

KÖCKERLING

Total over view leaflet



In 1955 the Köckerling Bros Heinrich and Friedrich laid the foundations for an industrial production of soil working machines in east Westphalia (near Gütersloh/Bielefeld).

In the beginning seed combinations and rotary cultivators were being produced. In the last 35 years Köckerling have specialised in producing machines for ploughless farming. From the beginning the success of the company has been the close contact with farmers and practical far-

ming. A tradition of skilled craftsmanship, years of experience in tillage equipment and a good understanding of solutions to tillage problems is a good basis for the future.

Customer orientated thinking and the ability to provide customer satisfaction and service support from Köckerling is the basis for the partnership with Machinery Dealers.



Our target: Satisfied customers

Long years of experience, technical know how and personal contact - the aim of all of the Köckerling personnel. Product development, construction, production and assembly through to accounts and marketing have one target = The production of effective machines for modern agriculture and satisfied customers.

High quality parts for effective machines

For the production of all machines only material of the highest quality has been used. All the parts used by Köckerling are of the highest quality material.

First class service from

- a basic fundamental consultancy,
- a reliable wearing parts supply,
- an effective Service department,
- a personal business partner, that can offer the best possible support.

ALLROUNDER -classic- 2.0

The universal cultivator

The universal cultivator with low power requirement

Due to its high and spacious frame design (clearance height 60 cm), the Allrounder -classic- is not a classic seedbed harrow, but more of a universal machine with a wide variety of jobs.

These include:

- mechanical weed control
- first stubble cultivation
- second stubble cultivation
- Seedbed preparation
- Loosening and aerating the soil
- Incorporation of slurry and manure

Hardly any other soil cultivation device can be used more universally than the Allrounder -classic-. Due to the many equipment options, the Allrounder -classic- can be optimally adapted to the requirements of your farm.

The machine is made from high-quality components that guarantee a long service life. For convenient operation, the Allrounder -classic- 2.0 is available with hydraulic depth adjustment. This means that the working depth of the machine can be continuously changed during work in order to be able to react optimally to the conditions on the surface. A large selection of points ensures the best performance for every application.

The technical data

Working width	4.05 m	5.25 m	5.85 m
Transport width	2.80 m	2.80 m	2.80 m
Number of tines	27	35	39
Tine spacing	15 cm	15 cm	15 cm
Under frame clearance	60 cm	60 cm	60 cm
Weight (differs, depending on selected options)	2,000 kg	2,300 kg	2,450 kg
Roller	Crumbler 350 mm Double - crumbler 450 mm / 350 mm STS roller 530 mm Double - STS roller 530 mm Tube-bar crumbler		
Levelling	Hydr. Levelboard, levellers		
Power requirement	100 HP	120 HP	140 HP



Bio - Allrounder

We call our Allrounder -classic- the "Eco-Allrounder" if it is equipped without a roller but with a two- or three-bar rear harrow.

With a few modifications, the Allrounder -classic- can be converted into a perfect organic cultivator that sets standards in mechanical weed control. The Eco-Allrounder is mainly used in organic farming. Conventional farms often use the machine in some areas to reduce or replace chemical weed control. In order to be able to precisely maintain the working depth, the Eco-Allrounder is equipped with four large support wheels, which are attached behind the last row of tines. There is also a tine behind the wheels, which are integrated into the depth control. In this way, the machine is able to work very shallow.

The main focus of the Eco-Allrounder is of course on the full-surface cultivation and the accurate working out of the weeds. The robust tines are

mounted on a total of 4 rows and have a spacing of 15 cm. Equipped with 22 cm wide goosefoot points, the machine reaches a secured cut of the plants across the entire working width. Now it is important that the plants are freed from clinging soil at the roots and that the remaining plants are then pulled to the surface to dry. The double/triple harrow is responsible for this task. It pulls the remaining plants out of the ground and leaves them on the surface. Particularly convenient: the double/triple harrow is hydraulically adjustable and its aggressiveness can be infinitely varied. Even when changing the working depth, the following harrow constantly maintains the set aggressiveness.



The technical data

Working width	4.05 m	5.25 m	5.85 m	7.05 m
Transport width	2.80 m	2.80 m	2.80 m	3.00 m
Number of tines	27	35	39	47
Tine spacing	15 cm	15 cm	15 cm	15 cm
Under frame clearance	60 cm	60 cm	60 cm	60 cm
Weight (differs, depending on selected options)	2,000 kg	2,300 kg	2,450 kg	3,300 kg
Options	rear support wheels front support wheels			
Levelling	hydr. Levelboard, levellers			
Power requirement	100 HP	120 HP	140 HP	230 HP



ALLROUNDER -profiline-

The universal cultivator

The cultivator with transport chassis

The Allrounder -profiline- is equipped with a double STS roller, an integrated transport arrangement and a massive tine frame. The working depth is controlled by the front support wheels and the rear double STS roller. For safe road transport the folding wings reduce the width to 3.00 m. On the Allrounder -profiline- 900 - 1450 the side panels are folded in twice.



The technical data

Working width	6.00 m	7.50 m	9.00 m	9.35 m	12.00 m	12.70 m	14.30 m
Transport width	3.00 m	3.00 m	3.00 m	3.00 m	3.00 m	3.00 m	3.00 m
Number of tines	36	44	54	56	72	76	86
Tine spacing	16.70 cm	16.70 cm	16.70 cm	16.70 cm	16.70 cm	16.70 cm	16.70 cm
Tine bar spacing	60 cm	60 cm	60 cm	60 cm	60 cm	60 cm	60 cm
Under frame clearance	60 cm	60 cm	60 cm	60 cm	60 cm	60 cm	60 cm
Weight	4,600 kg	5,400 kg	7,000 kg	9,650 kg	8,650 kg	12,246 kg	12,980 kg
Roller Ø	Double - STS - roller 530 mm with tine spacing 111 mm						
Transport wheels	500/50-17"	500/50-17"	500/50-20"	600/55-22,5"	500/50-20"	600/55-22,5"	600/55-22,5"
Depth wheels	380/55-17"	380/55-17"	380/55-17"	380/55-17"	380/55-17"	380/55-17"	380/55-17"
Power requirement	180 HP	220 HP	250 HP	300 HP	300 HP	350 HP	400 HP



ALLROUNDER -profiline- 2.0

The universal cultivator

The universal cultivator for many tasks

The universal cultivator Allrounder -profiline- 900/1230 2.0 is designed for precise, shallow soil cultivation. Its areas of application range from mechanical weed control and manure incorporation to stubble cultivation and seedbed preparation. A special feature of the machine is undoubtedly its innovative contour adjustment, which allows the machine to maintain the set working depth unconditionally, regardless of whether there are ridges or depressions on the surface that need to be overcome. Another particu-

larly convenient feature is the machine's hydraulic depth adjustment, which allows the working depth to be adjusted continuously from the tractor seat, even on the move. To ensure that the machine can be perfectly adapted to the requirements of the operation, there are various optional tools with which the machine can be equipped accordingly. These include for example, track loosener, knife roller, front level board, double-spring tines and much more.

The technical data

Working width	9.00 m	12.30 m
Transport width	3.00 m	3.00 m
Number of tines	55	75
Tine spacing	164 mm	164 mm
Tine bar spacing	760/700/760 mm	760/700/760 mm
Under frame clearance	600 mm	600 mm
Wheels	620/40R22,5	620/40R22,5
Number of harrow	42	58
Depth wheels	380/55-17	380/55-17
Weight	9,500 kg	11,900 kg
Power requirement	300 HP	350 HP



ALLROUNDER -flatline- The precision cultivator

The universal cultivator with an excellent contour adaptation

The Allrounder -flatline- is designed for an extremely precise soil preparation and the incorporation of difficult organic material, at the same time excellent contour adaptation to the surface to be worked.

For the unconditional maintenance of the set working depth, especially in the very shallow working area, the Allrounder -flatline- is equipped with four solid front support wheels and a double STS roller. The working depth can be adjusted hydraulically from the tractor seat. Thus, an adjustment of the depth is also possible during work. A clearly visible scale indicates which working position the machine is running on. In order to guarantee the same working depth across the entire working width of the machine, the Allrounder -flatline- is equipped with an outstanding contour adjustment. The contour adjustment is based on the one hand on four front support wheels, which are mounted at a great distance from each other on the machine and on the other hand with the possibility of the folding parts of the machine also over and under stretch. Thus, the relief of the surface is scanned and the Allrounder -flatline- works reliably in the set working depth.

Even large amounts of organic material can be incorporated optimally, the tines are mounted on a total of six bars. So the Allrounder -flatline- can have a very narrow tine spacing of only 130 mm, but has sufficient clearance for plant residues around each tine. The great length of the Allrounder -flatline- proves to be a guarantee for trouble-free work, even at difficult conditions. Another special feature is the excellent leveling of the surface, because the soil lingers long in the machine, mixes well with organic material and is then optimally distributed.

The field of application of the Allrounder -flatline- extends from very shallow soil tillage up to 13 cm deep loosening. Optionally, various tools are available, e. g. the points 60 mm or a goose foot point with 220 mm cutting width. The Allrounder -flatline- can also be equipped with a leading knife roller and a level board for the special adjustment to the operation and the arising requirements.

The technical data

Working width	5.00 m	6.00 m	7.50 m	9.00 m
Transport width	3.00 m	3.00 m	3.00 m	3.00 m
Number of tines	39	47	59	69
Tine spacing	13 cm	13 cm	13 cm	13 cm
Tine bar spacing	70 cm	70 cm	70 cm	70 cm
Under frame clearance	64 cm	64 cm	64 cm	64 cm
Transport wheels	500/55-20"	500/55-20"	500/55-20"	620/40R22,5"
Depth wheels	380/55-17"	380/55-17"	380/55-17"	380/55-17"
Ring spacing	13 cm	13 cm	13 cm	13 cm
Weight (with maximum equipment)	7,540 kg	8,150 kg	9,710 kg	10,750 kg
Power requirement	220 HP	250 HP	300 HP	350 HP



TRIO

The stubble cultivator

The Trio stubble cultivator for flat stubble cultivation and deep loosening

The first stubble working is usually shallow, so the volunteers and weed seeds are not buried deep. At the same time the capillary structure is broken, restricting the drying out process. The Trio is equipped with winged points to move all the ground at shallow depths, so that straw and stubble is mixed properly. For very dry conditions and shallow working, Köckerling offers the TOP-MIX goose foot point.

Second pass can go down to 25 cm, e. g. for rape to aerate the soil and for further mixing straw and organics. This way the following crop has the best germination conditions. For deep work the wing is removed from tine. Now the TOP-MIX point works at 80 mm width, with the soil guide for the optimum mixing effect. The adjustable spring sweeper leveller evens out the ridges left by the tines and is not affected by stones. The result: low wear costs. The following STS roller is an original from Köckerling, and is now used all over Europe. The 'U' profile rings fill with soil, so that the

friction between the soil in the ring and the soil in the field keeps the roller turning and creating an optimum reconsolidation effect. In particular the STS roller allows working in damp conditions in spring and late autumn. The adjustable following harrow, which is integrated with the STS roller, is a very useful tool. It leaves an improved straw mixing and an even finish. The stone protection utilises coil springs and is standard equipment. For lighter and stone free soils, the Trio without the coils spring but equipped with a shear bolt protection, is available. The stone protection system has been used on thousands of farms across Europe. The coil spring protection system is supported with a replaceable block of polyamid. Even in details Köckerling places great importance in the quality. The three point linkage attachment points are made from special steel that avoid hole wear.

The technical data

Working width	2.50 m	3.00 m	4.00 m
Transport width	2.50 m	3.00 m	3.00 m
Number of tines	8	10	13
Tine spacing	30 cm	30 cm	30 cm
Tine bar spacing	80 cm	80 cm	80 cm
Under frame clearance	85 cm	85 cm	85 cm
Weight	1,460 kg	1,680 kg	2,480 kg
Roller	STS - roller 530 mm Ø Double - STS - roller 530 m Ø		
Levelling	Sweeper leveller / Disc leveller		
Power requirement	80 HP	100 HP	140 HP



QUADRO

The stubble cultivator

The 4 bar universal cultivator for shallow stubble cultivation and deep soil loosening

The name Quadro identifies the four bar cultivator series of the Köckerling product range. The quality of the straw working and the straw distribution is dependent on the number and distribution of the tines. Basically the more tines the better the work, however the layout of the tines must also produce block free working. The Quadro series is equipped with hydraulic transport wheels, which make road transport, and turning on the headlands fast and reliable. The working depth of the Quadro is between 5 - 30 cm. This allows the machine to work shallow, when working in straw and deeper to loosen the soil. The Quadro is equipped with stone-protected TOP-MIX tines. The huge front depth wheels adjust the depth and the double STS

roller mounted at the rear. This way an even working depth is guaranteed. The front depth wheels are mounted out wide, to limit side ways movement. A particular advantage on the 4.0 m and the 4.6 m models is the ability to work with the wings folded at 3.0 m. To achieve this, the front depth wheels are mounted on the centre section of the machine. When the tractor power is too small for deep working, the 3.0 m centre section compensates for the lack of power. When working shallow the 350 mm wings points or the 320 mm goosefoot points are used. The wings are removed when working deep, utilising the point and the soil guides.

The technical data

Working width	3.00 m	4.00 m	4.60 m	5.70 m
Transport width	3.00 m	3.00 m	3.00 m	3.00 m
Number of tines	11	15	17	21
Tine spacing	27 cm	27 cm	27 cm	27 cm
Tine bar spacing	620-750 mm	620-750 mm	620-750 mm	620-750 mm
Under frame clearance	85 cm	85 cm	85 cm	85 cm
Transport wheels	480/45-17"	480/45-17"	480/45-17"	480/45-17"
Depth wheels	380/55-17"	380/55-17"	380/55-17"	380/55-17"
Weight	3,300 kg	5,000 kg	5,300 kg	5,800 kg
Power requirement	140 HP	170 HP	190 HP	240 HP

The targets of stubble working are:

Even straw distribution, the creation of a homogeneous stale seedbed, soil aeration for the following crop and a good reconsolidation.

Other technical requirements are:

A strong frame with a long working life, a robust and safe stone protection for the hardest conditions, the ability to work shallow and to work deep, low wear costs on hinge points and a reliable work quality even in damp conditions.

The double STS roller has proven value over many years. During work the open rings fill with soil so that the friction between the soil in the rings and the soil in the field keep the roller turning (soil to soil). This way the surface is not to finely worked causing capping in times of heavy rain fall. The spring loaded following harrow completes the straw distribution and the final levelling.



VECTOR

The stubble cultivator

The 4 bar stale seedbed cultivator for shallow working and for deep soil loosening.

The Vector stale seed-bed cultivator is the consequence of further development of the Quadro for professional farmers.

The key to the Vector is the 'Easy Shift' depth control which allows the depth to be varied in work, without stopping and without leaving the tractor. It allows infinitely variable depth control from the tractor seat ensuring the optimum work depth. The driver can choose the best depth, whether in sandy or in wet areas or on clay.

Advantage of the Vector: The working width can be altered e.g. from 4.60 m to 6.20 m, the 5.70 m to 8.00 m and the 7.00 m to 9.00 m. It is a simple job to remove the outer wing by undoing bolts. This way the Vector can be adapted to suit power availability and field conditions. The new tine design used on the Vector, increases the under frame clearance and allows working down to 30 cm. As with the Quadro, the Top-Mix points can quickly be adapted to suit the chosen work. The Top-Mix soil guide reduces blockages and improves the mixing effect in particularly heavy straw, such as triticale, rye or after grain maize. Large front depth wheels are the guarantee

for a precise working depth, both in wet conditions and in light soils. The proven double STS roller is now found on almost all KÖCKERLING machines. This underlines our satisfaction with this roller. Simple, robust, unhindered by stones and able to work in wet conditions. The STS roller performs on countless machines throughout Europe. As an alternative, the TT roller is available for very heavy soil, with particularly high contact pressure to reliably crush soil aggregates. If the Vector is mainly used on sandy surfaces, the machine can also be equipped with an extra large STS roller (630 mm), significantly increasing its load-bearing capacity and running smoothness. The spring loaded following harrow produces the optimum straw distribution and levelling. The ability to adjust the pressure on the ground is valued by all practical farmers. For road transport, the Vector is equipped with a hydraulically controlled transport system and the machine is completely trailed. The following attachment points are offered: CAT III, CAT IV, 50 mm draw bar clevis and a K 80 ball.

The technical data

Working width	4.60 m	6.20 m	5.70 m	8.00 m	7.00 m	9.00 m
Transport width	3.00 m					
Number of tines	17	23	21	29	25	33
Tine spacing	27 cm					
Tine bar spacing	700-950 mm	700-950 mm	700-950 mm	700-950 mm	800 mm	800 mm
Under frame clearance	85 cm					
Transport wheels 25 km / h approval	500/55-20"	500/55-20"	500/55-20"	500/55-20"	--	--
Transport wheels 40 km / h approval	560/60-22,5"	560/60-22,5"	560/60-22,5"	560/60-22,5"	560/60-22,5"	560/60-22,5"
Depth wheels	380/55-17"	380/55-17"	380/55-17"	380/55-17"	380/55-17"	380/55-17"
Weight	5,950 kg	7,400 kg	6,850 kg	8,430 kg	8,320 kg	9,710 kg
Power requirement	200 HP	260 HP	240 HP	350 HP	320 HP	400 HP



VARIO

The stale seedbed cultivator

8 tine bars for maximum working quality

The name precision cultivator stands for the hydraulically adjustable 8 bar cultivator from Köckerling. It is the flagship of the Köckerling range and is the machine for professional arable farmers.

With a length of 8.00 m and a tine spacing of 130 mm, the quality of work is unbeatable. Soil and straw is carried in the precision cultivator for many meters, producing the optimum mixture and even distribution.

The heavy leaf spring tines work are unaffected by stones and maintenance free. There are two point options; 100 mm and 60 mm chisel points. The point is chosen to suit the working depth. They are reversible and can be moved down for further wear, this reduces the costs for wear.

The 8 bar precision cultivator has been available for many years and is particularly valued. The precision cultivator is used for primary and secondary stubble cultivations and produces the right conditions for all soil types and following crops.

The working depth can be varied on the move from the tractor driver's seat; this means that the optimum working depth is achieved all over the field. It is irrelevant, whether working on weedy headlands or on wet patches, the working depth can be quickly altered to suit changing conditions.

The successful double STS roller is able to work at different conditions, even when things get a bit tougher.

The technical data

Working width	3.00 m	4.00 m	4.80 m	5.70 m	5.30 m	5.30 m/7.50 m
Transport width	3.00 m	3.00 m				
Number of tines	23	31	37	43	41	57
Tine spacing	13 cm	13 cm				
Under frame clearance	85 cm	85 cm				
Transport wheels	480/45-17"	480/45-17"	500/50-17"	500/50-17"	560/60-22,5"	560/60-22,5"
Depth wheels	380/55-17"	380/55-17"	380/55-17"	380/55-17"	380/55-17"	380/55-17"
Weight	4,450 kg	5,910 kg	6,880 kg	7,210 kg	8,210 kg	10,020 kg
Power requirement	160 HP	180 HP	240 HP	260 HP	300 HP	400 HP



REBELL -classic- The compact disc harrow

The mounted compact disc harrow

Rebell -classic- is the successful compact disc harrow of Köckerling. This innovative machine is built very compactly with solid materials and ensures use under nearly every condition. Rebell -classic- is designed for working in stubble directly after harvesting, but also for seedbed preparation and on ploughed fields for leveling and crushing blocks of soil. The working depth can be chosen between 2 cm and 12 cm. The Rebell -classic- is easy to pull and offers you a quick finish of necessary field operations. In particular, the suspension of the discs has been redesigned. You can choose between two suspension options to configure the machine to the

conditions of your area. On the one hand the well-known leaf spring suspension is available, on the other hand Köckerling offers a spiral suspension as an option. The spiral-suspended support is characterized by an aggressive engagement of the discs in the ground and more intensive mixing. Even at high working speeds, the spring loaded suspension ensures smooth running and reliable penetration of the discs into the ground. On farms with rather light soils, it is recommended to equip the machines with a leaf spring suspension, to get the most out of the job.



The technical data

Working width	3.00 m	4.10 m	5.20 m	6.00 m*
Transport width	3.00 m	2.90 m	2.90 m	2.90 m
No. of discs (510 mm x 5 mm)	22	34	42	46
Disc-/ roller ring spacing	130 mm	130 mm	130 mm	130 mm
Tine bar spacing	700 mm	700 mm	700 mm	700 mm
Under frame clearance	600 mm	600 mm	600 mm	600 mm
Disc diameter	510 mm	510 mm	510 mm	510 mm
Cutting angle	16°	16°	16°	16°
Penetration angle	16°	16°	16°	7°
Weight	1,490 kg	2,580 kg	2,980 kg	3,010 kg
Power requirement	110 HP	150 HP	180 HP	200 HP
Roller	Tube-bar crumbler Double-STS-roller, 530 mm Ø STS-roller, 530 mm Ø			* only with Tube-bar crumbler



REBELL -classic- T

The compact disc harrow

Compact disc harrow with transport wheels for large scale farms

Rebell -classic- T is the successful compact disc harrow of Köckerling. This innovative machine is built very compactly with solid materials and ensures use under nearly every condition. Rebell -classic- T is designed for working in stubble directly after harvesting, but also for seedbed preparation and on ploughed fields for leveling and crushing blocks of soil. The working depth can be chosen between 2 cm and 12 cm. The Rebell -classic- T is easy to pull and offers you a quick finish of necessary field operations. In particular, the suspension of the discs has been redesigned. You can choose between

two suspension options to configure the machine to the conditions of your area. On the one hand the well-known leaf spring suspension is available, on the other hand Köckerling offers a spiral suspension as an option. The spiral-suspended support is characterized by an aggressive engagement of the discs in the ground and more intensive mixing. Even at high working speeds, the spring loaded suspension ensures smooth running and reliable penetration of the discs into the ground.

The technical data

Working width	5.00 m	6.00 m	8.00 m	10.50 m	12.50 m
Transport width	3.00 m	3.00 m	3.00 m	3.00 m	3.00 m
No. of discs	42	50	62	82	98
Disc-/ roller ring spacing	130 mm	130 mm	130 mm	130 mm	130 mm
Tine bar spacing	760 mm	760 mm	760 mm	700 mm	700 mm
Under frame clearance	600 mm	600 mm	600 mm	600 mm	600 mm
Disc diameter	510 mm	510 mm	510 mm	510 mm	510 mm
Cutting angle	16°	16°	16°	16°	16°
Penetration angle	16°	16°	16°	16°	16°
Transport wheels	500/50-17	500/50-17	500/50-17	600/55-22,5"	600/55-22,5"
Depth wheels	380/55-17	380/55-17	380/55-17	380/55-17"	380/55-17"
Weight	5,060 kg	5,410 kg	6,300 kg	11,230 kg	12,000 kg
Power requirement	160 HP	180 HP	220 HP	300 HP	350 HP



REBELL -profiline-

The heavy compact disc harrow

The great disc harrow for maximum results

The Rebell -profiline- meets all requirements of a successful disc harrow:

- ... the optimum insertion of big quantities of straw during the stubble processing with 620 mm discs. In addition to that, the Rebell -profiline- provides an excellent reconsolidation and favours thus a quick germination of weeds.
- ... various possible applications. The Rebell -profiline- achieves not only an efficient stubble cultivation, but also the seed bed preparation after ploughing and the insertion of cover crops, before the drilling is done with vigour.
- ... the solid construction of this machine. The high weight allows the penetration of the tools into the soil in any condition quit easy. The residues on the surface are cut reliably and inserted.
- ... maintenance costs. Each retraptable parts of the Rebell -profiline- are equipped with the lockpin-system. The discs are suspended with triply sealed, unattended two-row taper roller bearings.

The technical data

Working width	5.00 m	6.00 m	8.00 m
Transport width	3.00 m	3.00 m	3.00 m
No. of discs	32	40	52
Disc-/ roller ring spacing	150 mm	150 mm	150 mm
Tine bar spacing	1100 mm	1100 mm	1100 mm
Under frame clearance	830 mm	830 mm	830 mm
Disc diameter	620 mm	620 mm	620 mm
Cutting angle	17°	17°	17°
Penetration angle	21°	21°	21°
Transport wheels	560/60-22,5"	560/60-22,5"	560/60-22,5"
Depth wheels	380/55-17"	380/55-17"	380/55-17"
Weight	7,220 kg	8,600 kg	10,150 kg
Power requirement	220 HP	250 HP	300 HP



GRAVO

The powerful knife roller

Reliable, efficient, powerful!

With the KÖCKERLING Gravo, cover crops, oilseed rape, and maize stubble can be shredded quickly and efficiently, preparing them perfectly for the next cultivation step. The use of a knife roller is generally characterised by low fuel consumption and high area performance. The Gravo has been designed to be configured as required – allowing operation either at the front or the rear of the tractor.

Various optional features, such as a multiple rear harrow, make the machine highly versatile. The working widths are matched to the KÖCKERLING product range, enabling the Gravo to be perfectly combined with a variety of soil cultivation implements.

The Gravo stands out thanks to its short knife segments of 1.40 m to 1.60 m, ensuring optimal ground contour following. The first and second knife rows are deliberately not combined, which effectively prevents blockages. Drawn roller units in combination with spring-mounted elements provide maximum stone protection, even under challenging conditions. The counter-rotating spiral knives create a precise cross-cut for uniform processing. A steered front mounting frame completes the system, allowing precise track guidance and maximum manoeuvrability at the headland.

The technical data

Working width	530	610
Diameter of roller	360 mm	360 mm
Transport width	2,85 m	2,85 m
Distance betw. roller	460 mm	460 mm
No. of rotors	8	8
No. of knives	6	6
Under frame clearance	440 mm	440 mm
Harrow, no. of tines	56	65
Weight	1,850 kg *	2,325 kg **

* Add. weight, adapter, cover, lights

** Levelboard, add. weight, cover, lights

** Impactboard, add. weight, lights



VITU

The disc drill for precise seeding

The disc drill for precise seeding

Whether for seeding on ploughed fields, or seeding in min-till areas. Vitu is always the right choice and fits to every arable farming strategy. For meeting your demands, Vitu is equipped with a two row compact disc harrow, a strong level board, two row wheel packer and new double-disc-coulters. This allows Vitu to place seed extremely precisely in right position on your fields, even with drilling at high working speed. For placing fertilizer next to

seed in just one step, Köckerling offers Vitu - Combi. Vitu - Combi delivers fertilizer with disc coulters directly in front of the wheel packer. The hopper for this type of machine is divided into two sections and is equipped with two hydraulically driven metering units. For changing working depth of Vitu without leaving tractor, Köckerling uses an electro-hydraulic-depth-control.



The technical data

Working width	3.00 m	4.00 m	6.00 m	6.00 m Combi
Transport width	3.00 m	3.00 m	3.00 m	3.00 m
No. of discs	22	30	42	42
Disc harrow	450 mm	450 mm	450 mm	450 mm
Spacing between discs	136 mm	133 mm	143 mm	143 mm
No. of disc - coulters (fertilizer)	--	--	--	21
No. of wheels	11	15	21	21
No. of double disc coulters (seed)	22	30	42	42
Hopper capacity	2,800 l	2,800 l	3,700 l	4,300 l
Linkage	Kat III	Kat III	Kat III	Kat III
Weight	4,410 kg	6,230 kg	7,950 kg	8,300 kg
Power requirement	140 HP	170 HP	220 HP	250 HP



JOCKEY

The tine drill

The easy pulling and powerful drill for the successful arable farmer

Many universal drills require a lot of horse power, due to their heavy weight, leading to high diesel consumption. The Jockey 600 is opposite to this, due to its compact and simple design. It is easy to pull and requires low diesel consumption and can operate on ploughed ground and into stale seed beds. Less can often be more. Reliable seed placement is achieved even at high speeds. The drill is hydraulically driven via a pump. The speed is monitored by gps signal. This allows increased or reduced seed rates as conditions dictate at the push of a button.

The technical data

Working width	6.00 m
Transport width	3.00 m
Number of tines	36
Tine spacing	16.67 cm
Tine bar spacing	60 cm
Under frame clearance	60 cm
Transport wheels	500/50-17"
Depth wheels	380/55-17"
Hopper capacity	2,800 l
Weight	5,750 kg
Power requirement	180 HP



ULTIMA CS

The universal seed drill

The universal drill for professional farmers

The universal drill Ultima CS is known for high performance in all conditions. For many years the Ultima CS drill has been used by professional farmers sowing cereals, rape, beans, peas or maize. Excellent yields and low operating costs make this drill suitable over all. The Ultima CS is a compact, high output drill with working widths of 3.00 m, 4.00 m, 6.00 m, 7.20 m and 7.50 m. A new shape seed hopper is mounted length ways on the frame. A large tank opening and low height makes it easy to fill. The tank has an capacity

of 3000 ltr or 3500 ltr. A pre-press wheel in front of the sowing element follows the ground contours. The sowing element consistently puts the seed in the ground at the selected depth. The depth can be changed quickly and simply. All sowing elements are linked hydraulically. When encountering a stone, the tine can move over or round the obstruction, without damage and without effecting the neighbouring sowing elements.

The technical data

Working width	3.00 m	4.00 m	6.00 m	7.20 m	7.50 m
Transport width	3.00 m	3.00 m	3.00 m	3.00 m	3.00 m
Transport high	2.70 m	2.70 m	3.50 m	3.95 m	4.00 m
Number of sowing elements	16	22	32	38	40
Row spacing	187.5 mm	187.5 mm	187.5 mm	189.5 mm	187.5
Transport wheels	500/55R20	500/55R20	650/50R22,5	650/50R22,5	650/50R22,5
Hopper capacity	3,000 l	3,000 l	3,500 l	3,500 l	3,500 l
Weight	4,670 kg*	6,250 kg*	8,470 kg*	10,150 kg*	10,600 kg
Power requirement	140 HP	160 HP	220 HP	270 HP	300 HP
Attachment	Lower link attachment				



ULTIMA 800

The universal drill

The universal drill for mulch and direct drilling

The Ultima 800 offers completely different possibilities to professional farmers. Whether on ploughed ground, through to mulch drilling or direct drilling, the Ultima 800 guarantees an even sowing depth at high speeds. The sowing depth is controlled by a pre-press wheel that is mounted in front of each tine. This guarantees the consistent working depth on uneven surfaces. The 60 (15) mm wide sowing elements deliver band sowing with a spacing of 12.5 cm. The seed is pneumatically delivered into the groove left by the sowing element and it is covered by spring leveller sweeps. The STS roller reconsolidates the soil and following harrow finishes the work. Each sowing element is followed by a ring of the STS roller for exact reconsolidation, guaranteeing a good capillary action. The working depth of the sowing

element is altered by a hydraulic cylinder. Within seconds, the working depth across the whole drill can be altered from the tractor seat. This allows the right depth to be selected however the conditions are. The pre-press wheels in front of the sowing element carry 70% of the machine weight, ensuring the sowing elements are working into firm ground. Press, sow, press. This is the Ultima 800 system. Fast and even seed delivery is proof of the sowing quality of the Ultima 800. Professional technology for the professional farmers. The specification offered by the Ultima 800, incorporates all the requirements of an innovative drill. All functions, fan speed, hopper contents, tramlining, metering wheel, pre emergent markers and fan speeds are monitored by sensors. Optionally a seed flow monitor can be supplied.

The technical data

Working width	8.00 m
Transport width	3.00 m
Number of sowing elements	44
Row spacing	187 mm
Hopper capacity	4,000 l
Weight	10,100 kg
Power requirement	275 HP



GRASMASTER

The grassland scarifying harrow

The seeding harrow for professionals

Improving grassland requires various work. Opening up the sward in spring, together with rolling, are ways to raise the grassland quality. For some years now, much has been learnt about the effect of grass scarifying. The Grasmaster is a special scarifying harrow, that removes all old grass, meadow grass, moss and weeds. Molehills are levelled and dry dung pats are shattered. The massive cross board leveller really works well, levelling molehills and breaking clods when reseeding on ploughed ground. The special spring steel harrow tines, designed for grassland work, are aggressive and remove the dead grass, dandelions and other broad leaf weeds. All tine segments are supported by a land wheel, that permits precise ground contact. A mounted seed drill is an option. Its fan is powered by a pto shaft,

to ensure a constant and strong flow of air, which gives an even seed distribution. The metering wheel is driven by a spoked land wheel, the seed is delivered down 8 tubes into the tine segments, where the vibration of the tines spread the seed all over the ground. For many dairy farmers, the Grasmaster is the perfect machine for grass land maintenance and re-seeding. Increased profits of 15% are not unusual in the first two years. Critical for this effect is the timing of the overseeding operation. Warm damp conditions make the germination more certain. The growth of the new grass is impeded in dry conditions or by late frosts. The grass varieties are also critical and should match the climate, altitude and be the right mixture for the prevailing conditions.

The technical data

Working width	3.00 m	6.00 m
Transport width	3.00 m	3.00 m
Tine field	2	4
Tines per field	60	60
Tine diameter	8 mm	8 mm
Tine spacing	25 mm	25 mm
Hopper capacity	410 ltr	410 ltr
Weight following harrow solo / with seed drill	680 kg/ 910 kg	910 kg / 1,150 kg
Power requirement	60 HP	80 HP



BOXER

System for carrying and metering

A perfect machine for entrainment, metering, mixing and delivering seeds and/or fertilizers. The Boxer is trailed to the tractor with a three point linkage. In combination with various machines, like cultivators, disc harrows, seeders or strip till seeders, the boxer can distribute effectively the entrained seeds or fertilizers.

Often the Boxer is used in combination with trailed cultivators. This allows to place fertilizer directly behind the tine in an opened slot, and the seed (e.g. small seeds, rape,...) in front of the roller.

The technical data

Hopper capacity	2 x 1,450 l.
Max. output	1.5 kg/ha - 400 kg/ha
Mounting	CAT III
Min. oil pressure	45l/min (direct drive or fan drive)
Transport width	3.00 m
Weight	1,200 kg



SPEED DRILL

Fine seed drill

With Köckerling's Speed drill for small seeds like cover crops, oilseed rape and other, can be drilled while the soil is being tilled. This saves passes, time and costs in times where weather-windows are getting narrow. The seed rate is very accurate and can be changed on the go out of the

cabine. The very uniform seed distribution of the Speed drill is guaranteed by the strong fan, driven by the tractor hydraulics. This allows even to drill bigger seeds like beans and corn.

The technical data

Hopper capacity	400 ltr
Fan	hydraulic drive
Metering unit	electro-hydraulic drive
Weight	205 kg



TRACTION POWER KIT

While working, pressure is given to hydraulic cylinder of traction power kit. It is important, that hydraulic cylinder is constantly delivered with 5-10 ltr per min. That is for compensating different conditions on fields, as depressions e. g. A manometer, which is mounted at hydraulic cylinder, helps to set up power traction kit and to check pressure while working.

Advise: For exact coupling between tractor and power traction kit, Köckerling delivers a special adapter for each tractor brand and type. This guarantees optimum performance of traction power kit.

Benefits:

- Optimally traction of tractor
- No need for weights in tractor wheels
- Less fuel consumption of tractor



PWA

- high passage rate due to the 2-row offset
- uniform reconsolidation due to hydraulic loading of the side sections
- good self-cleaning due to 2-row offset of the rings
- optimum crumbling due to polygon ring rollers
- also ideal for solo use for subsequent rolling

The PWA is available in working widths of 5.00 m, 6.40 m, 6.80 m and 8.20 m. The PWA 500/680 can be extended from 5.00 m to 6.80 m and the PWA 640/820 from 6.40 m to 8.20 m working width

Can be combined with: Allrounder -profiline- 600/750, Allrounder -flatline- 500-750, Quadro 400-570, Vector 460-800, Vario 400-750 and Rebell -classic- T 500-800



QUALITY is our watchword .



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Köckerling have a policy of continuous product improvement.

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