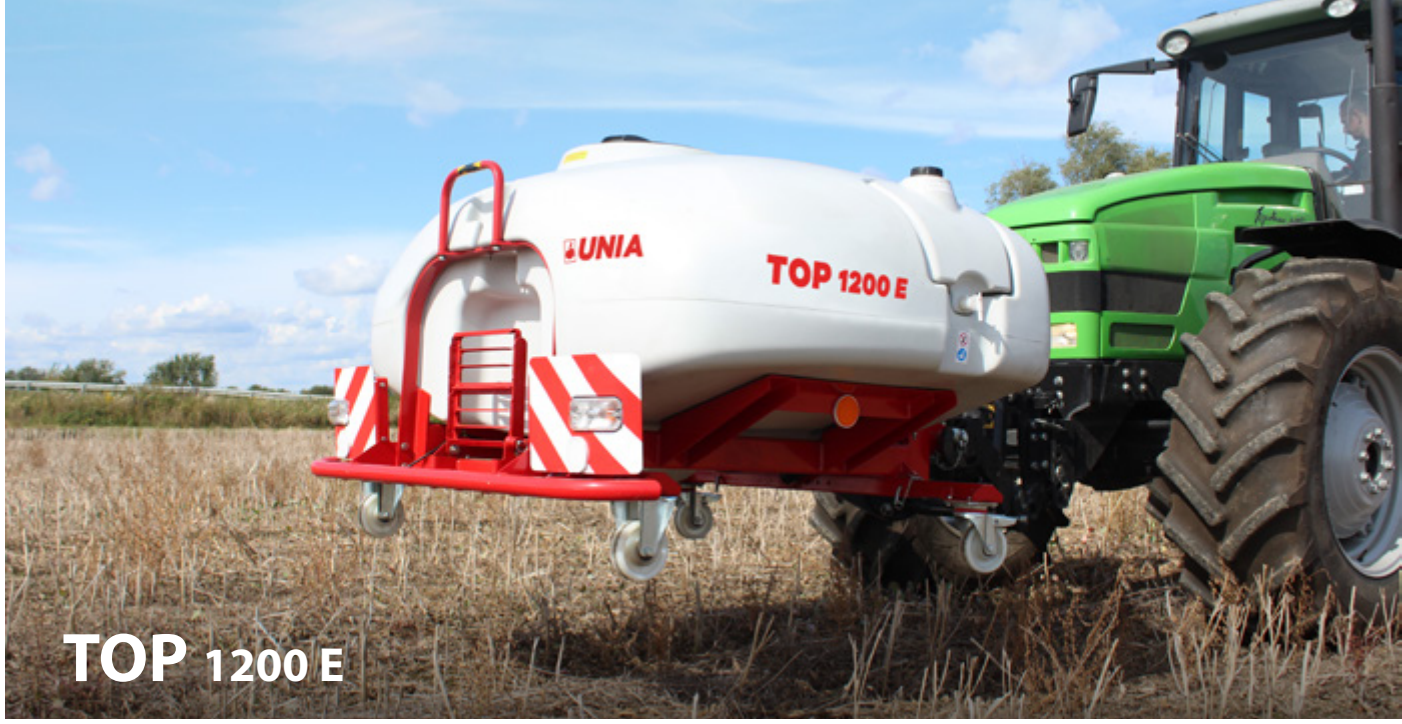
» **Universal application**
Possibility of combination with various sprayers, also from other manufacturers.

» **Two pumps with different capacities available**
H LUX version: 85 l/min., E LUX version: 19 l/min.

» **Two rotary washers in H LUX version**
For cleaning the inside of the tank after work.

» **Robust tank**
Made of polyethylene with a capacity of 1,350 litres. Fitted with a suction filter.

» **Health and safety at work**
The hand-washing water tank has a capacity of 25 l.



TECHNICAL SPECIFICATIONS

TOP	1200 E REX	1200 E LUX	1200 H REX	1200 H LUX	1200 H
Hopper capacity [l]	1,350	1,350	1,350	1,350	1,350
Control	electrical – 3-pin, 12 V power socket		hydraulic – 1 pair of hoses		
Pump	19 l/min.	19 l/min.	ZETA 85 [85 l/min.]	ZETA 85 [85 l/min.]	ZETA 85 [85 l/min.]
Transport dimensions (L/W/H) [m]	1.8 / 2.1 / 1.3	1.8 / 2.1 / 1.3	1.8 / 2.1 / 1.4	1.8 / 2.1 / 1.4	1.8 / 2.1 / 1.3
Weight [kg]	285	285	320	320	300

LUX

MOUNTED SPRAYERS

ADVANTAGES OF LUX:

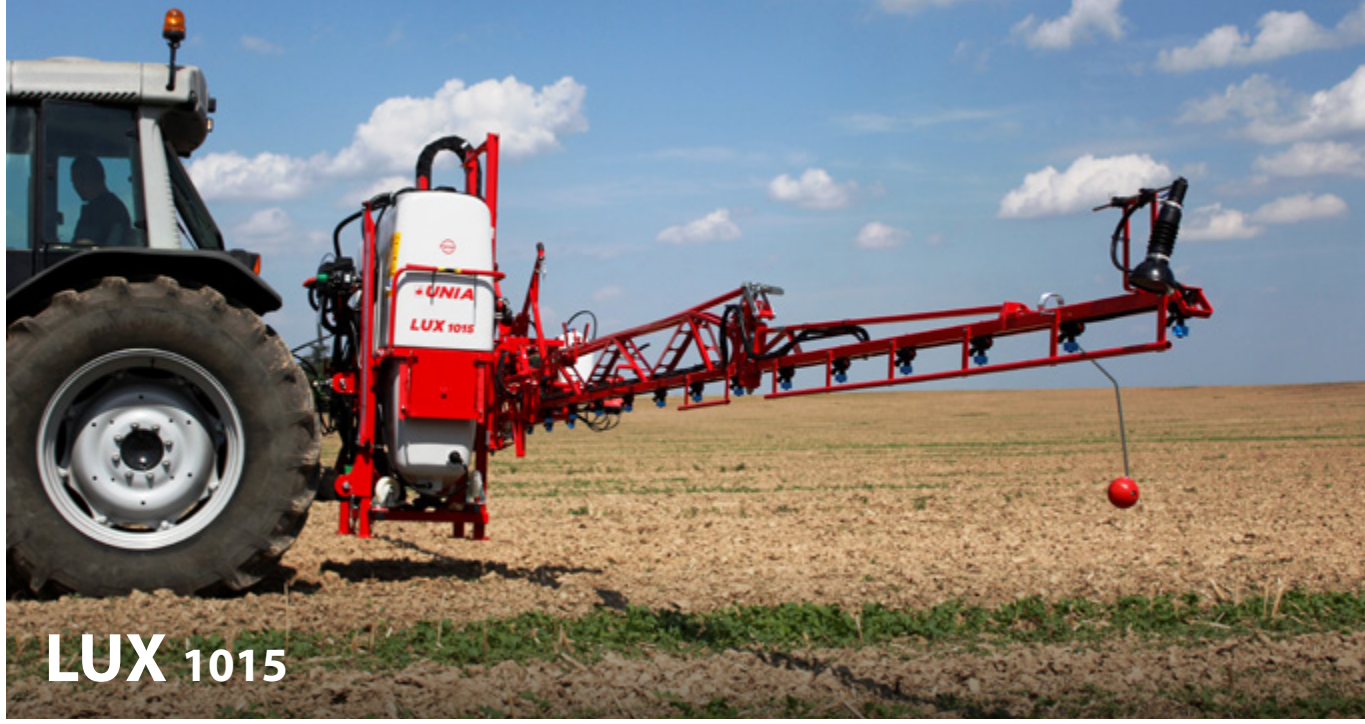
» **Simple and convenient operation**
Thanks to the hydraulically controlled boom, which rises to a height of 2.1 metres.

» **Practical three-chamber hopper**
Its shape ensures that it empties completely on any terrain.

» **Independent boom**
Makes it possible to avoid obstacles in the field or its border (optional).

» **Convenient cleaning of the inside of the tank**
Thanks to a rotary washer for rinsing the tank after spraying is completed.

» **Robust liquid system**
Made of acid-resistant steel tubing. Easy-to-operate constant pressure valve with pressure compensation.



LUX 1015

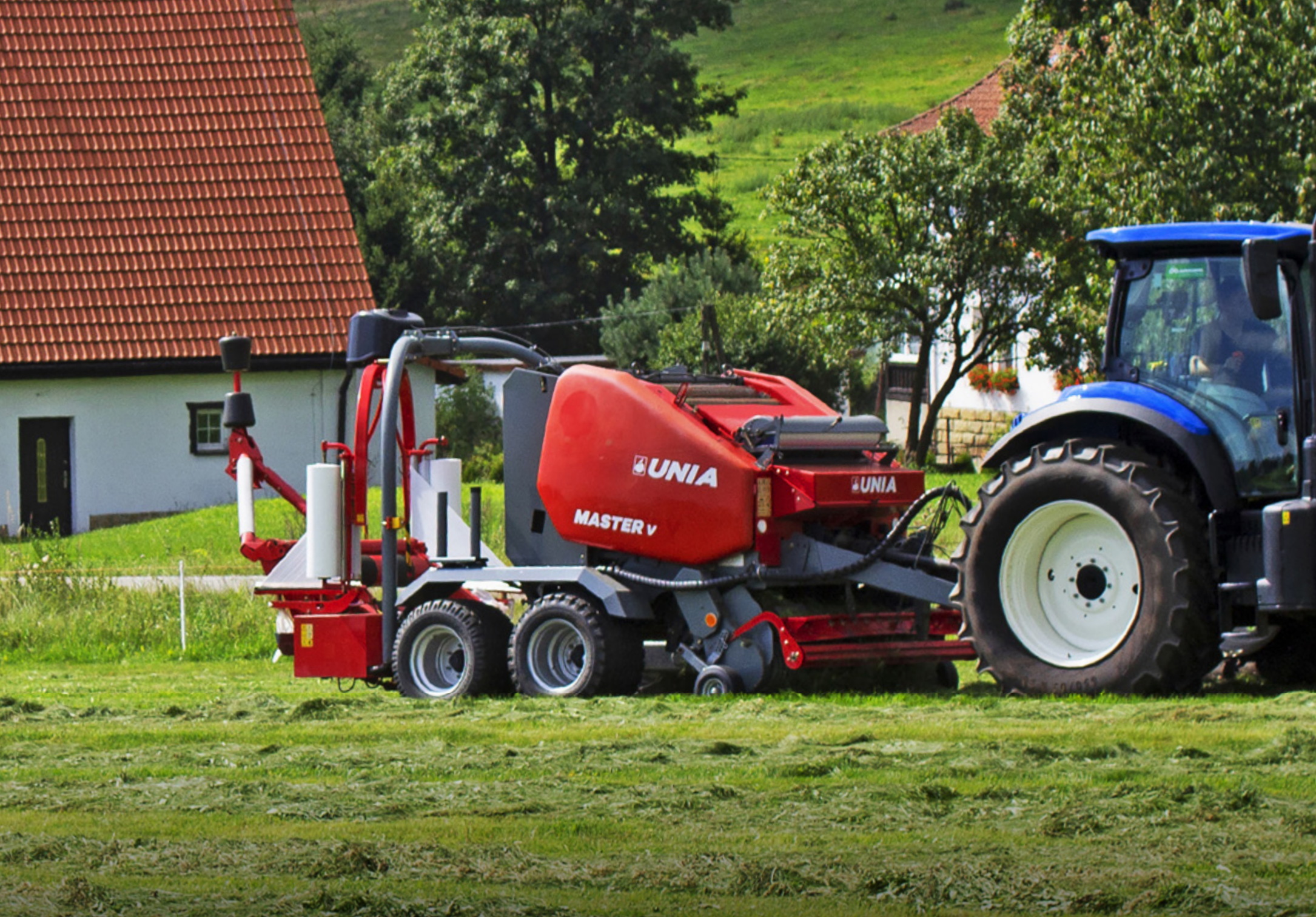
» **Can be expanded with a solenoid valve and SPRAY controller**
This ensures that the correct spray rate is maintained regardless of driving speed (optional).

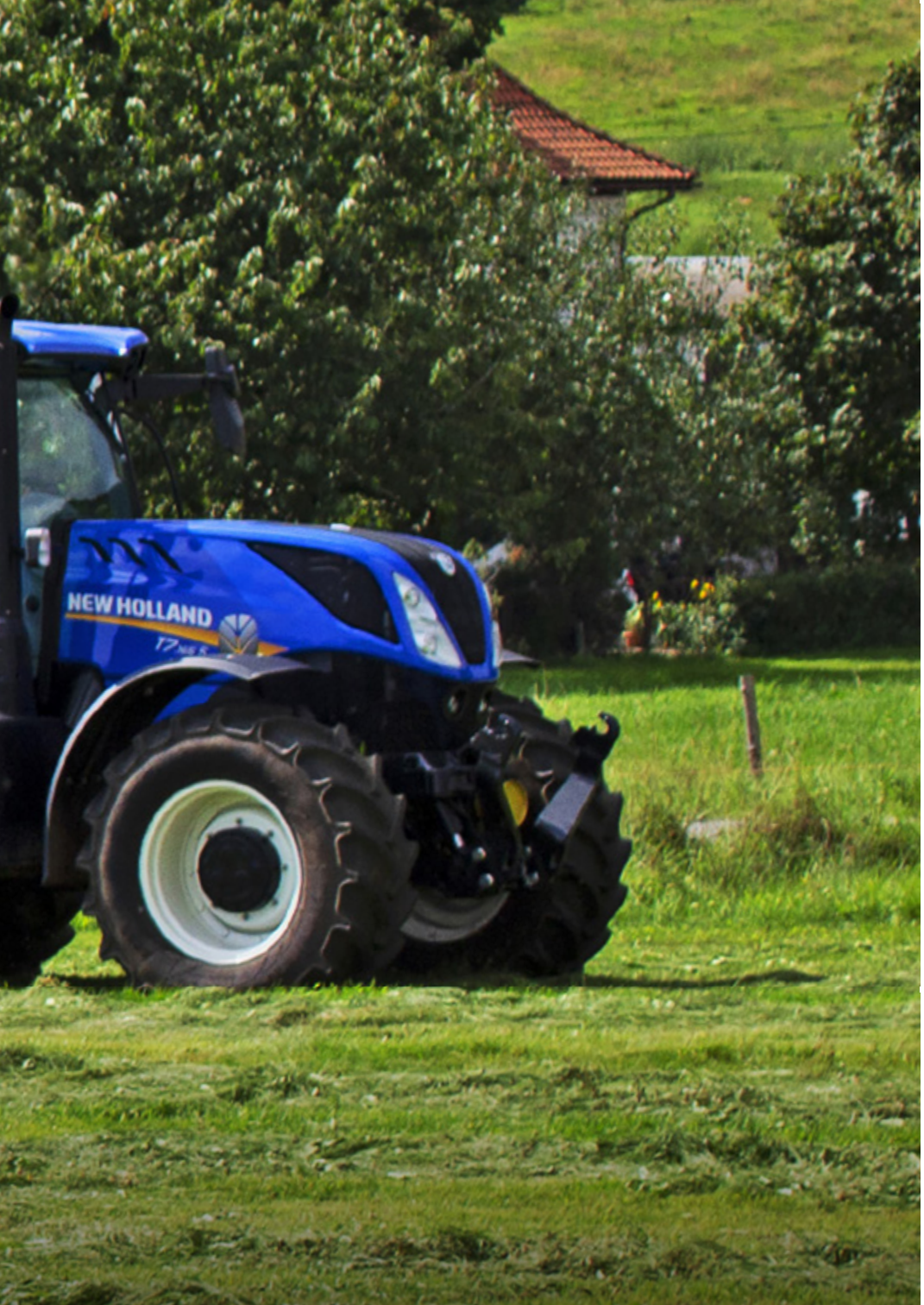
» **Extensive standard equipment**
Including: sectional filters, 5 working sections, diluter in the main tank filler, and hand wash tank.

TECHNICAL SPECIFICATIONS

MODEL	LUX
Hopper capacity [l]	600 / 800 / 1,000
Working width [m]	15
Number of sections	5
Beam lifting range [m]	0.5–1.7 / 0.5–2.1
Pump [capacity]	ZETA 100 [100 l/min.] / ZETA 140 [140 l/min.] *

* Applicable to models with 800 and 1,000 litre tanks

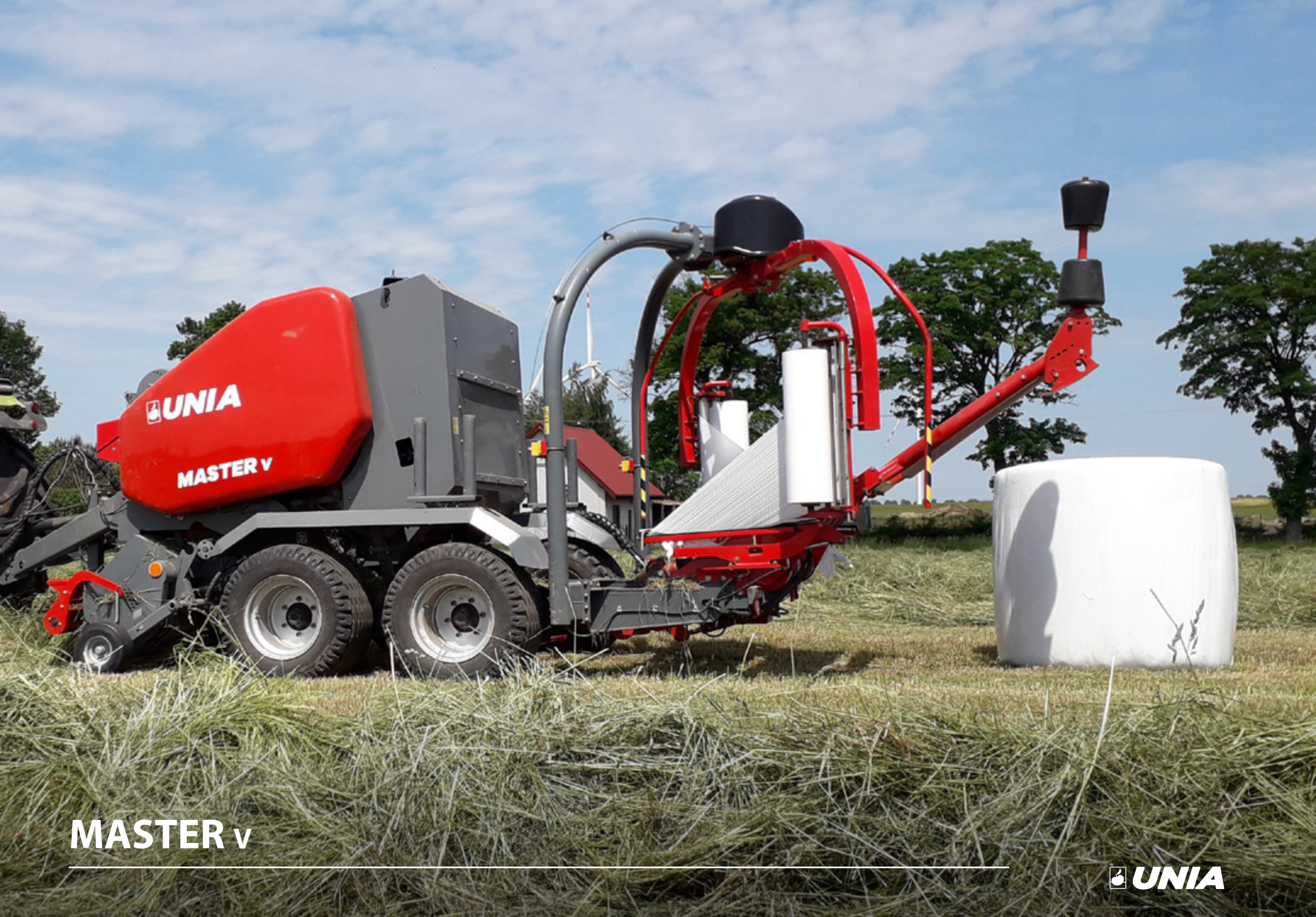

UNIA
MASTER V
UNIA



UNIA

BALING AND WRAPPING TECHNOLOGY

Our customers benefit from high quality hay-silage thanks to our advanced baling and wrapping machines. Quick and efficient baling and packaging of feed is key part of animal husbandry, and our high-throughput balers enable this to be achieved with ease. These will ensure that your animals receive the best quality feed.



MASTER V

UNIA

MASTER V/D

FIXED CHAMBER BALERS/WRAPPERS

ADVANTAGES OF MASTER:

» **Clean, high quality hay-silage**
Picking, baling, and immediate wrapping of bales without them coming into contact with the ground, thanks to the use of two machines integrated on a common frame: a baler with cutter and a wrapper.

» **Tandem chassis and wide wheels**
They stabilise movement even in the worst conditions.

» **Highest throughput of collected material**
The triple-tine rotor, which is distinguished by three rows of conveying tines, allows even the most difficult materials to be picked up with high efficiency without fear of the pick-up becoming clogged.

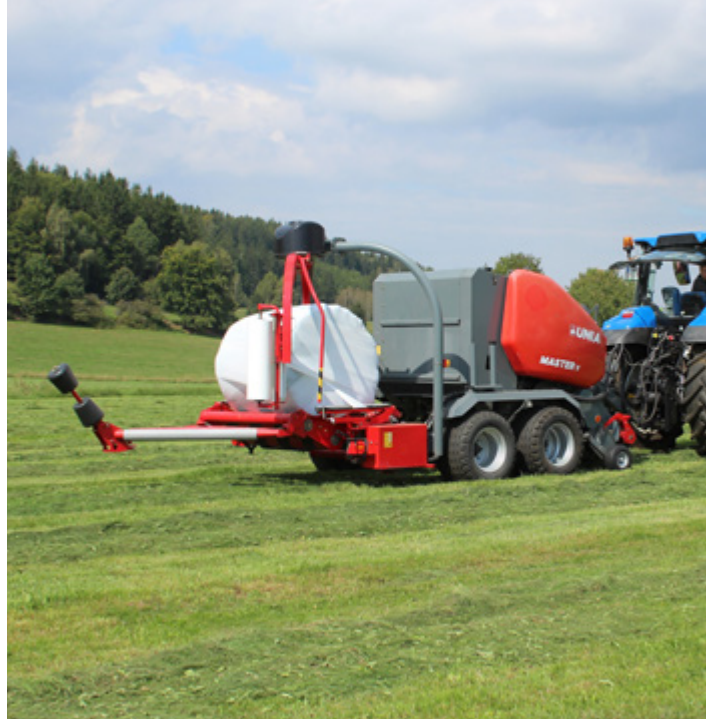
» **Wrapping the bale as a new bale is formed**
- Quick planetary wrapping system,
- Two 750 mm film feeders with automatic tension control,
- Film break sensor.

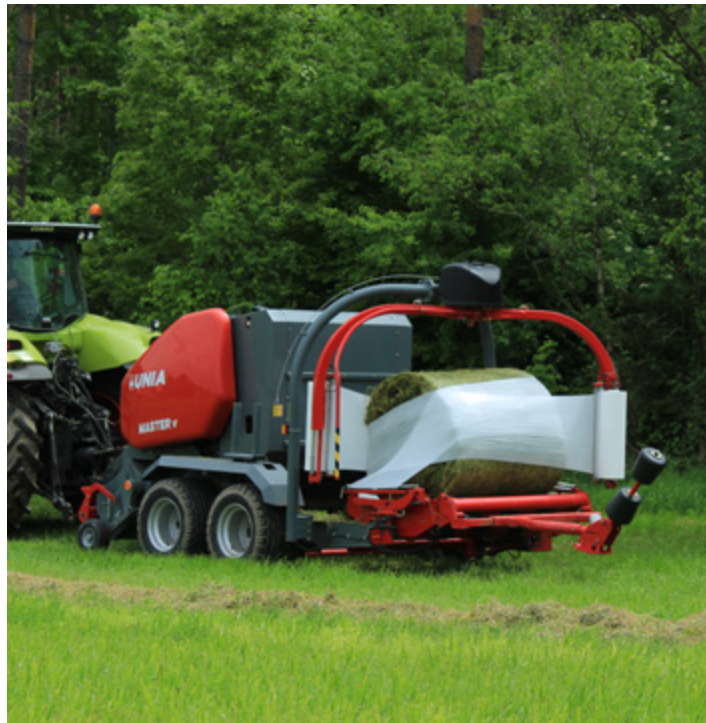
Everything is done automatically, in one process cycle, and with just one tractor. This saves time, labour, and fuel.

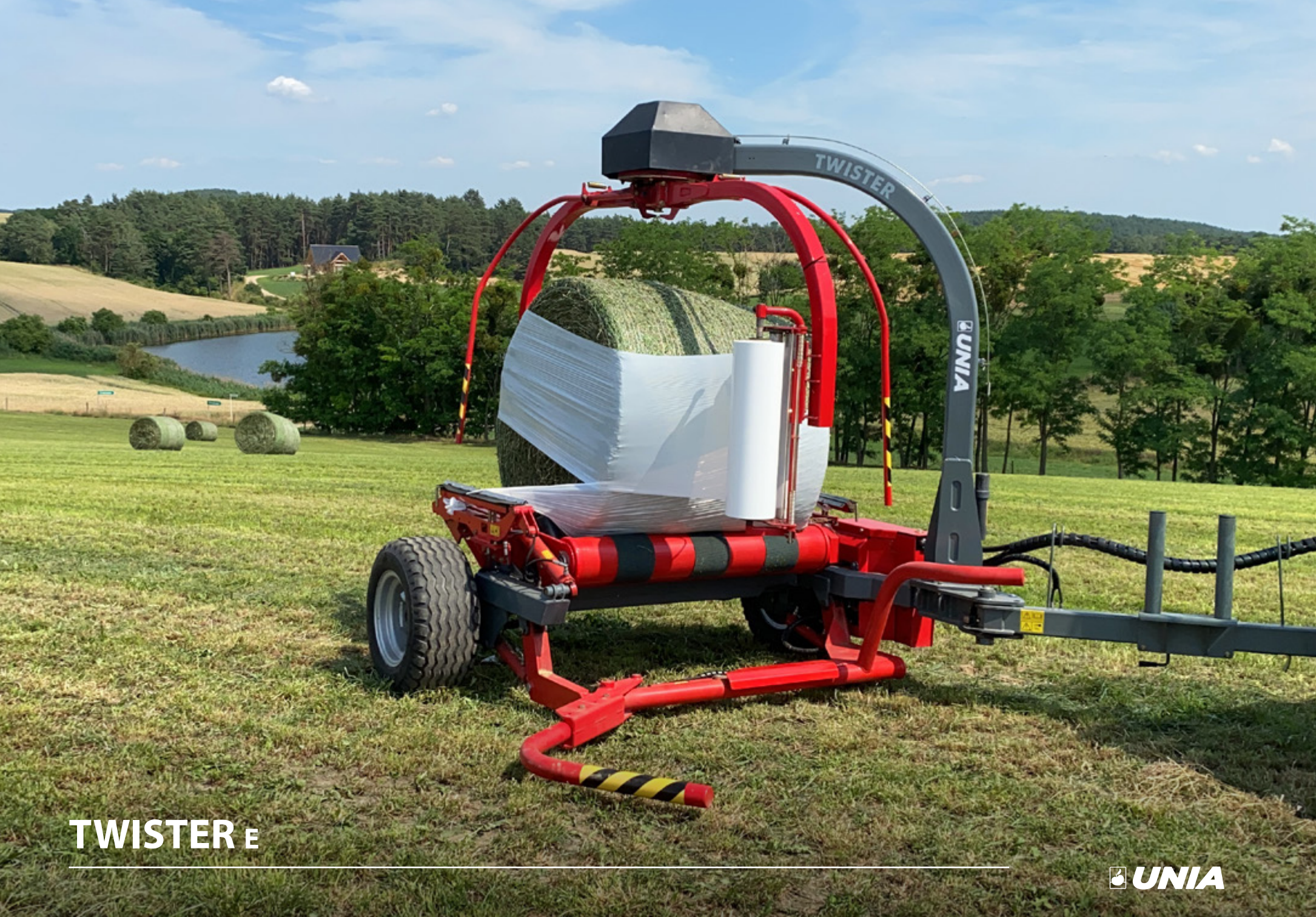
» **Safe cutting system**
Individual spring-loaded protection of the cutting blades – when an obstacle (e.g. a stone, etc.) is encountered, each blade has the ability to deflect momentarily, preventing damage to the blade.

TECHNICAL SPECIFICATIONS

MASTER	V	D
Pressing chamber	chain-roller	roller
Number of rollers [pcs.]	8	17
Implementation of pressure	mechanical	mechanical
Diameter of bales [m]	1.2	1.2
Width of pick-up [m]	2.1	2.1
Number of pick-up tines rows	5	5
Film feeder	2×750 mm	2×750 mm
Power requirement [hp]	100	110
Weight [kg]	4,340	4,150
PTO speed [rpm]	540	540
Required hydraulic system	pressure-free return	pressure-free return







TWISTER E

UNIA

TWISTER

TRAILED BALE WRAPPERS WITH FRONT LOADING

ADVANTAGES OF TWISTER:

» **Double wrapping arm**
Twice as fast bale wrapping.

» **Wrapping arm protection**
Reliable protection of the wrapping arms – the arms are stopped when they hit an obstacle.

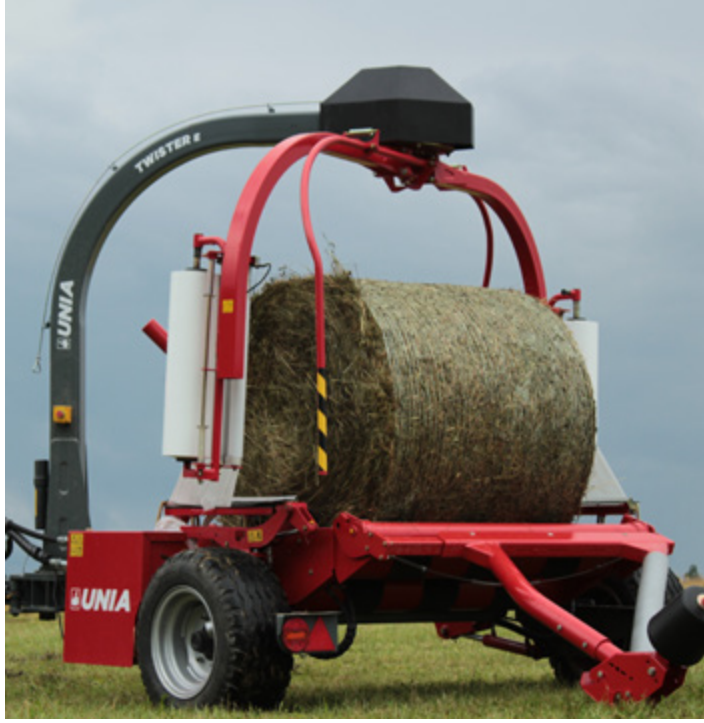
» **Film feeder**
Equipped with automatic tension control for 750 mm film.

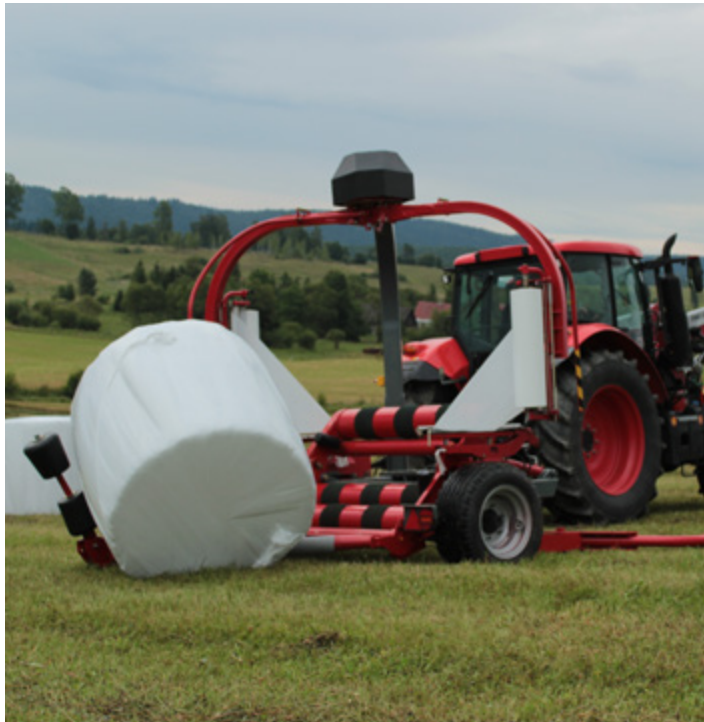
» **Hydraulically adjustable drawbar**
The unfolding and folding of the machine takes place in automatic mode.

» **Robust loading arm in the working axis**
It allows bales with a diameter of 1 to 1.5 m and a weight of up to 1,200 kg to be loaded.

TECHNICAL SPECIFICATIONS

TWISTER	E
Bale loading	front
Diameter of wrapped bales [m]	1.0–1.5
Maximum bale weight [kg]	max. 1,200
Number of wrapping arms [pcs]	2
Film width [mm]	750
Control	electrical
Power requirement [hp]	45
Oil pump output [l/min.]	20–45
Weight [kg]	1,400
Dimensions (L/W/H) [m]	4.65 / 2.6 / 2.83
Bale loading	front
Required hydraulic system	pressure-free return





DF

FIXED CHAMBER BALER

ADVANTAGES OF DF:

» **High performance even during long, intensive use**

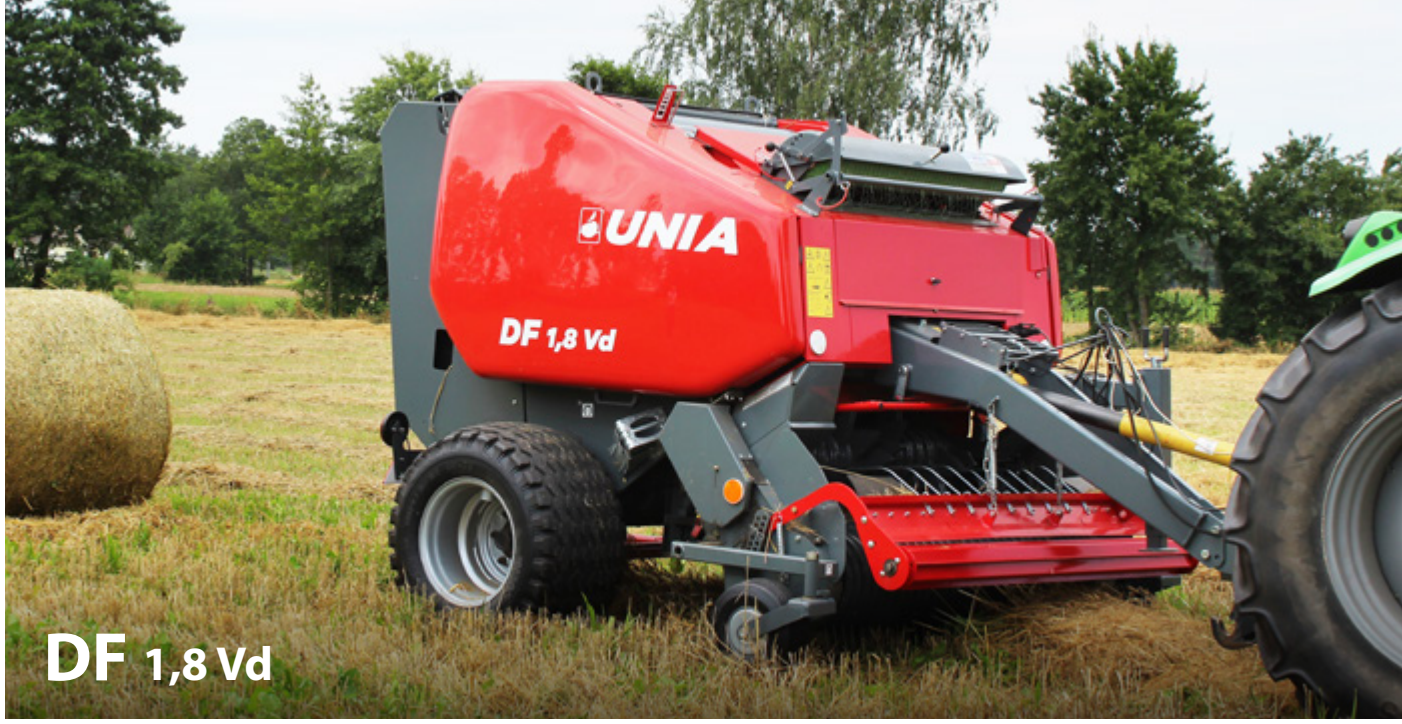
The DF 1,8 Vd model is a combination of 8 rollers and chains taking care of the quality of the friable and dry material (i.e., straw, hay) to ensure that the bale does not stop.
The DF 1.8 Dd model is equipped with 17 rollers and is recommended for silage and for obtaining concentrated material, allowing rapid formation of the feed into a highly compacted bale.

» **Rotor for smooth and efficient operation**

Top-quality HARDOX® steel guarantees high abrasion resistance. Mounted on large double-sealed bearings that ensure even and longer-lasting system operation. The spiral rotor design results in a more even operation of the machine and significantly reduces the load on the cutting unit.

» **Two types of tying system – net and string**

High-performance wrap that allows a bale to be wrapped in 1 minute (2.5 turns) or the classic low-cost and readily available twine that needs 12 to 14 turns.



DF 1,8 Vd

» **Automatic lubrication system**

A reliable system with individual adjustment of the amount of oil per section perfectly protects TSUBAKI's high-quality chains.

TECHNICAL SPECIFICATIONS

DF	1.8 VD	1.8 DD
Diameter of bales [m]	1.2	1.2
Width of pick-up [m]	2.1	2.1
Number of pick-up tines rows [pcs]	5	5
Number of pick-up tines [pcs]	160	160
Number of profile rollers [pcs.]	8	17
Number of cutter blades [pcs]	14	14
PTO speed [rpm]	540	540
Power requirement [hp]	70–80	80–90
Dimensions (L/W/H) [m]	3.6 / 2.51 / 1.95	3.6 / 2.51 / 1.95
Weight [kg]	2,710	2,520

FALA E

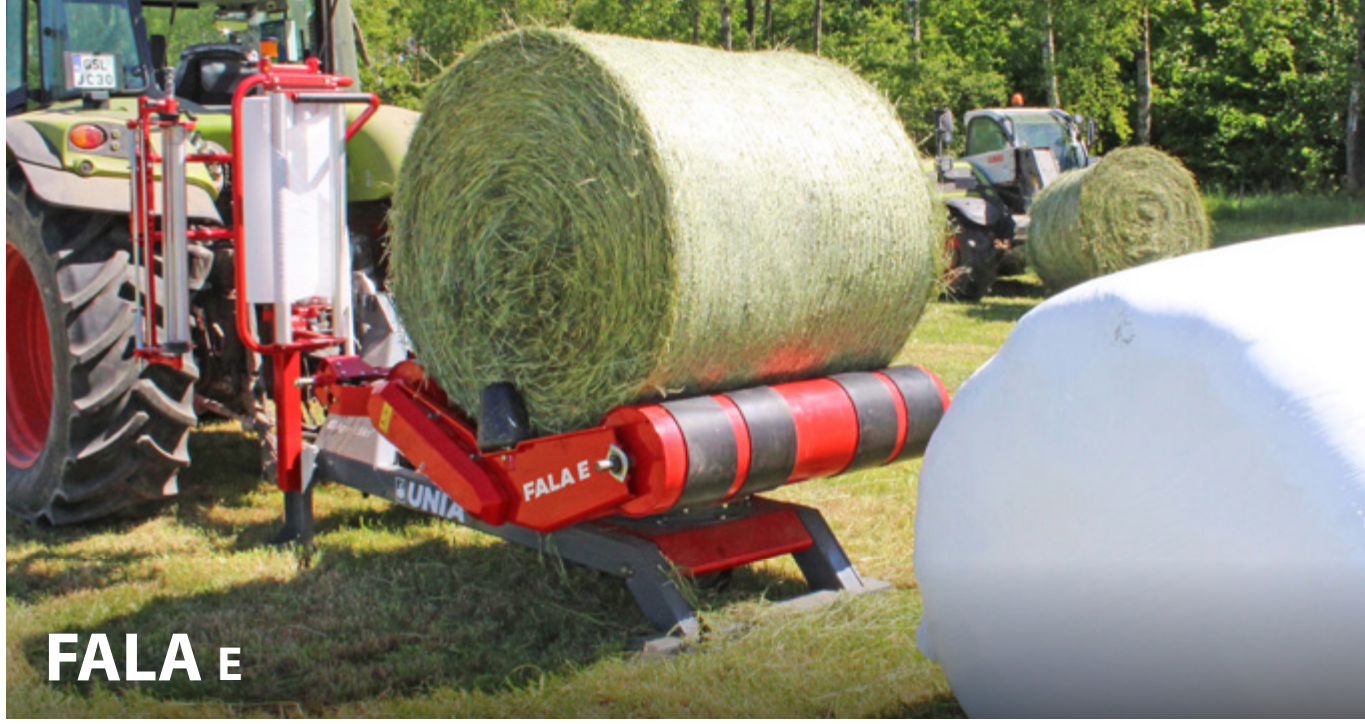
MOUNTED WRAPPERS

ADVANTAGES OF FALA E:

» **Possibility of working without a tractor**
Power can be supplied from the tractor or from a hydraulic unit.

» **Automation of the wrapping process and radio control**
Pilot Wrap (allows initiating the start of the automatic bale wrapping and unloading process) and wireless Radio Wrap (allows operation without getting out of the loading tractor cab).

» **Wrapping system focused on productivity and quality**
The film feeder provides a constant 70% tension. In the DUO option, two layers of film are wrapped at the same time (500 or 700 mm), reducing wrapping time to the minimum – 40 seconds.



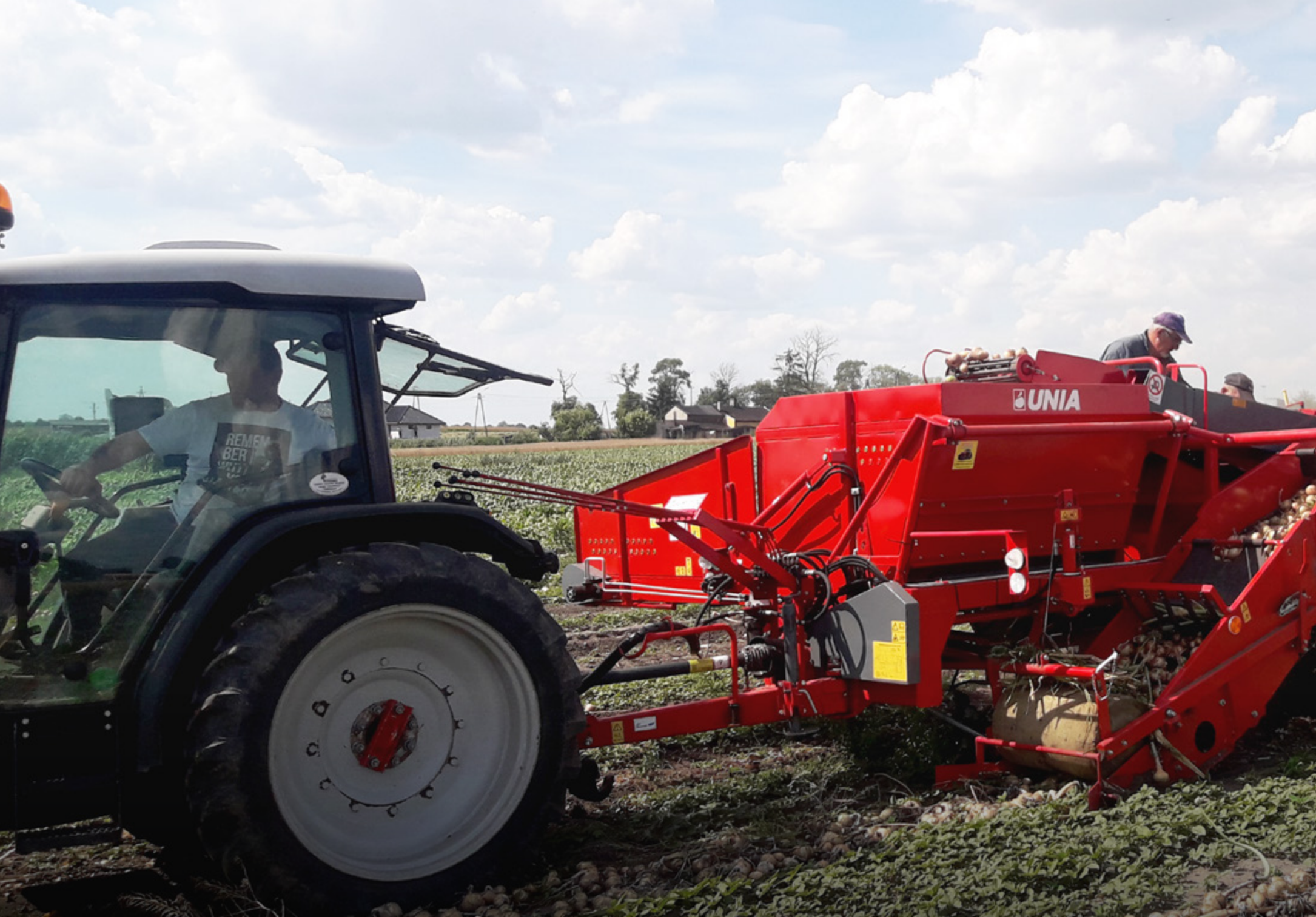
FALA E

» **Film cutter**
The cutter is hydraulic, which cuts off and holds the bale for the next wrapping fully automatic.

» **Flow regulator valve**
Allows the speed to be adjusted according to the performance of the tractor pump without the effect of heating the oil.

TECHNICAL SPECIFICATIONS

FALA	E
Diameter of wrapped bales [m]	1.2–1.5
Maximum bale weight [kg]	1,200
Film width [mm]	500 / 750
Power requirement [hp]	40
Control	electrical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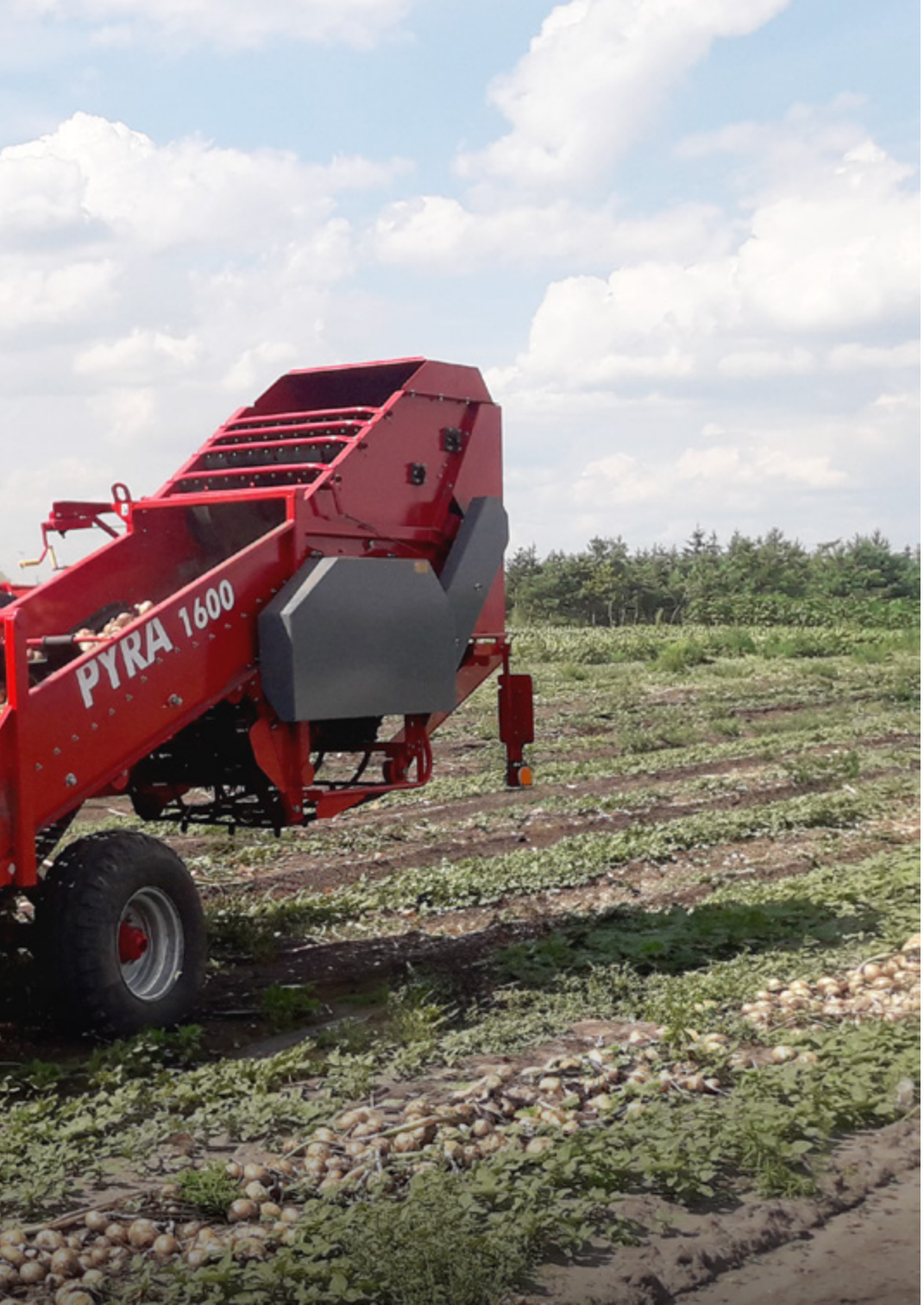


UNIA

POTATO TECHNOLOGY

Maximum performance with low power requirements is a key feature of our specialised harvesters for potato cultivation and harvesting. The hydraulics are controlled from the tractor cab, allowing precise control over the quality of the harvest while ensuring operator comfort and convenience. Our ridging ploughs and planters are also designed for an effective and efficient potato cultivation process, resulting in excellent results in the production of this valuable agricultural product.

PYRA 1600

POTATO AND VEGETABLE HARVESTER

ADVANTAGES OF PYRA:

» **Advanced waste separation system**
Wide-pitch conveyor with large rubber tines that picks up potato haulm, weeds, and large stones.

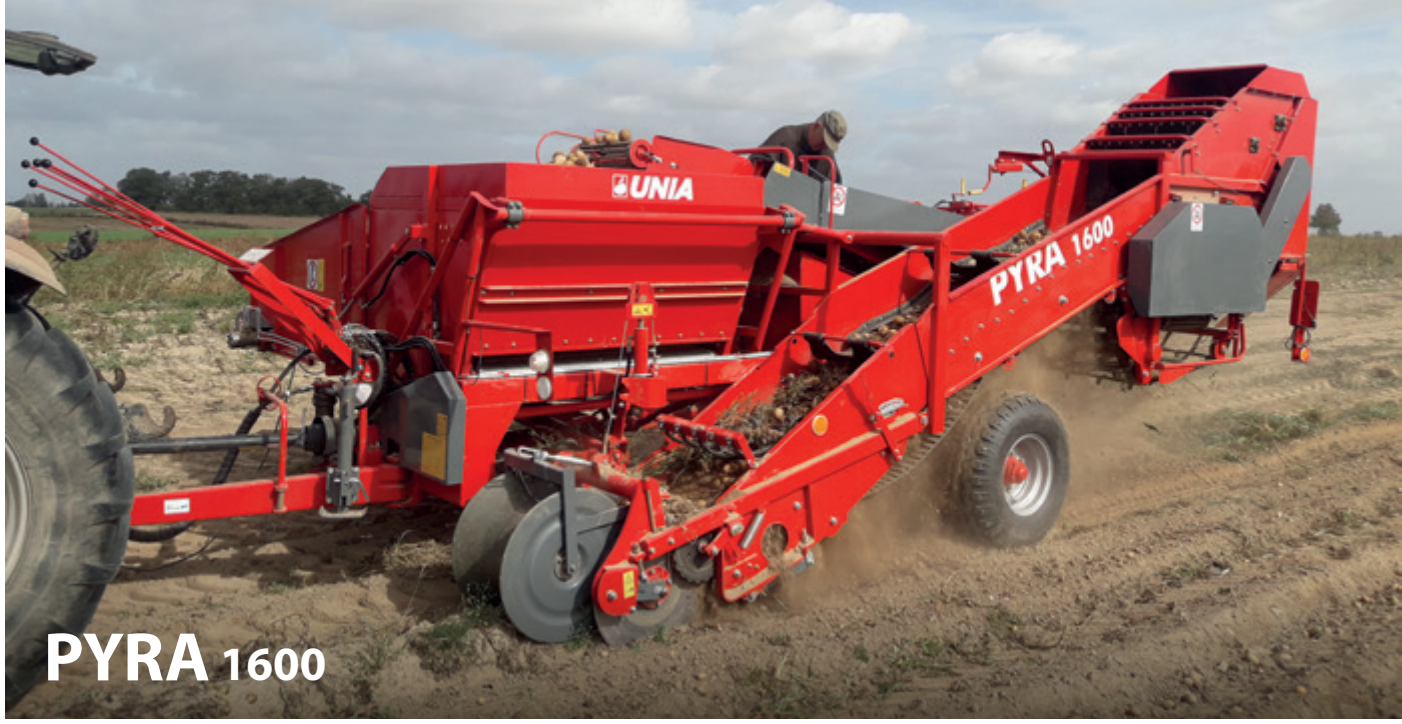
» **Adjustable material pick-up system**
Three-section shallow ploughshare system that allows the digger to work at depths of up to 25 cm.

» **Mechanical adjustment of soil sifting**
Changing the shaking intensity of the sifter is adjusted by means of a lever.

» **Comfortable working for two persons**
With a platform to operate the harvester.

» **Harvester hydraulics controlled from the tractor cab**
Hydraulic distributor controlled by a solenoid valve block.

» **Protecting potatoes from mechanical damage**
Rubber guards in the floor conveyor protect the vegetables from damage.



TECHNICAL SPECIFICATIONS

MODEL	PYRA (with hopper)	PYRA S (with platform and bagging machine)
Working width [m]	0.75	0.75
Number of rows	1	1
Working speed [km/h]	1.5–5.0	1.5–5.0
Capacity [ha/h]	up to 0.16	up to 0.16
Potato hopper capacity [kg]	1,600	—
Platform load capacity [kg]	—	1,000
Dimensions (L/W/H) [m]	7.47 / 2.4 / 2.8	7.47 / 2.4 / 2.8
Discharge height [m]	1.35–2.70	—
Tyres	11.5/80–15.3–10PR	11.5/80–15.3–10PR
Power requirement [hp]	from 50	from 50
Weight [kg]	2,900	2,650

BOLKO

POTATO AND VEGETABLE HARVESTER

ADVANTAGES OF BOLKO:

» **Extremely low power requirements**
Design of the harvester is compact yet lightweight, with a power requirement of just 40 HP.

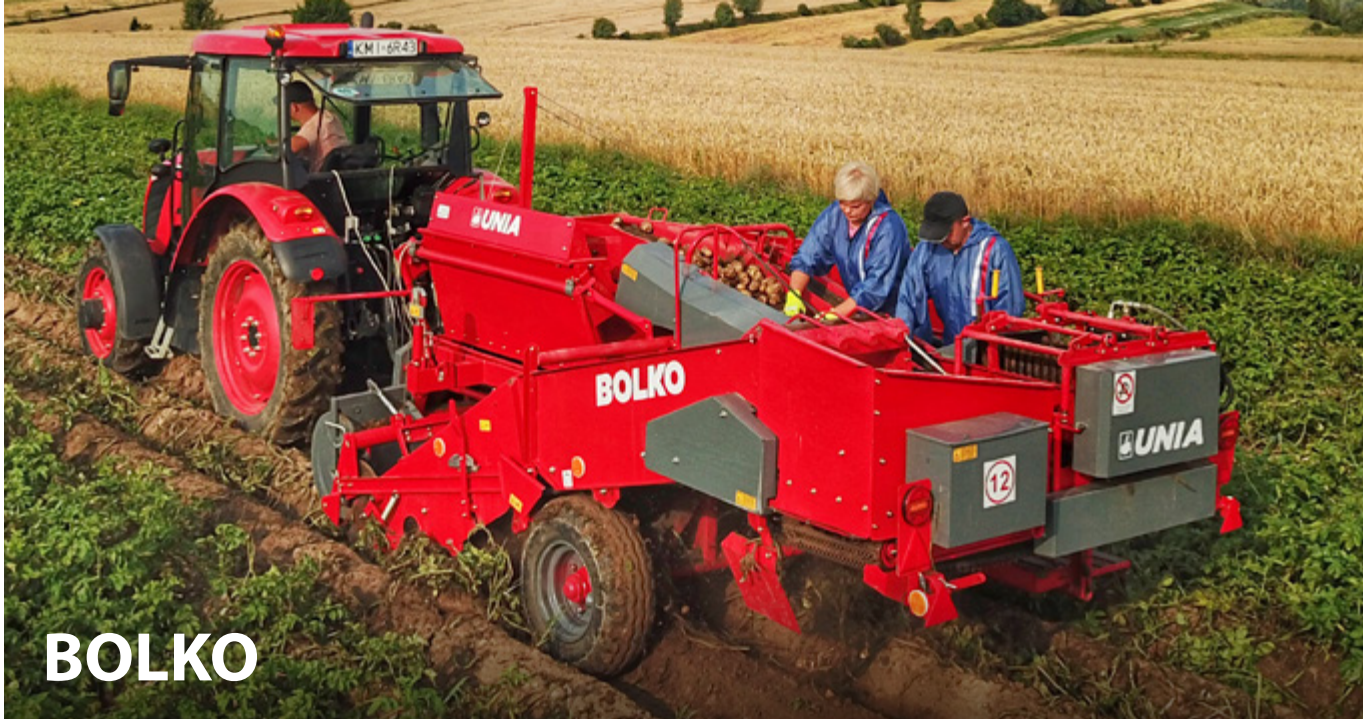
» **Large diameter guidance roller**
It ensures that the shape and height of the furrow is accurately following, thereby defining the work of the plough share.

» **Simple maintenance**
Through easy replacement of the three-section plate plough shares.

» **Control of the soil sifting process**
Changing the shaking intensity of the sifter is controlled mechanically by a lever.

» **Facilitated manoeuvring**
The drawbar of the harvester is equipped with a hydraulic cylinder, which allows the harvester to be brought into the working position and also facilitates manoeuvring during transport.

» **Convenient control from the tractor cab**
The hydraulic distributor is controlled via a block of solenoid valves, in which case all the harvester's hydraulics are controlled from the tractor cab via the controller, making operation very convenient.



TECHNICAL SPECIFICATIONS

BOLKO	BOLKO (with hopper)	BOLKO S (with platform and bagging machine)
Working width [m]	0.625–0.75	0.625–0.75
Number of rows	1	1
Working speed [km/h]	1.5–5.0	1.5–5.0
Capacity [ha/h]	up to 0.15	up to 0.15
Potato hopper capacity [kg]	1,250	—
Platform load capacity [kg]	—	500
Dimensions (L/W/H) [m]	5.95 / 2.42 / 2.69	5.95 / 2.42 / 1.9
Discharge height [m]	1.1–2.5	—
Power requirement [hp]	40	30
Weight [kg]	1,971	1,531
Operation	2 persons	2 persons

FORMA

RIDGING PLOUGH WITH FORMING DEVICE

ADVANTAGES OF FORMA:

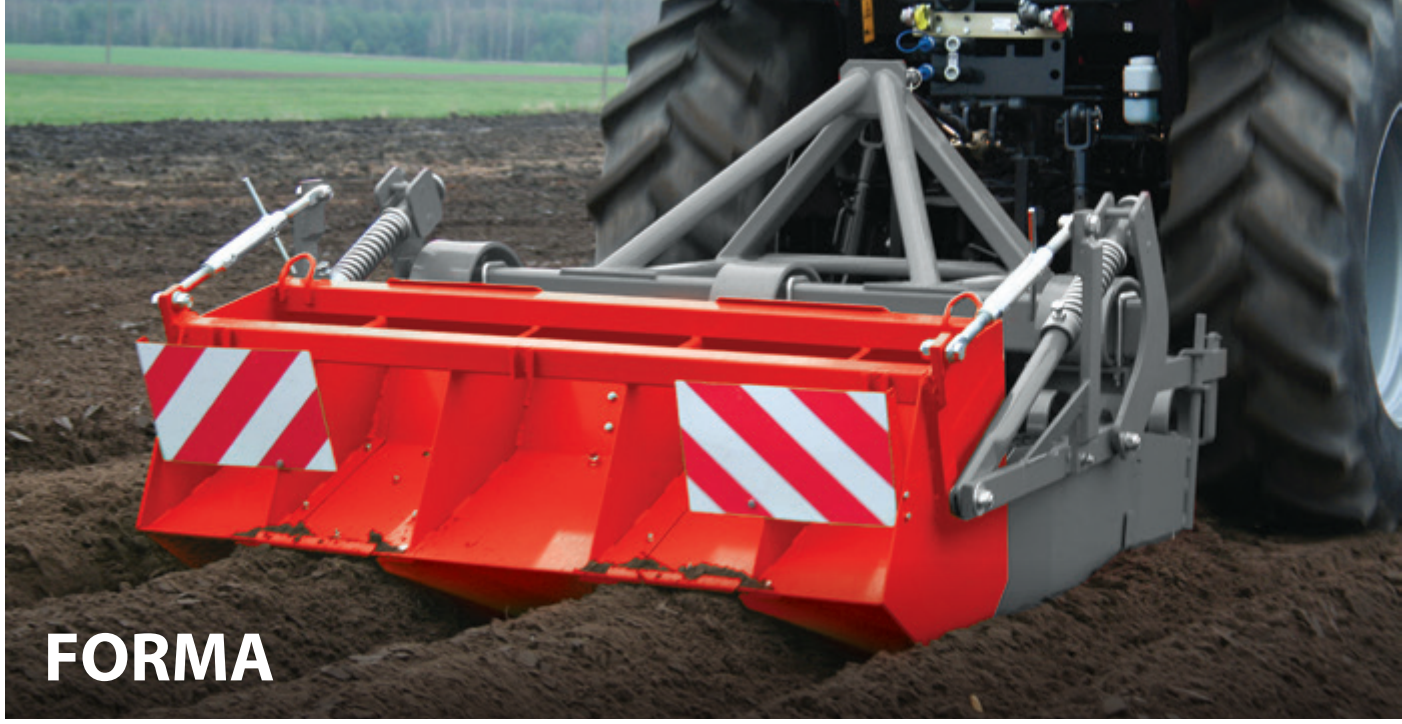
» **Correct furrow shape thanks to plates**
The elongated forming plates, made of acid-resistant material, ensure the formation of an isosceles trapezium, slightly convex, with a furrow on the ridge.

» **Ability to work on stony soils**
The strong elastic mounting of the ridging bodies allows the share to deflect and avoid stones.

» **Mechanical adjustment of coulter height**
Turning the screw increases the depth of the coulter tip.

» **Forming ridges**
Forming ridges of isosceles trapezium shape, slightly convex, with a furrow on the ridge. When forming ridges after potato emergence, the forming plates (including furrows) should be removed.

» **Universal interrow width**
Spacing width 70 or 75 cm.



TECHNICAL SPECIFICATIONS

FORMA	2	4
Interrow width [cm]	70/75	70/75
Weight [kg]	420	700
Power requirement [hp]	45	65

KORA 2/4

POTATO PLANTER

ADVANTAGES OF KORA:

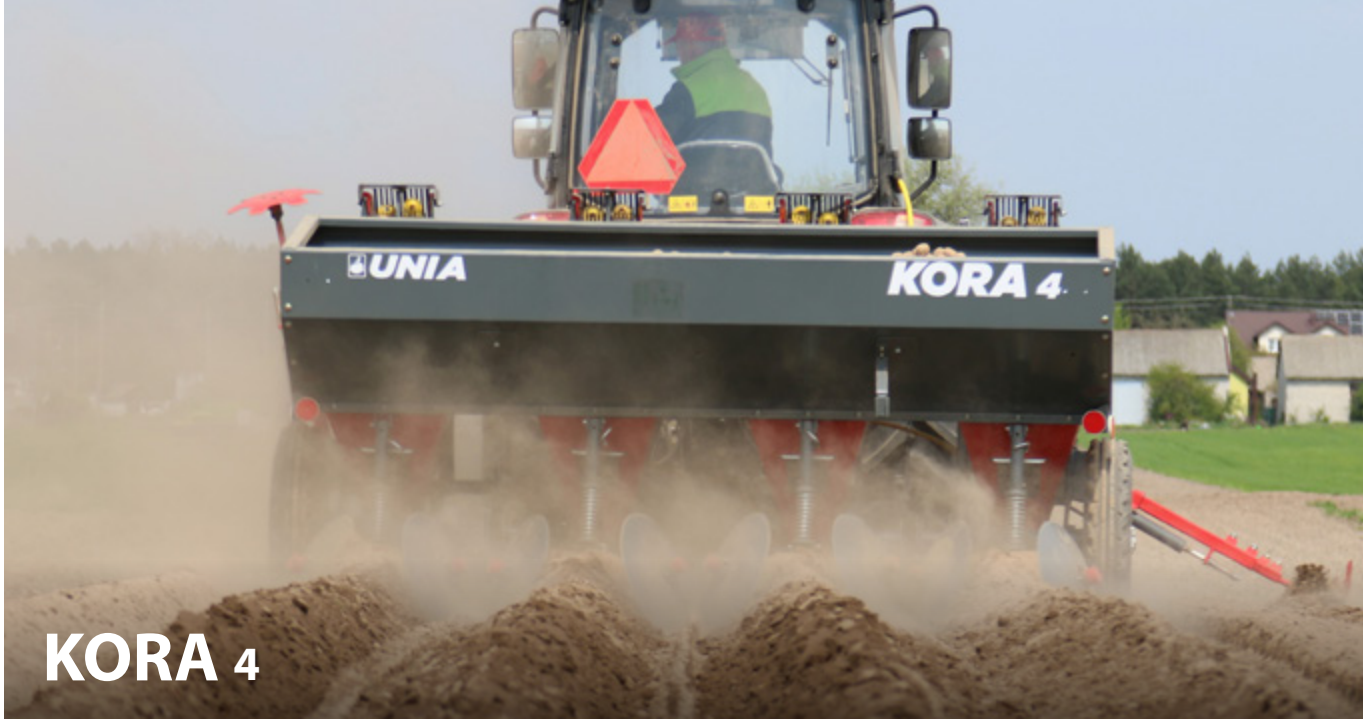
» **Robust sowing system**
Consisting of a double belt and made of high-quality, weather-resistant rubber.

» **Adaptation of capacity to requirements**
2-row, suspended hopper up to 400 kg (KORA 2) and 4-row, fixed hopper up to 840 kg (KORA 4).

» **Mechanical adjustment of coulter height**
Turning the screw increases the depth of the coulter tip.

» **Ridging bodies**
The strong spring-loaded mounting of the ridging bodies allows work on stony soils. When hitting a stone, the share can deflect and avoid it.

» **Forming ridges**
They have isosceles trapezium shape, slightly convex, with a furrow on the ridge.
When forming ridges after potato emergence, the forming plates (including furrows) should be removed.



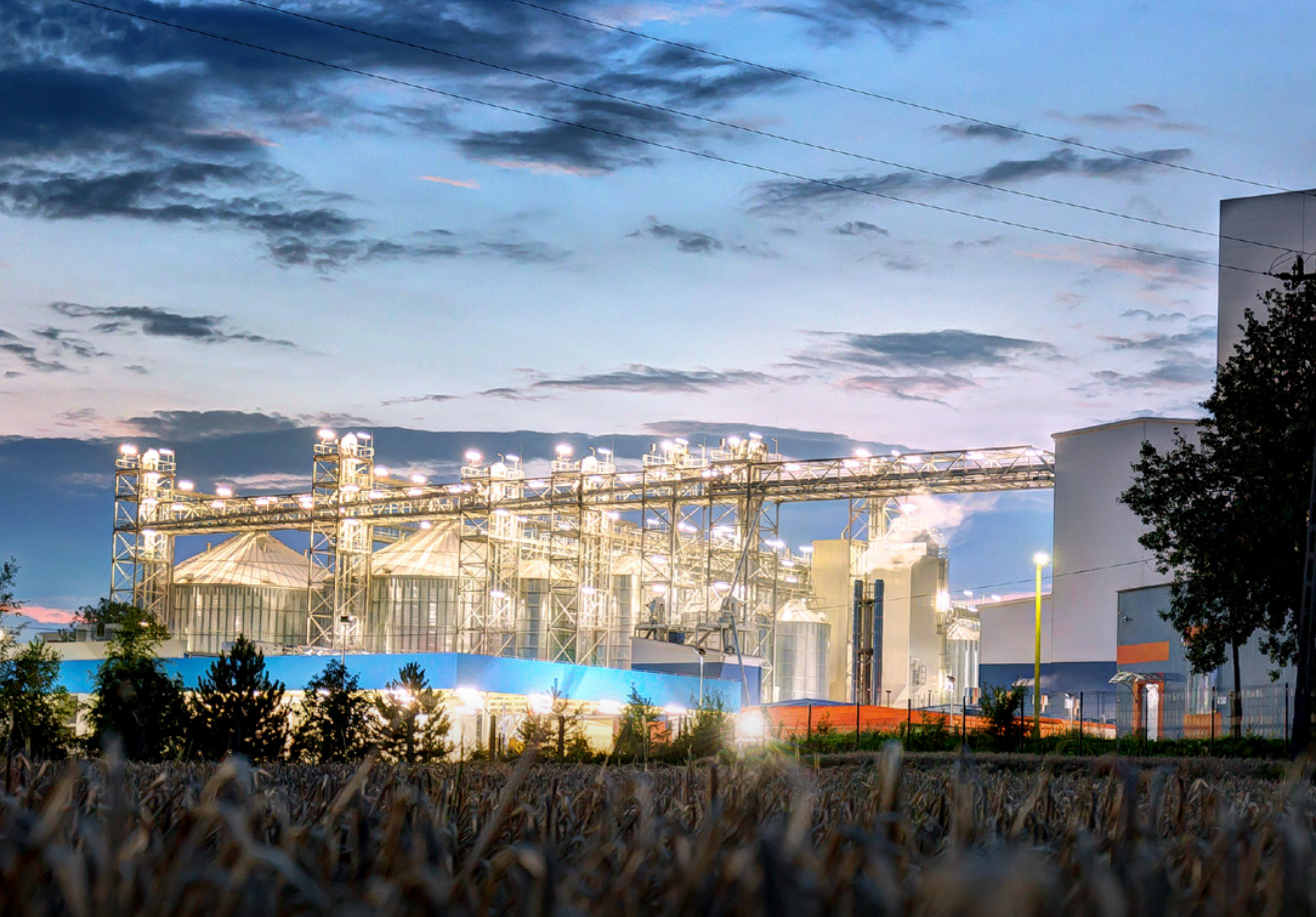
KORA 4

» **Extended forming plates**
ensure the formation of the correct furrow shape. The sheets are made of acid-resistant material.

» **Universal interrow width**
Spacing width 70 or 75 cm.

TECHNICAL SPECIFICATIONS

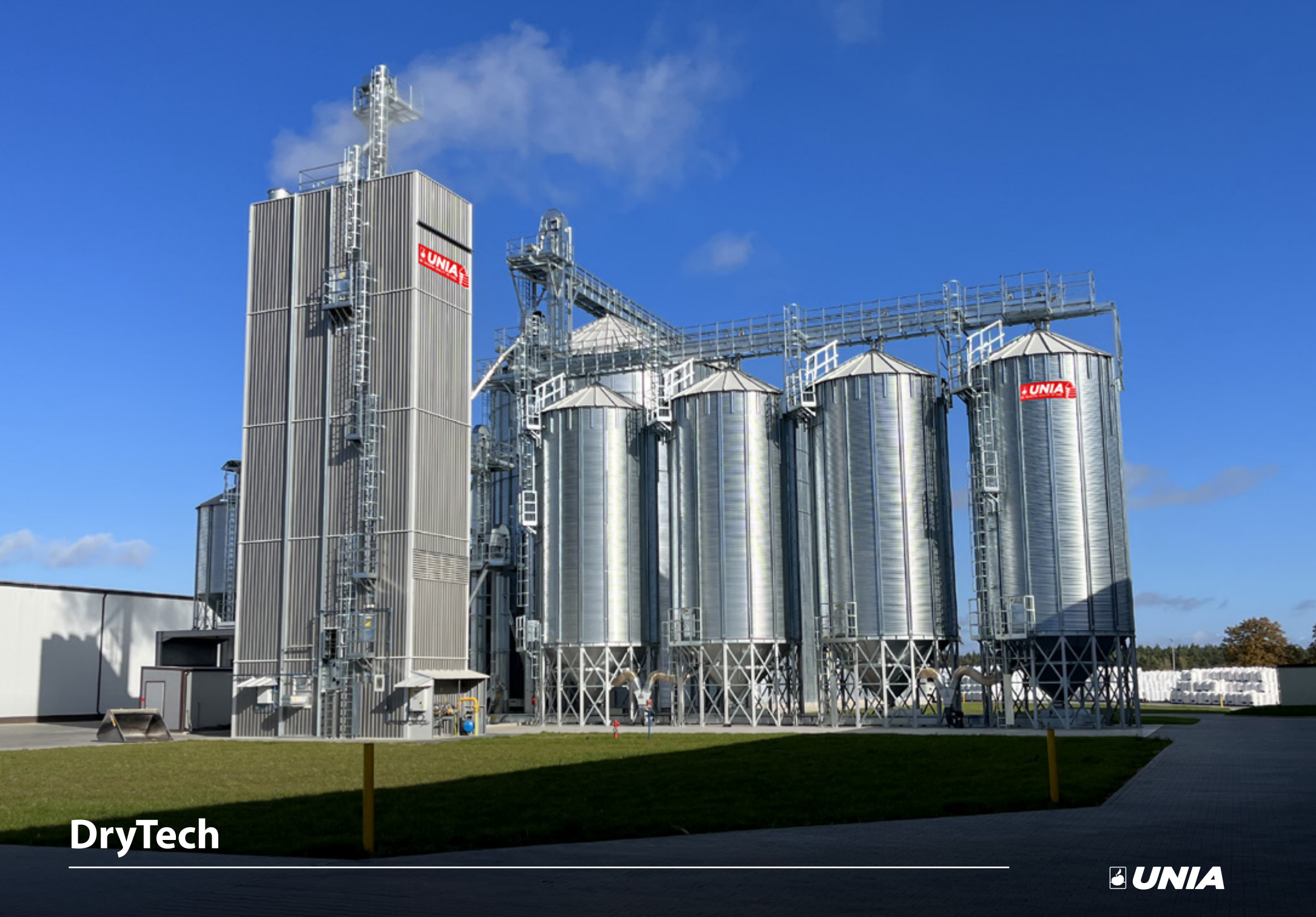
KORA	2	2W	4	4	4 W	4H	4H
Number of rows	2	2	4	4	4	4	4
Working width [m]	1.4–1.5	1.4–1.5	3.0	3.6	3.6	3.0	3.6
Interrow width [cm]	70/75	75	70	75	75	75	90
Potato hopper capacity [kg]	400	400	840	900	900	1,000	1,200
Sowing depth [cm]	4–12	4–12	4–12	4–12	4–12	4–12	4–12
Capacity [ha/h]	0.3–0.5	0.3–0.5	0.6–1.1	0.6–1.1	0.6–1.1	1.3	1.5
Weight [kg]	440	520	895	920	1,050	1,340	1,390
Power requirement [hp]	50	50	75	75	75	75	90



UNIA

STORAGE TECHNOLOGY

Comprehensive turnkey storage solutions are essential for large operations with silos of up to 20,000 tonnes. Economical heating systems enable efficient drying of 34 to 1,600 tons (e.g. corn) per day. The compact design minimizes losses and guarantees the highest quality of the harvest and agricultural materials.



DryTech

UNIA

DryTech

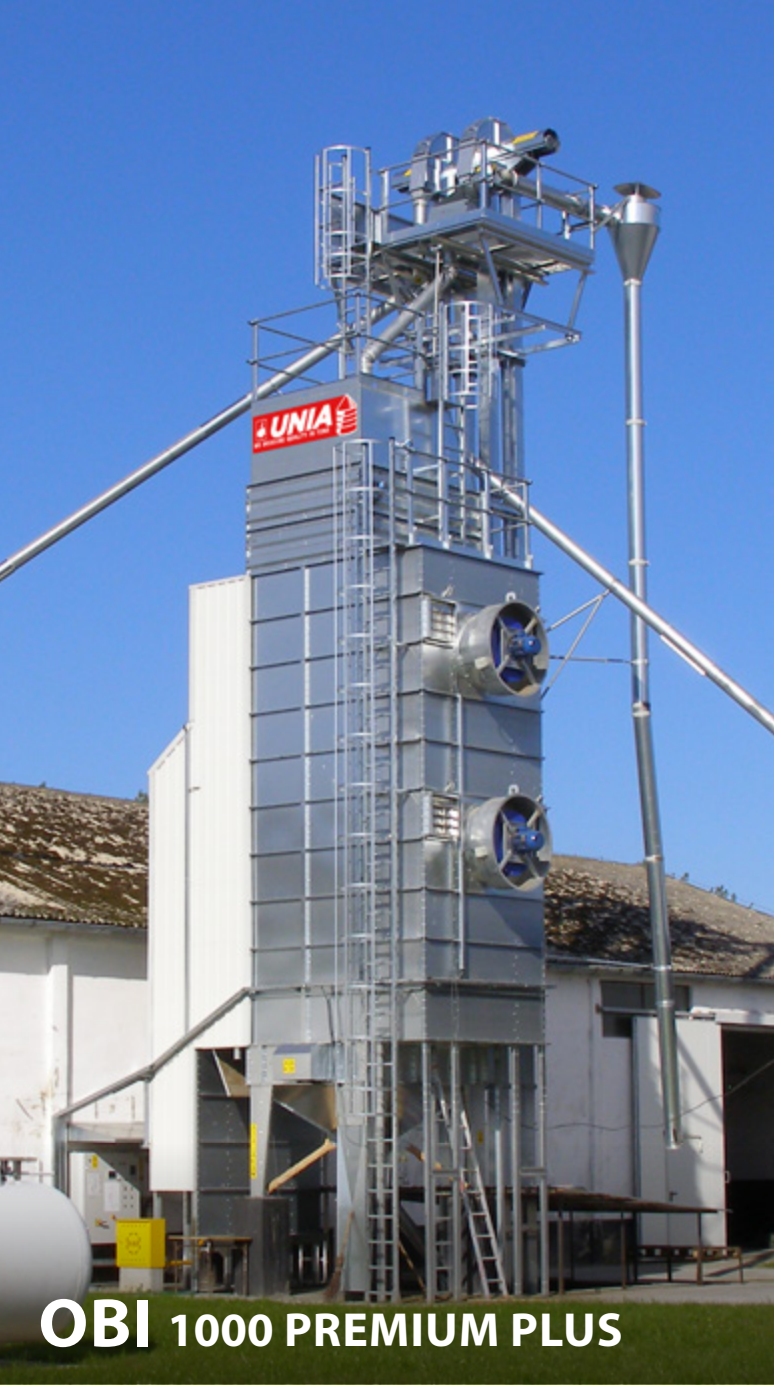
INDUSTRIAL DRYERS

ADVANTAGES OF DT:

- **Cost-effective air heating system**
  Low fuel and energy consumption per t/%, including very low dust emissions and low noise levels.
- **Remote online access to work visualisation**
  Wide and optimal selection of dryer control parameters for each type of grain.
- **Warning and alert system**
  User-friendly microprocessor control system to control safety.
- **Modular, compact, and robust design**
  Convenient and clear visualisation of the dryer with good adaptability for storage facilities.

TECHNICAL SPECIFICATIONS

DT		15	25	25K2	40	40K2	50
Approximate filling capacity [t]		27–45	65–115	75–115	114–178	114–178	181–261
Total thermal power [kW]		800–1,750	2,440–4,880	2×1,500–2×2,440	4,880–7,900	2×2,440–3,200 + 4,460	3,500 + 3,500–5,700 + 5,700
WHEAT – efficiency when drying from 19% to 15%	daily throughput [t/24h]	306–620	841–1,603	1,021–1,603	1,528–2,759	1,528–2,759	2,576–3,990
	hourly throughput	12.7–25.8	35.1–66.8	42.6–66.8	63.7–115	63.7–115	107.4–166.3
CORN – efficiency when drying from 30% to 15%	daily throughput [t/24h]	114–262	351–670	426–670	638–1,140	638–1,140	1,072–1,573
	hourly throughput	4.8–10.9	14.6–27.9	17.8–27.9	26.6–47.5	26.6–47.5	44.7–65.6
Column dimensions (L/W/H) [m]		6.15 / 2.4 / 12.7–20	7.65–9.15 / 4.0 / 17.6–29.8	8.4 / 4.0 / 20.0–29.8	7.65–8.4 / 6.7 / 20–29.8	8.4 / 6.7 / 20–29.8	8.4–9.15 / 8 / 24.9–34.7



OBI 1000 PREMIUM PLUS

OBI PREMIUM

FARM BATCH DRYERS

ADVANTAGES OF OBI:

» **Cost-effective air heating system**
Drying processes take place at all levels of the drying chamber, ensuring drying at the lowest electricity costs.

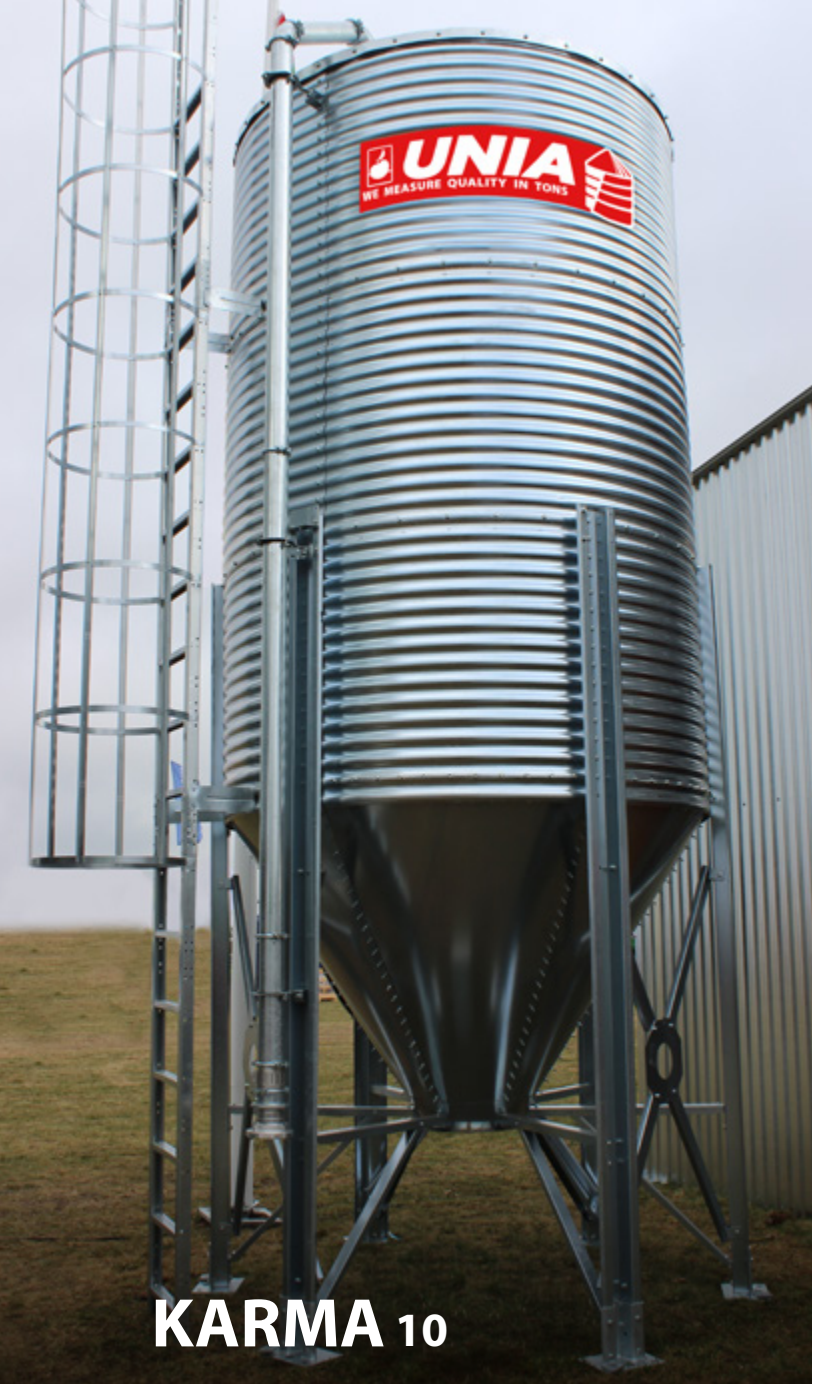
» **Easy and intuitive operating process**
Automatic changeover from drying to cooling mode with the possibility of recirculating the dried grain.

» **Enhanced thermal insulation**
Insulated warm air intake ducts with the possibility of insulating entire columns.

» **Additional equipment**
The **PREMIUM version** is additionally equipped with a transport device and grain circulation automation.
The **OBI PREMIUM PLUS version** is additionally equipped with the CUG 30 aspiration system.

TECHNICAL SPECIFICATIONS

OBI		1000
Approximate filling capacity [t]		17.7
Total thermal power [kW]		1,000
Number of fans [pcs]		2
RAPE SEED– efficiency when drying from 13% to 7%	daily throughput [t/24h]	114
	total drying cycle [h]	3.8
WHEAT – efficiency when drying from 19% to 15%	daily throughput [t/24h]	148
	total drying cycle [h]	2.9
CORN – efficiency when drying from 30% to 15%	daily throughput [t/24h]	77
	total drying cycle [h]	5.6
Installed electrical power [kW] OBI 1 000		18.4
Installed electrical power [kW] OBI 1 000 Premium		+3.0 (AGA 300 elevator)
Installed electrical power [kW] OBI 1 000 Premium Plus		+3.0 (AGA 300 elevator) + 0.75 (aspiration chamber



KARMA

FEED SILOS

ADVANTAGES OF KARMA:

» **Wide range of uses**
Intended for temporary storage of ground grain and dry feed mixtures – granulated and loose, bran, chips, and pellets of various origin.
The angle of inclination of the hopper is 60°.

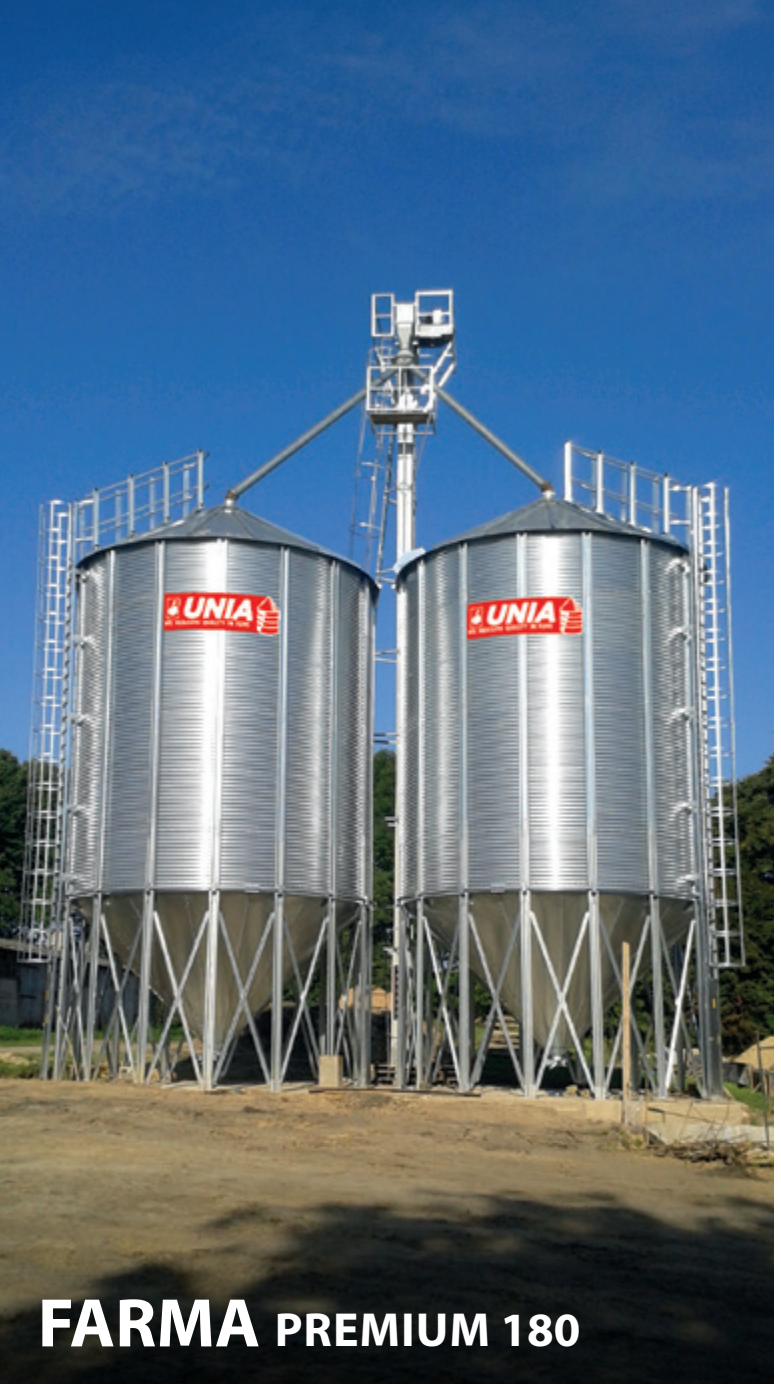
» **Protection against overheating**
The cylindrical part made of corrugated sheet metal prevents excessive heating of the material stored in the silo.

» **Exceptional functionality**
- In addition to the discharge and vent pipe, the silo has an additional inlet in the roof as standard.
- ø440 mm discharge is adapted for easy installation of a manual valve or collection auger.

» **No assembly required**
Ready for use once seated and installed on site.

TECHNICAL SPECIFICATIONS

KARMA	4	7	10	13	16
Total capacity [m^3]	8.8	13.4	18	22.7	27.3
Usable capacity [m^3]	6.5	11.1	15.7	20.4	25.1
Load capacity [t]	4.2	7.2	10.3	13.3	16.3
Total height [m]	4.3	5.44	6.62	7.76	8.9
Height of cylindrical part [m]	1.19	2.33	3.47	4.61	5.75
Hopper height [m]	2.49	2.49	2.49	2.49	2.49
Discharge height from the ground [m].	0.8	0.8	0.8	0.8	0.8
Diameter [m]	2.3	2.3	2.3	2.3	2.3
Weight [kg]	540	620	700	780	850



FARMA PREMIUM 180

FARMA PREMIUM

FARM SILOS

ADVANTAGES OF FARMA PREMIUM:

» **Tight construction**
Prevents water from entering the silo. The specially sealed connections of the sides and bolted elements ensure that the silo shell is impermeable.

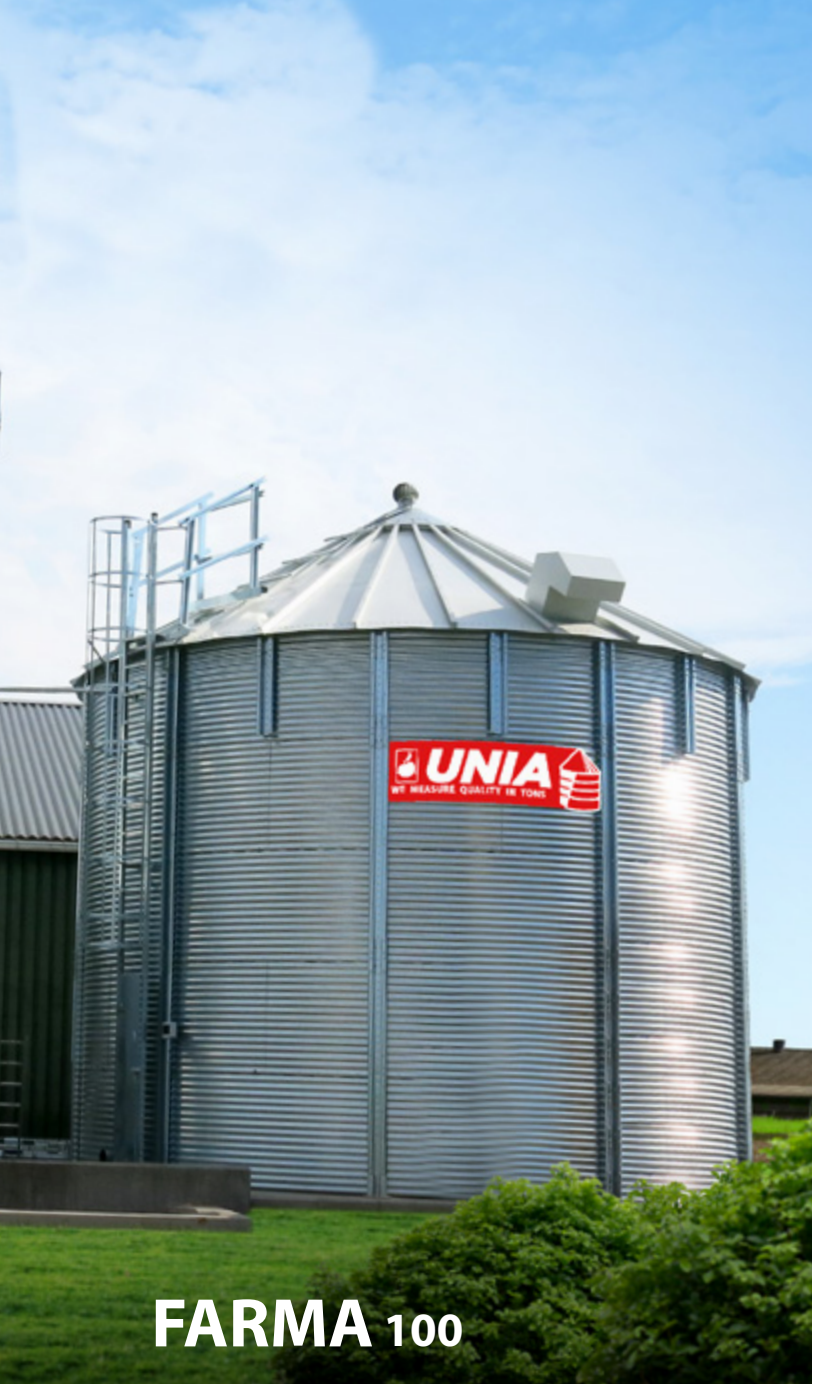
» **Silo shell stiffness**
Stiffness of the silo walls is ensured by corrugated sheet metal – each rolling process strengthens the material and makes it resistant to indentation.

» **High-quality construction material**
A sheet of Swedish steel, with a special coating that provides optimum protection particularly in difficult weather conditions.

» **Gravity discharge of the silo**
Thanks to the design of the hopper, the silo is emptied without additional equipment.

TECHNICAL SPECIFICATIONS

FARMA PREMIUM	35	45	55	70	100	130	180
Total capacity [m^3]	51	64	77	96	134	182	249
Usable capacity [m^3]	45	58	71	87	125	166	233
Load capacity [t]	35	45	55	68	97	130	182
Total height [m]	7.07	8.21	9.35	8.93	11.21	10.27	12.55
Height of cylindrical part [m]	3.47	4.61	5.75	4.61	6.89	4.61	6.89
Hopper height [m]	2.5	2.5	2.5	3	3	3.9	3.9
Discharge height from the ground [m].	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Diameter [m]	3.8	3.8	3.8	4.6	4.6	6.1	6.1
Weight [kg]	1,750	1,940	2,120	2,500	2,950	4,180	4,750



FARMA

FARM SILOS

ADVANTAGES OF FARMA:

» **Tight construction**
Prevents water from entering the silo. The specially sealed connections of the sides and bolted elements ensure that the silo shell is impermeable.

» **Silo shell stiffness**
Ensured by corrugated sheet metal. Each rolling process strengthens the material and makes it resistant to indentation.

» **High-quality construction material**
A sheet of Swedish steel, with a special coating that provides optimum protection particularly in difficult weather conditions.

» **Active ventilation system**
With grain in the silo - the use of an exhaust head on the silo roof prevents the moisture level from rising.

TECHNICAL SPECIFICATIONS

FARMA	50	80	100	150	200	250
Total capacity [m^3]	83	121	160	230	300	371
Usable capacity [m^3]	65	103	120	187	254	321
Load capacity [t]	51	80	94	146	198	250
Total height [m]	5.93	8.21	6.37	8.65	10.93	13.21
Height of cylindrical part [m]	4.61	6.89	4.61	6.89	9.17	11.45
Diameter [m]	4.6	4.6	6.1	6.1	6.1	6.1
Weight [kg]	1,450	1,800	1,890	2,400	3,240	3,840

Since our foundation, we have placed great emphasis on direct contact with our customers. We present our machines at various industry events and in this way establish close relationships with farmers. We are convinced that this direct exchange is essential to understand the expectations of the industry. By actively listening to the needs of upcoming farmers' generations, we gain important insights to constantly improve our service.

Thanks to cooperation with specialised trade partners, our products are present in more than 60 countries on all continents. With our global presence and expertise, we offer not only state-of-the-art technology, but also optimal agricultural solutions that stand up to the world's most demanding markets.

Our extensive range of agricultural machinery includes cultivation equipment, seeders and tillers, fertiliser and fertiliser spreaders, balers and wrappers, field sprayers, potato harvesters and grain storage solutions. With this wide range, we help farmers achieve optimal yields and increase agricultural efficiency.

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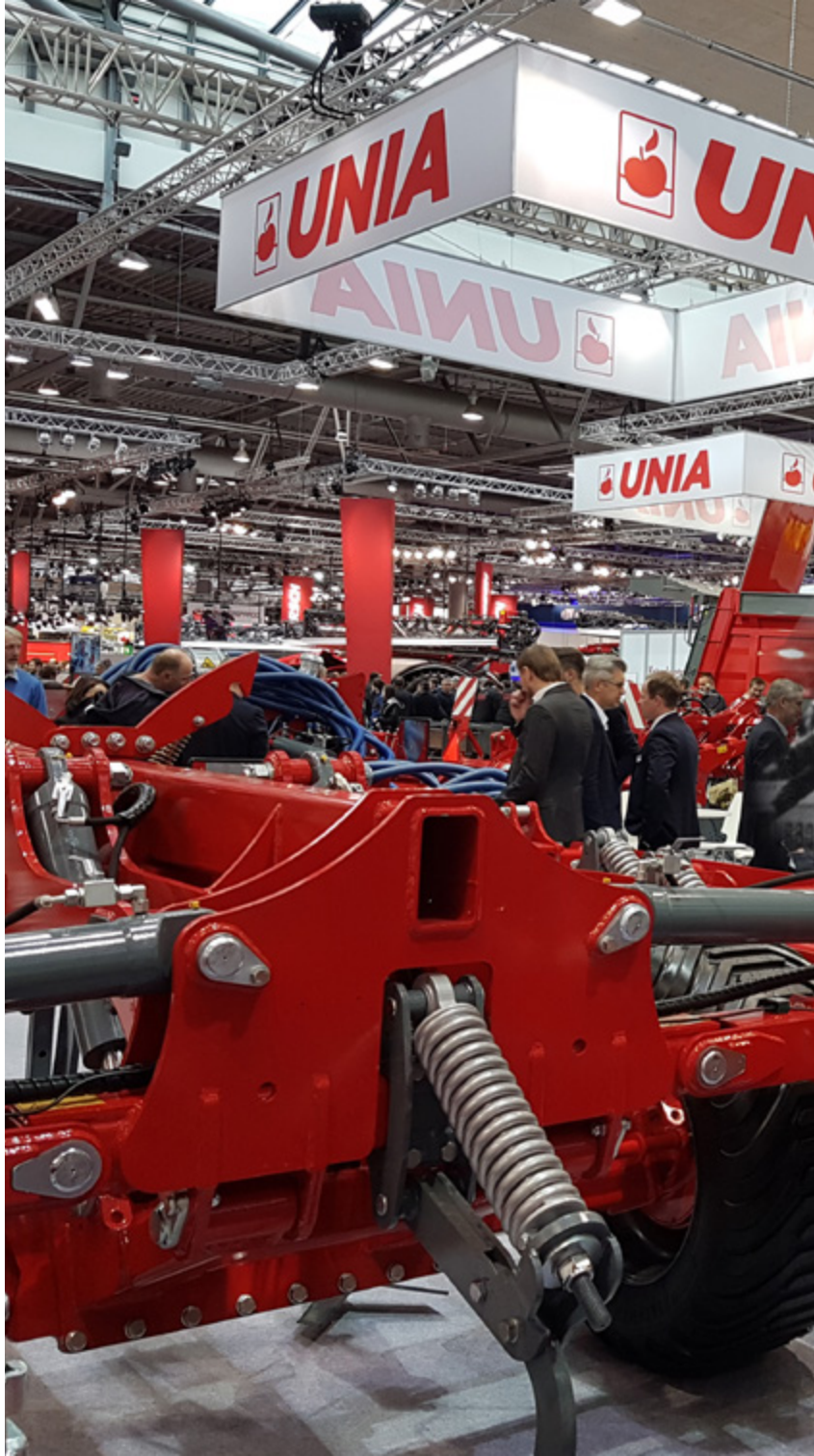


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NOTES

NOTES

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