

D E N N I S



**Vacuum
principle
gully
emptiers for
efficiency &
versatility**

**Gully
Emptiers**

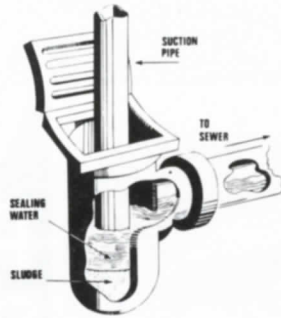
Dennis Gully

The problem

Sludge has to be cleared from the bottom of gullies before the sump fills and solids pass into the sewer.

The Dennis Answer

The Dennis Gully Emptier's vacuum operation makes sludge removal easy. Sludge is simply taken straight from the trap bottom, through the pipe and into the sludge tank. It's quick, clean – and the sludge isn't exposed to the atmosphere. Water is drawn up too, and is siphoned off by the patented Dennis floating siphon, leaving just dry sludge. This unique Dennis feature means long periods of operation between emptyings. A quick-acting changeover valve enables rapid change from vacuum to pressure – and blowback of water is a useful way to stir up sludge for removal. It also facilitates easy cleaning. In simple terms, that's what the Dennis Gully Emptier is all about – but thoughtful Dennis Engineering make much, much more of it than that.



STREET WATERING & WASHING EQUIPMENT

A single stage turbine pump driven from a full torque top power take-off on the gearbox, pumps water from the tank to the watering and washing heads.

Technical Data			
Working capacity		800 gals./3637 litres	1000 gals./4546 litres
Wheelbase		10 ft. 4 in./3150 mm.	10 ft. 4 in./3150 mm.
Overall length		19 ft. 7 $\frac{3}{8}$ in./5979 mm.	19 ft. 7 $\frac{3}{8}$ in./5979 mm.
Overall width		7 ft. 9 in./2362 mm.	7 ft. 9 in./2362 mm.
Overall height		11 ft. 6 in./3505 mm.	11 ft. 10 in./3607 mm.
Unladen weight (approx.)		5 tons 3 cwt./5233 kilos	5 tons 5 cwt./5338 kilos
Turning circle		41 ft. 6 in./12.6 metres	41 ft. 6 in./12.6 metres
Tyre equipment		8.25 x 20 x 14 ply	8.25 x 20 x 14 ply
Plating Weights	Front axle	4.5 tons/4572 kilos	4.5 tons/4572 kilos
	Rear axle	8.5 tons/8636 kilos	8.5 tons/8636 kilos
	Gross	13 tons/13,208 kilos	13 tons/13,208 kilos

Gully Emptiers



Optional extras

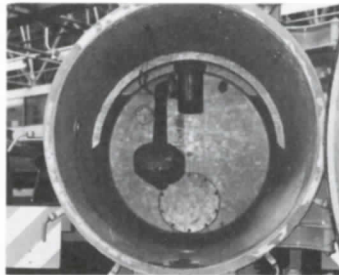
A large range of extras make the Dennis Gully Emptier an extremely versatile – and attractively economic! – vehicle.

Street watering and washing equipment consists of a single stage turbine pump – driven by a full torque power take off on the gearbox – valves, sprinkling heads and ducks feet. All operations are controlled from the cab. The fitting of a hose adds pavement washing and emergency fire fighting to the Gully Emptier's impressive list of roles.

Cesspool emptying equipment – with 3- or 4-inch (76.2 mm/101.6 mm) inlet/outlet valves and a hose-box – makes yet another special-purpose vehicle. Other extras include a 6-inch sewer flushing or quick discharge valve, Nightsoil tank, stick box and continuous pumping equipment.

Dennis Quality

The Gully Emptier is available in two sizes – 800 and 1000 gallons (3637 and 4546 litres). Built on the famous purpose-designed Dennis municipal vehicle chassis, it is hand-finished in the traditional Dennis way. This attention to detail and thorough approach to quality control not only make it one of the most versatile municipal vehicles around – but also give it the robust long-life and reliability that operators demand.



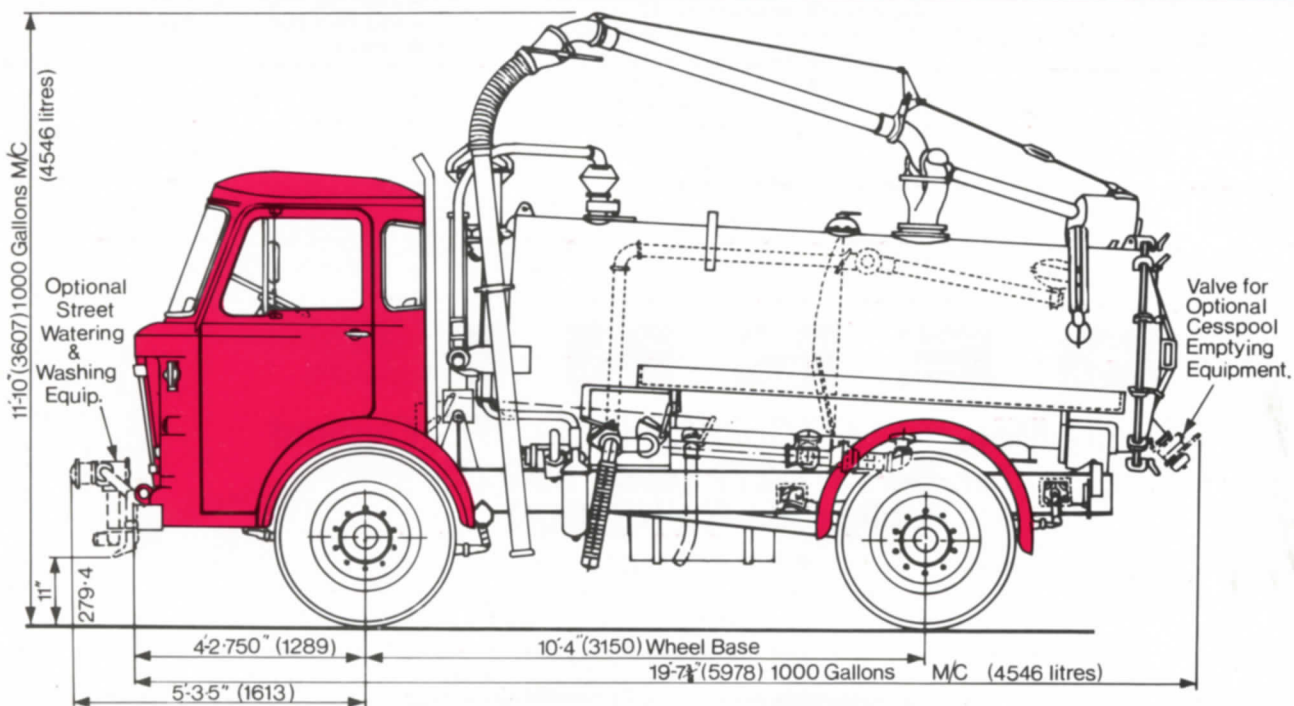
SYPHON DEVICE

A floating syphon pipe is fitted in the sludge compartment for drawing off excess water to leave a dry load of sludge.



CESSPOOL EMPTYING EQUIPMENT

Cesspool Equipment 3" (76.2mm) inlet and outlet valves and one hose box.



Specification

ENGINE

Perkins 6.354 diesel engine – swept volume 354 in.³ – or Leyland 6-98 series diesel engine – swept volume 345 in.³

GEARBOX

Five-speed constant mesh gearbox. Ratios 0.745:1, 1:1, 1.729:1, 3.041:1, 6.000:1 and reverse 5.927:1.

CLUTCH

14 in. (35.6 cm.) single dry plate, total lining area 182.5 sq. in. (1,177 sq. cm.).

PROPELLER SHAFT

Two-piece, needle roller bearing universal joints, flexibly mounted centre bearing. Vibration damper fitted.

BRAKES

Full air operation using diaphragm-type brake chambers coupled to cam-operated brakes. Front brakes 15½ in. x 5 in. (38.1 cm. x 12.7 cm.). Rear brakes 15½ in. x 7 in. (38.1 cm. x 17.8 cm.). Total brake lining area 725 sq. in. (4,677.5 sq. cm.).

SERVICE BRAKE

Footbrake system with diaphragm actuators operating simultaneously on all axles.

SECONDARY

Handbrake, lever operated, providing air assisted braking on rear axle.

PARKING BRAKE

By lock actuator through cam levers on rear axle.

FRAME

Channel section pressed steel sidemembers ½ in. x 2½ in. x 9 in. (0.634 cm. x 6.3 cm. x 22.9 cm.). Crossmembers generally of channel section bolted onto the sidemembers. Reinforced top and bottom flanges.

SUSPENSION

FRONT: Semi-elliptic leaf springs, 52 in. (132.08 cm.) long, 3 in. (7.62 cm.) wide, 4.807 in. (12.19 cm.) thick, 11 leaves. Telescopic dampers. REAR: Semi-elliptic leaf springs, 60 in. (152.4 cm.) long, 3 in. (7.62 cm.) wide, 6.807 in. (17.27 cm.) thick, 12 leaves.

FRONT AXLE

5½ ton. (5590 kilos.) 'I' section alloy steel beam. Front shock absorbers fitted as standard.

REAR AXLE

10 ton. (22,400 lb., 10,160 kg.). Single speed spiral bevel drive with robust differential gear, ratio 6.14:1.

WHEELS AND TYRES

Steel disc wheels rim size 3B 700 x 20, offset 6 in. (15.24 cm.), ten-stud fixing ⅞ in. (2.2 cm.) diameter studs. Single front, twin rear, with spare. Standard tyre size given in table but oversize tyres can be fitted.

STEERING

Right or left hand control, 20 in. (51 cm.) diameter, three-spoke wheel on recirculatory ball type steering box. Ratio (in centre position) 26.8:1, lock to lock 6½ turns approximately.

FUEL TANK

30 gallons (136 litres), 18 in. (45.72 cm.) diameter cylindrical.

CAB

Constructed of glass fibre reinforced plastic. Curved one piece toughened glass windscreen 6 ft. 8 in. wide x 2 ft. 1 in. deep (203 cm. x 63 cm.). Twin windscreen wipers (17 in. (43.2 cm.) blades), winding drop windows in doors remote control inner door handles, push button exterior handles and anti-burst locks.

ELECTRICAL

12 volt A.C. negative earth return system. Panel on fascia fitted with the following as standard: 4¾ in. (12.06 cm.) diameter, 80 m.p.h. (128.74 km.) speedometer with total and trip mileage recorders, two air gauges, fuel gauge, 'no charge' warning light, oil pressure warning light, key operated starter switch which covers heat start as well. On steering column: switches for head, side and tail lamps, head lamp dip switch, horn switch button and direction indicators switch. Head lamps mounted on front dash, flashing direction indicators. Battery capacity 110 ampere/hour at 10-hour rate.

STANDARD EQUIPMENT

Front shock absorbers, front bumper with two tow loops, heater and demister, screen washers, radiator muff, tool kit.

OPTIONAL EXTRAS

Power assisted steering, automatic lubrication, fog lamp, rear shock absorbers, twin sun visors. Rear towing loops.

D E N N I S

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