

BUCHER
municipal



Cosmix

Pour the route to success
with your **mobile batching plant**

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Introduction to Bucher

Bucher Municipal is a company built on a strong heritage. As a division of Bucher Industries, Bucher Municipal is a leading manufacturer of municipal vehicles. Our range encompasses sweepers and sewer cleaning equipment, as well as winter maintenance, vehicles for refuse collection and construction equipment.

We are proud of our ability to introduce the very latest technology and equipment to the market. We provide an incredible portfolio of machinery to a worldwide customer base in a number of sectors, including agricultural machinery, municipal vehicles, hydraulic components and manufacturing equipment. It is with this portfolio that we create milestones for the industry.

Since the 1800s, we've been introducing specialist machinery, hydraulics, belt conveyors and precise dosage systems to the market. All of which has led us to the creation of the Bucher Cosmix.

The Bucher Cosmix is a mobile batching plant like no other. Unbound by geography, volume or specification, the Bucher Cosmix is virtually without limits. Take it onsite, on any site and pour to your heart's content.

You choose the setting...

How does the Bucher Cosmix work?

Sand, stone and cement are loaded into a specifically manufactured hopper, with two lateral water tanks with a capacity of 2400L for production and cleaning.

Once onsite, the operator only needs to choose the rate of production and quality required for the job in hand. Then you are ready to pour. Thanks to its software system, the Cosmix's variable speed conveyor and automated flow control gates will ensure the correct amount of sand and stone is delivered to the mix.

Finally, the aggregates will be joined by the required cement, chemical, fibre or powder additives in the high-speed mixing auger to create your specific mix.

With a camera* and more than 20 wireless remote functions, the operator has the freedom to control the machine while driving or standing in a suitable location whilst onsite.

* Upgrade

At a glance:

- Rate of production - 50m³/h
- Solid capacity of cement - 2.5m³
- Total capacity of aggregates - 9m³
- Water tanks - 2400 L
- Maximum radial working distance - 6,000mm
- Amplitude - 125°
- Powered by power take-off or auxiliary engine
- Four mounting options

Benefits

The benefits of the Bucher Cosmix are almost as limitless as the unit itself. Whilst some may find one main attribute more useful than another, it is the combined package that makes this machine stand out on the market today.

Anywhere



Any time



Adaptable and versatile, the Cosmix can be fitted to a semi-trailer, hook lift and railway flat car. When you're on the road, it's unlimited by distance or time because the product is mixed when it gets to your site. This makes it ideal for remote destinations, or cities with a high volume of unpredictable traffic.

With the Cosmix, you're no longer reliant on the cement plant being open. This is a machine that works to your 24/7 schedule, and it's not weather dependent. This is pure efficiency – the concrete is produced when it arrives onsite, to the amount you need and with an unlimited production.

Any amount



This is a world of zero waste – your customer gets exactly what they pay for, to the exact specification of the project. The Cosmix can produce concrete at a rate of 50m³ per hour and has a maximum load capacity of 18 tonnes. You're free to pour any amount, but one thing is set in stone: the concrete is mixed on demand so it's always fresh.

Any grade



The Cosmix's versatility means you can create different grades of concrete from the same load. It is also fitted with liquid, powder and fibre additive systems. Just imagine the possibilities and speed of execution from one unit.

You choose the setting...

The Bucher Cosmix is a mobile batching unit like no other.

By combining the ability to drive wherever you want, with batching on the spot, the possibilities are virtually limitless.

Most concrete today is manufactured in a batch plant and delivered in a transit mixer. The concrete has a limited lifespan between batching, mixing and curing, which means after introducing water to the cement and aggregate mixture, the trucks have between 1.30 hour to 2 hours to lay the concrete.



Configure your Cosmix
buchercosmix.com/configurator



Key Features

Instead of wet concrete being delivered onsite ready mixed, and the time limit ticking ever closer, the Cosmix can drive to your site and mix just the right amount of concrete, to the exact specification of your client's project.

Gone are the days when you would have to return to the batching plant between deliveries. If you have a large site, in the city centre for example, you can store material directly inside the Cosmix at the construction site, avoiding downtime during the day to transport material. Fill your storage during the evening and you can work virtually 24/7.

Switching between mix designs onsite enables you to order minimum quantities, which will ultimately save your client money.

The technology offers countless benefits to both your final customer and the owner of the machine.

1. Control box with wireless remote control, on-board printer and GPS location and maintenance.
2. Full automatic Belt, gates, mixing auger and water tanks
3. High pressure washing system
4. Cement hopper, gate and pneumatic loading system
5. Hydraulic tarp covers
6. Liquid additive system, powder hopper and fibre system
7. Auxiliary engine or PTO
8. Subframe
9. Auto-lube system

Applications

Regardless of the project or application, the Cosmix's unrivalled technology is what makes this unit so universal. Measuring, mixing and pouring has never been so accurate.

Oil and Gas Pipeline



With our technology, short loads and remote locations are no issue. The Bucher Cosmix keeps the aggregates and water separate, so you can start mixing on-site. No matter how long the road is, your concrete will always be fresh.

General Contracting



Increase your job capacity with the Bucher Cosmix. Batch, measure, mix and pour with exactly the right mix and amount required. For small or large quantities, the Cosmix enables you to be in control. Keep the unit onsite and start and stop production at any time, with no compromise.

Road Construction Works



The Cosmix helps you build and repair cities and countries quickly and effectively, without causing too much disruption to traffic. With the technology included, the Cosmix meets all the requirements for city projects, including infrastructure, curbs, sidewalks, highways and street repair. These applications all require fast, reliable and maximum strength concrete.

Paving



We understand that not all projects require large quantities. Many construction jobs are small, but not unimportant. That's why the Bucher Cosmix is the perfect companion for any paving job. With the Cosmix, you can stop and start the concrete's flow, leaving your crew to pour the concrete and to finish with little to no downtime.

Backfill and Infrastructure



The Cosmix is perfect for creating a specific and consistent concrete mix suitable for backfilling trenches, water and sewer pipeline networks and foundations. The excavated soil can be recycled back into the concrete mixture, reducing the need for virgin material. The Cosmix can also supply quality concrete for infrastructure works such as bridges, tunnels and optical fibre.

Precast



We understand that the mix for your precast concrete always needs to be accurate and high quality. Making sure your admixture is dosed to your precise specifications, and is thoroughly mixed, is critical. The Bucher Cosmix can do just that. And you can make several different mixes using the same unit and aggregates, so you won't be wasting time waiting for a different batch to be delivered before you can start work.

Railway Construction and Maintenance



Rail construction projects, for trains, subways and tramways, often present contractors with key challenges, meaning efficiency is critical to a project's success. As the Cosmix can be mounted to a flat rail car and transported via railway lines, this unit enables swift onsite production at even the most remote and difficult to reach locations.

Sensitive Areas



At sensitive areas such as military, mining, airports and nuclear sites, thorough security checks are needed before letting any vehicle onsite. With the Cosmix, this is not a problem. The aggregates and water are kept separate so you can start mixing fresh concrete as soon as the mix is delivered. This maximises efficiency and solves the key issues in these areas.

 **Configure your Cosmix**
buchercosmix.com/configurator

To create your very own Bucher Cosmix, now's the time to test out our configurator.

Key Features

We use our experience to build our machines, keeping them close to our customers' needs. They are standardised to offer you maximum profitability and productivity by simplifying your day-to-day work and maintenance.

Control box with the wireless remote control

The control system uses the most advanced technology to ensure accuracy when pouring. It can save over 50 formulas and is designed to support the user during every step, from preparation to servicing.

Aggregates, cement and water dosing system

Cosmix is the first mobile batching unit worldwide capable of delivering all components of the mix automatically, without any manual adjustment while switching between different mix formula. The operator has simply to choose the formula required and the Cosmix will automatically adjust all the required parameter resulting in zero downtime, zero waste and extreme profitability.

Aggregates - The aggregates flow is delivered by two motorized gates synchronized with the conveyor belt speed, completely computer-controlled by position and rotation feedback sensor.

Cement - The cement metering auger it's also automated and dispenses the right quantity required thanks to the load cells level metering system.

Water - The water addition system features a volumetric pump, capable of delivery at each round the same amount of water. With a speed sensor, the Cosmix computer controls the exact amount of water delivered.

Powdery or liquid additive - The same principle applies also to additive ensuring mix performance without rivals and maximum consumption efficiency.

Mixing auger - The mixing auger ensure maximum flow. Divided into small sections, the auger guarantees perfect homogeneity of the mixture and an unparalleled production speed.

High pressure washing system - To further extend the lifespan of the mixing auger and of your chassis*, the high pressure washing system it's included, this keeps your equipment safe and clean.

On-board printer

This printer enables you to print reports to confirm the quality and quantity delivered.

Auto-lube system and hydraulic tarp covers -

Equipped with a charge indicator, the auto-lube system lets you grease all greasing points according to lubrication recommendation.

Across mountains, highways and off-road, hydraulic tarp covers keep the aggregates in the hoppers.

Special cement preparation - With liquid additive tanks, a powder additive* system and a fibre dispenser*, you can add chemicals and other supplementary cementing materials to your mix. Whether you need to combat extreme weather conditions, strengthen your mix, or reduce cracking, the Cosmix has you covered. The tanks can be operated independently or controlled from the control panel.

GPS location and maintenance - You can locate the position of your equipment and the rate of production in real time. In case of troubleshooting, our technicians can support you directly from our headquarters.

Auxiliary engine - The independent auxiliary engine supplies the electric to power the mixer, giving you full autonomy. Our sales team can advise you on your settings.

Subframe* - The Cosmix can be mounted onto different vehicles ready to be transported or fixed to a site. Options include semi-trailer, truck, railway flat car and quick change system, per example, like the "hook lift" system.

*Depending options

Mounting options

The Bucher Cosmix can be mounted on to many different vehicles ready to be transported or fixed to a site.



Truck with power take-off (PTO)

The most common option usually spotted by our customers. The truck with PTO mounting option means the Cosmix is mounted onto a truck and requires power from the truck's engine.



Truck with auxiliary engine

If your truck does not have a PTO, the Bucher Cosmix can be mounted onto a truck with an auxiliary engine. The equipment takes its power from an independent auxiliary engine located behind the cab of the truck.



Semi-trailer

The Bucher Cosmix can be mounted onto any new or old chassis, cab or trailer which is auxiliary powered. When it is trailer mounted, this means that the unit can be stationary and left on-site as a batching plant.



Railway flat car

Again, a mounting option with an auxiliary engine, rail mounted units enable the Cosmix to travel by rail and enables efficient completion of rail projects. In many cases, there are places which are too difficult to reach on a railway line. Therefore, there isn't any other option apart from using a railway flat car. For repairs or different jobs, there isn't a better solution worldwide.



Hook lift

A hook lift is an attachment on a truck powered by an auxiliary engine. It enables the unit to be mounted and dismantled quickly and easily from the truck's chassis.

You choose the setting...



Semi-trailer



Truck mounted



Railway flat car

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