

MORE VALUE
FOR YOUR FIELD

KAWECO



KAWECO DOUBLE TWIN SHIFT
MORE VALUE IN THE FIELD

OUR COMPANY REESINK PRODUCTION BV

FOCUS ON ADDED VALUE

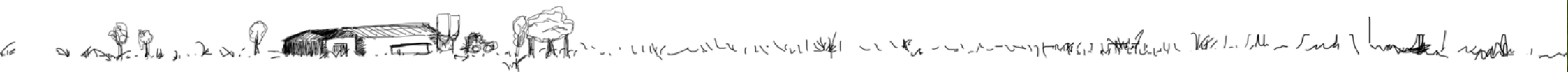
Reesink Production BV is responsible for the production and sales of KAWECO and part of Royal Reesink BV. KAWECO has been building agricultural machinery for more than 60 years, with a focus on the added value for the customer, such as slurry tanks and applicators that deliver great work through their technology. All our machines are built in-house in Hengelo (GLD.).

KAWECO originated from the passion for agricultural machinery. We share this passion with the customer. We take care of the soil and the entrepreneur. Reliable, fast and efficient, so that the right action can be taken at the ideal time. In our philosophy, every machine must first and foremost be of value for the land. As a result, a KAWECO machine provides added value for the soil, for the crops and for the entrepreneur of today and for future generations.

In order to meet our customers' needs and to be able to produce efficiently, the KAWECO machines are built in a modular fashion. All machines (both series and specials) are produced exclusively on demand in a well-equipped production location with the help of modern techniques and experienced professionals. Both sheet metal work, welding work and paint work are done locally in the Netherlands. This is how we guarantee the quality of our products. KAWECO machines are built with quality in mind. This means that only quality components are used in production.

Reesink Production strives for a long-term partnership with its customers, based on mutual respect.

The Reesink Production management team.





I PROUDLY INTRODUCE YOU TO ROYAL REESINK

ENABLING YOUR BUSINESS

More than two hundred years ago, Royal Reesink was founded by Hendrik Reesink, a pioneer and entrepreneur who thought outside the box. He realized at an early age that customers need the best quality, service and convenience. That has remained Royal Reesink's trademark over the centuries. Royal Reesink is now one of the largest, and still fast growing, distributors of machines and components internationally.

Royal Reesink consciously opts for a wide range of machines and products. Characteristic of Royal Reesink's brands is that they are leading on matters such as "total cost of ownership", lifespan, user-friendliness, comfort, safety and high residual value. Royal Reesink supplies through dealers or directly to agricultural companies, forestry and landscaping companies, public green areas and golf courses, logistics centres, industrial and construction companies, contractors and (local) governments. In the food, non-food, industry, transshipment (ports), agri, civil engineering and hydraulic engineering sectors. Royal Reesink also supplies hydraulic components and systems that are partly complementary to the machine range.

Being distinctive in terms of service, quality and customization. That is the unity in the diversity of our companies. Intensive cooperation is central to being able to offer the best solution.

Gerrit van der Scheer
CEO Royal Reesink BV



ADDED VALUE OF THE **DOUBLE TWIN SHIFT**

The Double Twin Shift has the manoeuvrability of a single axle, the load capacity of a tandem and wheels that perfectly follow the contours of the soil. Thanks to the unique undercarriage of the Double Twin Shift, you can spread slurry with a low soil pressure: significantly lower compared to all other tankers with a comparable volume. This means you can start early in the season and continue your work for a long time. You will always deliver a nice job. The DOUBLE TWIN SHIFT provides you with more value for your field.



SOIL-FRIENDLY, COMFORTABLE, SAFE

KAWECO is the inventor of the unique DOUBLE TWIN SHIFT chassis: 4 large tractor wheels in 1 row. The individually hydraulic suspended wheels perfectly follow the contours of the land and provide stability and driving comfort on the road. All four wheels are air-braked for maximum safety on the road.



STABLE FIELD POSITION

Thanks to the thoughtful installation of the PREMIUM hitch, the injector only pulls on the chassis. This ensures a stable field position of the applicator and tanker. You can adjust the double-acting cylinders in order to press, relieve or work completely pressure less. In this way the DOUBLE TWIN SHIFT offers the perfect solution for every circumstance and applicator.



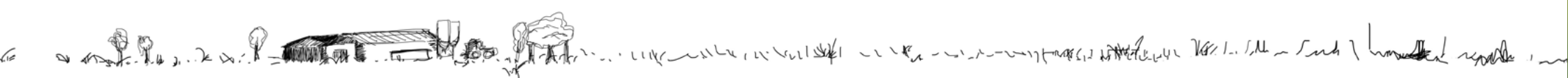
WHEELS TANKER NEXT TO TRACK TRACTOR

Thanks to the hydraulic SHIFT-system you can slide the outer wheels 50 cm outwards. As a result, the wheels of the tank do not follow the same track as the tractor. This results in a track that is ridden only once, and thus a better distribution of the pressure on the soil. Due to the hydraulic pendulum suspension, the ground pressure under all tires always stays the same.



PERFECT DOSAGE, LARGE FILLING CAPACITY

The BY-PASS dosage system, standard on the DOUBLE TWIN, guarantees a perfect dosage, thanks to a flow meter and a computer-controlled dosing slide. This extra 6 thumb pipe also increases the capacity during filling. Standard the tank is delivered with a Börger rotary lube pump. Optionally you can choose for a hydraulic driven slurry pump.





STANDARD EQUIPPED FOR **DELIVERING RESULTS**

THE DOUBLE TWIN SHIFT CHASSIS

The KAWECO DOUBLE TWIN SHIFT has a chassis with four large wheels in a row. With the SHIFT system you can slide the outer wheels 50 cm outwards. In this way, none of the wheels run on the track of the tractor. The extendable profiles are equipped with synthetic sliding strips, making the system stable and very maintenance friendly. The high and relatively narrow wheels (tire size 650/85R 38) turn independently of each other, so that you can turn on the headland without causing damage to the soil. The neutral and straight dragline trough the chassis protects the ground and the tires.

HYDRAULIC SUSPENSION

The wheels follow the contours of the land through hydraulic suspension, the weight is distributed perfectly because of the pressure dependency between the separate suspensions. The hydraulic suspension guarantees comfort and stability on the road. The independent suspension ensures that you are working safe, both on the field and the road. Even on uneven roads, the DOUBLE TWIN SHIFT will follow the ground contours perfectly. All wheels are air braked for maximum safety.

HEAVY THREE-POINT HITCH

All tanks from the DOUBLE TWIN SHIFT series are standardly fitted with the heavy KAWECO Premium hitch. This is fully mounted on the chassis and therefore does not pull on the tank during application of slurry. The double-acting cylinders are adjustable to work pressuring, relieving load or completely pressure less. The theoretical lifting force is 4.000 kg, sufficient to lift almost every fertilizer. Coupling is very easy, thanks to the link hooks on the lifting arms and the standard (push button) operation of the hitch at the rear of the tank. The DOUBLE TWIN SHIFT hitch offers a basis that makes it possible to work with every type of injector, because of this the tank is also often used in combination with Stripp-Till technology.

EXACT SLURRY DOSING

With the DOUBLE TWIN tanker, you can dose the slurry very precisely. The BY-PASS system (or the optional hydraulic pump drive) continuously adjusts the amount of slurry to the driving speed. This system consists of a flow meter combined with electronically controlled hydraulic 6" gate valve. During the filling of the tank, the by-pass is fully opened to support the filling capacity. While turning on the headland, the three-way valve on the rear of the tank is switched over and the slurry continues to flow into the tanker. At the start of the next row, homogeneous slurry is immediately available for the fertilizer.

LARGE CAPACITY DUE TO SLURRY PIPING AND STONE CATCHER

The well-considered position of the pump and the pipes are the secret behind the large filling capacity. With a KAWECO, the pump is always placed centrally under the tanker. As a result, the weight is optimally distributed and the slurry piping has no unnecessary curves. The stone catcher with hydraulically driven cutting head protects the pump and prevents blockages. Heavy objects remain in the stone catcher and feed residues are cut by the hydraulic driven knives to prevent blockages at the applicator and pump.

WELL-ARRANGED KAWECO CONTROLS

The well-arranged KAWECO premium controls offers many options. The tanker is standardly equipped with a multifunctional joystick with 24 functions and a 5,7" Basic Terminal. You can also choose for an 8" or 12" Touch Terminal (Müller Basic ISOBUS Terminal Touch 800 or 1200). Load-Sensing is amongst the standard equipment for this machine. When lifting the injector at the headland, the system automatically switches from applying to pumping around. With the Müller 800 or 1200 it becomes possible to control functions via GPS, such as section control and headland management.



WE ARE SUPER SATISFIED WITH THE CAPACITY OF THE TANK!

"WE OPTED FOR THE KAWECO DOUBLE TWIN SHIFT, BECAUSE IT HAS 4 TIRES ON ONE ROW, WITH SHIFTING OUTER TIRES. THAT IS EXTREMELY SOIL-FRIENDLY, WHICH IS PARTICULARLY IMPORTANT WHEN SPREADING ON GRASSLAND. "

Hendrik Johannes, arable/dairy farmer (DE)

VALUABLE OPTIONS

FILLING ARMS

With the DOUBLE TWIN SHIFT, you have a large selection of filling arms. In addition to the most standard 8" side filling arm with cylinder-operated double turntable, KAWECO also supplies various crane, swivel or docking arms. All slurry arms have been equipped with a vent valve. As a result, the remaining slurry in the arm quickly returns to the lagoon after filling.

PUMPS

The heart of the tank is the Börger FL 1036 rotary lube pump with MIP exchangeable wear scales. Vogelsang pumps are also available. With the standard 2:1 transmission the pump speed is adjusted for filling and applicating. The "slurry piping" is standardly equipped with 8" pipes on the suction side and two 6" pipes on the discharge side. If you choose a pump with a large capacity, the pipework will inherently grow along with it. The automatic dosing by means of a By-pass line and hydraulic valve guarantees the correct application rate under all circumstances.

MAXIFILLER

In order to make better use of the pump capacity, it is often attractive to install a maxifiller. This is a hydraulically driven impeller that presses the slurry into the suction pipe. This also improves the service life of the pump, because wear-sensitive parts are used less intensively.

TOP PRESSURE CYLINDER

With this cylinder mounted at the drawbar of the tractor you can regulate the axle pressure of the tractor. The cylinder can both pull and press. When pressing, there is more pressure on the front axle of the tractor. When pulling you have more driving comfort on the road. The cylinders swivel point is mounted exactly above the coupling point where the trailer is mounted. This prevents extra sideways pressure on the tractor when it takes a corner. By means of load-sensing hydraulics, a special valve will ensure that the pressure in the top pressure cylinder will always stay around the predefined value.

	DOUBLE TWIN SHIFT 12	DOUBLE TWIN SHIFT 14	DOUBLE TWIN SHIFT 16
NET. CONTENT	12.000l	14.000l	16.000l
TARE WEIGHT	9.985kg (incl. 8" filling arm+tires)	10.200kg (incl. 8" filling arm+tires)	10.350kg (incl. 8" filling arm+tires)
DIMENSIONS	Ø 2.000 X 4.658mm	Ø 2.100 x 4.300mm	Ø 2.200 x 4.550mm
UNDERCARRIAGE	HYDRAULIC PENDULUM SUSPENSION, BRAKE DRUMS 400X120mm		

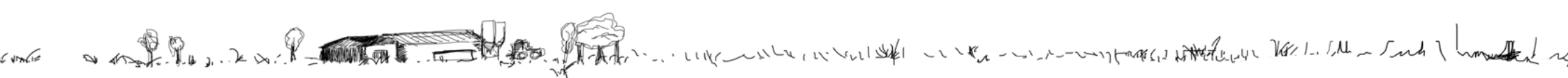
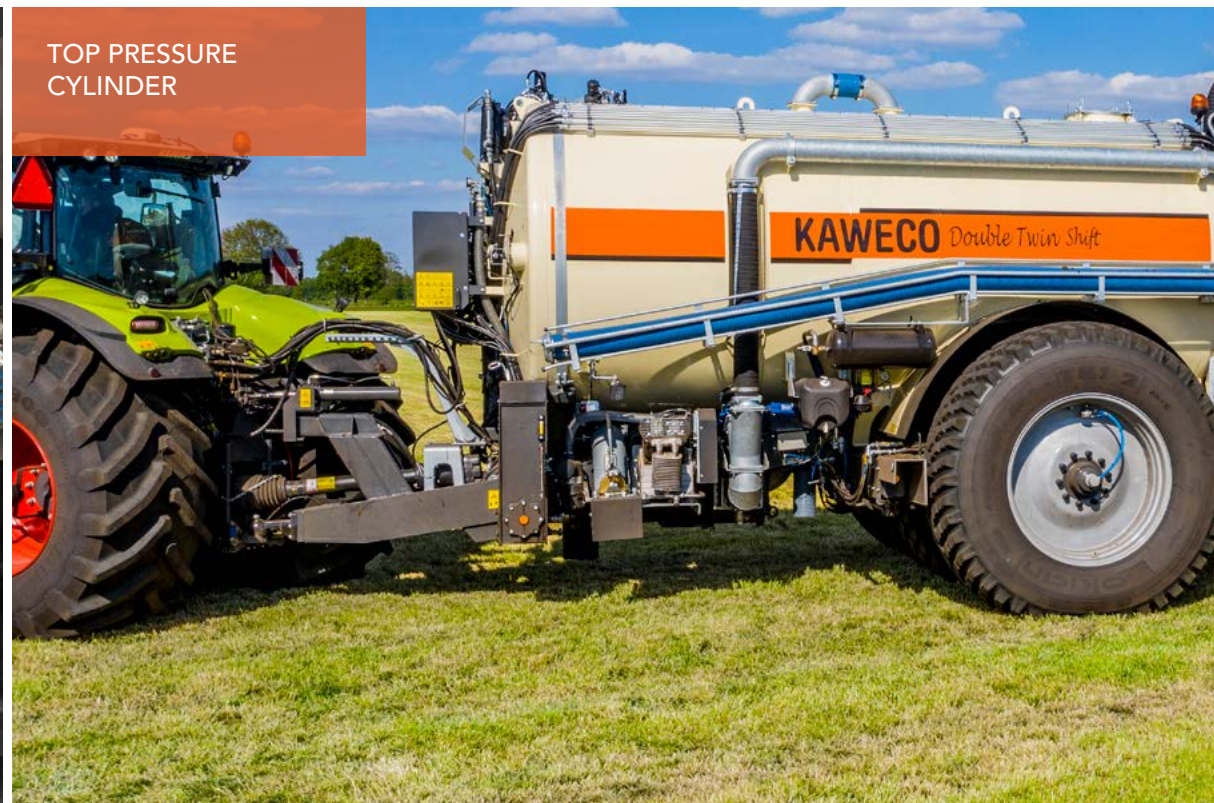
FILLING ARMS



PUMPS



TOP PRESSURE CYLINDER





VALUABLE OPTIONS

HYDRAULIC SLURRY PUMP DRIVE

KAWECO can equip the DOUBLE TWIN SHIFT according to customer requirements with a hydraulically driven slurry pump. The slurry pump capacity can be adjusted by means of the hydraulic drive without adjusting the speed of the tractor. This is very useful when fertilizing when maximum torque is required from the tractor. Also, in combination with section control, the pump capacity can be immediately lowered if the working width is reduced. The hydraulic pump drive also ensures that no more slurry is pumped than requested by the fertilizer, a by-pass construction is no longer required because the hydraulic pump itself is able to adjust adequately under different circumstances. In this way, slurry is never pumped around unnecessary, which considerably improves efficiency and fuel consumption.

KAWECO EKO FRONT-UNIT

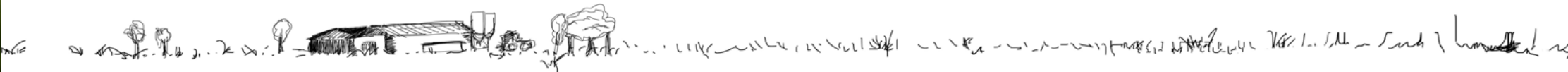
In combination with the DOUBLE TWIN SHIFT, the tractor can also be equipped with the KAWECO EKO FRONT-UNIT. This front unit makes it possible to dock at the transport tank or truck with the combination at the front. The EKO unit is robust but lightly built to protect the soil. Because the injector does not have to be folded for docking, the delivery capacity increases considerably.

PTG AIR PRESSURE SYSTEM

The DOUBLE TWIN SHIFT naturally is a tank with low ground pressure. The four tires in a row ensure that the tank causes little structural damage and can also be used on wetter soil. To make the tank even more friendly to the bottom, it can be equipped with a PTG air pressure change system. This is supplied with its own compressor which is powered by the load-sensing hydraulics of the tank. There is a choice between a K1000 compressor with a capacity of 1,200l / min and a K3000 compressor with a capacity of 3,300l / min. The operation can be digital via a separate box in the tractor, or over the ISOBUS integrated in the Müller screen or the tractor itself.

AUTOMATIC LUBRICATION

To reduce maintenance and extend the service life, it is advisable to equip your KAWECO tank with automatic grease lubrication. KAWECO uses professional systems that are assembled with the utmost precision. In this way all parts are optimally lubricated, and the longest possible service life is achieved.



KAWECO PRECISION FARMING

KAWECO NIR-SENSOR

Site-specific fertilization and knowing what you spread on your fields became an important issue in modern day farming due to changes in legislation amongst others. In the future, even more attention will be given to precision farming and site-specific fertilization. That is why KAWECO is here to provide you with the right techniques to enable you to work in a sustainable way.

The weighing and sampling system currently used on transport tankers, only offers you information afterwards about what you spread. This information cannot be used directly during fertilization. Measures with the usage of a NIR-sensor can be the right solution to provide you with real-time data. KAWECO can help you make your business operations more sustainable through NIR-measurements.

By means of the KAWECO NIR-sensor, the KAWECO slurry tankers are able to fertilize according to the measured additives (according to the number of additives in the slurry, instead of the cubic meters of slurry). The KAWECO NIR-sensor is DLG approved for 4 of the 5 additives measurable.

What does the NIR-SENSOR measure?

When filling the tanker, the amounts of the following additives are measured:

- Dry matter
- Phosphorus
- Nitrogen
- Ammonium
- Potassium

WHAT DOES THE NIR-SENSOR OFFER YOU?

According to the measured value's, this sensor is able to calculate how much of all the additives are present in the slurry. Then you are able to choose if you want to apply according to the amount of slurry or according to the amount of a certain additive per acre. This enables you to work far more precise than with the current way of working. Differences in slurry-compositions are large and one tanker full of slurry shouldn't be treated the same as the other. Working with task-cards for site-specific fertilization is also amongst the options. The data from the NIR-sensor will be exported to the Müller computer on the tractor, which enables you to extract the data and tells you how much slurry you spread and how much of the additives you spread where.

GPS OPTIONS

By means of the Müller computer it is also possible to work with section-control and headland management, for optimal usage of the slurry without creating overlap. This is often done in combination with an on-board hydraulic system to be able to control the pumping capacity precisely and fast.

When working with section control, the applicator is being divided into different sections. GPS determines which sections must be opened or closed. Applying parts of the field two times becomes unnecessary. This way you can deliver even tidier work in the field with an optimal usage of the slurry.

The headland management function enables you to lift the applicator or stop spreading at the exact same moment every time you reach the headland, to create a neat job and leave the field looking perfect.

SAVING GPS DATA

All kinds of data and settings can be stored in the Müller Terminal for repeated use. Settings for different types of fertilizer can be saved. It is also possible to save data from, among other things, customers, different fields, completed m³ and processed surfaces. This data can be transferred to a computer via a USB stick or loaded into the online environment of Agrometius when using TRIMBLE.

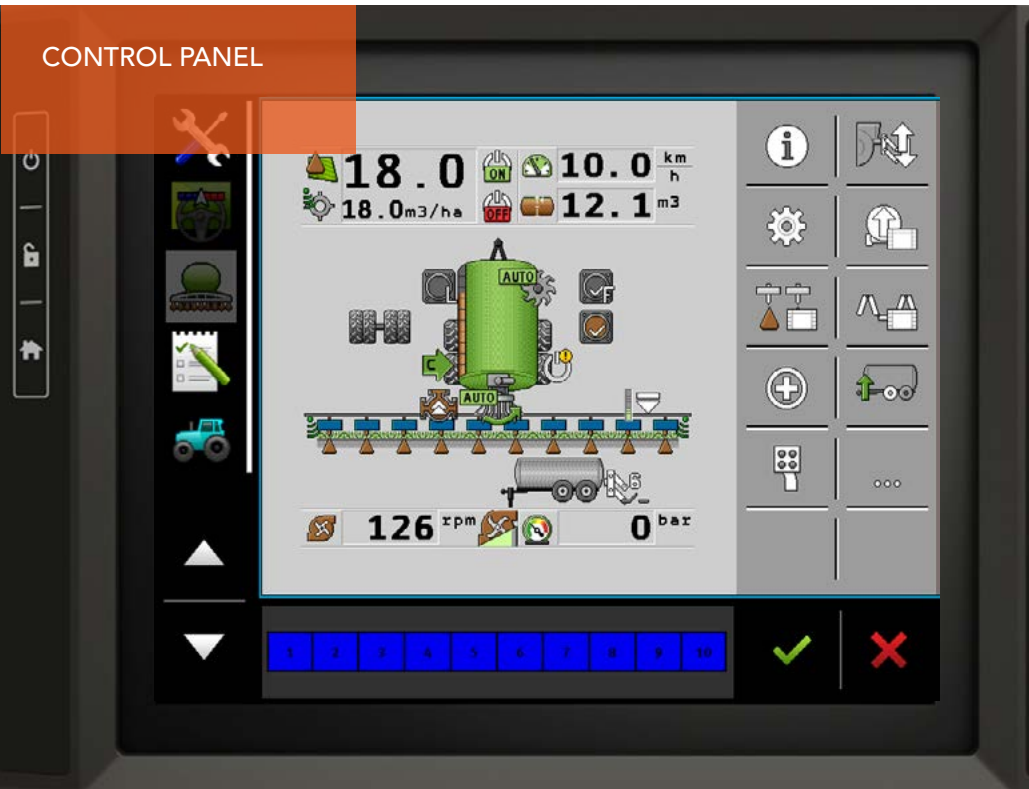


NIR-SENSOR



Composition		1 / 1
Phosphorus	2.11	kg/m ³
Nitrogen	3.52	kg/m ³
Ammonium	1.47	kg/m ³
Potassium	1.73	kg/m ³
Dry matter	0	%

CONTROL PANEL



SECTIONCONTROL



MORE VALUE FOR YOUR FIELD



"Soil is the most valuable mean of production. Taking care of the fertile soil with a healthy structure and soil life is the basis for crop yield and quality. At KAWECO we cherish the soil, in the interest of the farmers of today and tomorrow."



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