

# SCALING OFFERING



DEFINING THE FUTURE  
**UNDERGROUND**

**normet**

[normet.com](http://normet.com)





## THE MOST CHALLENGING UNDERGROUND OPERATION - NOW SAFER THAN EVER BEFORE.

Scamecs are developed in close collaboration with customers, combining Normet's decades of underground equipment expertise with operators' real-world scaling experience. These purpose-built machines deliver superior boom accuracy, visibility, ergonomics, safety and productivity. The Scamec offering consist of three different boom options fitted in same proven carrier, and a large variety of accessories.

### Safety is our first priority

Normet's scaling machines are engineered to actively prevent and protect against risks during one of the most demanding underground operations. To reduce rockfall hazards, all boom models are designed to guide falling debris away from the cabin. The machines can be equipped with an emergency escape function that helps guide the operator to safety, as well as an automatic fire suppression system. Handheld fire extinguishers are included as standard to further enhance operator protection.

### Scamec LC 065 A

The most compact Scamec with an articulated boom offers an effective vertical reach of up to 6.5 m. For driving, the machine requires a minimum tunnel width of 4 m and height of 2.7 m, making it

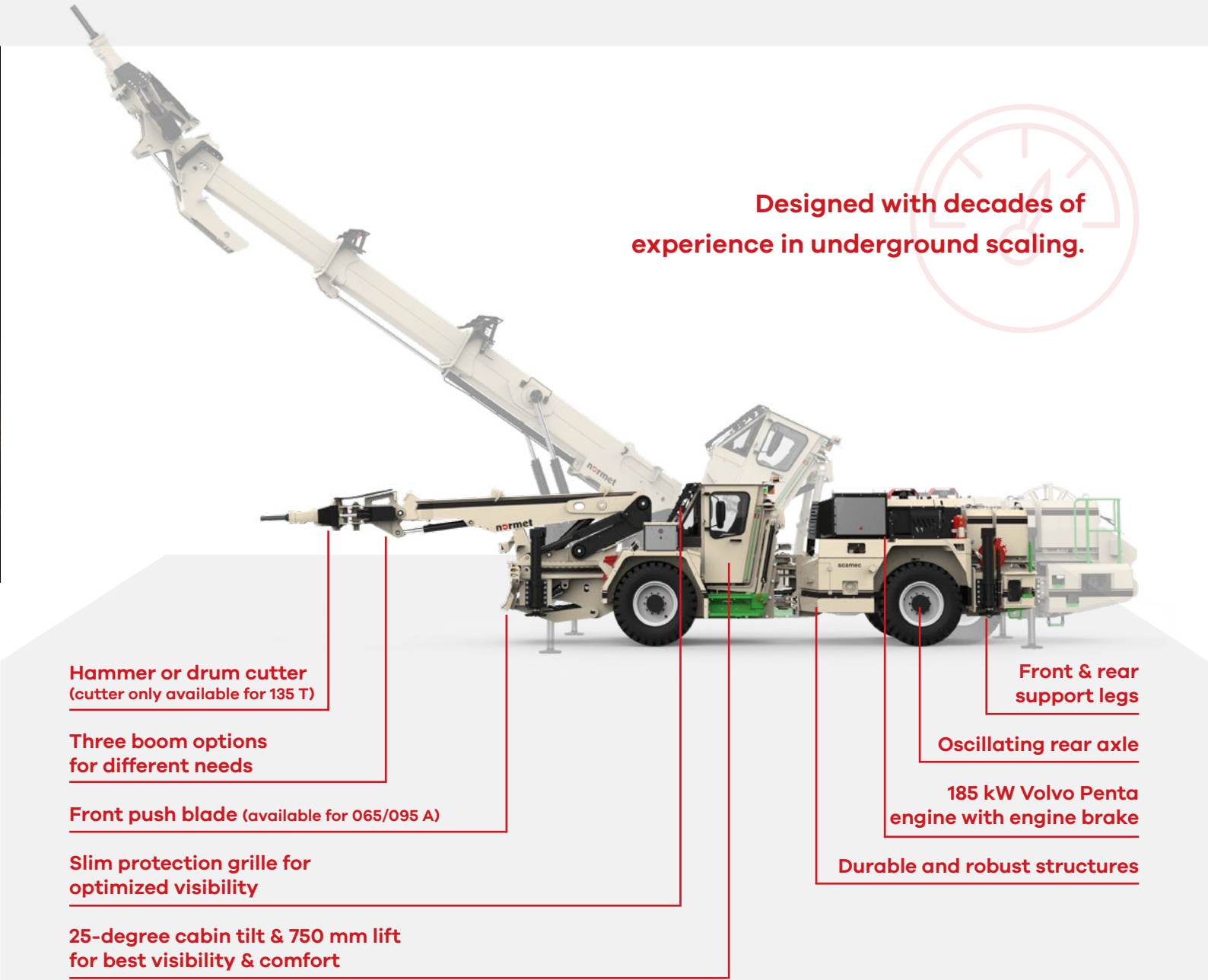
optimal for tunnels from 4 × 4 m to 6 × 6 m. The 065 A is equipped with an agile and accurate articulated boom featuring advanced kinematics and precise control, ensuring excellent work area visibility and superior operator ergonomics. The machine is available with a hydraulic hammer specifically designed for scaling.

### Scamec LC 095 A

Equipped with a longer version of the articulated boom used on the 065 A, the 095 A delivers an effective vertical reach of up to 9.5 m, making it suitable for tunnels up to 9 × 9 m. For driving, the machine requires a minimum tunnel width of 4 m and height of 2.7 m. The 095 A includes all the same functions and features as the 065 A and comes equipped with the same hydraulic hammer.

### Scamec LC 135 T

The longest-reach version, 135 T, is equipped with a telescopic boom providing an effective reach of up to 13.5 m. For driving, the machine requires a minimum tunnel width of 5 m and height of 3.2 m, and it is designed for tunnels up to 12 × 12 m. It features a durable high-reach boom, available with a rotary head cutter or a hydraulic hammer.







## CABIN

The completely redesigned, FOPS and ROPS certified and tested cabin of the new Scamec offering defines new levels of safety, visibility and operator ergonomics.

A key feature of the cabin is that it can not only be lifted 750 mm for an even more extensive overall view of both the scaling tool and the tunnel surface, but also tilted back 25 degrees for minimizing the strain to the operator's neck.

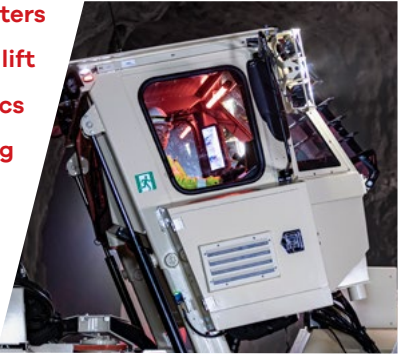
The cabin has low noise levels and is dust sealed with replaceable air filters. It is equipped with air conditioning and cabin heating for a pleasant working environment and comes with three-point contact rails and non-slippery steps ensuring safe passage in and out of the cabin. The windscreen is built with 22 mm thick multi-layer glass and fitted with a protective grille to safeguard the operator from falling rock debris. Both the flat bar design of the protective mesh grille and the slim structure of the boom base significantly increase visibility, allowing for safer and more accurate operation.

Visibility to the sides of the machine has been improved by redesigning the dashboard and switch panels and fitting the machine with wide angle mirrors with electric heating to prevent freezing and the accumulation of moisture. A superior view backwards can be achieved with an optional system of four reversing cameras. Other camera configurations are also available upon request.

The seat with ergonomic armrests is comfortably cushioned and fully adjustable to the operator's weight and size. A foldable trainer's seat is also available as an option. The hammer stroke is controlled with a foot pedal, allowing the operator to focus on controlling the boom.

All frequently needed operating controls like the mini joysticks for accurate boom control and the platform driving buttons are located ergonomically on the seat switch panels. In addition, the control system options can be accessed with the touchscreen MID display.

- Dust sealed, replaceable air filters**
- 25-degree cabin tilt & 750 mm lift**
- Superior operator ergonomics**
- Air conditioning & cabin heating**
- Slim protective window grille**
- Heated wide-angle mirrors**
- Reversing camera system**
- FOPS/ROPS certified**



- Control system options accessible with the touchscreen MID display on the dashboard**
- Mini joysticks and switch panels for maximum operator comfort and accurate boom control**
- All platform driving buttons located ergonomically on the seat switch panels**
- Operator seat with ergonomic armrests**



## MODELS AND TOOLS

### Scamec LC 065 A and 095 A with articulated booms

The most compact Scamec model, the 065 A with an articulated boom, offers an effective vertical reach of up to 6.5 m and is optimized for tunnels ranging from 4 x 4 to 6 x 6 m, while the 095 A is equipped with a longer version of the same articulated boom, providing an effective vertical reach of up to 9.5 m and suitability for tunnels up to 9 x 9 m. For both models, the minimum tunnel width for driving is 4 m and the minimum height is 2.7 m.

The agile and accurate articulated booms of the 065 A and 095 A are dedicated to scaling and are designed for equally efficient scaling of all tunnel surfaces - roof, walls, and back face. The boom is anchored to the frame with a heavy-duty slew ring to withstand high scaling forces, while the boom base geometry improves visibility of the scaling tool during slewing movements.

Both models are equipped with a hydraulic hammer designed for demanding underground scaling. The solid-body hammer features a reinforced tool shank, dust sealing for the tool and shank, pressurized air to prevent dust ingress, and automatic greasing. Integrated water-spraying nozzles provide effective dust suppression, with optional additional water nozzles on the boom for enhanced dust control. Both models are also available with an optional dozer blade for clearing tunnel faces and reducing the risk of tyre punctures.



### Scamec LC 135 T with a telescopic boom

The Scamec 135 T is a high-reach scaling machine with the effective reach of up to 13.5 m, and with the minimum tunnel width of 5 m, and height of 3.2 m, it is optimal for tunnels up to 12 x 12 m. It features a high-reach telescopic boom, available with a rotary head cutter or a hydraulic hammer.

The telescopic boom is dedicated to scaling and designed for effective scaling of all tunnel surfaces, including the roof, walls, and face. Mounted on a heavy-duty slew ring with slight sideways rotation, it improves visibility of the scaling tool during operation. Durable hydraulic cylinders ensure reliable performance and ease of maintenance. A heavy-duty carrier combined with extendable, robust support legs ensures stable operation, even when working in the lowest side corners of the tunnel.

The boom can be fitted with the same hydraulic hammer used on the 065 A and 095 A, or alternatively with a robust drum cutter, which can be equipped with optional dust suppression, featuring water nozzles installed at the cutter end and additional nozzles mounted on the boom.

In all three models, water for the tools can be supplied either from an onboard 450-liter water tank with a hydraulically operated dust suppression pump or via a hydraulically operated water reel with a 120-meter hose connected to the mine water line.





Scamec LC 065 A with shorter end module and Scamec LC 095 A with normal end module.

## DRIVETRAIN & CHASSIS

The Scamec machines are powered by an efficient 6-cylinder, 185 kW Volvo Penta TAD8 diesel engine with an engine brake function and either a Stage V or Stage IIIA emissions rating, depending on local emission regulations. When equipped with hammer, all three models can also be optionally configured for electric operation, enabling zero local emission scaling process when connected to the mine's power grid.

Delivering continuous four-wheel drive, the powertrain is built using high-quality components, including a Dana T14 Series 3-speed

hydrodynamic lock-up transmission with both manual and automatic shifting modes, as well as Dana planetary gear axles with dual-circuit, spring-applied and hydraulically released (SAHR) brakes.

To further enhance maneuverability in confined headings, all three models are available with an optional shorter end module, while the 065 A and 095 A models are additionally available with a narrower dozer plate. These options reduce the overall machine length and width and improve agility, enabling even smoother and more precise operation in restricted underground spaces.



Volvo Penta Stage V or Stage IIIA 185 kW diesel engine

Dana T14 Series 3-speed lock-up transmission

Dana planetary gear axles

Continuous four-wheel drive

SAHR brakes & safety brake

Brake pressure monitoring system

Strong and easy-to-service chassis

For added safety, Scamecs feature automatically applied safety brakes in the event of hydraulic pressure loss, as well as an optional redundant brake pressure monitoring system (RABA). Both the safety and service brakes can be tested from the cabin prior to operation. Power is delivered to the ground through 14.00–24 mining-grade tyres.

In scaling applications, a solid chassis is required to carry the scaling boom. Mechanical forces projected to the equipment in this process are extremely demanding and capable of wearing out lighter and carelessly designed structures quickly. The strong and durable chassis of the Scamec models is specifically designed to withstand these forces with improved chassis lifetime being one of the primary design objectives.

All component locations are carefully thought out while spacious structures enable ease of access for effortless maintenance.



# normet

## DEFINING THE FUTURE UNDERGROUND

We are a fast-growing and innovative company with a mission to lead the transformation into a safer and more sustainable tomorrow. We specialize in technologies and solutions for underground mining, tunnelling and civil construction and provide our customers with safe, high-quality equipment, services, construction chemicals and rock reinforcement solutions for projects around the world.

### SAFETY IS OUR PRIORITY

Safety is our first priority in everything we do. Our goal is to help our customers increase their level of safety while improving their productivity and profitability. We develop our equipment, technologies and solutions with safety, sustainability and the welfare of people as the key drivers, taking the impact on the environment in careful consideration as well.

### UNDERGROUND EXPERTISE

We support our customers with expertise gained from working on thousands of underground mining and tunnelling projects all over the world. To date, we have delivered more than 15,000 purpose-built underground machines while improving safety and productivity through our range of construction chemicals and rock reinforcement products. We also offer a range of services and support for our customers. Our company employs approximately 2000 professionals with 50+ locations in 30+ countries.

### CONTINUOUS DEVELOPMENT

We constantly develop new equipment, technologies and chemicals to provide additional value for our customers' underground processes. Our development teams consist of world-class experts using the latest methods and tools. We use our own laboratories to develop our construction chemicals and perform field tests for our entire offering in real-world environments. In all our work, we aim to enhance safety and reduce environmental impact.

-  EQUIPMENT
-  SERVICES
-  CONSTRUCTION CHEMICALS
-  ROCK REINFORCEMENT





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