

# **JOHNSON**

## **DUMPERS & HI-PLACERS**



# When you buy a **JOHNSON** dumper — **JOHNSON 1 TON DUMPERS** — Extraordinary off-highway performance

## MODEL 2HG GRAVITY DUMP

Incorporates many original features —  
**Rear Wheel Drive** — Torque transfer gives more traction and amazing gradeability. Front wheel steer for easier manoeuvring in tight situations. Drives like a car.

**Patented articulated chassis** — constant loading on all wheels under severe ground conditions.

**Two position skip** — for work with various size mixers — also optional third platform position for stacked loads.

**Sprung driving seat** — less operator fatigue.

### New developments include —

**Sealed oil bath roller chain drive** — long life — simple to replace.

**Heavy-duty constant mesh gearbox**, as fitted to bigger dumpers.

**Oversize clutch.**

**Wide profile steering tyres** — better on soft ground.

**ENGINE** Petter PH.1T cold start air-cooled diesel, with heavy-duty oil and air filters, and dust-protected control gear.

**CLUTCH** Single dry plate 9 in. (229 mm.) diameter heavy-duty type.

**GEARBOX** Heavy-duty constant mesh, three forward and one reverse. Ratios: top 1:1, second 1.85:1, first 4.3:1, reverse 3.85:1.

**GEARBOX/AXLE DRIVE** Totally enclosed, short centres Roller Chain Drive, oil bath and tensioning device.

**DRIVE AXLE** Rear mounted, 1.54 tons capacity, semi-floating, Hypoid gearing.

**STEERING** Heavy-duty type worm and peg steering box, with reinforced column and extra-strong steering wheel.

**STEERING AXLE** Solid steel, suitably machined for swivel pin bushes.

### STEERING MECHANISM AND HUBS

Heavy-duty heat-treated alloy steel forgings. Sealed roller bearing hubs.



**TYRES** Driving — 6.00 x 16 4-ply open tread tractor type. Steering — 6.00 x 16 6-ply trailer type, wide profile.

**BRAKES** Rear wheel, hand and foot operated, drum size 10 in. x 1 3/4 in. (254 mm. x 44.5 mm.). Four wheel brakes optional extra.

**CHASSIS** Robust patented articulated construction, fabricated from rolled steel sections heavily reinforced at engine, transmission, axle, and control points, to withstand shock loading. A solid steel shaft is rigidly mounted in the main (rear) chassis forming the pivot on which the front sub-chassis articulates. Articulation 14 in. approximately. Robust mudguards are fitted to rear wheels.

**CONTROLS** Foot-operated brakes, clutch and accelerator. Hand-operated brake and skip release.

**DRIVER'S SEAT** Steel, incorporating backrest, spring mounted.

**SKIP** Two position. Self-tipping and self-recovering. Heavy gauge steel with stiffened edges. Designed to operate with

several sizes of mixer — the driver can lock the skip in either of two positions, (i) or (ii) by means of the skip release lever to vary the loading height. As an optional extra, a third locking position can be provided so that the skip forms a low platform 23 in. (575 mm.) from ground level, suitable for bagged cement, bricks, kerbing, etc.

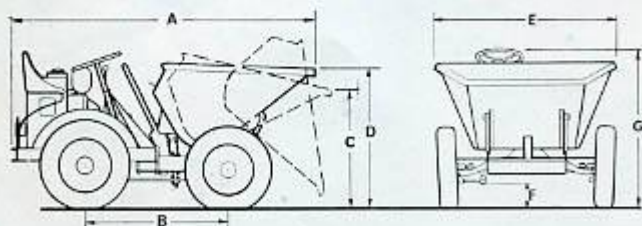
**USE ON HIGHWAY** These dumpers are suitable for use on Public Highways as Works Trucks. Number plates, licence holder, bulb horn, mirror, and certified weight ticket can be provided on request.

### APPROX. ROAD SPEEDS

Top 9 mile/h. (15 km./h.)  
 Second 5 mile/h. (8 km./h.)  
 First 2 mile/h. (3 km./h.)  
 Reverse 2 mile/h. (3 km./h.)

**SHIPPING SPECIFICATION** Unless otherwise specified, Dumpers for export are shipped on their wheels, with engine waterproof wrapped and protectively timbered.

Net weight 19 1/2 cwt. (990 kg.)  
 Gross weight 1 ton (1016 kg.)



Capacity				Turning Circle Kerb to Kerb		
Water (i)	Water (ii)	Struck	Heaped	Right Hand	Left Hand	
10 cu. ft.	17 1/2 cu. ft.	21 cu. ft.	27 cu. ft.	22 ft. 9 in.	19 ft. 9 in.	
280 L.	500 L.	600 L.	750 L.	6934 mm.	6020 mm.	
A	B	C	D	E	F	G
8 ft. 6 in.	4 ft.	3 ft. 3 in.	3 ft. 9 in.	5 ft.	Min. 9 in.	Chassis 11 in.
2591 mm.	1220 mm.	991 mm.	1143 mm.	1524 mm.	229 mm.	279 mm. 1372 mm.



**ALSO AVAILABLE WITH 'TRIP-SKIP' SYSTEM**

you buy lasting quality plus fitness for purpose

## JOHNSON 1-15 TON DUMPERS

### Outstanding in their class

#### MODEL 1JP POWER DUMP

**ENGINE** Petter PH.1T cold start air-cooled diesel, with heavy-duty oil and air filters, and dust-proofed control gear. Engine canopy fitted as standard. Optional engine — Lister ST1 air-cooled diesel.

**CLUTCH** Single dry plate 9 in. (229 mm.) diameter heavy-duty type.

**GEARBOX** Heavy-duty constant mesh three forward and one reverse. Double reduction.  
Ratios: top 2·4:1, second 4·5:1, first 10·4:1, reverse 9·3:1

**GEARBOX/AXLE DRIVE** Direct propeller shaft with chock absorbing couplings.

**DRIVE AXLE** Front mounting 1·54 tons capacity, semi-floating, Hypoid gearing.

**STEERING** Heavy-duty type worm and peg steering box, with reinforced column and extra-strong steering wheel.

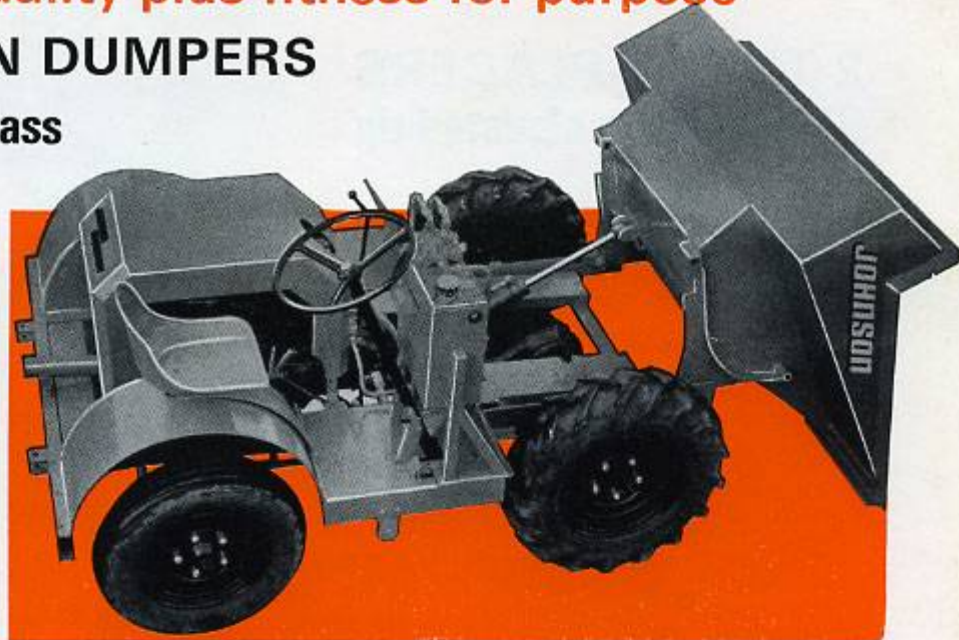
**STEERING AXLE** Solid steel, suitably machined for swivel pin bushes. Centre pivoted.

**STEERING MECHANISM AND HUBS** Heavy-duty heat-treated alloy steel forgings. Sealed roller bearing hubs.

**TYRES** Driving — 6·00 × 16 6-ply open tread tractor type. Steering — 6·00 × 16 6-ply trailer type, wide profile.

**BRAKES** Front wheel hand and foot-operated drum, size 10 in. × 1½ in. (254 mm. × 44·5 mm.). Four wheel brakes optional extra.

**CHASSIS** Robust one-piece fabrication utilising rolled steel sections. Gusseted and reinforced for the heaviest duty.



**CONTROLS** Foot-operated brakes, clutch and accelerator. Hand-operated brake and skip control valve.

**DRIVER'S SEAT** Fibreglass moulding of very robust construction, spring mounted.

**HYDRAULIC SKIP CONTROL**  
The hydraulic pump is enclosed gear driven direct on engine. Hydraulic piping is solid drawn steel except where movement requires flexibles. The forward tipping and return of the skip is controlled by one single extension double-acting hydraulic ram.

**USE ON HIGHWAY**  
These dumpers are suitable for use on Public Highways as Works Trucks. Number plates, licence holder, bulb horn, mirror, and certified weight ticket can be provided on request.

**APPROX. ROAD SPEEDS**  
Top 10 mile/h. (16 km./h.)  
Second 5½ mile/h. (9 km./h.)  
First 2½ mile/h. (4 km./h.)  
Reverse 2½ mile/h. (4 km./h.)

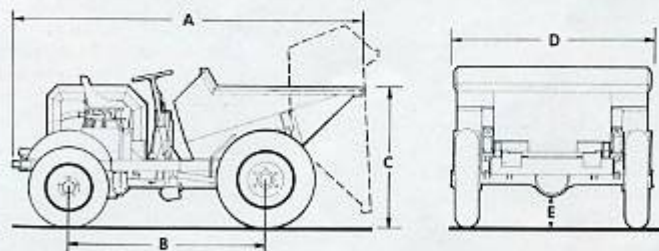
**SHIPPING SPECIFICATION** Unless otherwise specified, Dumpers for export are shipped on their wheels, with engine waterproof wrapped and protectively timbered.

Net weight 25 cwt. (1270 kg.)  
Gross weight 25½ cwt. (1296 kg.)

#### MODEL 1JG GRAVITY DUMP

This Dumper can also be supplied with gravity dump skip. The dump mechanism is self-tipping and self-recovering, with hand-operated mechanical skip latch gear. All other design features are as the 1JP Power Dump model.

**SHIPPING SPECIFICATION**  
Net weight 21 cwt. (1066 kg.)  
Gross weight 21½ cwt. (1092 kg.)



Capacity		Turning Circle Kerb to Kerb			
Water	Struck	Heaped	Right Hand	Left Hand	
20 cu. ft.	20 cu. ft.	28 cu. ft.	26 ft. 0 in.	22 ft. 3 in.	
565 L.	570 L.	800 L.	7925 mm.	6780 mm.	
	A	B	C	D	E
Power Dump	9 ft. 3 in. 2819 mm.	4 ft. 9 in. 1448 mm.	3 ft. 9 in. 1142 mm.	5 ft. 6 in. 1676 mm.	9 in. 229 mm.
Gravity Skip	8 ft. 11 in. 2718 mm.	4 ft. 9 in. 1448 mm.	3 ft. 7 in. 1092 mm.	5 ft. 6 in. 1676 mm.	9 in. 229 mm.

ALSO AVAILABLE WITH 'TRIP SKIP' & 'ROTAPLACER' SYSTEMS

**JOHNSON** quality pays

**JOHNSON 1.50 TON DUMPER**

**Extra power with Economy**

**MODEL 1LG  
GRAVITY DUMP**

**ENGINE** Petter PH.2T cold start air-cooled diesel, heavy-duty oil and air filters. Dust-proofed control gear. Optional engine — Lister SR2 two cylinder air-cooled.

**CLUTCH** Single dry plate 9 in. (229 mm.) diameter heavy-duty type.

**GEARBOX** Heavy-duty constant mesh, three forward and one reverse. Double Reduction. Ratios: top 2.4:1, second 4.5:1, first 10.4:1, reverse 9.3:1.

**GEARBOX/AXLE DRIVE** Direct propeller shaft with shock absorbing coupling.

**DRIVE AXLE** Front mounted, semi-floating type, Hypoid gearing.

**STEERING** Heavy-duty type worm and peg steering box, with reinforced column and extra-strong steering wheel.

**STEERING AXLE** Solid steel, suitably machined for swivel pin bushes. Centre pivoted.

**STEERING MECHANISM AND HUBS** Heavy-duty heat-treated alloy steel forgings. Sealed roller bearing hubs.

**TYRES** Driving — 7.50 x 16 6-ply open tread tractor type. Steering — 6.00 x 16 6-ply trailer type, wide profile.



**BRAKES** Front wheel hand and foot-operated drum, size 10 in. x 1 3/4 in. (254 mm. x 44.5 mm.).

**CHASSIS** A steel fabricated double frame of extremely rugged construction, made from rolled steel channels. A strong rear bumper bar with toe-hitch fitted.

**CONTROLS** Foot-operated brakes, clutch and accelerator. Hand-operated brake and skip release lever.

**DRIVER'S SEAT** Steel incorporating backrest, spring mounted.

**USE ON HIGHWAY** These dumpers are suitable for use on the Public Highways, as Works Trucks. Number

plates, licence holder, bulb horn, mirror, and certified weight ticket can be provided on request.

**APPROX. ROAD SPEEDS**

Top 10 mile/h. (16 km./h.)  
Second 5 1/2 mile/h. (9 km./h.)  
First 2 1/2 mile/h. (4 km./h.)  
Reverse 2 1/2 mile/h. (4 km./h.)

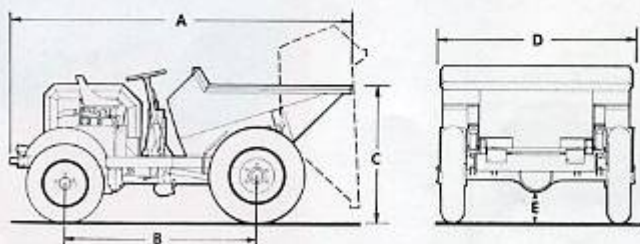
**SHIPPING SPECIFICATION**

Unless otherwise specified, dumpers for Export are shipped on their wheels with engine waterproof wrapped and protectively timbered. Net weight 23 1/2 cwt. (1181 kg.). Gross weight 23 3/4 cwt. (1206 kg.)

**MODEL 1LP  
POWER DUMP**

This dumper can also be supplied with hydraulic tipping and return skip. The hydraulic pump is enclosed gear driven direct on engine. Hydraulic piping is solid drawn except where flexibility is required for movement.

All other design features are as the 1LG Gravity Dump Model.



Skip Capacities			Turning Circle Kerb to Kerb	
Water	Struck	Heaped	Right Hand	Left Hand
25 cu. ft.	25 cu. ft.	32.5 cu. ft.	26 ft. 0 in.	22 ft. 3 in.
710 L.	710 L.	920 L.	7925 mm.	6780 mm.
A	B	C	D	E
9 ft. 2 in.	4 ft. 9 in.	3 ft. 9 in.	5 ft. 6 in.	9 in.
2794 mm.	1448 mm.	1143 mm.	1676 mm.	229 mm.

**ALSO AVAILABLE WITH 'TRIP-SKIP' & 'ROTAPLACER' SYSTEMS**

# JOHNSON 2 TON DUMPERS—MASSIVE STRENGTH

## Sixteen years of Proved Reliability

### MODEL 8EP POWER DUMP

**ENGINE** Petter PH.2T cold start air-cooled diesel, with heavy-duty oil and air filters, and dust-proofed control gear. Optional engine — Lister SR.3, three cylinder air-cooled diesel.

**CLUTCH** Single dry plate 9 in. (229 mm.) heavy-duty type.

**GEARBOX** Heavy-duty constant mesh three forward and one reverse. Ratios: top 1:1, second 1:85:1, first 4:3:1, reverse 3:85:1.

**GEARBOX/AXLE DRIVE** Direct propeller shaft, low torque, fitted with large size shock absorbing couplings.

**DRIVE AXLE** Fully floating with double reduction gear head. Magnetic drain plug, large accessible oil filler. This axle is unique in its serviceability, the complete final drive assembly can be withdrawn from the axle as a complete unit, half shafts can be directly withdrawn, and the brake drums removed for inspection simply by taking off the wheel. The design ensures long trouble-free service.

**STEERING** Heavy-duty type worm and peg steering box, with reinforced column and extra-strong steering wheel.

**STEERING AXLE** Solid steel, suitably machined for swivel pin bushes. Centre pivoted.

**STEERING MECHANISM AND HUBS** Heavy-duty heat-treated alloy steel forgings. Sealed roller bearing hubs.

**TYRES** Driving — 7.50 x 20 8-ply tractor type. Steering — 6.00 x 16 6-ply wide profile, ribbed.

**BRAKES** 12 in. x 3 in. (305 mm x 76 mm) drum brakes on drive axle, hydraulically-operated from foot pedal. Hand-operated disc-type transmission parking brake. Four wheel brakes optional extra.

**CHASSIS** Johnson Duplex design incorporates four-point axle mounting.

**CONTROLS** Foot-operated brakes,



clutch and accelerator. Hand-operated brake and skip control valve.

**DRIVER'S SEAT** Fibreglass moulding of very robust construction, spring mounted.

**HYDRAULIC SKIP CONTROL** The hydraulic pump is enclosed gear drive direct on engine. Hydraulic piping is solid drawn steel except where movement requires flexibles. Forward tipping and return of the skip is controlled by two single extension double-acting hydraulic rams.

**DRIVING WHEELS** Massive specially reinforced driving wheels are mounted on six 7/8 in. diameter H.T. studs, capnuts are fitted to all wheels.

**USE ON HIGHWAY** These dumpers are suitable for use on the Public Highways as Works Trucks. Number plates, licence holder, bulb horn, mirror, and certified weight ticket can be provided on request.

### APPROX. ROAD SPEEDS

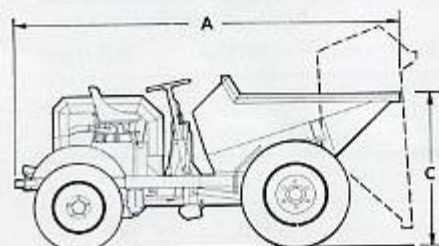
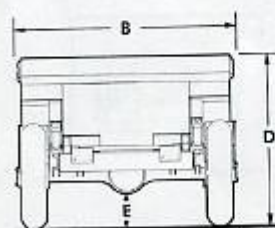
Top 12 mile/h. (20 km./h.)  
Second 6 mile/h. (10 km./h.)  
First 3 mile/h. (4 km./h.)  
Reverse 3 mile/h. (4 km./h.)

**SHIPPING SPECIFICATION** Unless otherwise specified, Dumpers for export are shipped on their wheels, with engine waterproof wrapped and protectively timbered.

Net weight 27 cwt. (1374 kg.)  
Gross weight 27½ cwt. (1400 kg.)

### MODEL 8EG GRAVITY DUMP

All the money-saving features of the hydraulically tipped dumper are incorporated in the gravity tipped model to give a trouble-free, hard working dumper.



	Skip Capacities			Turning Circle Kerb to Kerb	
	Water	Struck	Heaped	Right Hand	Left Hand
8EP	35 cu. ft. 1000 L.	35 cu. ft. 1000 L.	47 cu. ft. 1330 L.	29 ft. 4 in. 8940 mm.	26 ft. 6 in. 8076 mm.
8EG	30 cu. ft. 850 L.	34 cu. ft. 960 L.	42 cu. ft. 1200 L.	29 ft. 4 in. 8940 mm.	26 ft. 6 in. 8076 mm.
	A	B	C	D	E
8EP	10 ft. 2 in. 3100 mm.	5 ft. 11½ in. 1815 mm.	3 ft. 11½ in. 1205 mm.	4 ft. 6 in. 1371 mm.	9½ in. 241 mm.
8EG	10 ft. 9 in. 3276 mm.	5 ft. 11½ in. 1815 mm.	3 ft. 11½ in. 1205 mm.	4 ft. 6 in. 1371 mm.	9½ in. 241 mm.

ALSO AVAILABLE WITH 'TRIP-SKIP', 'ROTAPLACER', 'HI-PLACER' & 'HUMPER' SYSTEMS

# JOHNSON

## 2 TON HI-PLACERS High capacity elevated tip MODEL 1KH FOUR WHEEL DRIVE

The four wheel drive HI-PLACER is ideally suited for carrying a 2-TON PAYLOAD of concrete over rough site ground.

The large capacity hydraulically operated skip, 35.0 cu. ft. (1000 litres) wet level, provides controlled, high-level, forward placing of concrete into shuttering, concrete moulds, or crane skips up to 5 ft. 3 in. (1600 mm.) from the ground.

The skip design ensures a smooth gradual flow of concrete, facilitating accurate, fast, and safe pouring.

The HI-PLACER is a development of the famous well-tryed JOHNSON four-wheel drive 1K Dumper, assuring reliability, strength and low maintenance costs.

Another feature of this purpose-built concrete placer is the interchangeability of the skip assembly, providing the user with "three machines-in-one." The high discharge skip and sub-frame are easily detachable from the main chassis, to be replaced with the standard power-tipped dumper skip, or with the Rotaplacer skip and cradle, giving 180° slewing for side or forward concrete placing.

**ENGINE** Petter PH2T — twin-cylinder diesel engine with heavy-duty air and oil filters. Alternatively, the Lister SR3, three cylinder air-cooled diesel engine is available.

**CLUTCH** 9 in. (229 mm.) single dry plate.

**GEARBOX** Three-speed and reverse.

**TRANSMISSION TO FRONT AXLE** Hardy Spicer prop. shaft, universally jointed. Specially sealed roller bearings.

**TRANSMISSION TO REAR AXLE** Heavy-duty roller chain with automatic tensioner, running in totally enclosed oil bath gear case.

**DRIVING AXLES** Identical and interchangeable for spares. 3½ ton (3302 kg.) fully floating double reduction.

**BRAKES** Rear, foot rod operated. Front, hand cable operated. 12 in. x 2¼ in. (305 mm. x 57 mm.) drums, felt sealed.

**CHASSIS** Fully articulated — the pivot steering movement utilises a hardened ball-bearing slewing ring. 11 in. (280 mm.) of articulation between fore and aft chassis. Constructed throughout in massive rolled-steel sections, gusseted and electrically welded.



**WHEELS** Heavily reinforced at centre and secured by six ¾ in. (22 mm.) diameter high-tensile studs with cap nuts.

**TYRES** Identical on all wheels. 7.50 x 20 8-ply tractor implement. Tubed.

**HYDRAULICS** Pump gear driven off engine. Solid drawn steel piping snugged away in channel members except where movement necessitates flexibility.

**STEERING** Hydraulic power steering. Slewing ring articulation to British Patent No. 1,280, 638.

**AXLE MOUNTING TO CHASSIS** The outer mountings kept close to brake drum to reduce bending.

**DRIVING SEAT** Upholstered, sprung and waterproof.

**STANDARD EQUIPMENT** Mudguards on all wheels, tow hitch, starting handle, wheelbrace, and tool kit, instruction manual and parts list.

**ROAD SPEEDS** Approx.:

Top 9.5 mile/h. (15.2 km./h.).

Second 5.0 mile/h. (8.0 km./h.).

First 2.0 mile/h. (3.2 km./h.).

Reverse 2.5 mile/h. (4.0 km./h.).

Payload: 40 cwt. (2302 kg.).

Water capacity: 35.0 cu. ft. (1000 litres).

Struck capacity: 40 cu. ft. (1132 litres).

Ground clearance: 11 in. (285 mm.).

Wheelbase: 5 ft. 10 in. (1778 mm.).

Turning circle, R.H.: 24 ft. 6 in. (7467 mm.).

Turning circle, L.H.: 24 ft. 2 in. (7366 mm.).

Overall width: 5 ft. 11 in. (1803 mm.).

Overall length: 11 ft. 6 in. (3505 mm.).

Overall height, skip tipped: 9 ft. 11 in. (3022 mm.).

Loading height: 5 ft. 5 in. (1650 mm.).  
Discharge height: 5 ft. 3 in. (1600 mm.).  
Skip mouth width: 2 ft. 6 in. (762 mm.).

**SHIPPING SPECIFICATION** Unless otherwise specified Hi-Placers are shipped on their wheels with engine waterproof wrapped and protective timbering fitted  
Gross weight  
(1K Hi-Placer) — 36½ cwt. (1867 kg.).  
(8E Hi-Placer) — 27½ cwt. (1400 kg.).

## MODEL 8EH TWO WHEEL DRIVE

A two-wheeled drive version of the Model 1K HI-PLACER is available incorporating all the tried and tested features of the 8E Dumper chassis illustrated in this brochure.

Payload: 40 cwt. (2032 kg.).

Water capacity: 35.0 cu. ft. (1000 litres).

Struck capacity: 40 cu. ft. (1132 litres).

Ground clearance: 9 in. (229 mm.).

Wheelbase: 5 ft. 10 in. (1790 mm.).

Overall width: 5 ft. 11 in. (1816 mm.).

Overall length: 10 ft. 3 in. (3149 mm.).

Overall height, skip tipped: 9 ft. 6 in. (2895 mm.).

Loading height: 5 ft. 2 in. (1574 mm.).

Discharge height: 5 ft. 0 in. (1524 mm.).

Skip mouth width: 2 ft. 6 in. (762 mm.).

**ROAD SPEEDS** Approx.:

Top 12 mile/h. (20 km./h.).

Second 6 mile/h. (10 km./h.).

First 3 mile/h. (5 km./h.).

Reverse 3 mile/h. (5 km./h.).

ALSO AVAILABLE WITH 'POWER DUMP' & 'ROTAPLACER' SYSTEMS

# JOHNSON MACHINERY

Johnson Machinery Limited,  
Johnson Works, Adwood, Stockport SK3 8LG, England  
Telephone: 061-480 2642. Telex: 667297

Spares and Service Department:  
Telephone: 061-480 0654. Telex: 667297.

Johnson Regional Sales Offices:  
London — 01-622 0288, Glasgow — 041-776 3355,  
Yorkshire — Wetherby (0937) 3737.

See Johnson Regional Four Point Service Leaflet for full spares and service facilities — Nationwide.  
In accordance with our policy of continual improvement we reserve the right to modify these machines without notice.