

OmniDEL-FW

Bin Lift

The OmniDEL-FW is a fully automatic low-level bin lift solution, which is designed to facilitate the easy loading of bulkier waste streams.

Greater loading aperture

The OmniDEL-FW spans the entire width of the hopper – allowing larger items to be manually loaded into the vehicle with ease.

Powered Rave plate

To ensure the crew are fully protected, a fundamental safety feature is the powered Rave plate. There is no manual opening/closing required, with the plate operated by a switch.

No Din frame required

Quite simply, less weight means a greater payload can be achieved. No interface is required to fit a Terberg OmniDEL-FW to any suitably prepared refuse body, saving valuable weight.

Available in hydraulic or electric variants

For standard and narrow width refuse bodies.

OmniDEL-FW comes configured with all the usual features of the proven, market-leading OmniDEL:

Reduced maintenance and increased durability

Utilising vibration-resistant IP69K “plug & play” components, bearing protection systems and contact-less wear-free angle sensors the OmniDEL offers excellent resistance to high-pressure, high-temperature cleaning and is designed to cope with the harsh environment of modern bin collections.

Complete spillage protection system

The OmniDEL incorporates a unique sonar sensor anti-spillage system and tough extensions to the clamp and hopper plate. The system detects materials that are not fully discharged and automatically shakes the bin until discharged. The extended clamp and hopper plate sections overlap during discharge to provide a platform that directs any potential spillage into the hopper.

Designed with dynamic weighing and RFID in mind

The OmniDEL is designed to integrate easily with weighing and identification systems, has a smooth operation to minimise ‘bin bounce’ and a vertical initial lift providing a ‘window’ for ease of data recording.

Lightweight design, heavyweight performance

The OmniDEL-FW bin lift weighs in from as little as 768kg.

‘Plug and Play’ wiring connections reduce downtime

The OmniDEL is designed to reduce downtime during unlikely repair work. All connections are ‘Plug and Play’ and easy to access, making replacement of defective components and/or wiring simple and fast. An intelligent diagnosis system simplifies the fault-finding process.

Automatic Mode Changeover

OmniDEL features automatic cycle mode changeover, offering ease of operation and safety. As trade containers are presented, the intelligent control system selects ‘trade’ mode and catcher bar to the correct position. Both chairs are levelled/raised to the optimum height and the bin lift engages the bin to allow a safe, manually controlled cycle.

Rear Protection Device (RPD)

The OmniDEL comes as standard with rear underwalk protection ensuring compliance with the requirements of EN1501.5. The sensor arrangement employed ensures that bin lift chair movement is frozen if a person (or obstruction) is detected inside the functional working area and the container is above 1,000mm.

Smooth, two-stage soft lift

The OmniDEL has a controlled two-speed lifting cycle with a safe, smooth and reliable bin pick-up to reduce mechanical stress on bins and the bin lift system.

Unique Terberg Geometry

Terberg’s unique bin lift geometry gives a container tip angle of 50° ensuring that ‘sticky’ materials are discharged and eliminates bin ‘kick-out’ during lifting to reduce the likelihood of injury.



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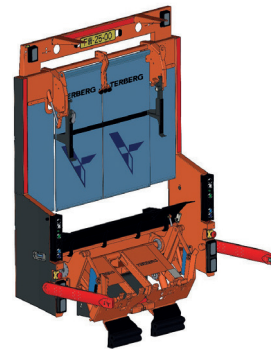
Bins / Containers

	Bags and/or bulky waste	2-wheel	4-wheel with FLAT lid	4-wheel with ROLL top	Paladin
Capacity		80 - 360 l	500 - 1280 l	770 - 1100 l	900 l
According to standard		EN 840-1	EN 840-2	EN 840-3	
Lifting capacity		1600 N (160 kg)	5000 N (500 kg)	5000 N (500 kg)	5000 N (500 kg)
Cycle time*, excluding dwell time		± 6 seconds	± 11 seconds	± 11 seconds	± 11 seconds
Time in tipping position		Adjustable	Adjustable	Adjustable	Adjustable
Hopper plate (hydraulic actuation)	Open	Closed	Closed	Closed	Closed
Manual loading with the pick-up comb		•	•	•	•
Automatic loading with the pick-up comb		•			
Semi-automatic loading with pick-up comb (optional)			•	•	•
SMT: Single Man Trade			•	•	•
DIN pick-up arms (optional)			•	•	

*Depending on mounting height, bin/container weight and oil temperature.

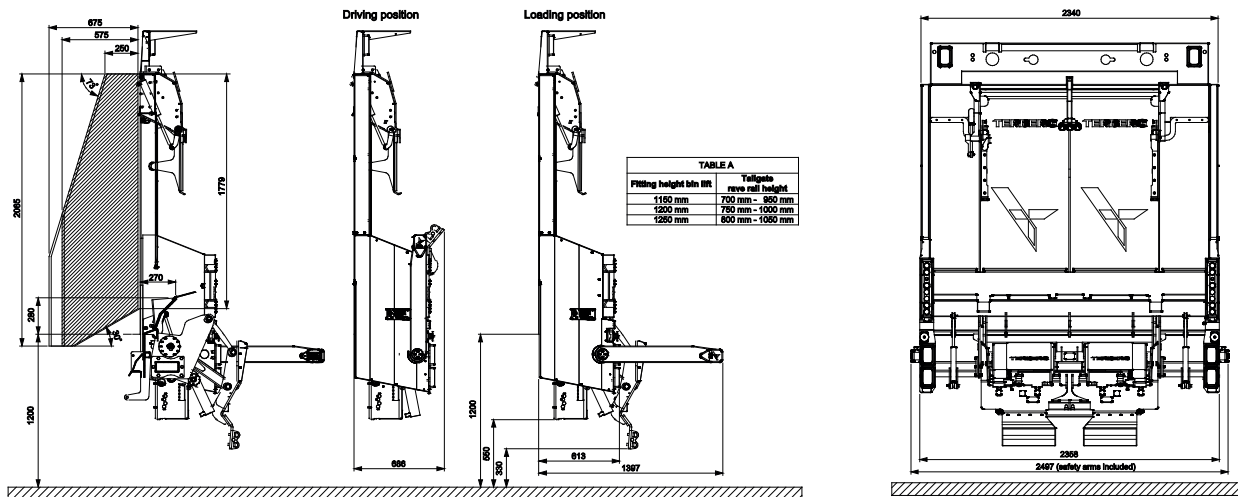
Technical specifications

	OMNIDEL-FW	OMNIDEL-FW electric
Operating voltage	24 V DC	24 V DC
Maximum current consumed by controls	10 A / 24 V DC	10 A / 24 V DC
Required oil flow	40-60 l/min	
Required working pressure	min. 180 bar / max. 250 bar	
Return pressure	max. 2 bar	
Noise level (without bin/container)	≤ 65 dB (A)	≤ 58 dB (A)
Vibrations	≤ 2,5 m/sec ²	≤ 2,5 m/sec ²
Average power consumption during normal daily use	20 A	
Average electrical power 2-wheel bin	1.8 kW	
Max. electrical power 2-wheel bins (1000N)	3.6 kW	
Max. electrical power 4-wheel containers (5000N)	5.2 kW	



Weights

	OMNIDEL-FW	OMNIDEL-FW electric
2.5m	768 kg	828 kg



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