



🏠 Directory

< Maintenance & Servicing

Stertil-Koni

Wheel-Free Maintenance and Optimal Access

Keeping Your Bus Fleet in Condition and Getting Your Passengers from A to B

Many of the hydraulic in-ground heavy-duty vehicle lifts from Stertil-Koni are completely flush mounted with the workshop floor. Ideal for buses, or any other low-clearance vehicle for that matter. The Continuous Recess® System is especially designed for easy drive on and off and it provides easy access for maintenance tasks.

About 75 to 80 percent of all maintenance performed on buses includes work on steering, tyres and brakes. This is why an axle-engaging vehicle lift that enables wheel-free lifting is so important. Stertil-Koni hydraulic in-ground piston and scissor vehicle lifts, the DIAMONDLIFT and the ECOLIFT, keep bus fleets in top operating condition – and ensure the highest level of safety and ergonomics for workshop personnel.

The Stertil-Koni DIAMONDLIFT is a telescopic piston lift, and the Stertil-Koni ECOLIFT is a scissor lift.



Stertil-Koni in-ground lifts are designed to accommodate vehicles with extremely low ground clearances, such as city transit and articulated buses

Both models come in two, three and four-piston or scissor configurations. Access to the lifts is optimal as the systems are fully flush with the workshop floor.

Piston Lift

The DIAMONDLIFT is a high-pressure, low-volume heavy-duty in-ground vehicle lift that has a lifting capacity of up to 16,000kg per piston, meaning 64,000kg in a 4-piston configuration. This piston lift comes in two models – a cassette and frame version.

In many cases, installing the frame version of the DIAMONDLIFT into an existing concrete pit, or new construction, offers many substantial time and cost benefits. Additionally, installation is often easier because it requires a pit that is less deep than conventional in-ground lifts on the market. The lift's modular frame design also means that it can readily accommodate a variety of different pit sizes and take a wide span of travel ranges. It has the versatility of being suitable for a wide range of vehicle sizes and wheelbases. The maximum lifting height of this piston lift is 1,855mm.

Scissor Lift

The ECOLIFT is recognised as the industry's first ultra-shallow, full-rise axle-engaging in-ground scissor lift. The maximum lifting height is 1,780mm and it features a lifting capacity of 13,500kg per scissor, delivering a total lifting capacity of 54,000kg in the largest model. The ultra-shallow pit design, only 0.87 metres in depth, makes it ideal for new construction as well as retrofit and existing workshops – especially those with challenging construction environments, such as a high water table, unstable soil or thick bedrock foundations.



Additionally, the ECOLIFT is the only re-locatable in-ground lifting system in the world.

Ultimate Safety and Ergonomics

Both the DIAMONDLIFT and the ECOLIFT wheel-free lifting capabilities facilitate a complete range of servicing and maintenance jobs in a safe, ergonomic approach – including tyre work, brakes and transmission repairs. Mechanics can perform these tasks in a comfortable, upright position under the vehicles.

The DIAMONDLIFT and ECOLIFT, as with all Stertil-Koni heavy-duty vehicle lifts, come with a mechanical locking system, maximum overload protection and electronic synchronisation as standard. The locking system acts as a parking system with no risk of unexpected lowering, and the electronic synchronisation utilises real-time feedback, ensuring safe and smooth operation. Safety first and foremost. Both control systems for the Stertil-Koni in-ground options have a built-in maximum height restriction, enabling controlled and safe lifting and thus preventing damage to either the vehicle or the workspace ceiling.

Innovative Continuous Recess® System

Utilising the Continuous Recess® System, the Stertil-Koni in-ground lifts are designed to accommodate vehicles with extremely low ground clearances, such as city transit and articulated buses. What is particularly special about this is that the movable piston* or scissor can recess below floor level anywhere within the travel range, thus preventing damage to the undercarriage of the vehicle. The pit covers of this system are made from anodised aluminium and are equipped with a skid-resistant surface. They are driven hydraulically with an inverted rack and pinion system, sliding on a corrosion resistant, self-cleaning surface. The covers prevent tools being dropped into the recess as well as reducing tripping hazards.

Easy to Use and Maintain

The DIAMONDLIFT and ECOLIFT are supplied with a free-standing, above-ground control console.



Technicians have direct, safe, ergonomic access to service bus fleets

The hydraulic power units as well as the electronic controls are easily accessed for operation, maintenance and service. All components are housed in this unit and protected against moisture and dirt. The control consoles are equipped with the Stertil-Koni ebright® Smart Control System that combines intuitive easy-to-use visual information about the lifting process and clearly indicates when operating the lifts when it is safe to relocate the movable unit and adjust for different wheelbases.

The optional Automatic Wheel Base Positioning System for the moveable lifting unit allows for pre-set programming of an endless number of vehicles which can be saved and activated, thereby significantly reducing setup time.

**Continuous Recess® is available on the DIAMONDLIFT depending on the model.*

For information about our in-grounds or any of our other heavy-duty vehicle lifts, please contact us:

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steril **KONI**

NUMBER 1 IN HEAVY DUTY LIFTING WE LIFT ANY BUS



 a member of the Stertil Group

LEADING IN HEAVY DUTY VEHICLE LIFTING

Stertil-Koni is worldwide market leader specialised in the lifting of heavy duty commercial vehicles. Quality, safety, reliability and ultimate liberty of lifting. A complete range of heavy duty lifts designed specifically to answer the demanding needs of the market for vehicle service, repair and maintenance. Stertil-Koni products are developed and manufactured in-house by a highly qualified team of experts.