

Eagle Pendulum



The Eagle Pendulum refuse collector offers . . .

Versatility

The vehicle is suitable for a wide variety of operating conditions, whether rural, suburban or in the city centre. Fitted with the most adaptable Bin-Lift mechanism now available, it can be quickly and simply converted for large container collection in high-density urban areas.

Proven Design

The Pendulum has been in production for a number of years. It is a tried and tested collector which has been bought in quantity by a large number of authorities.

Simplicity

The intermittent compression action of the Pendulum leads to extreme simplicity of design and operation, with just one hydraulic ram. Only two cab controls are needed – one to operate the compression barrier, the other to tip the body.

Low Initial Cost

Because there is no complicated machinery, the Pendulum can be offered at a surprisingly moderate cost in relation to more complex vehicles.

Low Running Costs

Intermittent action, simplicity of design and few working parts produce a significant cut in operating and maintenance costs.

Economic Operation

The all-steel construction body is available as the 35, 50 and Bin-Lift 50, with body air spaces of 18 cubic yards (13.7 m³), 22 cubic yards (16.8 m³) and 23 cubic yards (17.5 m³) respectively. A compression ratio of 1.5:1 gives the Pendulum quite an appetite – and a consistently high payload/cost ratio.

The photographs show vehicles fitted with a Bin-Lift mechanism and illustrate operating features common to all vehicles.

1. Ease of loading

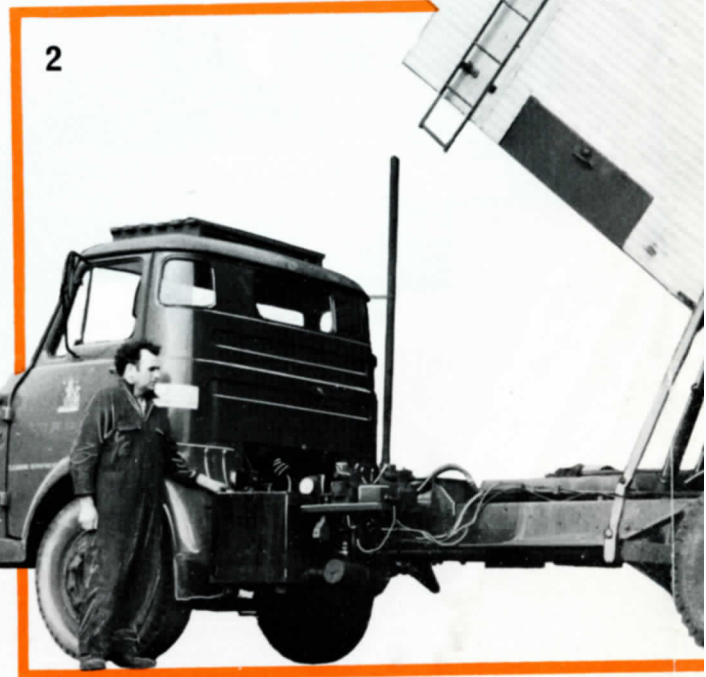
Bulky materials can be easily inserted deep into the interior of the vehicle.

2. Ease of tipping

When the vehicle body is in the full tip position, the Pendulum machinery swings clear of outgoing refuse.

3. No Dust Nuisance

The rear door is closed when tipping a large container. It is also closed between journeys to eliminate dust and fall-out of refuse.



Description

Operator Appeal -

operators like the Pendulum's low-loading line. There's no waiting for room to empty a bin - up to 3 operators can dump refuse into the Pendulum at the same time and the low-loading line from ground or step greatly reduces operator fatigue.

No Dust Nuisance -

a scraper plate is fitted to the bottom of the lower barrier face. This lifts over any spillage on the return stroke - scrapes and carries forward residue on the next compression stroke. Single loading doors seal dust in when travelling.

A Simple Tip -

reduces dumping time. The rear door carrying beams lift the pendulum mechanism clear of the refuse. Before tipping, the automatic coupling which connects the hydraulic ram to the pendulum barrier is disengaged, and opens a by-pass valve. The body is then elevated by ordinary tipping rams.

Simple Mechanism

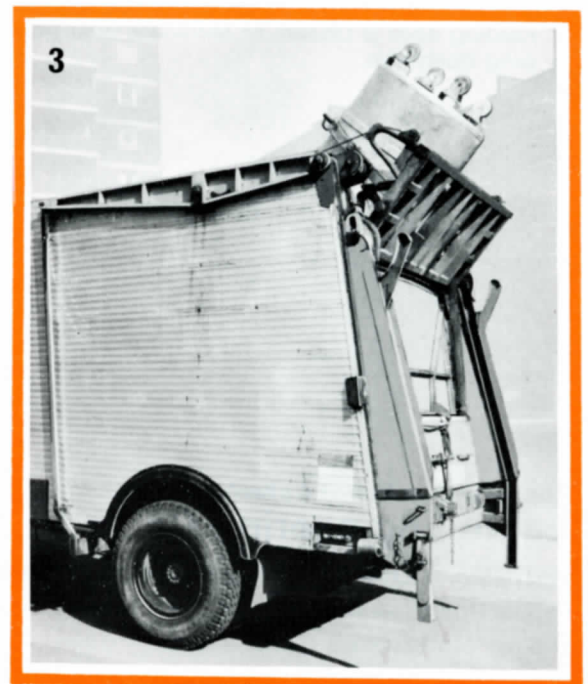
The pendulum barrier is designed to halve the hydraulic effort required in compressing the material, adding to the simplicity of the operating mechanism. The upper face first eases back the top level of refuse, the lower face follows through to compress

the bottom half of the material. The ram is situated below the floor level and away from damaging abrasive materials. Operated from the vehicle's Power Take-Off, the ram is connected by an automatic coupling to the pendulum barrier. It contracts to compress dumped refuse forward into the body, and is then returned to the loading position.

Long-Life Hydraulics

To cut pressure losses to a minimum, the volume of hydraulic piping has been reduced by siting the compression ram on the vehicle chassis. This procedure has the overall effect of increasing the efficiency of the compression system and gives an appreciable increase in the operational life of the hydraulic pump, control valves and pipe joints.

- *Mounted to any make of chassis*
- *Available with standard or crew cab*
- *Low initial cost and exceptionally low maintenance*
- *Cab-controlled compression and tipping*
- *Speedy loading and speedy hopper clearance*
- *Robust, all-steel body*
- *Accepts all types of refuse*
- *Basic, simple hydraulic system - all hydraulics outside body*
- *Design simplicity and operational safety*
- *Available with dual purpose loading barrier*
- *Available with bin-lift containers from 20 cu. ft. (0.6 m³) to 2½ cu. yards (1.9 m³) capacity*



The Pendulum Bin-Lift

The Pendulum Bin-Lift has been improved over the years and is considered to be the most adaptable unit now available. It accommodates bins of almost every known make and size, from 20 cubic feet (0.6 m³) to 2½ cubic yards (1.9 m³) and discharges over instead of through the barrier. Bins are clamped at ground level to the mechanism, which is hydraulically operated from a simple, one-man control point at the rear of the vehicle. Discharge is effected through a dust-proof port sited between the roof and the barrier.

When not required, the bin cradle may be stored in the top-most position allowing the barrier to be opened for manual collection, and giving the machine a very useful dual capability.

An additional feature of the Bin-Lift machine is an automatic barrier return mechanism.



1.



2.



3.

The photographs show a Pendulum Bin-Lift operating in a high-density urban housing area.

1. The refuse bin is speedily clamped to the bin-lift cradle at ground level.
2. The mechanism is operated from the rear of the vehicle. The operator has full control, and a clear field of vision.
3. The bin is discharged at the top of the vehicle. The rear loading door is closed, to eliminate dust from the tipping operation.

The Pendulum Refuse Collector is produced by

Eagle Engineering Co. Ltd

part of the **Yorkshire/Eagle** *organisation.*

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