

# **KÖCKERLING**

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# ALLROUNDER -classic- The universal cultivator

## The universal cultivator with low power requirement

The Allrounder is, as the name indicates, a very universal machine for seedbed and secondary stubble cultivation.

The Allrounder can work the whole year undertaking different tasks:

- In spring for producing seedbeds on ploughed land
- In the autumn for secondary stubble cultivation
- and for an intermediate pass to take out weed seeds.

The hydraulic levelboard is a critical and valuable tool when producing an even seedbed. In the spring the goose foot point works shallow. The soil is aerated but worked very shallow, allowing quick drying. The STS roller with following harrow produces a good reconsolidation of the moved soil with an optimum crumbly finish, ideal for the seed. Whether for sugar beet, maize

or cereals - the Allrounder guarantees easy moving and fine soil in one pass, so that the „weather window“ can be best used. Further activities, where the Allrounder excels, include slurry incorporation, working green manure and fast aeration of the soil.

Also, working the stale seedbed, the Allrounder produces fine work after the deeper stubble cultivator. The high output and low diesel consumption of 4.5 litre per hectare makes the Allrounder a very practical machine. The high under frame clearance of 60 cm delivers block free working. The strong hercules tines 70 x 12 mm guarantee a long working life even in dry conditions or stony ground.

## The technical data

Working width	3,00 m	4,00 m	5,00 m	6,00 m
Transport width	3,00 m	2,70 m	2,70 m	2,70 m
Number of tines	21	25	33	39
Tine spacing	15 cm	15 cm	15 cm	15 cm
Tine bar spacing	55 cm	55 cm	55 cm	55 cm
Under frame clearance	60 cm	60 cm	60 cm	60 cm
Weight (differs, depending on selected options)	1.250 kg	1.570 kg	1.880 kg	2.150 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	80 HP	100 HP	120 HP	140 HP



# ALLROUNDER -profiline- The universal cultivator

## Der Feingrubber mit Transportfahrwerk

The Allrounder 600/750 - 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.

### The technical data

ALLROUNDER -profiline- 600/750		
Working width	6,00 m	7,50 m
Transport width	3,00 m	3,00 m
Number of tines	36	44
Tine spacing	16,70 cm	16,70 cm
Tine bar spacing	60 cm	60 cm
Under frame clearance	60 cm	60 cm
Weight	4.600 kg	5.400 kg
Roller Ø	Double - STS - roller 530 mm	
Power requirement	180 HP	220 HP



## Allrounder -profiline- 900 / 1200 / 1450

The Allrounder 900/1200 and 1450 - profiline- is equipped with a double STS roller. For safe road transport the double folding wings reduce the width to 3.00 m. The working depth is controlled by the front support wheels and the rear double STS roller.

### The technical data

ALLROUNDER -profiline- 900/1200/1450			
Working width	9,00 m	12,00 m	14,50 m
Transport width	3,00 m	3,00 m	3,00 m
Number of tines	54	72	86
Tine spacing	16,70 cm	16,70 cm	16,70 cm
Tine bar spacing	60 cm	60 cm	60 cm
Under frame clearance	60 cm	60 cm	60 cm
Weight	7.000 kg	8.650 kg	12.000 kg
Roller Ø	Double - STS - roller 530 mm		
Transport wheels	500/50-20"	500/50-20"	600/55-22,5"
Depth wheels	380/55-17"	380/55-17"	380/55-17"
Power requirement	250 HP	300 HP	360 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.

So that even large amounts of organic matter 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. Here, the great length of the Allrounder -flatline- proves to be a guarantee for trouble-free work, even under 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 200 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	6,00 m	7,50 m
Transport width	3,00 m	3,00 m
Number of tines	47	59
Tine spacing	13 cm	13 cm
Tine bar spacing	70 cm	70 cm
Under frame clearance	64 cm	64 cm
Transport wheels	500/55-20"	500/55-20"
Depth wheels	380/55-17"	380/55-17"
Ring spacing	13 cm	13 cm
Weight (with maximale equipment)	8.150 kg	9.710 kg
Power requirement	250 HP	300 HP



# TRIO

## The stubble cultivator

### The Trio stubble cultivator is targeted at the farms with tractors from 100 - 160 HP

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 properly mixed. For very dry conditions and shallow working Köckerling offers the TOP-MIX goose foot point.

Second working can go down to 25 cm perhaps for rape to aerate the soil and for further working in the straw and stubble. This way the following crop has the best germination conditions. For deep work the wing is removed. Now the TOP-MIX point works at 80 mm wide with the soil guide for the optimum mixing effect. The height 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 fine 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 through out Europe. The coil spring protection system is supported with a replaceable Polyamid block. Even in details Köckerling place great importance in the quality. The three point linkage attachment points are made from special steel that hinders hole wear.

### The technical data

	Trio			Trio light		
Working width	2,50 m	3,00 m	4,00 m	2,50 m	3,00 m	4,00 m
Transport width	2,50 m	3,00 m	3,00 m	2,50 m	3,00 m	3,00 m
Number of tines	8	10	13	8	10	13
Tine spacing	30 cm	30 cm	30 cm	30 cm	30 cm	30 cm
Tine bar spacing	80 cm	80 cm	80 cm	80 cm	80 cm	80 cm
Under frame clearance	85 cm	85 cm	85 cm	85 cm	85 cm	85 cm
Weight	1.460 kg	1.680 kg	2.480 kg	1.080 kg	1.130 kg	1.900 kg
Roller	STS - roller 530 mm Ø Double - STS - roller 530 m Ø			Tube-bar-crumbler		
Levelling	Sweeper leveller / Disc leveller			Sweeper leveller / Disc leveller		
Power requirement	80 HP	100 HP	140 HP	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 in the Köckerling program. 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 320 mm wings points or the goosefoot points are used. The wings are removed when working deep utilising the point and the soil guides. In practice when working deeper than 20 cm the wear cost and the diesel usage are proportionally higher.

### 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 with up to 600 HP. 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 sand 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. 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 roadwork 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	3,00 m	3,00 m	3,00 m	3,00 m	3,00 m
Number of tines	17	23	21	29	25	33
Tine spacing	27 cm	27 cm	27 cm	27 cm	27 cm	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	85 cm	85 cm	85 cm	85 cm	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 mix and even distribution.

The heavy leaf spring tines work is unaffected by stones and are maintenance free due to the vibration which works any blockages 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 wear costs and on the precision cultivator the operating costs are low. 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 initial research was carried out in a high straw area of approximately 12 tons per hectare and this is the reason that the precision cultivator quickly developed as the professional farmers machine for creating a stale seed bed. Particularly producing good results in wet conditions. In these conditions the double STS roller through its robustness, its ability to work in wet and stony conditions leaves the ideal conditions.

### 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	3,00 m	3,00 m	3,00 m	3,00 m
Number of tines	23	31	37	43	41	57
Tine spacing	13 cm	13 cm	13 cm	13 cm	13 cm	13 cm
Under frame clearance	85 cm	85 cm	85 cm	85 cm	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





# 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

While working, the power traction kit gives additional weight from machine to rear axle of tractor and improves traction clearly.



# STERNOPACK

The frontpacker Sternopack offers best reconsolidation on ploughed land. It gives the pressure punctual very deep in the ground. Optimum area of

application for the Sternopack is medium and light soil. For higher pressure, the Sternopack could carry up to 900 kg additional weight.

## The technical data

Working width	1.65 m	3.00 m
Number of rings	11	20
Diameter of rings	700 mm	700 mm
Weight	535 kg	800 kg



# REBELL -classic- The compact disc harrow

## The mounted compact disc harrow

Rebell -classic- is the new 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. The farmer can choose between two suspension options to configure the machine to

the conditions of his operation the best. On the one hand the well-known leaf spring suspension is available, on the other hand Köckerling now offers a spiral suspension as an alternative. 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 new 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. The farmer can choose between two suspension options to configure the machine to

the conditions of his operation the best. On the one hand the well-known leaf spring suspension is available, on the other hand Köckerling now offers a spiral suspension as an alternative. 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	5,00 m	6,00 m	8,00 m	12,50 m
Transport width	3,00 m	3,00 m	3,00 m	3,00 m
No. of discs	42	50	62	98
Disc-/ roller ring spacing	130 mm	130 mm	130 mm	130 mm
Tine bar spacing	760 mm	760 mm	760 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°	16°
Transport wheels	500/50-17	500/50-17	500/50-17	600/55-22,5"
Depth wheels	380/55-17	380/55-17	380/55-17	380/55-17"
Weight	5.060 kg	5.410 kg	6.300 kg	12.000 kg
Power requirement	160 HP	180 HP	220 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 modern 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 re-consolidation and favours thus a quick germination of weeds.
- ... various possible applications. The Rebell -profiline- achieves not only an efficient stubble cultivation, also the seed bed preparation after plough and the insertion of catch crops before the drilling is done with vigour.
- ... the solid construction of this machine. The high weight makes the penetration of the tools into the soil in any condition possible. The residues on the surface is reliably cut 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	3,00 m	5,00 m	6,00 m	8,00 m
Transport width	3,00 m	3,00 m	3,00 m	3,00 m
No. of discs	20	32	40	52
Disc-/ roller ring spacing	150 mm	150 mm	150 mm	150 mm
Tine bar spacing	850 mm	1100 mm	1100 mm	1100 mm
Under frame clearance	830 mm	830 mm	830 mm	830 mm
Disc diameter	620 mm	620 mm	620 mm	620 mm
Cutting angle	17°	17°	17°	17°
Penetration angle	21°	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	2.450 kg	7.220 kg	8.600 kg	10.150 kg
Power requirement	120 HP	220 HP	250 HP	300 HP



# 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	2.700 l	2.700 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 modern arable farmer

Many modern universal drills require high horse powers due to their high weight leading to high diesel consumption making them costly to run. The Jockey 600 is opposite 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 radar. 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	2.700 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 making this drill suitable over all. The Ultima CS is a compact, high output drill with working widths of 3.00 m, 4.00 m and 6.00 m. A new shape seed tank is mounted length ways on the frame. A large tank opening and low height makes for easy filling. The tank has an capacity of 2800 ltr to 3300 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	6,00 m Combi
Transport width	3,00 m	3,00 m	3,00 m	3,00 m
Number of sowing elements	16	22	32	32
Row spacing	185 mm	185 mm	185 mm	185 mm
Row width	60 mm	60 mm	60 mm	60 mm
Hopper capacity	2.800 l	2.800 l	3.300 l	3.300 l
Weight	4.570 kg	5.720 kg	9.000 kg	9.000 kg
Power requirement	140 HP	160 HP	220 HP	220 HP



# ULTIMA 800 / 900

## The universal drill

### The universal drill for mulch and direct drilling

The Ultima 800 offers the professional arable farmer completely different possibilities. Whether on ploughed ground through to mulch drilling or direct drilling the Ultima 800 guarantees an even sowing depth even 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 even on uneven surfaces. The 60 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 on 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 whatever the conditions. 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 farmer. The specification offered by the Ultima 800 incorporates all the requirements of a modern 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. Often a tine drill is criticised for not placing the seed at a precise depth – this is not the case with the Ultima 800. The tine clears the seed drills of straw and places the seed on a moist soil. With disc coulters the straw is pressed into the seed drill and the seed is placed on a straw (hair pin effect) in a dry place. There are many farms in Europe that will be pleased to give information about their experiences.

### The technical data

Working width	8,00 m	9,00 m
Transport width	3,00 m	3,00 m
Number of sowing elements	44	50
Row spacing	180 mm	180 mm
Seed width	60 mm	60 mm
Hopper capacity	4.000 l	4.000 l
Weight	10.100 kg	12.000 kg
Power requirement	275 HP	360 HP





# BOXER

## System for carrying and metering

An ideal 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, all of them going on their own chassis, 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 catch crops, oilseed rape and other small seeds 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



# 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 to provide a level seed-bed.

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 fields are supported by a land wheel that permits precise ground contact. A mounted seed drill is an option. The fan is powered by a

pto shaft ensure a constant and strong flow of air which gives an even seed distribution. This can be difficult to achieve with an electrically driven fan.

The metering wheel is driven by a spoked land wheel, the seed is delivered down 8 tubes into the tine fields where the vibration of the tines spread the seed all over the ground.

For many dairy farmers the Grasmaster is the optimum 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



*QUALITY is our watchword .*



1057 Product overview 1017 GB  
Köckerling have a policy of continuous product improvement.

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