BeachTech®

Beach cleaners

BeachTech Beach cleaners

Ground-breaking technology for cleaner beaches



BeachTech®

Dream beaches for your guests

Paradise beaches. For relaxation, sunbathing, dreaming and games for the children. Always as though they were the first to discover them. Every day like new. Free of cigarette stubs, pieces of glass and shells, plastic bottles or flotsam – BeachTech devices clean thoroughly.

BeachTech means increased recreational value for your guests. For satisfied tourists who look back on their holiday with pleasure and cherish the memories of their days on the beach. Because we are dedicated to this task: Cleaner beaches and satisfied guests through cost-effectiveness and efficiency in beach cleaning.

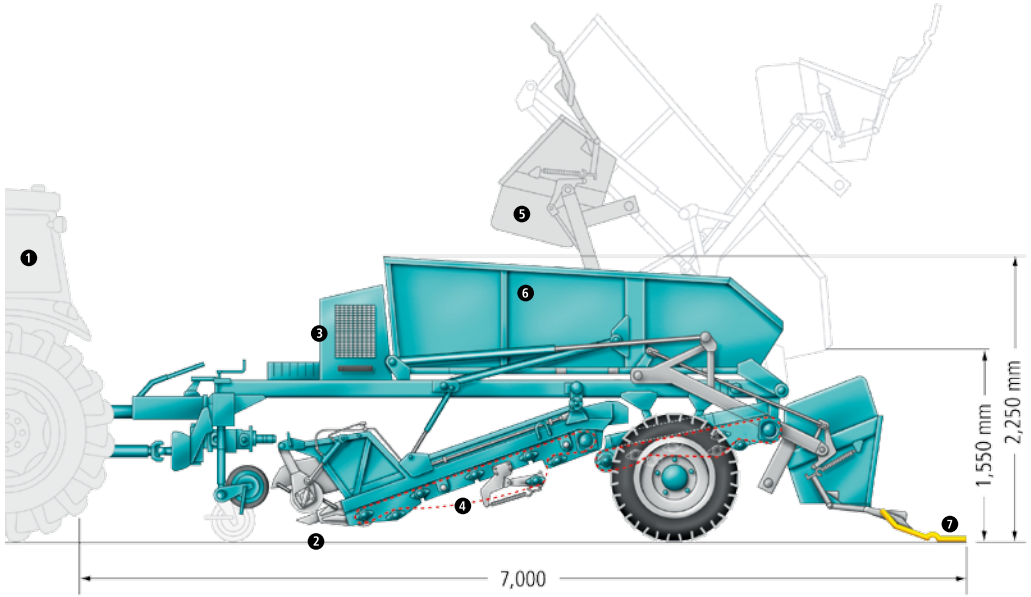


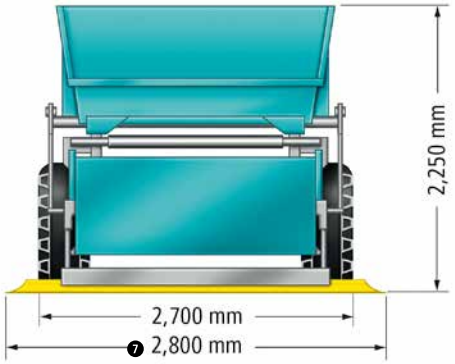


BeachTech 3000
Power and volume

Ideal for large beaches
The BeachTech 3000 beach cleaner is used for cost-effective and efficient cleaning of large and expansive beaches. With a working width of 2.50 m, the BeachTech 3000 achieves coverage of up to 30,000 m^2/h. The 2-belt screening system facilitates an extremely high screening capacity. The loading volume of 4.7 m^3 guarantees a large operating range: there is no need for interim trips to the unloading station.

Non-stop perfection
Two hydrostatic pumps move the pick-up roller and the two screening belts. The angle of the first screening belt and the depth of the pick-up roller are set hydraulically via a gear pump. Lowering the screening-raking unit fixes the depth setting and the cleaning method. Waste is moved to the first screening belt during travel, and the sand is then sifted using vibrations. The residual waste moves across the second screening belt into the collecting tank and the dumper.







❶ 1-man operation
Control of all working processes via remote control in the driver's cab



❷ Working width
Working width of 2.50 m for coverage of up to 30,000 m²/h



❸ Under the hood
Tank, radiator and control block are quick and easy to access for all inspection and service work, and for emergency operation.



❹ 2-belt screening system
The 2-belt screening system guarantees optimum sifting of the sand.



❺ Collecting tank
The collecting tank of 0.7 m³ is emptied into the dumper.

❻ Large dumper
4-m³ loading volume for maximum operating range



❼ Finisher
To structure, aerate and then compress the sand.

See page 13 and the separate datasheets for options for the individual products.

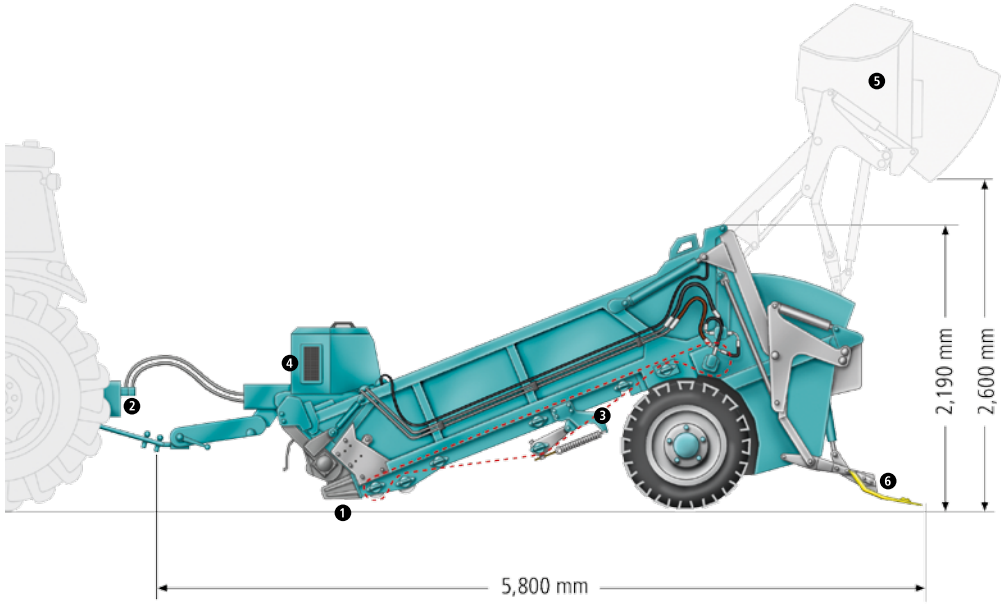


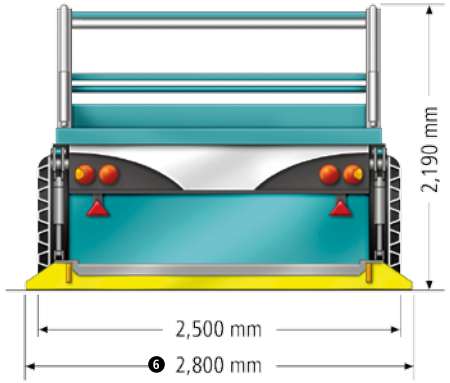
BeachTech 2800
One for all

As far as the beach stretches

BeachTech 2800 is the all-rounder for medium and large beaches. Despite its compact size the BeachTech 2800 has a broad working width of 2.50 m, resulting in coverage of up to 30,000 m^2 per hour. The patented raking, screening and combined cleaning technology guarantees the highest quality and simple operation. Thanks to the unloading height of 2.60 m, the collected waste can be tipped directly onto a truck or into a container.

The BeachTech 2800 comes as standard with an integrated tension roller, screening belt reverse valve, low-maintenance spline-mounted pump, hydraulic lifting finisher and broad tyres. The strong drive of the pick-up roller ensures extremely high performance and very thorough sifting – even on wet sand. In terms of economy the BeachTech 2800 is first class: broad, but compact and light, it drastically reduces the tractor's fuel consumption.







❶ Working width
Working width 2.50 m for coverage of up to 30,000 m²/h



❷ Spline-mounted pump
The low-maintenance spline-mounted pump minimises the turning circle.



❸ Tension roller
Tensioning of the screening belt prevents a loss in performance.



❹ Under the hood
Tank, radiator and control block are quick and easy to access for all inspection and service work.



❺ Collecting tank
The collecting tank has a loading volume of 2.8 m³. Unloading height of 2.60 m (in DIN containers or directly onto a truck).



❻ Hydraulically lifting finisher
This control enables you to lift the finisher off the ground. This option is helpful, e.g. for road travel.

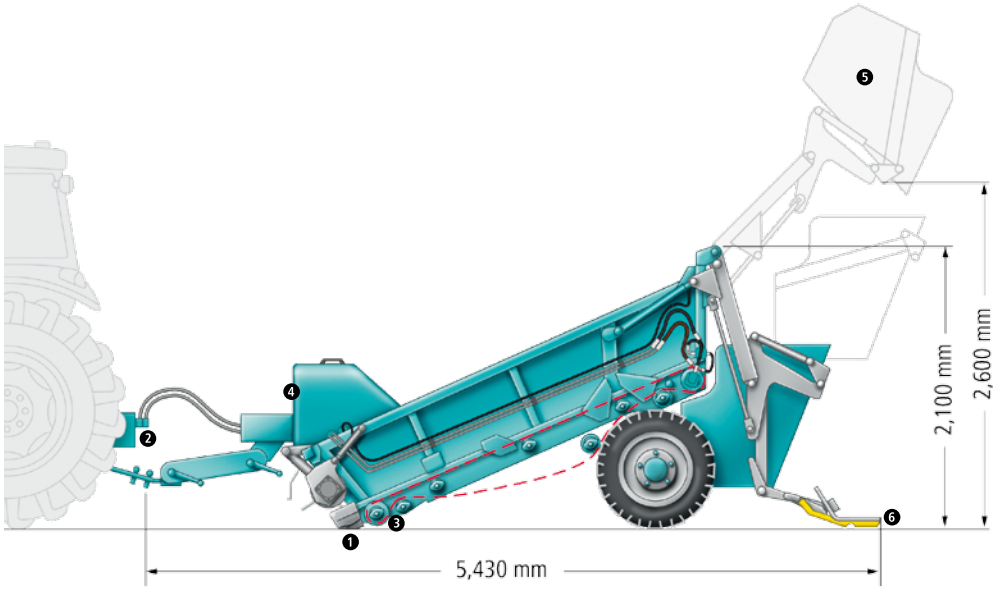
See page 13 and the separate datasheets for options for the individual products.

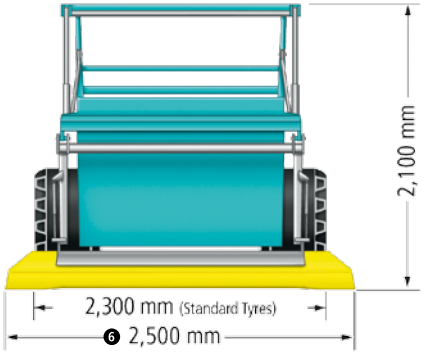


BeachTech 2000
Compact and agile

At home on medium-sized beaches
The compact BeachTech 2000 is designed for medium-sized beaches. With a working width of 1.85 m it covers up to 22,000 m²/h. The agile beach cleaner can also handle tight access roads and narrow sections of beach. Another plus: like all BeachTech models it can be approved for road travel.

Triple shaken
The quiet, fully hydraulic drive with cooling system moves the pick-up roller and a long screening belt. Three eccentric shafts create a vibration process, which sifts out even the finest particles of dirt. Finally, the waste is moved along the screening belt into the collecting tank. The unloading height of 2.60 m means the waste can be tipped directly onto a truck or into a trailer.







❶ Working width
Working width of 1.85 m for coverage of up to 22,000 m²/h



❷ Spline-mounted pump
The spline-mounted pump enables the BeachTech 2000 to handle even tighter curves.



❸ Tension roller
Tensioning of the screening belt prevents a loss in performance.



❹ Under the hood
Tank, radiator and control block are quick and easy to access for all inspection and service work.



❺ Collecting tank
The collecting tank has a loading volume of 1.5 m³. Unloading height of 2.60 m (in DIN containers or directly onto a truck).



❻ Finisher
To structure, aerate and then compress the sand.

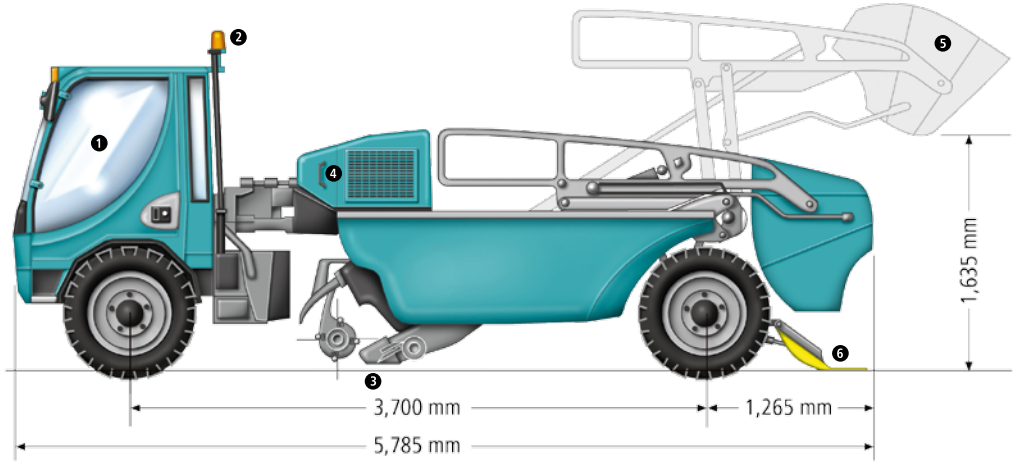
See page 13 and the separate datasheets for options for the individual products.

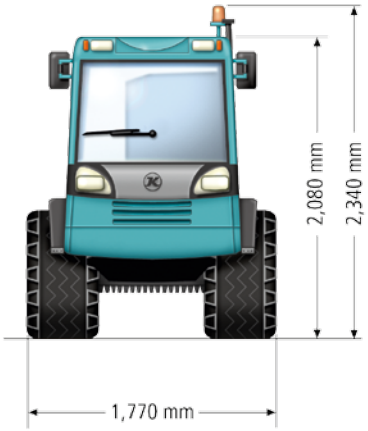


BeachTech Marina
The multi talent

Tractor and trailer in one
The self-propelled BeachTech Marina sets standards when it comes to agility, manoeuvrability and quietness. Thanks to articulated front-wheel drive and connectible active rear-wheel drive, it has a sensationally small turning circle. With a powerful turbo diesel engine, hydrostatic all-wheel drive and low-pressure tyres, nothing gets in the way of the BeachTech Marina.

As the BeachTech Marina can be registered for road travel, you can use it anywhere you like. So much flexibility means the highest cost-effectiveness.







❶ 1-man operation
All vehicle functions are controlled directly from the cab.



❷ Safety
The BeachTech Marina is equipped with all safety features (acoustic warning alarms in the event of incorrect operations, reversing alarm, electrically operated exterior mirrors for optimum visibility, warning beacons and seatbelts).



❸ Working width
Working width of 1.40 m for coverage of up to 15,000 m²/h



❹ Under the hood
Tank, radiator and control block are quick and easy to access for all inspection and service work.



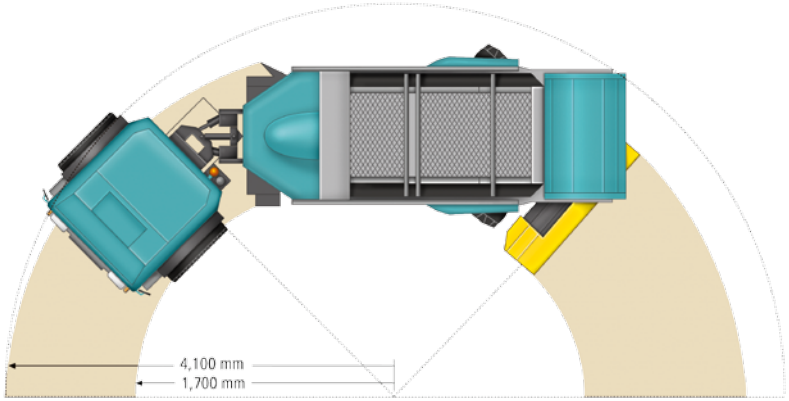
❺ Collecting tank
The compact collecting tank has a loading volume of 0.5 m³.



❻ Hydraulically adjustable finisher
The finisher reliably follows the cleaned track even around curves when rear-wheel drive is activated.

See page 13 and the separate datasheets for options for the individual products.

BeachTech Marina
Effortlessly around any obstacle



Small turning circle – big impact
The special feature of the BeachTech Marina is that it can handle every curve and every corner. Our innovative vehicle concept: Articulated front-wheel drive and connectible active rear-wheel drive. This reduces the turning circle during cleaning to an inner radius of just 1.85 m. Thus, the Marina can even clean in tight spaces around sun loungers.

Road approval
Beach hopping is no problem for the BeachTech Marina. Thanks to road approval potential, it can travel from one beach to another – flexible use for the greatest cost-effectiveness.

Customised cockpit
The ergonomically designed cockpit and the joystick make it easy to control. Large electrically operated mirrors ensure excellent all-round visibility. The comfortable two-seater driver's cab is available with folding roof or air conditioning.

BeachTech Marina
Accessories



⊕ Front hitch
Thanks to the optional front hitch (3-point mounting Cat. II) for a range of attachments, the BeachTech Marina becomes a true multi talent.



⊕ Screening rake
The screening rake enables you to loosen compacted sand, shift large sections of sand and level sandcastles.



⊕ Roller broom
Alongside the clean beach, carefully cleaned streets, paths and squares are also important. The roller broom turns the BeachTech Marina into the perfect road sweeper.



⊕ Lawnmower
3 rotors and rubber support wheels ensure even mowing results.

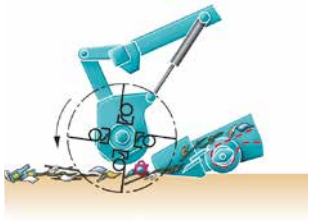


⊕ Water sprayer system
Dampening the sand surface reduces the formation of dust.



⊕ Clearing blade
Used for levelling the sand surface or for various other shifting and clearing tasks.

Patented cleaning technology
Beach cleaning on any sand



Raking technology



Screening technology



Combined cleaning technology

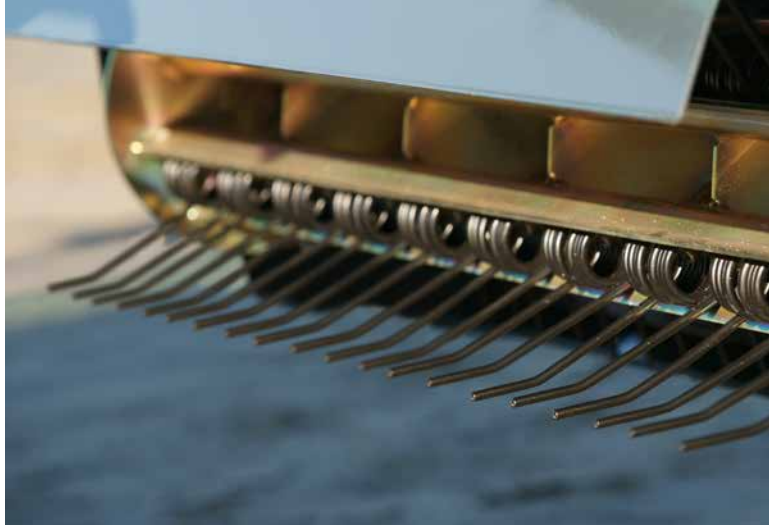
The right answer for any contamination
Cigarette butts, pieces of glass, plastic bottles, flotsam or seaweed – thanks to the patented BeachTech raking, screening and combined cleaning technology, nothing is left behind. The raking technology means that damp sand can be cleaned to the optimum and dry sand can be processed with high speed. The screening technology involves removing a thin layer of dry sand and cleaning it of even small contaminants (e.g. cigarettes).

The non-stop switch
With the combined cleaning technology the driver can combine both cleaning methods in a continuous operation. The switch between raking, screening and mixed cleaning occurs non-stop. The vehicle is ready for all areas of the beach thanks to the variable use of the different cleaning technologies.

⊕ Raking technology
- Sand: wet and dry
- Surface cleaning
- Coarse contaminants (e.g. seaweed)

⊕ Screening technology
- Sand: dry
- Surface and deep cleaning
- Small contaminants
  (e.g. cigarette stubs, bottle tops and pieces of glass)

⊕ Combined cleaning technology
- Sand: dry to damp
- Surface and deep cleaning
- Coarse and fine contaminants





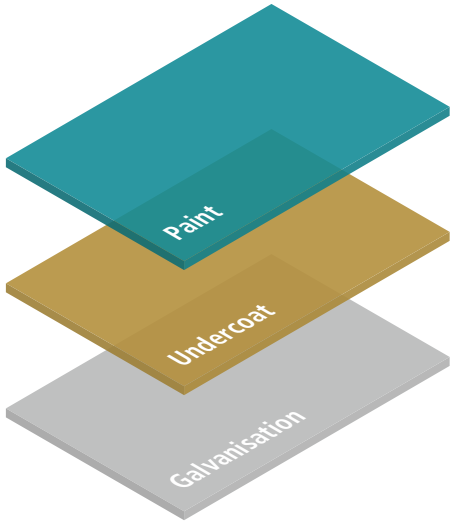


Corrosion protection
Built for use at the seaside





Robust from the ground up
Every part of all BeachTech vehicles is designed to withstand the high demands of saltwater, constant contact with abrasive sand, salty air and high atmospheric humidity. The tried-and-tested structural components also remain in good order after long periods of use. They are galvanised against corrosion, with a 2-component EP-undercoat filler, and protected against the weather by 2-component acrylic paint.



Paint
2-component acrylic paint,
sea water resistant

+

Undercoat
2-component EP-undercoat filler

+

Galvanisation
Corrosion protection guaranteed even if layer of paint is slightly damaged

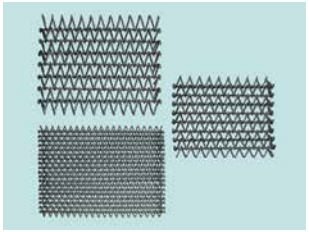
=

High-quality corrosion protection
Hard-wearing components
Low-maintenance power units
Long service life
Reliable availability
Minimised maintenance costs

Standard equipment



Spring tines
The spring tines can be replaced individually and are very flexible. For low wear and low maintenance costs.



Screening belts with different mesh sizes
Screening belts are available in three different mesh sizes. This means the cleaning concept can be perfectly tailored to the local conditions.



Eccentric shafts
Variety of shapes, diameters and profiles to ensure optimum sand sifting.



Maintenance-free bearings without lubricating nipples
No need for regular re-lubrication.



Switch-over valve
The direction of the screening belt can be changed to clear blockages caused by overloading of material (e.g. seaweed).

Options



Length compensation system
This system, suitable for the BeachTech 2000 and BeachTech 2800, is equivalent to a screening belt extension of approx. 0.80 m – which corresponds to up to 500 operating hours.



Sensing wheels
These are available for the BeachTech 2000, BeachTech 2800 and BeachTech 3000. They ensure constant depth control on uneven terrain.



Air conditioning
For us the driver is crucial. That's why the BeachTech Marina can be fitted with air conditioning as an optional extra. Ensuring the driver can keep his cool even in the hottest temperatures.



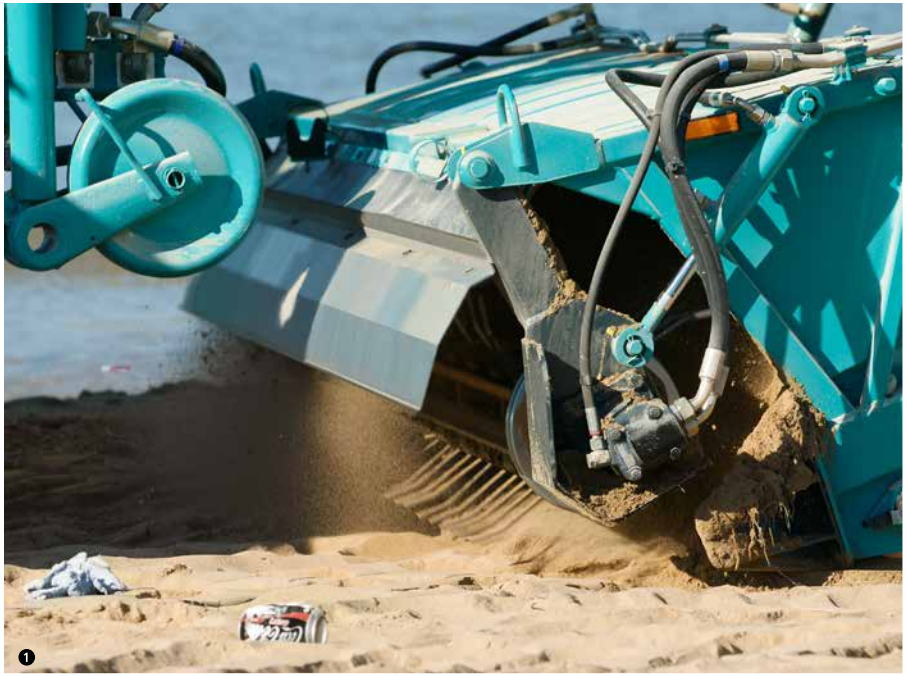
Camera
The optional camera system improves visibility of the pick-up shaft or the collecting tank. This helps the driver to ensure that the correct cleaning height and cleaning mode are selected.

⊕ Other options
- Hydraulic brakes
- Drive axle
- P.t.o. shaft drive for BeachTech 2000 and BeachTech 2800

Other variations available by arrangement.

It picks up everything
Whether rubbish, seaweed or stones

❶ Perfectly cleaned, whether beach, racecourse or water filtration basin
❷ Screening belts with customised mesh sizes pick up every object
❸ Stones of different sizes are no problem thanks to BeachTech
❹ BeachTech will also deal with large quantities of seaweed
❺ Easy unloading into the collecting tank
❻ Even the smallest pieces are reliably collected


❶


❷


❸


❹


❺


❻

Alternative uses
Many challenges – one vehicle

Oil removal
Raking is counter-productive for beaches contaminated with oil, as the spring tines break up the oil clumps or move them into deeper, clean layers of sand. That's why BeachTech uses no tines for oil removal work and gently scrapes the contaminated surface with the pick-up blade. The oily layer can then be separated from the uncontaminated sand using the proven screening technology and extremely fine screening belts. The majority of the sand can be saved thanks to the patented technology of the BeachTech devices, as the gentle method only removes the uppermost sand layer.

Cleaning racecourses
The BeachTech is also well suited to maintaining paddocks and race tracks due to its extensive experience with sand and its special cleaning technology. Stones and gravel loosened from the subsoil can be reliably removed without losing a lot of sand into the bargain. This is the only way to guarantee the safety of the horses and minimise the risk of injury. A hygienic operation also requires regular removal of horse manure. The excellent manoeuvrability of the self-propelled BeachTech Marina makes it ideal for this sort of work.

Cleaning water filtration basins
The demand for drinking water is particularly high in densely populated areas. Slow sand filtration can significantly increase the volume of water available for extraction without causing a severe drop in the groundwater level. Waterworks close to rivers and lakes often make use of this natural cleaning process, channelling surface water into large man-made infiltration basins. It trickles through the layers of sand into the gravel courses, which act as filters. The filtered water ultimately feeds into underground wells. The large sand filtration areas, however, become overgrown with plants and algae because of the continual watering. Accordingly, the surface must be cleaned at regular intervals.

The BeachTech powerful pick-up motor enables the machine to loosen the ground and reduce plant growth at the same time. In contrast to conventional procedures, use of BeachTech technology means nothing is removed over the years. The combined raking and screening technology removes up to 80 % of weeds and filter residue, radically increasing the service life of the filtration systems. The aeration of the sand also significantly reduces bacterial density.







Global service
Representatives in over 40 countries

Always there for you.
Our global sales and service network guarantees rapid assistance and spare part supplies. With representatives in over 40 countries. Our central spare parts warehouse in Laupheim despatches every day. We have more than 16,000 parts in stock here for fast despatch.

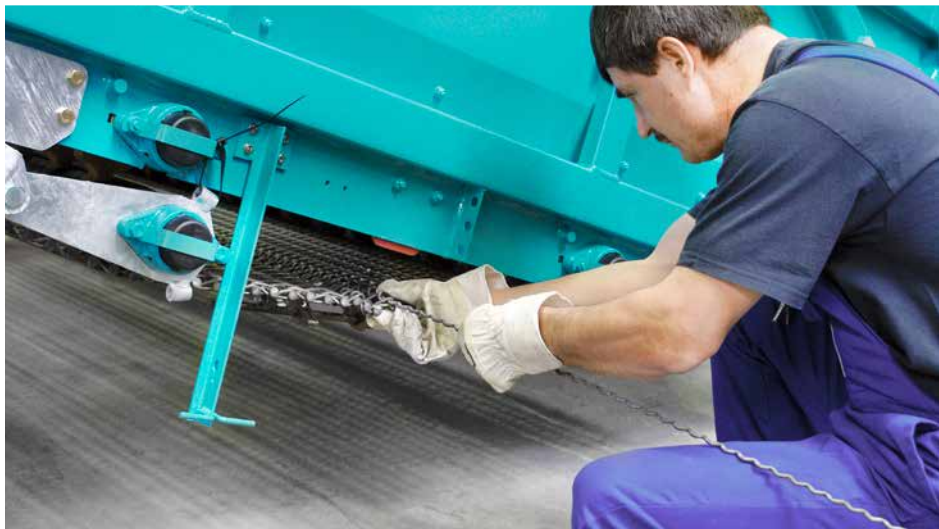
Our extensive aftersales services are complemented by an extremely efficient concept of training, advice and swapping experiences. This makes you largely independent. Our training and information centre offers multi-day courses for customer employees, workshop personnel and drivers. Optimum use, servicing, reduced operating costs – that's what we focus on.

For many customers the "first-class service" from Kässbohrer Geländefahrzeug AG is a major factor in their investment decision. Direct contact and local service are right at the top of the list. What our customers value most is direct contact with a skilled expert.

We were able to expand this support concept internationally in the last financial year due to an increase in service staff and workshops.

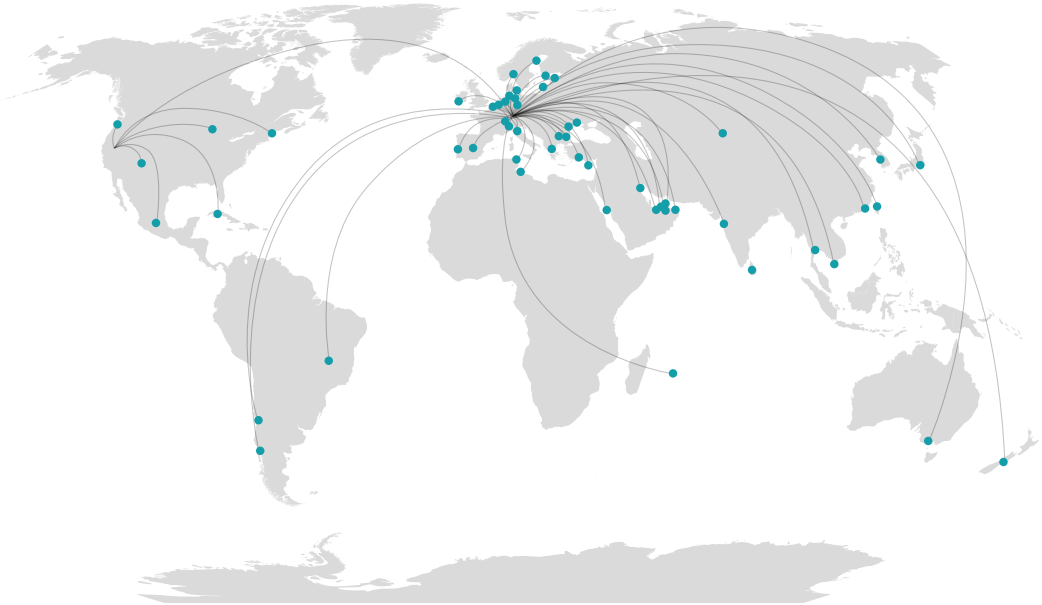






BeachTech®

119 . 11/2014 . e1. WA. 2.000



The global BeachTech network

Kässbohrer Geländefahrzeug AG
Kässbohrerstraße 11
88471 Laupheim
Tel. +49 (0)7392 900-0
Fax +49 (0)7392 900-445
info@beach-tech.com
www.beach-tech.com

Austrian branch
Kässbohrer Geländefahrzeug AG
Garnei 173
5431 Kuchl
Tel. +43 (0)6244 400-10
Fax +43 (0)6244 400-111
office@pistenbully.at
www.pistenbully.at

Swiss branch
Kässbohrer Geländefahrzeug AG
Bruneggerstraße 45
5103 Möriken
Tel. +41 (0)62 88770-50
Fax +41 (0)62 88770-51
info@pistenbully.ch
www.pistenbully.ch

Italian branch
Kässbohrer Geländefahrzeug AG
Via Galileo Galilei, 32
39100 Bolzano
Tel. +39 0471 93-3027
Fax +39 0471 93-2975
info@pistenbully.it
www.beach-tech.it

French subsidiary
Kässbohrer E.S.E.
455 Route de Marais
ZAC Porte de Tarentaise
73790 Tours-en-Savoie
Tel. +33 (0)479 1046-10
Fax +33 (0)479 1046-40
info@pistenbully.fr
www.beach-tech.fr

American subsidiary
Kässbohrer All Terrain Vehicles Inc.
8850 Double Diamond Parkway
89521 Reno, Nevada
Tel. +1 (0)775 857-5000
Fax +1 (0)775 857-5010
contact@pistenbullyusa.com
www.beachtechusa.com

On the details in this catalogue: there may have been product changes after this issue went to print. The images also include accessories and special equipment, which are not supplied as standard. The printing process may cause colour deviations. Statements on compulsory, legal and fiscal regulations and implications are only valid for the Federal Republic of Germany. Therefore, please ask your contact at Kässbohrer Geländefahrzeug AG for the final status. Printed in Germany.

BeachTech

BeachTech is a registered trademark of Kässbohrer Geländefahrzeug AG.

KÄSSBOHRER GELÄNDEFAHRZEUG AG

This company is ISO 14001 and ISO 9001 certified.

TELEMET
Efficiency Through Simplicity™

Advice, spare parts and service

Telemet · Office in Chile

Los Canteros 8723, La Reina, Santiago 7880414, Chile

Phone +56 22 356 2735

info@telemet.com

telemet.com