LOGISTICS & TRANSPORTATION OFFERING

DEFINING THE FUTURE
UNDERGROUND

normet

normet.com

LOGISTICS & TRANSPORTATION

Our underground transport vehicles are designed to ensure efficient logistics and high productivity in underground mines and tunnel excavations. They are highly configurable and let you safely and reliably transport a wide range of resources to work sites, including concrete, personnel, materials and fluids.

THE NORMET FRONT CABIN – DEFINING A NEW LEVEL OF OPERATOR COMFORT

Our front cabin is a result of decades-long experience in designing underground equipment, setting new industry standards for visibility, comfort, ergonomics, and serviceability.

The forward-angled windscreen prevents the accumulation of dropping water and dust, ensuring that the windscreen remains clean in harsh underground conditions. The new wide-angle mirrors with three separate sections guarantee an excellent level of visibility in every direction. When it gets dark, the high-intensity LED driving lights illuminate the way ahead.

The high-definition reverse camera with multiple alternative placement options provides real-time video footage from the back or the sides of the vehicle while the large window area with narrow A-pillars allows for a broad, unobstructed field of view.

Our new advanced suspension control allows the operator to glide over rough road conditions with ease for a world-class driving experience, while the low noise level of the new cabin increases comfort and allows conversation at normal voice levels. The cabin's roomy interior design increases space, providing comfortable accommodation for up to three passengers.

NorSmart 3 GUI for SmartDrive vehicles.

Improved comfort and ergonomics

Upgraded visibility and serviceability

Enhanced driving experience

FOPS/ROPS approved

Standardized for our customers' benefit

NORMET UTIMEC –
TAILORED FOR PURPOSE

Normet Utimecs are tailored for a certain purpose, meaning that they offer high productivity with clever features and simple, robust structures. Our Utimec logistics vehicle offering can be used for any underground transportation purpose, such as fuel, lubrication, personnel, or material transportation.

PERSONNEL TRANSPORTATION

Our dedicated Utimec personnel transporters have passenger compartment options for 20 to 32 people. The personnel carriers can be equipped with a full chassis suspension, offering outstanding ergonomics for the passengers.

MATERIAL TRANSPORTATION

Utimec flat deck material transporters have payload ratings ranging from 10 to 16 tonnes and are available with different kinds of platforms. Our flat deck material carriers can be equipped with a hydraulic crane to facilitate loading and unloading of material on and off the platform.

For light rock transportation purposes, we offer two Utimecs with dump boxes and carrying capacities of 10 tonnes and 6 m³, and 16 tonnes and 9 m³, respectively.

FLUID TRANSPORTATION

For oil changes and refueling machinery at the work site, we offer Utimec fuel and lube transporters with total tank capacities from 4,000 litres to 10,000 litres. All Utimec Lubes and Fuels are equipped with refilling pumps with hose reels and filling nozzles, and can also be fitted with a greasing and tire inflation system.

For water transportation, dust suppression, and fire extinguishing, we offer a dedicated Utimec water carriers with capacities from 6,600 to 12,000 litres and different kinds of pumping and nozzle systems.

Utimec MF 100 Material SD with high platform edges.

FOR FLUID TRANSPORTATION

- Utimec MF 400 Lube
- Utimec LF 400 Lube
- Utimec LF 1000 Lube
- Utimec LF 1000 Fuel
- Utimec MF 660 Fire
- Utimec LF 1000 Water
- Utimec LF 1200 Water

FOR MATERIAL TRANSPORTATION

- Utimec MF 100 Material
- Utimec MF 100 Material SD
- Utimec MF 060 D
- Utimec LF 130 Material
- Utimec LF 090 D

FOR PERSONNEL TRANSPORTATION

- Utimec MF 205 PER
- Utimec MF 205 PER SD
- Utimec MF 328 PER

The battery-electric Utimec MF 205 PER SD.

NORMET MULTIMEC –
FOR CHANGING TRANSPORTATION NEEDS

MULTI-FUNCTIONAL CARRIERS WITH AN INTERCHANGEABLE CASSETTE SYSTEM

Our Multimec slide-on/slide-off cassette system is the ideal solution for mines needing carriers that can quickly change function and handle a wide variety of transportation requirements. With one Multimec carrier and the right choice of cassettes, each for a specific purpose, you have a safe and economical underground transportation system for personnel, materials, concrete, fuel and so on. We offer two different sizes of Multimec carriers and a broad selection of cassettes for different purposes, all of which fit both Multimec size classes. With our hydraulic cassette handling system, these cassettes can be swapped on and off the carrier in just a couple of minutes.

Multimecs are available with a FOPS/ROPS certified, open or enclosed cabin for driver and 1-2 passengers, providing superior safety, visibility and comfort for both. The Multimec MF 100 is also available with our battery-electric Normet SmartDrive® technology, allowing for silent operation with zero local emissions.

Fast cassette changing ensures the efficiency of different logistics and lifting & installation works.

C162 Personnel cassette

C600 Emulsion cassette

C500 Concrete mixer cassette

C490 Fire cassette

CASSETTES

Base cassette	C125 Crane	C500 Fuel
C010 Compressor	C135 Crane	C350 Lube
C060 Pipe Deck	C280 Sludge	C300 Mixer
C060 Tipping	C162 Personnel	C500 Mixer
C100 Flat Deck	C600 Explosives	C350 Water
C135 Flat Deck	C600 H explosives	C500 Water
C100 Material	C600 Emulsion	C490 Fire
C100 Cargo	C350 Fuel	C100 Workshop

MULTIMEC CARRIERS

- Multimec MF 100
- Multimec MF 100 SD
- Multimec LF 100

THE XS OFFERING – COMPACT AND AGILE

THE VARIOMEC XS OFFERING

Our most compact carrier, the Variomec XS, is designed to minimize total cost of ownership and provide excellent performance with best-in-class safety and payload capacity against current competition in the market.

The versatile Variomec XS carrier fits to a 3.5 m x 3.5 m envelope and can be utilized for multiple different equipment applications. The XS carrier can transport up to 4 tonnes of payload, be it either personnel, goods or both together.

Using the same carrier for multiple purposes generates significant operational cost benefits since the majority of spare parts, most service tasks and the operator environment are same or similar in the different models. Furthermore, this renders both a smaller inventory of spare parts and more effortless serviceability possible. All daily checks can also be done from the ground level, improving the safety and efficiency of maintenance work.

While The Variomec XS is a compact carrier, it is designed and built with our decades-long experience in the world of underground equipment. Vehicles in the XS offering have similar safety features and are as robust as our larger vehicles.

The FOPS/ROPS approved cabin allows for excellent visibility and ergonomics to ensure a safe and comfortable environment for the operator. The XS units have a fully suspended chassis and a hydrostatic transmission, ensuring a world-class ride in the roughest road conditions and ramps. The brake system, including oil-immersed axle brakes and a SAHR type safety brake, is designed to meet the demands of the underground environment.

The XS offering includes numerous purpose-built applications, covering a wide variety of underground transportation demands.

VARIOMEC XS MODELS AVAILABLE

- Variomec XS 040 Material
- Variomec XS 025 Crane
- Variomec XS Nipper
- Variomec XS 035 Crew
- Variomec XS 035 Crew SD
- Variomec XS 900
- Variomec XS 115 PER
- Variomec XS Emergency
- Variomec XS 038 E
- Variomec XS 350 Lube
- Variomec XS 350 Fuel

The Variomec XS 025 Crane, developed together with Redpath, wasesigned to handle extensive cable bolt services in BHP's Olympic Dam mine. Scan the QR code to see the video.

Variomec XS 025 Crane in Olympic Dam Mine, Australia.

VARIOMEC XS 040 MATERIAL is a compact service vehicle with a 4-tonne carrying capacity. It is equipped with a crane and a roomy platform with a low loading height. The spacious cabin has room for a driver and one to two passengers.

VARIOMEC XS EMERGENCY is a nimble emergency vehicle with a FOPS/ROPS compartment for transporting stretchers, medical equipment and 3 additional passengers. The compartment can be fitted with heating, A/C, and a HEPA filter for increased comfort.

VARIOMEC XS 035 LUBE AND FUEL are compact and durable vehicles featuring a voluminous tank system with a modular layout that can be divided into separate sections. They are tailored for safe and efficient transportation of either lubrication oil or fuel.

VARIOMEC XS NIPPER is a purpose-built and agile vehicle designed to carry drilling rig consumables in underground environment. Vehicle have specially designed deck with storage boxes, and it can transport 820 kg mesh sheets size up to 2000 mm x 5000 mm. Nipper can be equipped with optional 21 kNm crane which allows load handling in remote locations.

VARIOMEC XS 115 PER
Variomec XS 115 PER is a nimble underground bus with a carrying capacity of 14 persons. Its roomy personnel compartment is FOPS/ROPS approved and can be equipped with heating and A/C for superior passenger comfort.

VARIOMEC XS 038 E is a purpose-built and agile vehicle for safe explosives transportation. The vehicle has a 3.8-tonne carrying capacity and offers a safe compartment with rubber lining and a separate box for detonators.

SEE THE FULL OFFERING AT NORMET.COM

FOR CONCRETE TRANSPORTATION

We offer a wide range of mobile concrete transportation equipment to meet the mining and tunnelling industries' needs for improved safety and higher productivity.

Our concrete transportation offering covers two different types of equipment with several different-sized concrete drums ranging from 4 m^3 to 10.5 m^3 of practical carrying capacity. Utimec Transmixers with a horizontal drum allow for a very low overall height and Utimec Agitators with an askew drum offer excellent mixing capability with the possibility to fill the drum with a filling hopper.

With hundreds of units delivered worldwide, our concrete transportation equipment has proven its durability and is globally recognized for excellence in quality.

UTIMEC TRANSMIXERS & AGITATORS

A dedicated concrete transportation vehicle, designed for the underground environment from the start, offers the highest level of safety and the lowest operational costs for the customer. As the vital importance of operators' safety and wellbeing is becoming increasingly recognized in underground mining, we are constantly developing safer and more ergonomic solutions such as our FOPS/ROPS approved front cabin with a fully suspended chassis to decrease operator fatigue.

Normet Utimecs are available with either engine options from multiple emission rating classes or our cutting-edge battery-electric architecture Normet SmartDrive.

FOR CONCRETE TRANSPORTATION

- Utimec MF 500 Transmixer
- Utimec MF 500 Transmixer SD
- Utimec LF 500 Transmixer
- Utimec LF 600 Transmixer
- Utimec LF 600 Transmixer SD
- Utimec LF 700 Transmixer
- Utimec LF 600 Agitator
- Utimec LF 700 Agitator
- Utimec XL 1100 Agitator ED
- Tornado S2

Utimec LF 700 Agitator is available with a Volvo Penta Stage V engine, helping decrease diesel particles from underground machines. Scan the QR code for a video.

UTIMEC XL 1100 AGITATOR ED

NORMET ELECTRODYNAMIC® TECHNOLOGY

By combining the best features of our battery-electric Normet SmartDrive® platform and state-of-the-art low-emission engine technology, Normet ElectroDynamic® architecture allows for increased payload capacity while ensuring superior driving dynamics, high performance and superb fuel efficiency.

A key element of the new ElectroDynamic powertrain is that the need for a drive shaft is eliminated through driving the externally cooled mining axles with permanent magnet motors in a highly efficient direct-drive configuration. This not only renders a low and compact load end design, instant torque and economical electric retardation possible, but also increases component lifetime.

Normet ElectroDynamic® also enables one-pedal driving, where the machine automatically controls both acceleration and deceleration with the operator's accelerator pedal input.

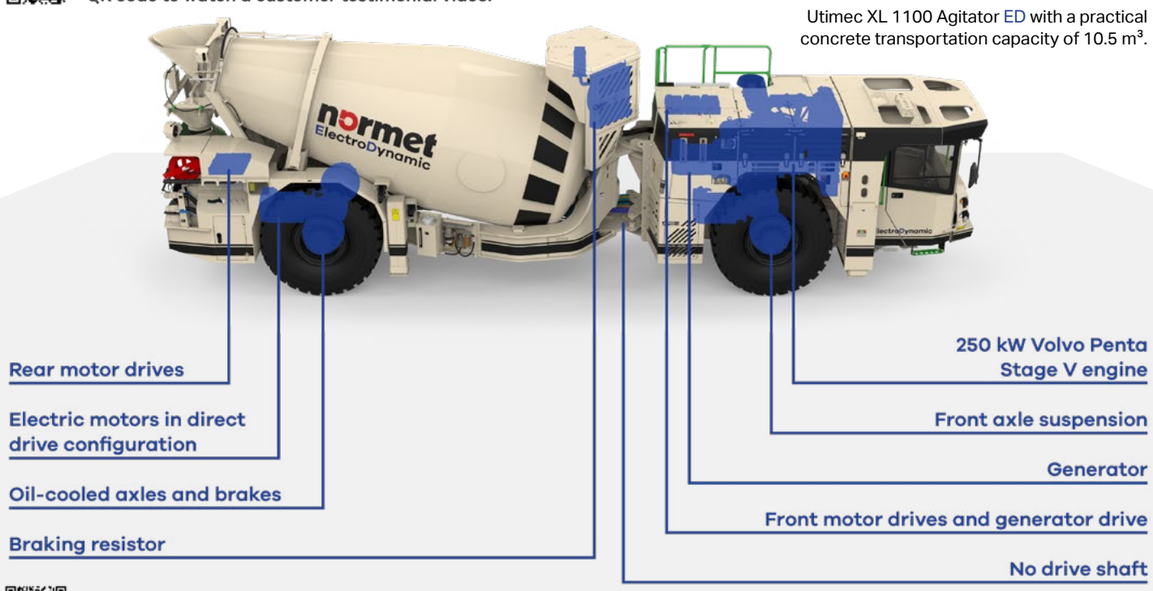
Redpath is operating a fleet of XL 1100 EDs in BHP's Olympic Dam Mine in Australia. Scan the QR code to watch a customer testimonial video.

UTIMEC XL 1100 AGITATOR ED

Utimec XL 1100 Agitator ED with an impressive concrete transportation capacity of 10.5 m^3 and a payload capacity of 24 tonnes is designed for concrete transportation in underground mines and tunnels with a tramming height of 3.3 m or more. It comes with many clever features like a hydraulic discharging chute, a remote-controllable drum, a form oil system and local emission-free operation by plugging the machine into the mine's power grid.

Built on the new Normet ElectroDynamic® platform, it paves the way to the future of more sustainable underground operations.

Utimec XL 1100 Agitator ED with a practical concrete transportation capacity of 10.5 m^3.



Scan the QR code to find out more and view a video showcasing the Normet ElectroDynamic® technology and architecture.

Scan the QR code to watch a video explaining the SmartDrive architectures in more detail.

NORMET SMARTDRIVE® OFFERING FOR LOGISTICS & TRANSPORTATION

INCREASED PERFORMANCE WITH ZERO LOCAL EMISSIONS

THE SMARTDRIVE ARCHITECTURE

Since 2019, Normet SmartDrive battery-electric machinery has been at the forefront of transforming underground spaces into fully electric, zero-emission operations. With an expanding fleet across six continents, SmartDrive continues to make a sustainable future a reality today.

SmartDrive offers modular battery-electric vehicle (BEV) architectures designed to optimize energy consumption and performance in underground mining and tunnelling applications. Our SmartDrive equipment enhance productivity, reduce operating costs, and, most importantly, eliminate local emissions.

Normet SmartDrive equipment is available across a range of Normet platforms, including the XS-series, M-series and L-series, each designed to meet specific operational needs. The XS-series is compact for tight spaces and light logistics needs, the M-series is optimized for processes such as spraying and explosives charging, and the L-series provides robust solution for heavy transportation needs.

XS-series SD architecture is designed for light logistics needs.

M-series SD architecture is ideal for process equipment.

L-series SD architecture is built for heavy transportation needs.

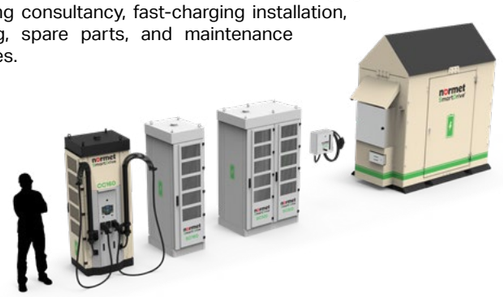
All vehicles in our SmartDrive logistics and transportation offering feature a FOPS/ROPS approved cabin for improved safety and an advanced suspension system for both enhanced driving comfort and increased component lifetime.

We provide comprehensive turnkey solutions to support your electrification journey, covering all aspects from planning to equipment end-of-life. Normet's experts assist in conducting pre-studies, selecting the right equipment, designing charging infrastructure, training operational teams, and mapping facility and infrastructure requirements.

BATTERY CHARGING SOLUTIONS

M- and L-series SmartDrive equipment can be charged from standard underground AC sockets. The XS SD model can be AC charged using EVSE equipment or directly from suitable AC sockets with Type 2 adapter cables. For high-demand operations, CCS fast chargers enable rapid battery recharging, minimizing downtime and eliminating the need for costly battery swapping.

Our charging service concept optimizes infrastructure to maximize investment value. It includes charging infrastructure planning consultancy, fast-charging installation, training, spare parts, and maintenance services.



Normet's full range of applications is now available with SmartDrive architecture.

MORE APPLICATIONS AVAILABLE ON REQUEST

Selected XS- and L-series SD logistics machines are available on demand with an extended lead time. Visit normet.com to see the full offering.

UTIMEC MF 205 PER SD

Utimec MF 205 PER SD with a transportation capacity of 20+2 persons is designed for personnel transportation in underground mines and tunnels. All Utimec personnel carriers are designed with our decades-long expertise in underground transportation, making them the safest and most productive solutions in the market.

UTIMEC MF 100 MATERIAL SD

Utimec MF 100 Material SD is designed for efficient underground bulk material transportation. It has a payload capacity of 10 tonnes and is available in two different platform versions with either low or high platform edges and with an optional crane for effortless loading and unloading of heavy objects.

VARIOMEC XS 035 CREW SD

Variomec XS 035 Crew SD is a compact mine service vehicle with a 3-tonne carrying capacity on the roomy material platform and a spacious compartment for a 3-person crew while also accommodating two to three people in the front cabin.

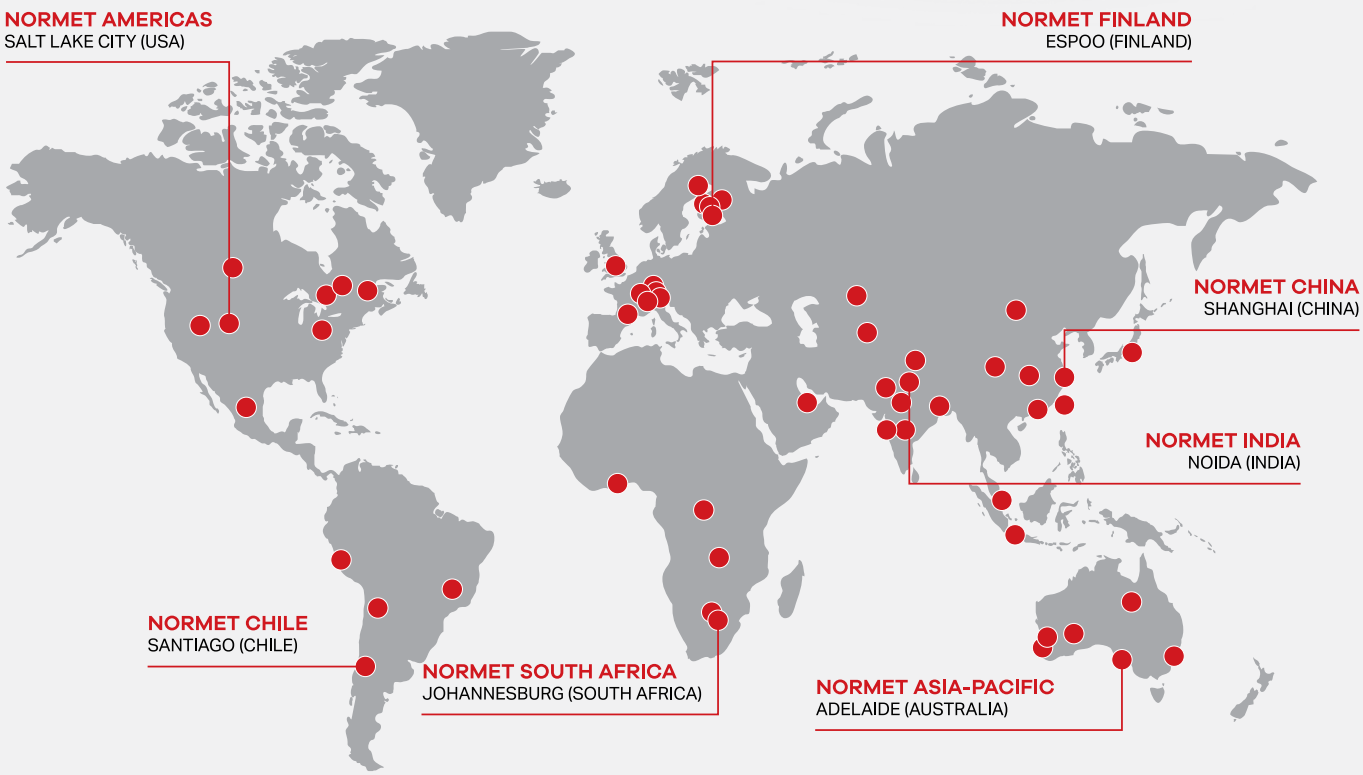
UTIMEC MF 500 / LF 600 TRANSMIXER SD

Normet's battery-electric concrete transmixers offer a practical concrete carrying capacity of 4.4 m³ or 5.6 m³. They come with several safety features as standard and ensure high tramming speeds, even when fully loaded.

MULTIMEC MF 100 SD

Multimec MF 100 SD is a completely local emission-free carrier for our innovative interchangeable fast-swap cassette system, offering the possibility to carry out almost all underground service tasks with a single carrier for an extremely high carrier utilization rate and low operational costs.

Scan the QR code to find out more about our offering.



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GLOBAL PRESENCE.
LOCAL SUPPORT.

We are looking forward to telling you more. Please contact your local Normet representative, visit **normet.com** for contact details.

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