

# DENNIS



**“Automatic  
loading  
compression  
type refuse-  
collector”**

**(With tipping discharge)**

# **Paxit 111C & Paxit Major 111C.**

## PAXIT IIC AND PAXIT MAJOR IIC

The three types of Dennis tipping refuse collectors (the 30.58 m<sup>3</sup> (40 yd<sup>3</sup>) Paxit IIC with crew cab and the 38.23 m<sup>3</sup> (50 yd<sup>3</sup>) Paxit Major IIC's with crew or single cab) successfully achieve fitness-for-purpose with maximum safety, durability and comfort.

In these Paxit models, loading and compaction are carried out continuously with the engine idling, with minimum noise and minimum wear and tear on the mechanism.

No interruption to the work – refuse is fed forward into the body as fast as it can be loaded, whether by hand or by power-operated equipment. And Dennis, in consultation with Cleansing Officers, have engineered many features which provide efficiency and reliability. Low loading height, but generous ground clearance when fully tipped. Twin tipping rams give maximum stability while discharging. Minimum maintenance cabs – glass fibre reinforced plastic which does not corrode.

### SPECIAL FEATURES

High versatility on all types of load – bridging minimised.

Bin loading – manual, dustless and bulk bin.

High loading speed.

Tapered back end for ease of manoeuvrability.

Corrosion resistant body.

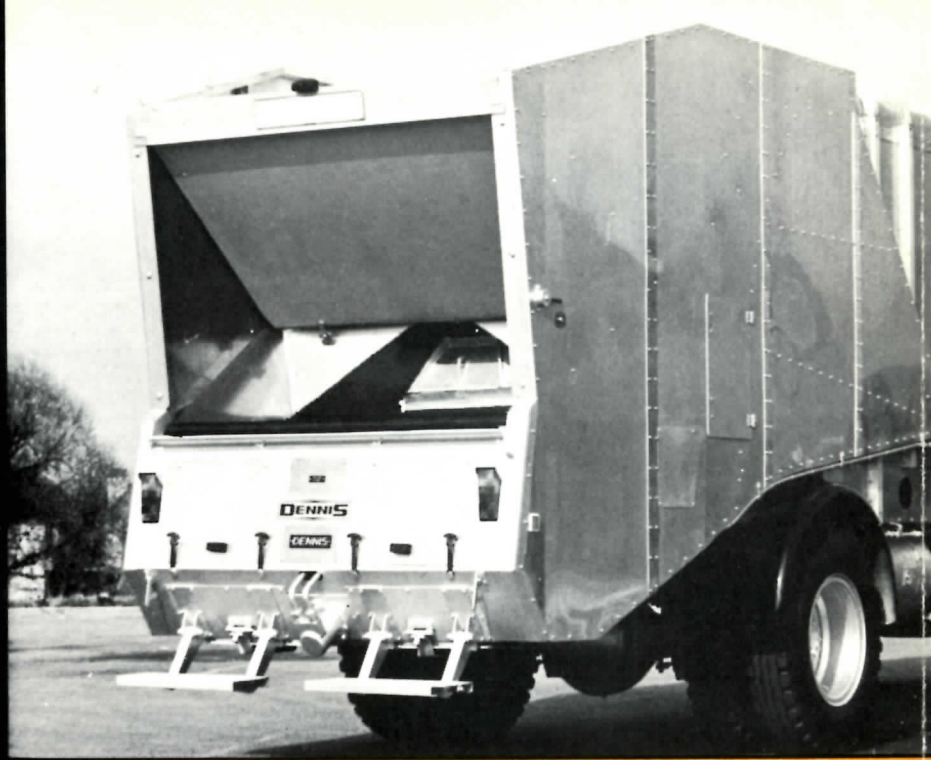
Alternative power units.

Two-stage packing mechanism for greater compaction.

Non-corrosive, fire retardent G.R.P. cab.

Salvage capacity in cab roof and hopper roof.

Highly reliable and well proven hydraulic system.



### DIMENSIONS & WEIGHTS

Item	Paxit IIC (Crew Cab)	Paxit Major IIC (Crew Cab)
Wheelbase	3759 mm (12'4")	4394 mm (14'5")
Overall length (ex bin hoist)	7442 mm (24'5")	8077 mm (26'6")
Overall width	2388 mm (7'10")	2388 mm (7'10")
Overall height (unladen)	3327 mm (10'11")	3353 mm (11'0")
Height of loading rail (unladen)	1384 mm (4'6½")	1422 mm (4'8")
Ground clearance under hopper (laden)	368 mm (1'2½")	406 mm (1'4")
Clearance under hopper when tipped	1600 mm (5'3")	1650 mm (5'5")
Minimum turning circle diameter	14.6 m (48')	17.6 m (58')
Minimum swept circle diameter	16.4 m (54')	18.8 m (62')
Minimum ground clearance	241 mm (9½")	241 mm (9½")
Approach angle	22°	22°
Departure angle	10°	10°
Effective capacity	19/30 m <sup>3</sup> (25/40 yd <sup>3</sup> )	27/38 m <sup>3</sup> (35/50 yd <sup>3</sup> )
Loader ram thrust	28000 kg (28 tons)	31000 kg (31 tons)
Angle of tip	49°	49°
Unladen weight for registration	7061 kg (6 tons 19 cwt)	7260 kg (7 tons 3 cwt)
Air space - body	11.2 m <sup>3</sup> (14.6 yd <sup>3</sup> )	13.4 m <sup>3</sup> (17.5 yd <sup>3</sup> )
Tyre size	9.00 x 20 (14 ply)	9.00 x 20 (14 ply)
Front axle (Plating weight)	5090 kg (5 tons)	5090 kg (5 tons)
Rear axle (Plating weight)	9150 kg (9 tons)	10170 kg (10 tons)
Gross (Plating weight)	14230 kg (14 tons)	15240 kg (15 tons)



**1**

Refuse emptied from bins over rave rail G falls to hopper floor.



**2**

Reciprocating inverted drawer E pushes refuse forward in hopper.



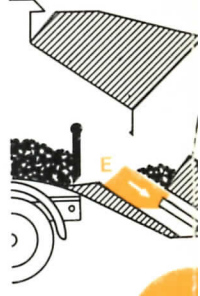
**3**

Swivel compression plate A removes refuse from curved face of drawer.



**4**

Continuing forward movement compresses refuse into body.

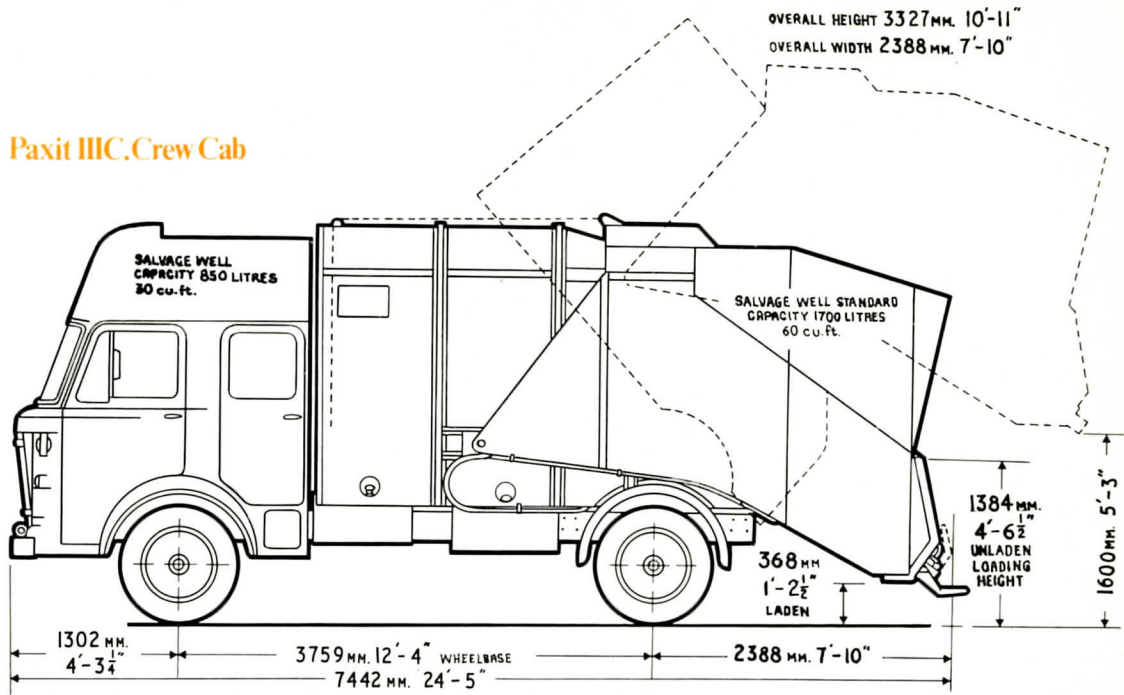


**5**

Drawer E then retracts and refuse, which, the meantime was emptied onto the top of the drawer, falls from front of the curved face.

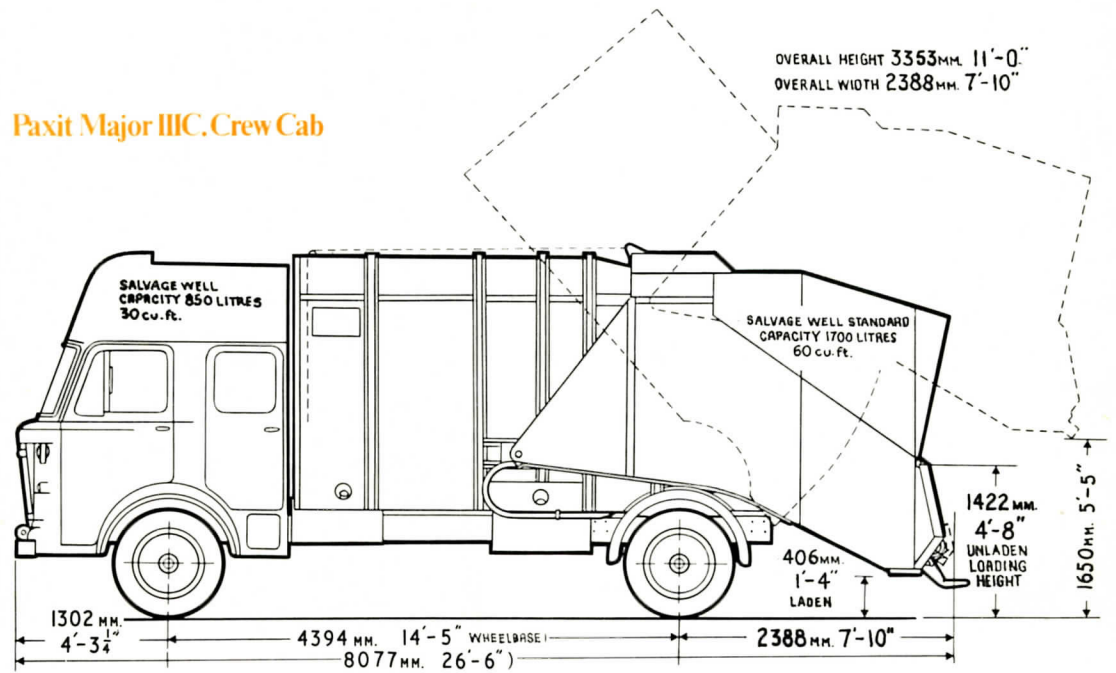


### Paxit III C Crew Cab

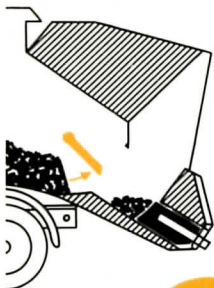
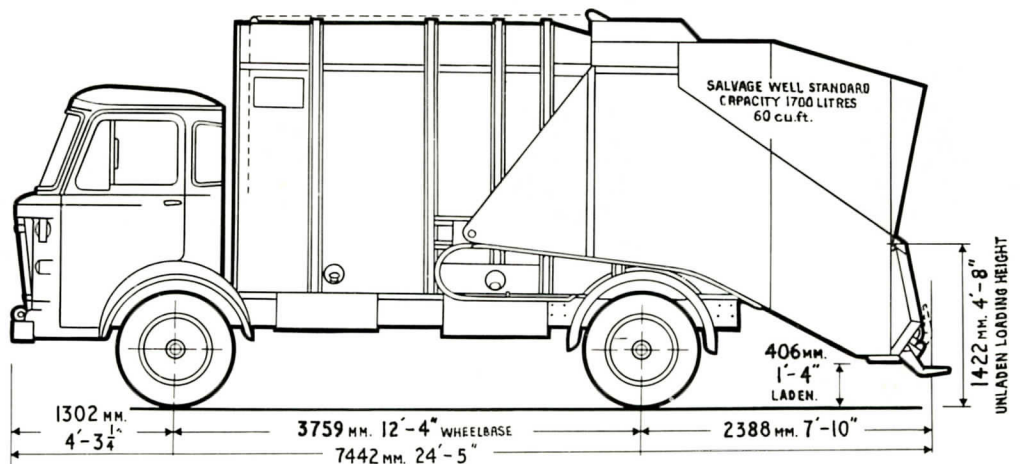


Crew Cab)	Paxit Major III C (Single Cab)
	3759 mm (12'4")
	7442 mm (24'5")
	2388 mm (7'10")
	3353 mm (11'0")
	1422 mm (4'8")
	406 mm (1'4")
	1650 mm (5'5")
	17.6 m (58')
	18.8 m (62')
	241 mm (9 1/2")
	22°
	10°
d')	27/38 m <sup>3</sup> (35/50 yd <sup>3</sup> )
	31000 kg (31 tons)
	49°
wt)	7160 kg (7 tons 1 cwt)
	13.4 m <sup>3</sup> (17.5 yd <sup>3</sup> )
	9.00 x 20 (14 ply)
	5090 kg (5 tons)
	10170 kg (10 tons)
	15240 kg (15 tons)

### Paxit Major III C Crew Cab



### Paxit Major III C Single Cab



**6**

The swivel compression plate also then retracts and another cycle is started as in diagram 1.

5  
acts  
in  
top  
in

# Specification

## Chassis

### Engine

Perkins 6.354 diesel engine. Swept volume 354 in.<sup>3</sup> or Leyland 6.98 series diesel engine. Swept volume 345 in.<sup>3</sup>.

### Gearbox

Five-speed constant mesh gearbox type EYT 542 CMJ. Ratios 1:1, 1.55:1, 2.633:1, 4.505:1, 8.19:1. Reverse 7.832:1.

### Clutch

35.5 cm. (14 in.) diameter single dry plate. Total lining area 1,177 sq. cm. (182.5 sq. in.).

### Propeller Shaft

Fully balanced with needle roller bearing universal joints and flexibly mounted centre bearing.

### Front Axle

5590 kg. (5.5 tons) capacity forged 'I' section alloy steel beam with low friction swivel thrust bearings.

### Rear Axle

10170 kg (10 tons) capacity. Single speed spiral bevel drive of Eaton manufacture. Ratio 6.14:1.

### Fuel Tank

136 litres (30 gallon) 45.7 cm. (18 in.) diameter cylindrical.

### Brakes

Full air operation using diaphragm type brake chambers coupled to cam operated brakes. Front brakes 38.1 cm. x 12.7 cm. (15½ in. x 5 in.). Rear brakes 38.1 cm. x 17.8 cm. (15½ in. x 7 in.). Total brake lining area 4,677.5 cm.<sup>2</sup> (725 in.<sup>2</sup>).

### Service Brake

Footbrake system with diaphragm actuators operating simultaneously on all brakes.

### Secondary

Lever operated, providing air assisted braking on rear axle.

### Parking

By lock actuators through cam levers on rear axle.

### Frame

Channel section pressed steel sidemembers .634 cm. x 6.3 cm.

x 22.9 cm. (¾ in. x 2½ in. x 9 in.).

Crossmembers are of channel section for strength, fitted by high tensile bolts. Reinforcing strips fitted on top and bottom flanges. Two front tow loops are provided.

### Suspension

Semi-elliptical leaf springs front and rear with front shock absorbers fitted standard. Helper springs on rear – Paxit Major IIIC.

### Steering

Recirculatory ball type steering box. A 508 mm (20 in.) diameter 3-spoke steering wheel is fitted. Lock to lock 6½ turns approx.

### Wheels and Tyres

Pressed steel disc wheels for 10 stud fixing. Single front twin rear and spare. 9.00 x 20 – 14 ply.

### Cooling System

Pressurised system with 4 row flat tube radiator, water circulation controlled by thermostat and by-pass. External filler cap. Heater/demister fitted as standard.

### Electrical

12-volt A.C. negative earth return system. Panel on fascia fitted with 12.06 cm. (4¾ in.) diameter speedometer, two air gauges, fuel gauge, 'no charge' warning light, key operated starter switch and screen washers. Oil pressure warning light.

Alternator standard to ensure low engine speed charging. On steering column, switches for head, side and tail lamps, head lamp dip switch, horn switch button and direction indicators switch. Battery capacity 110 ampere/hour at 10 hour rate.

### Available Extras

Spare wheel carrier. Automatic chassis lubrication equipment. Rear shock absorbers. Sun visors. Fog lamps. First aid kit. Fire extinguisher. Hand washing unit. Towing attachment for salvage trailer. Power assisted steering.

## Cab

Three door crew cab constructed of glass fibre reinforced plastic incorporating one piece windscreen and a .849 m.<sup>3</sup> (30 ft.<sup>3</sup>) salvage well in roof. Seating for 5 or 6 men in addition to the driver. A single cab is available on the Paxit Major IIIC.

## Body

The body floor is fabricated from steel sections and is of all welded construction; the body floor panels are heavy gauge steel plate – corrosion and abrasion resistant. Body superstructure is constructed of fully heat treated non-corrosive aluminium alloy sheet and extruded sections riveted together. All joints between dissimilar metals are protected by zinc chromate paint to prevent electrolytic erosion. Body and hopper panelled with 12 gauge heat treated toughened light aluminium alloy. Body prop (optional extra).

## Salvage Space

There is a 1.698 m.<sup>3</sup> (60 ft.<sup>3</sup>) salvage well in the roof of the hopper as standard which is reached from the ladder on the near side. **Note.** This space is not available when bulk bin hoist equipment or dustless shutters are fitted.

## Tipping Gear

Power operated unit with twin telescopic front ram to give stability when tipping.

## Hydraulics

Power for all loading and tipping rams is provided by means of a gear type pump. Oil supply to the pump is made from a 118 litre (26 gallon) reservoir mounted on the chassis frame.

## Loading Hopper

Jig built to ensure interchangeability. All external and non-wearing panels are of heat treated aluminium alloy rivetted into position. Two-stage loading mechanism.

# DENNIS

Keeping Britain Tidy

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