

Press release

BIBKO® INFRA TEC - Recycling without a construction site on the construction site

Pre-assembled, ready-to-connect recycling machine on a loading bridge provides maximum flexibility

The demands placed on modern recycling technology are changing. In addition to high processing capacity, short commissioning times, flexible application options, and low investment risks are becoming increasingly important today. Companies that operate at different locations or only require temporary recycling capacity, in particular, are looking for solutions that do not require complex infrastructure.

With a mobile recycling machine mounted on a roll-off loading bridge, **BIBKO® INFRA TEC** takes exactly this approach: transport, connect, recycle.



Recycling machine - pre-assembled, ready for connection

Mobile instead of stationary

While stationary recycling machines demonstrate their advantages with consistently high throughput rates, mobile systems are in demand wherever material needs to be processed at different locations.

Typical applications include:

- Sewer sludge
- Sand trap residue
- Street sweepings
- Mineral waste

Instead of transporting the material over long distances or waiting for stationary infrastructure to be built, the recycling machine is brought directly to the site of operation. This saves time, reduces transportation costs, and enables the rapid recovery of mineral raw materials.

Pre-assembled instead of assembled on site

The greatest time expenditure for mobile machines often occurs not during transport, but during commissioning. Foundations, electrical installations, water connections, or mechanical assembly work can take several days. That is why **BIBKO® INFRA TEC** takes a different approach.

The entire recycling machine is fully assembled, electrically wired, and tested at the factory on a loading bridge in accordance with DIN 30722. This results in a plug-and-play unit that requires only two utility connections:

- Power supply via CEE-plug
- Water connection via 2"-fitting

This completely eliminates the need for time-consuming on-site installation work.



Control cabinet with plc and traffic light system

Pre-assembled and ready for connection in practice

After transport to the site, the system is simply placed on the prepared installation site. The power and water connections are then established. Within a very short time, the complete recycling system is ready for operation.

This approach significantly reduces the organizational effort, especially for short-term projects or frequently changing construction sites. Instead of spending several days on installation and commissioning, material processing can begin immediately.

Recycling machine

To reduce downtime during material feeding, this system combines an IT-1500/1_BW-TR recycling machine - with a recycling capacity of 4 m³/h - with a dosing buffer

The dosing buffer enables rapid, intermittent material feeding. Processing then takes place continuously in the recycling machine. This results in a reduction in waiting and downtime.



Feed hopper – Splash plates folded down for transport

Recycling process

After the recycling system is started using the restart button, material is fed into the dose buffer. Feeding can be done either via a front-end loader (indirect recycling) or directly from the vehicle (direct recycling).

When feeding directly from the vehicle, the system is typically installed in a sunken position.

The material is first buffered in the dosing hopper and then continuously fed into the recycling system. Excess water flows by gravity directly from the dosing hopper into the recycling system.



Helix and bucket elevator

At the same time, water flows through the chamber using the countercurrent principle. This washes out unwanted components $\leq 250 \mu\text{m}$, which are then discharged from the recycling machine along with the excess process water.



Vibrating chute

A bucket elevator removes the washed material $>250 \mu\text{m}$ from the washing chamber and feeds it into a vibrating chute. The material is dewatered and discharged via this vibrating chute.



Recycled material after the recycling process

Maximum flexibility for changing projects

Many recycling companies today handle projects with limited durations. Once a construction site is completed, the entire machine is simply dismantled and transported to the next location. The mobile design is therefore suitable for, among other things:

- Waste management companies
- Sewer cleaning companies
- Environmental service providers
- Recycling companies

This ensures that the investment remains flexibly deployable in the long term.

A new approach to cost efficiency

Mobile systems not only reduce transportation costs; they also minimize downtime because no time-consuming reinstallation is required.



Loading process

The concept becomes particularly cost-effective when combined with the integrated dose buffer. This buffer accepts the delivered material in batches and feeds it continuously to the recycling machine. As a result, vehicles can be unloaded significantly faster, while the actual recycling process continues at a steady pace. This reduces waiting times and improves the utilization of the entire machine.

Sustainability -

Starts with the machine design

Mobility offers more than just economic advantages. Short material transport distances and the recovery of high-quality mineral fractions make an important contribution to resource conservation.

At the same time, secondary raw materials are produced that can be returned to the material cycle according to their quality.

Summary

Today, mobility means more than just the ability to transport. With its pre-assembled, ready-to-connect recycling machine, **BIBKO® INFRA TEC** combines modern recycling technology with maximum operational flexibility.



Recycling machine loaded onto a roll-off truck

Full pre-installation on a roll-off loading platform enables exceptionally quick commissioning and significantly reduces installation effort, downtime, and project costs.

This provides a decisive advantage, especially for companies with changing operating locations: recycling capacity where it's needed - ready for immediate use, cost-effective, and flexible.

Further information

The following QR-Code will take you to the **BIBKO® INFRA TEC** - YouTube channel.



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