

THE NORBA RHINO

A new generation of refuse collectors
built to survive.



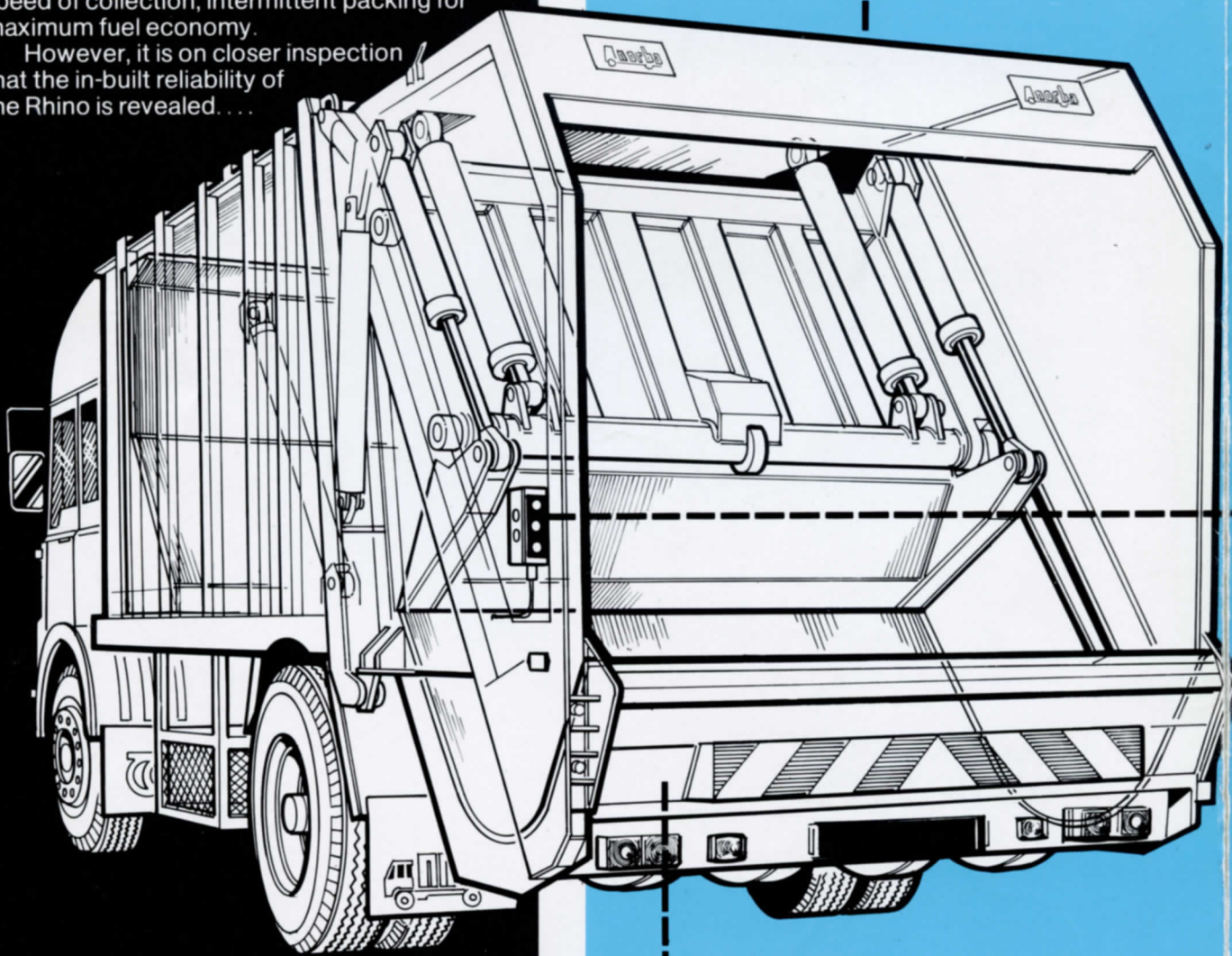
THE NORBA RHINO

The Norba Rhino is a new breed of refuse collector designed and engineered to endure a long, tough life.

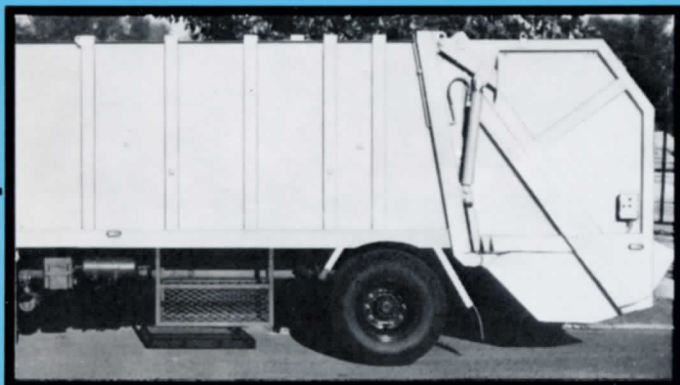
This has been achieved by the introduction of stronger materials and components with an operation requiring fewer moving parts.

The Rhino is virtually a continuous loader with an intermittent packing cycle; it provides the best of both worlds. Rapid loading for speed of collection, intermittent packing for maximum fuel economy.

However, it is on closer inspection that the in-built reliability of the Rhino is revealed. . . .

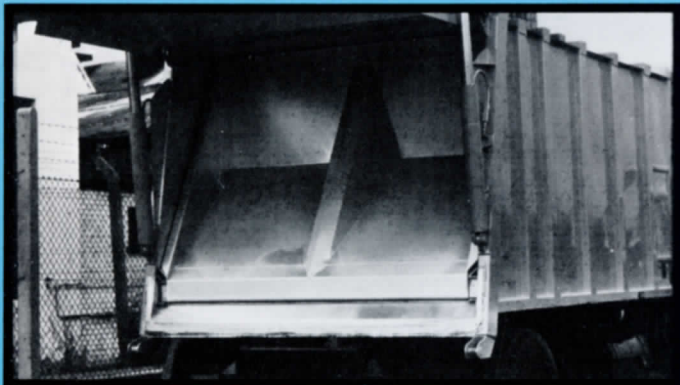


THE RHINO 'built



A stronger body

A basic requirement for the Rhino was the quality and strength of sheet steel used in both the body and the tailgate construction. The body has a 4mm thick floor and 2.5mm sides – reinforced by 4mm pressed 'U' section strengthening beams. These beams are continuously seam welded to the body panels eliminating rust traps and ensuring maximum strength. Steel to a Brinell hardness of 360 has been incorporated in the 6mm sides and floor of the hopper and the working face of the packer plate.

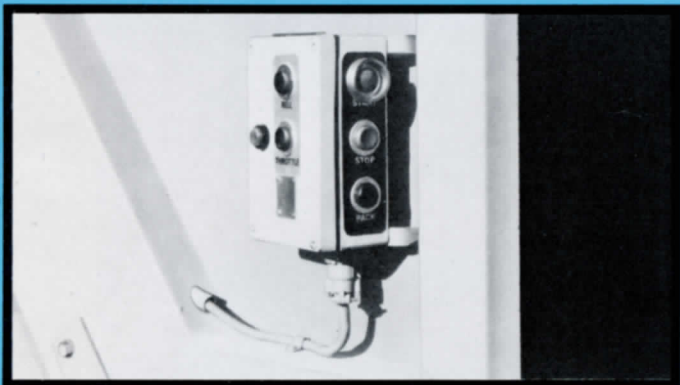


Continuous loading, Intermittent packing

The operation of the Rhino is advantageously simple. Loading waste into the static hopper, with a loading height of approximately 1040mm will show the benefits of a full width rake bar, and large loading capacity. Compaction of the waste is accomplished by a packer plate which compacts against the ejector plate which in turn retracts under a controlled back pressure.

The unobstructed loading space allows all types of refuse to be handled, domestic, commercial and light industrial. Provision is made for a range of bin and container lifts to be fitted when application demands.

The intermittent packing cycle offers two major benefits, firstly, as engine revs are increased only during the brief compacting operation fuel savings of up to 40% can be expected when compared to continuous packing models. Secondly, wear to moving parts is reduced and therefore eases the burden of frequent maintenance schedules and costly down time.



Engineering for reliability

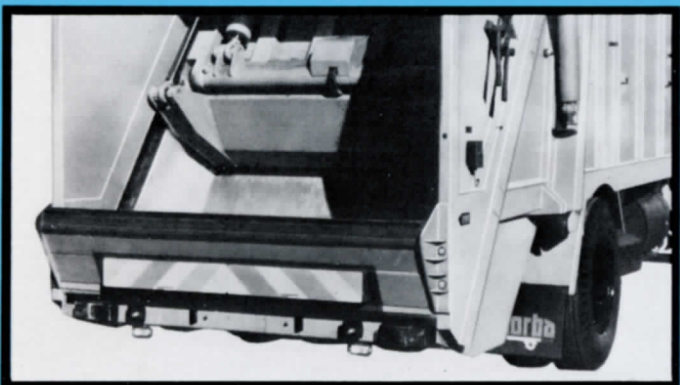
It is the subject of down time and operating reliability that has concerned our design team chiefly, and many new measures have been adopted.

All hydraulic rams have hard chromed piston rods and adjustable seals, and the rams for the packing mechanism have spherical bearings at each end. All pipe ends are flared to ensure a reliable seal even at high temperatures and to eliminate the need for re-tightening. The hydraulic tank is fitted with three different filters to ensure oil cleanliness and increase system life.

The Rhino's electrical system is simple, robust and reliable. All cables are fitted with conduit protection. The nearside mounted control box houses push button function switches that are totally insulated against humidity. A dual purpose control facility is provided to facilitate manual override in the unlikely event of electrical failure.

All components used in the construction of the Rhino have undergone extensive tests to determine wear characteristics and operational reliability.

We are satisfied that the Rhino will prove even tougher than its namesake.



to survive in a tough jungle!

Specification

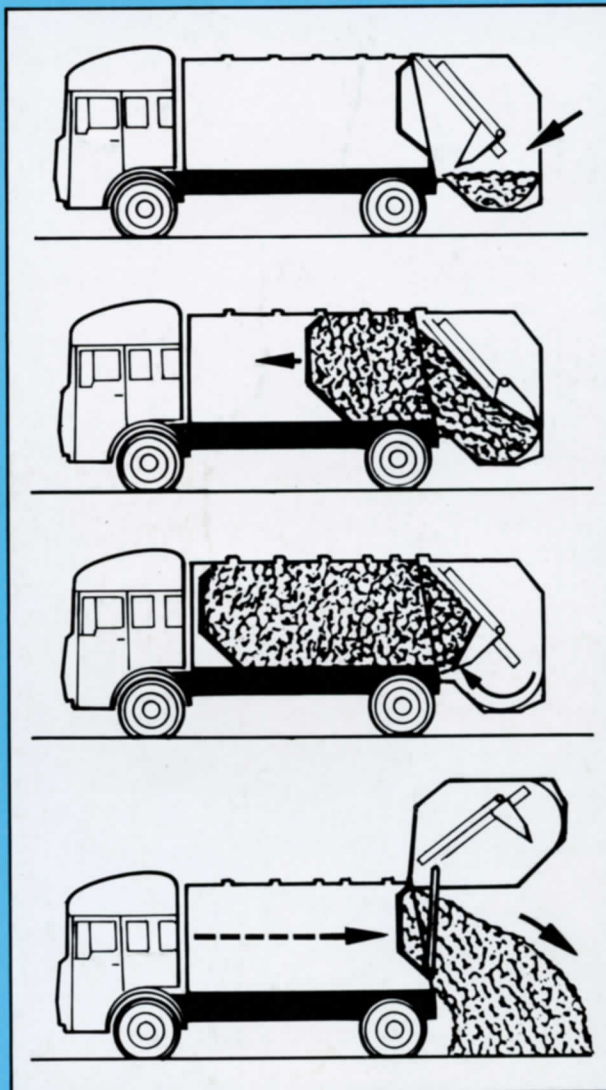
Body

Model		120	135	150	155
Air Volume:	cu. m.	12.0	13.5	15.0	15.5
	cu. yd.	15.7	17.7	19.6	20.3
Loading Potential:	cu. m.	48	54	60	62
	cu. yd.	63	70	78	80
Body Length:	mm	3350	3575	3975	4150
	ins	132	141	156	164
O/A Length: (Inc. Tailgate)	mm	5060	5285	5685	5860
	ins	199	208	224	231
Total Weight: (Assembled)	kg.	4650	4700	4800	4850
	tons	4.6	4.6	4.7	4.8
Width:	mm	2440			
	ins	96			
Height: (Above chassis frame)		2020			
		80			
Material:	Sides	2.5mm Steel Plate			
	Top	2.5mm Steel Plate— 4mm at rear			
	Strengthening Beams:	Side	4mm 'U' Section		
	Top	4mm 'U' Section			
	Bottom	5mm 'U' Section			

Tailgate

Working Cycle:	Approx. 22 seconds.
	Max. time required for operation of controls, approx. 8 seconds.
	(22 seconds for manual override operation).
Compaction Force:	Approx. 10500 Kgs, at outer edge of packer plate.
	Approx. 19000 Kgs, in centre of panel.
Hopper:	Volume: 1.70m ³ 2.20yd ³
	Width Inside: 2,030mm 80 ins
	Material, sides and bottom 6mm high grade, wear resistant steel.
	Loading height: min 1040mm (41 ins).

It has always been and will continue to be the policy of the Multilift company to supply vehicles of quality to perform the continuously widening and diverse activities of industry. For this reason should it be necessary to modify the specifications contained within this publication to better serve this purpose we reserve the right to do so without prior notice.



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'Built to survive in a tough jungle'

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Multilift Limited is a member of the Partek Group, Europe's largest manufacturers of ground level demountables.



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