

OLYMPUS - 6x2ML Narrow - Smooth Body RCV

Elite 6 - 6x2ML Narrow Track

Euro 6 SPECIFICATIONS



Vehicle model	New variant for Euro 6		
	OL-14N 6x2ML	OL-16N 6x2ML	OL-19N 6x2ML
Compaction body type - effective volume(s)	Olympus 14N (13 m ³)	Olympus 16N (16.7 m ³)	Olympus 19N (18.7 m ³)
Elite chassis type	6x2ML (Mid Lift) Narrow Track		
GVW (Gross Vehicle Weight)	22000	26000	
Front axle plated weight	8000 (7100*)		
Rear axle/bogie plated weight	16000	18600	
Recycling box type	-		
Recycling box type (capacity m ³)	-		
V1 Overall wheelbase	4050	4800	5200
Turning circle - overall (metres)	18.2***	20.3***	22.0***
Vehicle unladen weight**	12570	13090	13300
V2 Overall length [§]	7940	8750	9190
Overall length - tailgate raised [§]	9020	9830	10270
V3 Front axle to front of compaction body	650		
V4 Front overhang	1665		
Front overhang - cab tilted	3465		
V5 Rear overhang	2225	2285	2325
Rear overhang - tailgate raised	3085	3145	3185
V6 Overall height	3450		
Overall height - tailgate raised	5100		
V7 Height at exhaust tip - nominal	3500		
V8 Cab roof height	3130		
Cab roof height - cab tilted	3690		
V9 Cab floor height	825 Driver side, 885 Passenger side		
V10 First cab step height from ground	495		
V11 Rave rail height	1050		
V12 Ground clearance at lowest part of vehicle	250		
V13 Ground clearance - tailgate	410		
V14 Approach angle	15.5°		
V15 Departure angle	16°		

(*) Optional front axle plated weight of 7100 kg with 295/80R22.5 tyres will reduce Gross Vehicle Weight.

(**) Typical rear mounted lifting device equipment will add up to 1200 kg.

(***) Turning circle shown is for worst case, fitment of optional tyres may reduce turning circle.

(§) Excludes front view mirror which adds approx. 230 mm

NOTE: Unless otherwise stated, all dimensions are nominal, in mm and represent an unladen vehicle without a lifting device and fitted with standard tyres; tyre deflection is not included. All specifications are subject to manufacturers tolerances. An allowance of +/- 2% should be made for all weights. All weights are in kgs and include oil and water, and on diesel fuelled vehicles, AdBlue and 50 litres of fuel. Additional equipment may alter dimensions and weights quoted.

DENNIS EAGLE



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Chassis cab

- Elite 6 6x2ML (Mid Lift) Narrow Track.
- Cab - Low floor with one step entry, Cromwell stainless steel construction, standard seating for driver + 3 crew, optional driver + 1 or driver + 4 seating.
- Engine - Volvo (Euro 6) D8K 280/320 bhp, 6 cylinder, 7.7 litre in-line diesel.
- Braking system - full air - twin circuit, EBS with Electronic Stability Program, Traction control (ASR), 4 wheel parking brake.
- Gearbox - Allison MD 3000, 6 speed automatic.
- Electronic Levelling Control (ELC).
- Front suspension - Self-levelling air assist with twin leaf parabolic springs and anti-roll bar.
- Mid axle suspension - Trailing arm air, Automatic raise and lower facility.
- Drive axle suspension - Self-levelling air suspension with chassis raise and chassis lower functions and anti-roll bar.
- For detailed specification and options, see relevant Elite 6 Datasheet.

Body

- Constructed from high tensile steel one piece rolled side sheets and braced by front and rear hoops, with pressed integral channels and 'keel' type floor.
- Sides in 4 mm S275 EN10025, Roof in S355 EN10025.
- Floor in three sections across width: 4-5 mm S355 EN10025.
- Rear hoop: 5-6 mm S355 EN10025.
- Barrier rails: 8 mm DOMEX 700 (700 N/mm²).
- Rear cross-member: 6 mm DOMEX 650 (650 N/mm²).
- Fitted with under-floor sump to prevent liquid seepage and to allow clean discharge of any liquid content. (100 mm depth).
- Only two greasing points in body and tailgate.

Refuse Ejection Plate

- Ejection plate face is manufactured from high tensile abrasion resistant steel, forming a smooth and unobstructed discharge surface.
- Pressure regulation of the ejection plate from cab display.
- Self lubricating bearings guide the ejection plate along rails within the body.
- Multi-staged double acting hydraulic cylinder enables efficient ejection and retraction.

Tailgate

- Optimised 2.4 m³ swept volume capacity, resulting in fewer packing cycles, reducing wear, fuel consumption and noise.
- Full 1.9 m uncluttered loading width without lifting device.
- Low rave rail height for manual loading and versatile lifting device mounting with bolt-on rave rail adaptor for lifting devices.
- Substantial pressed side plates form integrated channels to guide the compaction mechanism.
- Hydraulic packer plate cylinders are positioned to eliminate damage from waste.
- Reduced overhang for improved weight distribution and manoeuvrability.
- Integral rear frame for lifting device mounting.
- Floor: 8 mm HARDOX 400 (400 HB- 1000 N/mm²).
- Sides: 7 mm HARDOX 400 (400 HB- 1000 N/mm²).
- Rave Rail: 4 mm HARDOX 400 (400 HB- 1000 N/mm²).
- Retainer Plate: 4 mm WELDOX 700 (700 N/mm²).

Compaction Mechanism

- Proven two-plate fabricated carriage plate and packer plate design.
- Manufactured using high tensile abrasion resistant steel.
- Slides within tailgate channels on low friction self lubricating bearings.
- Heavy duty carriage and packer cylinders.
- The remaining structural elements are constructed in steel S355 EN10025 (355 N/mm²).
- Base sheet & tube: 4 mm HARDOX 400 (1000 N/mm²).
- Packer plate base: 6 mm HARDOX 400 (1000 N/mm²).
- Nominal 18 second cycle time.

Hydraulic System

- Quiet, PTO mounted close-coupled standard pump delivers 88 litres/minute at 1000 rpm.
- Body mounted 125 litre tank with remote pressure fill.
- Full flow 10 micron return line filter controls contaminant levels.
- Engine speed is maintained by electronic throttle control system when hydraulic power consumption increases.
- Heavy duty inverted packer plate cylinders fitted with maintenance free spherical bearings.
- Heavy duty inverted compaction cylinders mounted outside the compaction mechanism, clear of the loading area.
- Roof mounted tailgate lift cylinders.
- Retention barrier with adjustable pressure.

Electrical System

- Fully integrated CANbus system logic (CANopen) with integral axle load weight indication.
- Simple display unit in cab for body controls and diagnostics.
- Fully water-proofed side mounted junction box contained within a locker allowing easy access for diagnostics and maintenance via laptop.
- Number and colour coded wiring for easy identification, maintenance and fault finding.
- Weatherproof switch, plug and socket connectors.

Safety

- **CE** Approved. Safe by design.
- Circuit designed to enhance Health & Safety features, and installation of lifting devices.
- Prepared for EN 1501-1:2011 & EN 1501-5:2011.
- Two-plate design, automatic body/tailgate locks and clean discharge remove the need to approach moving parts.
- Interlocks prevent the mechanism from working unless the tailgate is fully lowered.
- Automatic gearbox interlocks enhance safe operations.
- Tailgate lift rams are fitted with integral pilot operated load holding valves so that even if a hose fails, or is removed, the tailgate cannot descend unless positively powered downwards.
- Indicator icons show the driver when the mechanism is in operation, and when the tailgate is out of its locks.
- In cab discharge controls as standard, with external tailgate lower controls for optimised safety.
- Interlocked access door for safe maintenance operations.

Options

- A range of compatible lifting devices and DIN frames are available.
- Ladder to access the side door of the body.
- Leachate tank between body and tailgate.
- Brush & shovel with mountings.
- Hand wash unit.
- Rubber packer plate flap.

NOTE: Due to space constraints the 4050 mm wheelbase variant may require a 90 litre fuel tank to be mounted to the left-hand side.

Dennis Eagle Ltd. (the company) reserves the right to change the specification, design, material, procedures and dimensions of the vehicles described herein without prior notice at any time in the future, in accordance with the company's constant product improvement policy.

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For more details of specifications and options please consult a Dennis Eagle Sales representative.

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