



Wide-area Cut and Collect



C30W BISON

All Clear.



TRILO is an expert in the field of suction technology applied to a wide range of machines for maintaining green infrastructures. We have over 45 years of experience in the design and construction of mowing or sweeping and collecting vacuum trailers. All over the world, in more than 40 countries, TRILO machines are used every day for FOD control and Habitat Management. TRILO machines are designed, developed and built in our factory in Amersfoort in the Netherlands.

FOD control and Habitat Management starts with TRILO



Reducing wildlife strikes with Airside Habitat Management

Aerodrome grass has the potential to provide food, security and possible nesting sites for a variety of wildlife. This can create the dangerous risk of bird and wildlife strikes, and is therefore a serious threat to flight safety. Effective habitat management is the most important way to reduce wildlife presence on aerodromes. Grass management through regular mowing makes these grassy areas less attractive as a habitat, and significantly reduces the risk of wildlife strikes. Habitat management can even reduce reliance on reactive or 'active' control methods to prevent strikes. Effective airside habitat management starts with good grass management – all of the grass clippings need to be removed and collected so they can no longer provide a suitable 'micro-habitat' for insects and small mammals that in turn attract birds. The TRILO BISON C30w allows you to do this in a smart and effective way.

Grass management is habitat management

Any lost control over grass growth can result in a thick thatch layer, causing poor water and air absorption into the soil. The TRILO cut & collect machine mows and collects grass clippings in one pass. This prevents clippings from 'settling down' between the stems after each cut, helping to prevent this thatch build-up and fertilization. TRILO helps you maintain control over your grass growth, resulting in effective grass management.

How can we help you?

Over the years, TRILO has gained a lot of experience in the field of airport FOD and habitat management at airports all over the world. When it comes to airport FOD and habitat management, we would be happy to think along with you to find a solution for your specific challenges.

BISON C_{30W} | Specially designed for airport mowing



This unique machine has been specifically designed and built for airport mowing and collection in one pass under the toughest conditions.

Designed and built based on years of experience

Every day in more than 45 countries, TRILO machines operate in many airports around the world. Over the years we have gained a lot of experience with FOD and Habitat Management at airports and incorporated it into our machines. The TRILO C30W is specially developed for heavy-duty wide-area airport mowing, and is based on our experience and the needs and demands of our customers.

Safe and easy to operate by one person

We have put a lot of effort into making the TRILO BISON C30W as simple and user-friendly as possible. Its intuitive control elements are logically arranged, easy and safe to operate. Any operator anywhere in the world can start using the TRILO BISON C30W after basic instruction. Machine operators will also enjoy working with the TRILO machine, which will be reflected in better results.

Low cost of ownership

Our goal was to build the best machine possible – in terms of performance and durability, as well as in terms of cost of ownership. The TRILO BISON C30W's simple but carefully thought-out design means that it requires very little maintenance. And because you can perform two tasks at once, you will save manpower and fuel costs. The large working width and high working speed will also limit costly runway closures.

- **One machine does the job of two**
- **Fuel efficient operation**
- **Low maintenance costs**
- **Easy to operate by one man**
- **High working speed**

Continue to work in the most severe weather conditions

Due to the high build quality and well-thought-out rugged construction, TRILO-machines are built to last. TRILO-machines continue to perform even under the most difficult of circumstances. Even in the most adverse weather conditions, such as heavy rainfall, you can continue with your mowing schedule. TRILO-machines will last a long time and are therefore durable.

Configure your TRILO-C30w online to your needs

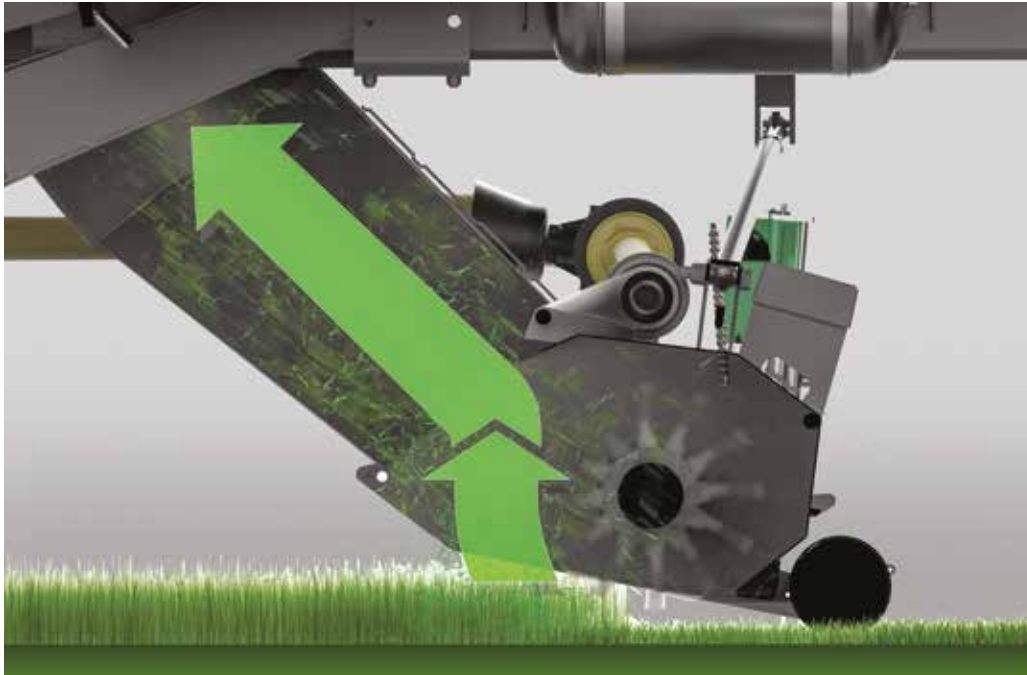
Each TRILO BISON C30w machine can be configured online according to your needs with a choice of many useful options. Configure a unique machine that has no equal in the market and really takes airport mowing to the next level. Go and try it yourself on the TRILO-website www.trilo.com. This way you always get exactly the C30w that is best suited for your FOD control and habitat management on your airport.

With TRILO you get exactly the machine you need

TRILO machines enable you to apply responsible FOD and habitat management at your airport and thereby reduce wildlife strikes and increase flight safety.

- **Low cost of ownership**
 - **Specially designed for working on airports**
 - **Cuts and collects grass clippings and FOD in one pass**
 - **Keeps working in the toughest weather conditions**
 - **Offers high working speed**
 - **Fewer runway closures needed**
 - **Safe and easy to operate by one person**
 - **High quality, durable and built to last machine**
 - **Enables effective wildlife habitat management to reduce wildlife strikes**
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BISON C30w | Standard features



TRILO Cut & collect the most efficient way of mowing

All the qualities for mowing wide-areas at airports come together in the design of the TRILO BISON C30w. High speed mowing with a cutting width of 6.9 m and a large loading volume. On top of that you can mow and collect the clippings in one pass. This prevents clippings from spreading and being ingested by jet engines or being dispersed on runways and taxiways by the jet blast. This helps you preventing unnecessary and costly runway closures. Cutting and collecting in one pass is by far the most efficient way to mowing and maintaining grass areas on airports.



Mowing and collecting FOD at the same time

Waste, often carried by the wind, spreads over wide grass areas at airports and poses a risk to flight safety. This waste can easily disperse and end up, for example, on runways and be ingested by jet engines, causing extensive damage. During mowing, the Foreign Object Debris (FOD) present is also immediately swept up and safely collected. As FOD is also collected in this way there is less need for time consuming FOD walks. Another advantage of mowing at airports with TRILO cut & collect.



TRILO Floating wings adapting to the contours of the terrain

The pressure of the lift cylinders is always kept between an adjustable amount of pressure that keeps the wings suspended. In this way the wings never rest on the ground with their full weight. The lift arms are supported and actuated by lift cylinders connected to large accumulators this allows them to lower or raise the wings thus adapting to the unevenness of the terrain. The forces on the wings, arms and brackets during mowing are greatly reduced. Because there is less resistance, you also save fuel. As an extra benefit it will give a tractor a lot more traction while working with the TRILO BISON C30w.



Easy to adjust cutting height

The cutting height is determined by adjusting the rollers that guide the wings along the contours of the soil. The cutting height can be adjusted with hydraulic cylinders from 5 to 25 cm. Setting the cutting height is easy with the shims. The shims are easily accessible and can be adjusted without tools. In transport mode, the rolls retract so the machine will not exceed 2.55 m transport width.

BISON C30w | Standard features



TRILO direct flow

Suction technology plays an important role in mowing and collecting. And that is precisely where TRILO has a lot of experience with. Apart from a very powerful impeller, the airflow also determines the effectiveness with which materials are being collected. We have put a lot of thought and research into optimizing the airflow of the C30w. This has resulted in a powerful airflow system for the C30w (TRILO direct flow). The aspirated materials follow the path of least resistance, which results in higher suction power and enables high working speeds.



Easy unloading with a chain floor

Being able to continue working efficiently, causing as little disruption as possible and preventing unnecessary closure of runways, that is what the TRILO C30w is made for. Due to a large loading volume of 30 cubic meters (Hi-volume), you can work longer with a BISON vacuum trailer. After all, you don't have to unload as often and that reduces the need to drive back and forth to the unloading location. Unloading is quick and easy with the aid of a chain floor (unloading floor). In a few minutes you unload the entire contents of the container and you are ready for the next load.



Easy maneuvering with steerable rear axle

Steerable axles could help increase the number of axles in a trailer without increasing the tyre scrub which damages the soil. Using a steered rearmost axle does not only improve maneuverability. It also reduces the tyre scrub during those tight maneuvers, thus improving mobility on slippery surfaces. This makes the TRILO BISON C30w very suitable for working on soft soils, limiting damage to the soil.



Flail kicks back when hitting stones

There are all kinds of objects hidden in the grass, including stones. Stones can be hit by the rotating flails while mowing. Each flail is individually hinged to the rotor making it easy to absorb impact with an object. A flail kicks back and returns to its position by the centrifugal force of the rotor when hitting a stone and continues mowing without damage. Each flail is easy to replace individually should one become damaged.

BISON C30w | Standard features

Easy to operate from the driver's seat

The TRILO BISON C30w can be operated from the driver's seat by means of a clear touchscreen. All functions and controls are clear and intuitive to use. Convenience and simple operation is what we strive for. This not only increases the ease of use and makes working more efficient, but also makes working with the TRILO C30w safe.





BISON C30w | Options



Rear tailgate downward air outlet*

All TRILO BISON suction trailers can optionally be equipped with an air duct mounted in the tailgate. In this configuration, the airflow is routed behind the tailgate and blown below the TRILO C30w. This greatly reduces the number of particles spreading through the air. A big advantage for airports in arid and dry areas or with frequent mowing allowing fine grass clippings to spread less easily through the air.



Filters and dust suppression (water nebulization)*

A TRILO BISON C30w can be fitted with easy to clean filters to minimize dust and particle emissions. When configuring a TRILO C30w online, you can choose which type you prefer. A water nebulization system, that is operated from the driver's seat, suppresses the spread of dust particles. Before the air is blown out, nozzles spray upwards into the air exhaust duct. Only the particulate matter adhere and fall directly to the ground behind the TRILO C30w. This removes most dust particles from the airflow.

** Depending on configuration (All TRILO machines can be configured online according to your wishes)*



Tire options*

The standard TRILO BISON C30w is fitted with large 710/50R26.5 tires that ensure low ground pressure. This keeps the impact of the vehicle on the ground very low, preventing soil damage like ruts and tire marks. You can also optionally choose for High-flotation tires* for an extreme low tyre pressure and optimal weight distribution. Several tyre brands are available as options, each with its own distinctive features. Less soil compaction ensures healthy, open soil structure in which water can drain more easily. This means less chance of flooding and fewer puddles of water that attract birds/wildlife.



TRILO Insight platform and telematic*

TRILO BISON vacuum trailers can optionally be equipped with sensors and telematic, which can record and collect data on vehicle usage, service requirements and maintenance. This helps you to get a comprehensive picture of the health, performance and productivity of your TRILO BISON C30w. Telematics also enables TRILO to remotely diagnose malfunctions and perform necessary software updates. TRILO is investigating the possibilities for additional platform applications on its machines in order to enable its customers to use their machines as efficiently as possible.

BISON C_{30w} | Specifications

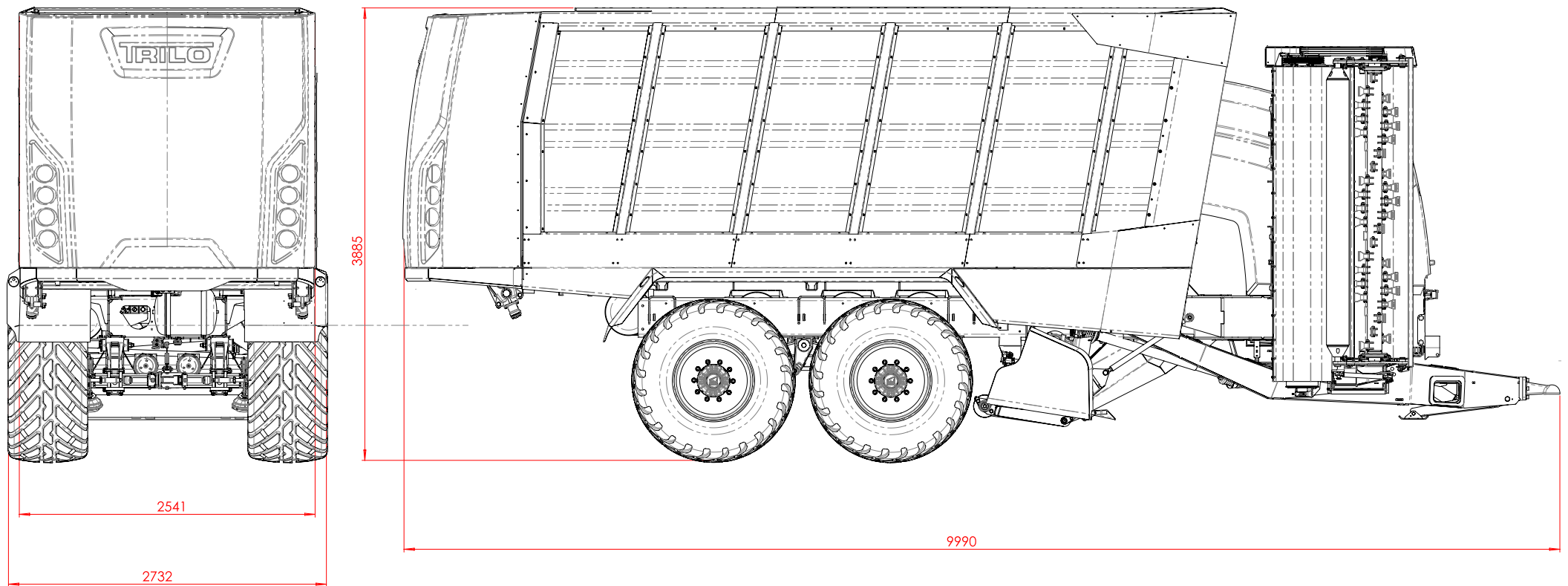


Working width	6.9 m
Capacity	30 m ³
PTO output	Depending on the conditions
PTO	1000 RPM
Required hydraulics	120 l/min Load Sensing + 1x double acting valve
Weight	12.000 kg (depending on options)
Height	3.85 m
Transport Width	2.55 m (fenders 2.75)
Length	9.90 m
Max. axle load	9.000 kg
Max. axle load technical	12.000 kg
Max. total weight	22.000 kg
Max. total weight technical	28.000 kg
Working width	6.9 m
Tires	710/50 R26.5 - 800/45 R26.5
Tire inflation system	Optional
Suspension	Parabolic
Brakes	Pneumatic
Steering	Rear axle (forced)
Floating wings	standard
Ground pressure relief	standard
Automated height adjuster	standard
Machine monitoring system	standard
Headland management	standard
Automated road/field mode engagement	standard
Telematics	Optional
Water injection	Optional, 500 L
Rear lid outlet spout	Optional



** Depending on configuration (All TRILO machines can be configured online according to your wishes)*

BISON C30w | Dimensions



The C30w is a category R machine (towed machine). For this reason the machine is allowed to be 3 m wide in transport mode. As you can see in the drawing above, the hopper and the folded wings are only 2.55 m wide. The height is 3.85 m. If you deflate the tires of the machine when transporting it on a Euro-class low-loader, the machine can be transported throughout Europe without a special permit.



Wide-area mowing and collecting at airports is done in the most efficient with a TRILO BISON C30w.



TRILO Smart Industry B.V. / Astronaut 40 / 3824 MJ Amersfoort / The Netherlands
Tel: (+31) (0)33 456 45 50 / E-mail: info@trilo.com / www.trilo.com

