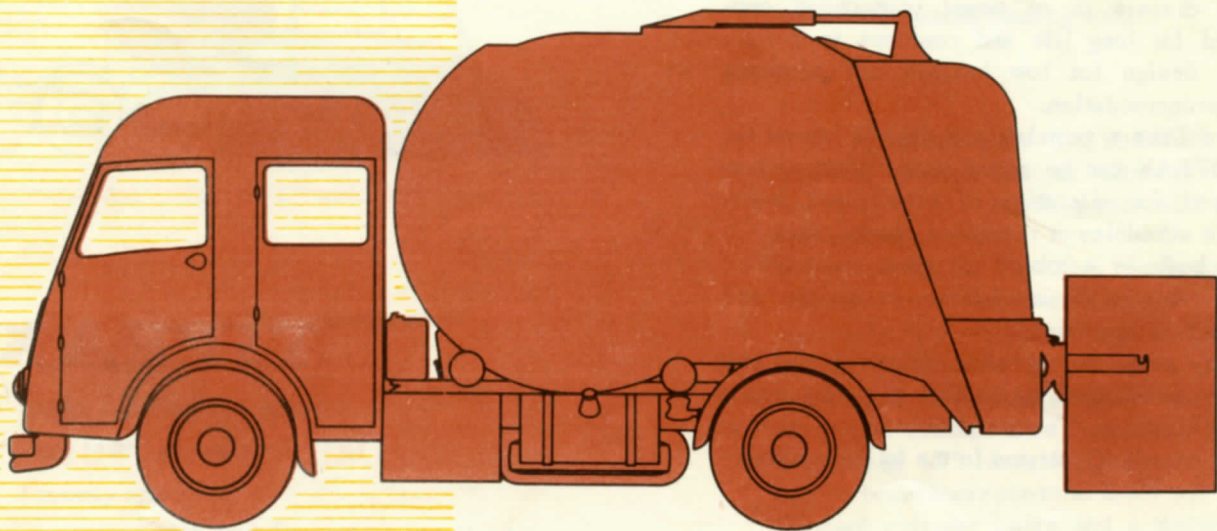


DENNIS

TIPPAX

Refuse Collector

CLEAN, ECONOMICAL & EFFICIENT



Dennis Bros Ltd Guildford

THE DENNIS

TIPPAX

REFUSE COLLECTOR

The introduction of the TIPPAX Refuse Collector to the Dennis range of municipal vehicles is in accordance with a policy of offering the widest possible choice of method to Local Authorities seeking lower costs of refuse collection.

In the TIPPAX appliance there are combined some of the advantages of the more expensive self-compressing machines, namely consolidation of the load without manual trimming, an enclosed body and dust free loading at the rear.

Since no working parts are in contact with the refuse, maintenance requirements are reduced to a minimum.

The chassis is of sound proportions constructed for long life and conforms to a fully proved design for low loading and adequate crew accommodation.

Where Dennis vehicles are already in use the new TIPPAX can be added to the fleet without the need for alteration of established maintenance schedules or increased spares stock.

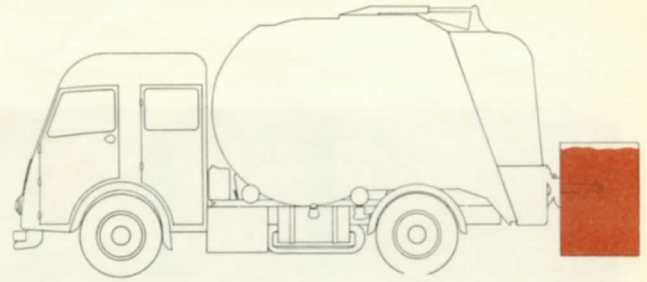
The body is a robust all steel construction whilst the tipping mechanism is simple and foolproof in operation.

At any stage during refuse collection the load can be consolidated by raising the body into a vertical position. The simplicity of the arrangement is clearly illustrated in the following diagrams.

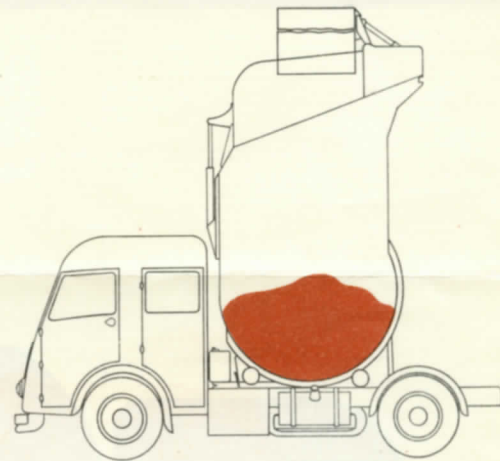
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The text and illustrations in this brochure are intended as a guide to typical specifications and are not to be regarded as binding in whole or in part. Quotations based on individual requirements will be gladly submitted.

METHOD OF



- 1) $1\frac{1}{4}$ cu.
- 2) Refuse
- 3) The b
- thus falli
- 4) Tippin



TIPPAX

20 CUBIC YARD REFUSE COLLECTOR

Available with container lifting equipment for $1\frac{1}{4}$ cu. yd. bins

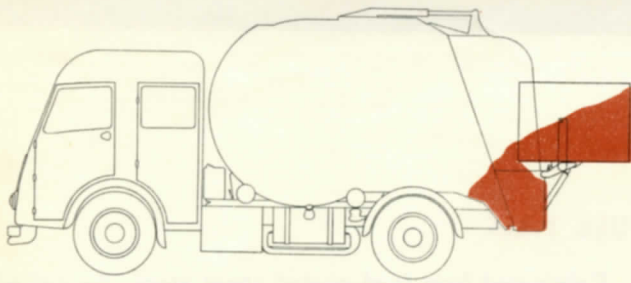
- ★ ideal for dual-purpose work.
- ★ dustless container discharge.
- ★ automatic hoist operation.

Backed by the full Dennis guarantee and service organisation including regular free service visits by the Dennis Service Engineer in your area.

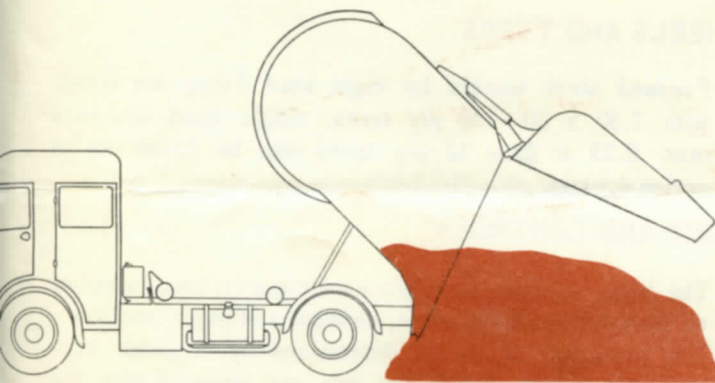
DUST FREE LOADING ★ AUTO

OPERATION

choice of POWER UNIT



cu. yd. refuse bin attached to rear hoist.
Refuse bin mechanically hoisted to a 90° angle.
The body is hydraulically elevated to the vertical position. The load
falling and consolidating by its own weight.
Dumping is effected in the usual manner.



- ☆ simple and straightforward operation.
- ☆ full control from cab.
- ☆ large capacity rear hopper.
- ☆ low loading height.
- ☆ speedy operation.
- ☆ powered return from forward tip.
- ☆ large tyres and brake drums.
- ☆ body radiussed at all corners.
- ☆ roomy 3 door coachbuilt 6 seater cab.
- ☆ easy entrance and exit for loaders.
- ☆ robust dependable chassis.
- ☆ manoeuvrable chassis with 47 ft. turning circle.

PETROL

THE DENNIS D TYPE SIDE VALVE PETROL ENGINE, a power unit fully proved by extensive use in the municipal field. Unsurpassed for reliability and economy the Dennis D type engine gives years of trouble free service.

Brief technical details are as follows:-

Bore and stroke 100 mm. x 120 mm. 4 cylinder of 3.7 litres cubic total capacity developing 70 brake horsepower at 3,000 r.p.m. Cylinder bores are fitted with renewable cast iron liners and pistons are of aluminium alloy.

Crankshaft main bearings, big end bearings, and the camshaft are lubricated under pressure from a filtered and cooled oil supply.

Easy starting is assured by the Zenith down-draught carburettor, fed by a mechanical fuel lift pump.

A thermostat maintains a constant working temperature to effect maximum use of the fuel.

The engine is flexibly mounted on rubber which together with rear end timing gears ensures a smooth running unit.

DIESEL

THE PERKINS P.6V 6 CYLINDER DIESEL ENGINE offered as an alternative to the above is a well known power unit of established design.

It is noted for its high performance and minimum need for attention, and backed by the maker's guarantee and comprehensive service facilities.

Brief technical details are as follows:-

Bore and stroke 88.9 mm. x 127 mm. 6 cylinder of 4.73 litres total capacity developing 83 brake horsepower at 2,400 r.p.m.

Cromard cylinder liners and a thermostat are incorporated to ensure maximum bore life.

Crankshaft, big end and camshaft bearings are lubricated by pressure from a submerged oil pump.

The C.A.V. fuel injection pump is equipped with a pneumatic all speed governor, and the fuel line has triple filtration.

Full flexible mounting is adopted as in the case of the petrol engine.

OMATIC HOIST OPERATION

DENNIS

TIPPAX REFUSE COLLECTOR

Specification

CLUTCH

The clutch is a Dennis 13 $\frac{3}{4}$ in. dia. single plate unit of 184 sq. inch frictional area. It is equipped with an adjustable clutch brake to facilitate gear changing under all conditions.

GEARBOX

A heavy duty four speed unit of Dennis design and manufacture, operating by direct tooth engagement. Ratios 4th 1:1, 3rd 1.74:1, 2nd 3.16:1, 1st 6.28:1, reverse 8.14:1.

RADIATOR

A highly efficient cooling unit of integral construction, employing "still" tube type elements.

PROPELLOR SHAFT

Fully balanced and in two sections with needle roller bearing universal joints.

REAR AXLE

A robust fully floating spiral bevel axle is adopted, designed to ensure low tooth loading on crown wheel and pinion. Driving and differential gears and half shafts are replaceable without disturbance to the road wheels.

STEERING

A fully oil submerged unit of the worm and nut type, combines ease of steering with minimum wear and maintenance.

BRAKES

Two leading shoe brakes are fitted on all wheels hydraulically operated giving adequate stopping power at low pedal pressure.

FRAME

The frame is constructed on the "free flange" principle from alloy steel side members of robust proportions assembled by 'hat' section cross members.

FUEL TANK

Fabricated from lead coated sheet steel, the cylindrical fuel tank holds 20 gallons.

ELECTRICAL EQUIPMENT

As standard the vehicle is fitted with a 12 volt compensated voltage charging, starting and lighting system. Equipment includes all legal lights externally with twin dipping head lamps. Dash lamp, dynamo warning and interior cabin lights are also supplied.

WHEELS AND TYRES

Pressed steel wheels for eight stud fixing are fitted with 7.50 x 20 - 10 ply tyres, single front and twin rear. 8.25 x 20 - 12 ply tyres can be fitted as an optional extra.

BODY AND CONTROLS

The body is of 18/20 cubic yard capacity and fabricated from 1/8 in. steel plate, channel and angle section. The direction of tip is determined by a lever conveniently placed inside the cab, and coupled with the hydraulic selector lever. Controls are simple and straightforward in operation. When tipping rearward for discharge, the rear end of the body opens first, leaving a clear aperture for the refuse.

DIMENSIONS

	ft.	in.
Overall length of vehicle	21	3
Overall width of vehicle	7	6
Overall height of vehicle, unladen	10	7
Internal width of body	7	1 $\frac{3}{4}$
Internal height of body	6	2
Height of loading rail from the ground unladen (approx.)	4	6
Height of loading rail from the ground laden (approx.)	4	3
Overall height of forward tip with bin (laden)	18	4
Overall height of rearward tip (laden)	13	10

DENNIS BROS LTD

GUILDFORD