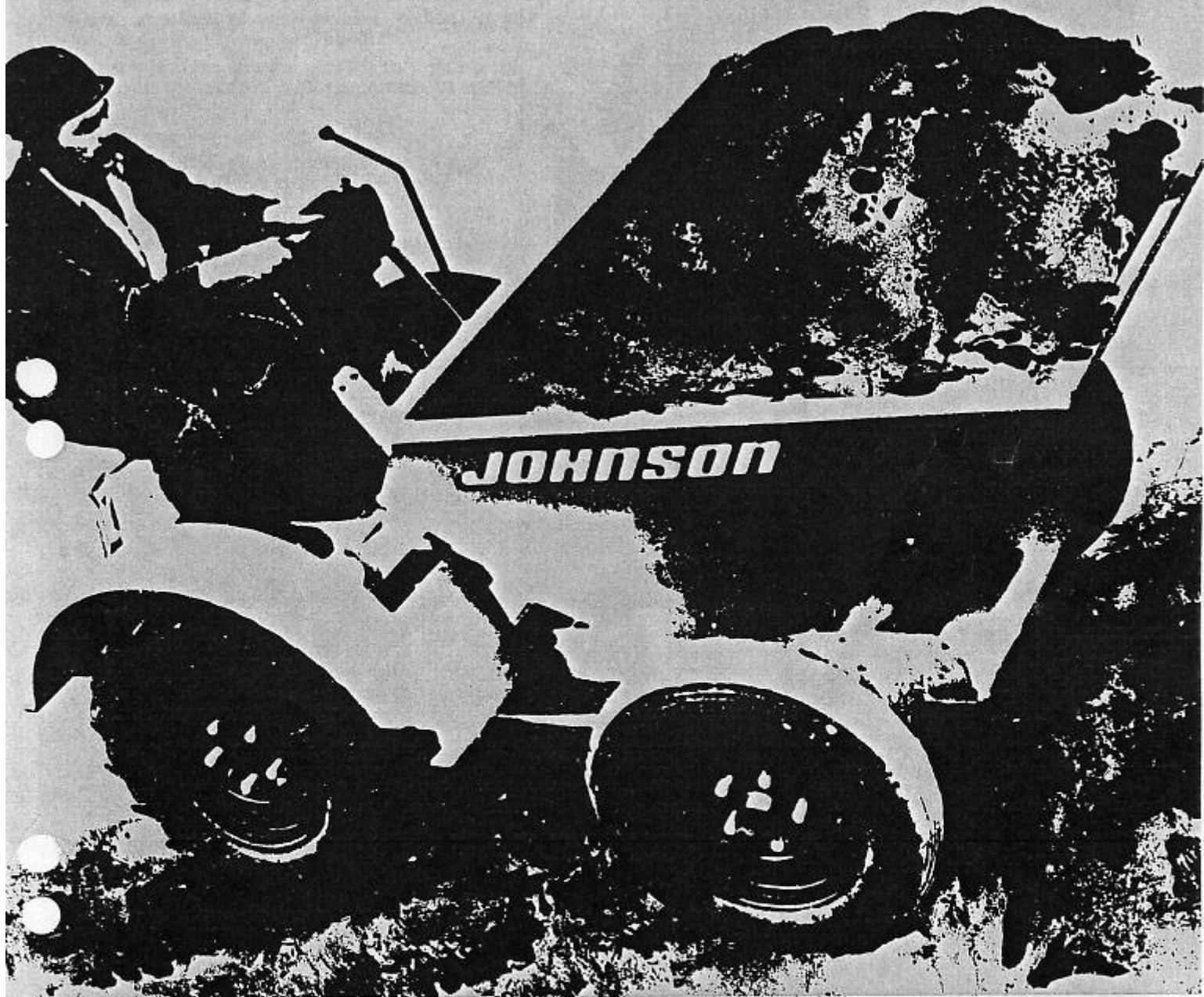


SfB

Bb4

UDC



JOHNSON

MODEL 2H

ONE TON ARTICULATED DUMPER

JOHNSON 2H

The Johnson 2H 1 ton capacity dumper gives you the best of both worlds. Based on the successful 1G/1H Dumper, the 2H incorporates many of the original features including:

Rear wheel drive—torque transfer gives more traction.
Unique articulated chassis—constant loading on all wheels under worst ground conditions.

Two-position skip—standard operates with various size mixers—also optional 3rd platform position for stacked loads.

Spring driving seat—less fatigue at the wheel.
Reinforced steering wheel—eliminates the vulnerability on ordinary dumpers due to shocks, jolts, etc.

New developments include:

Oil-bath roller chain drive—non-slip transmission—simple to replace.

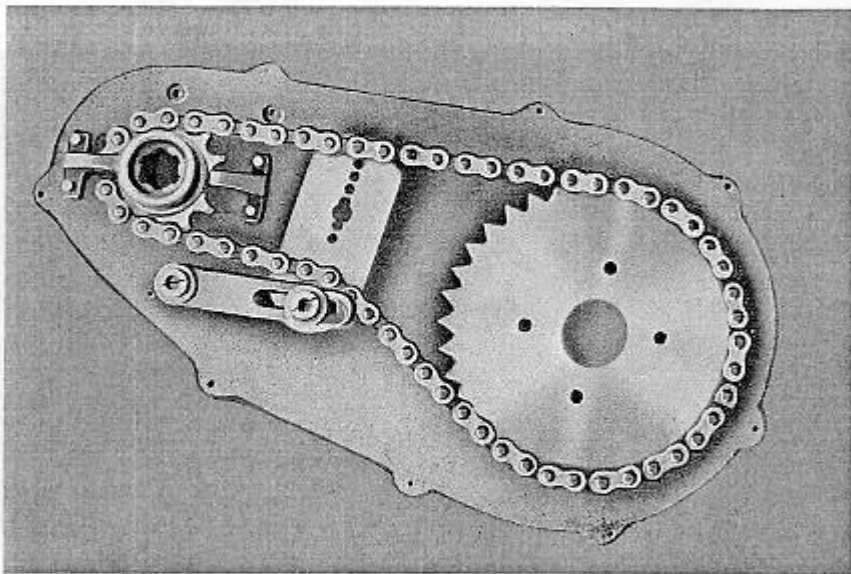
Heavy duty constant mesh gear box—easy changing.

Extra large steering wheel tyres—greater control in adverse conditions.

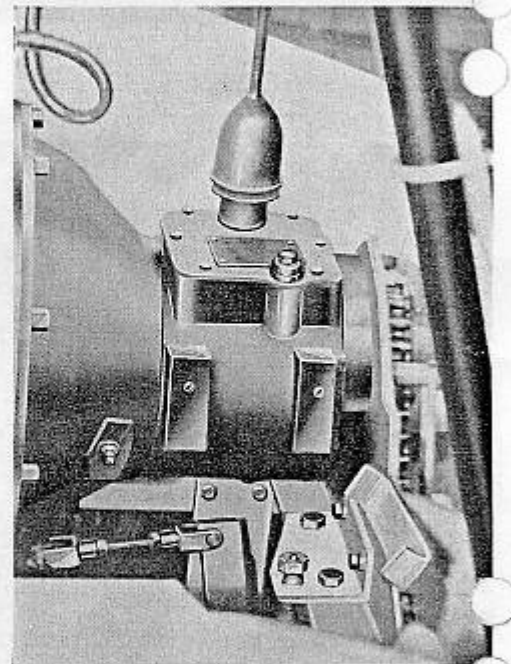
Petter PHI diesel engine—reliable as ever.



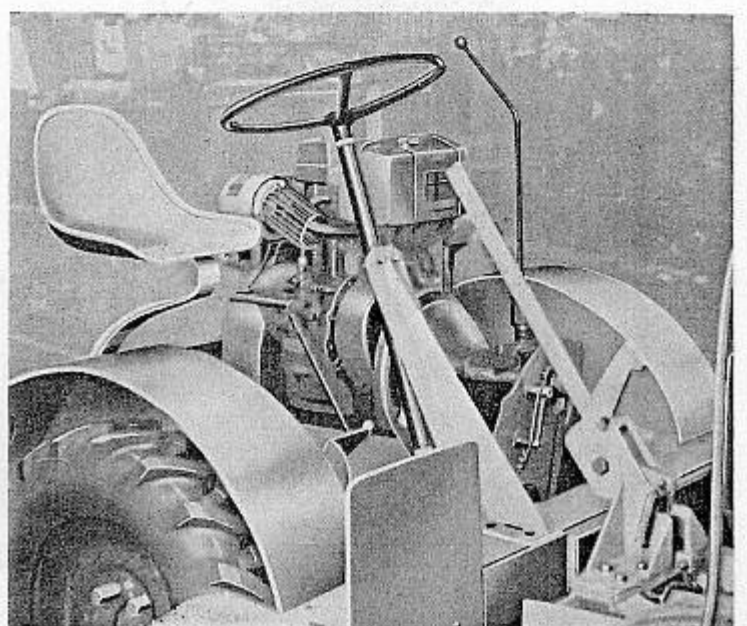
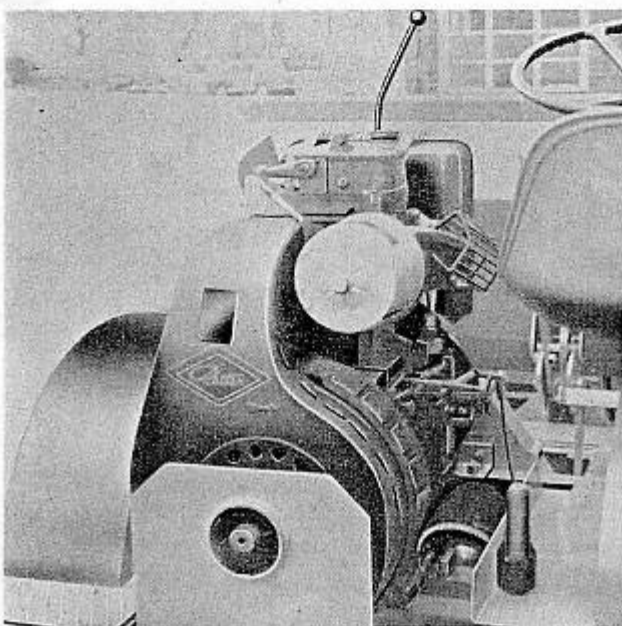
Rear wheel drive gives extra traction.

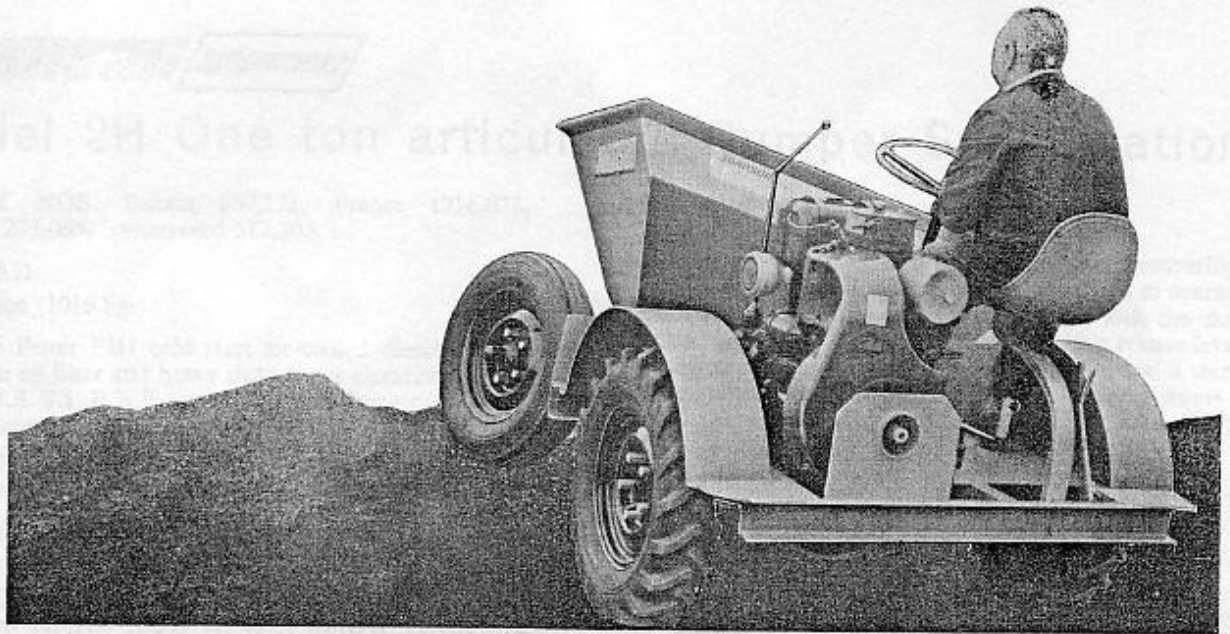


Oil-bath roller chain drive.

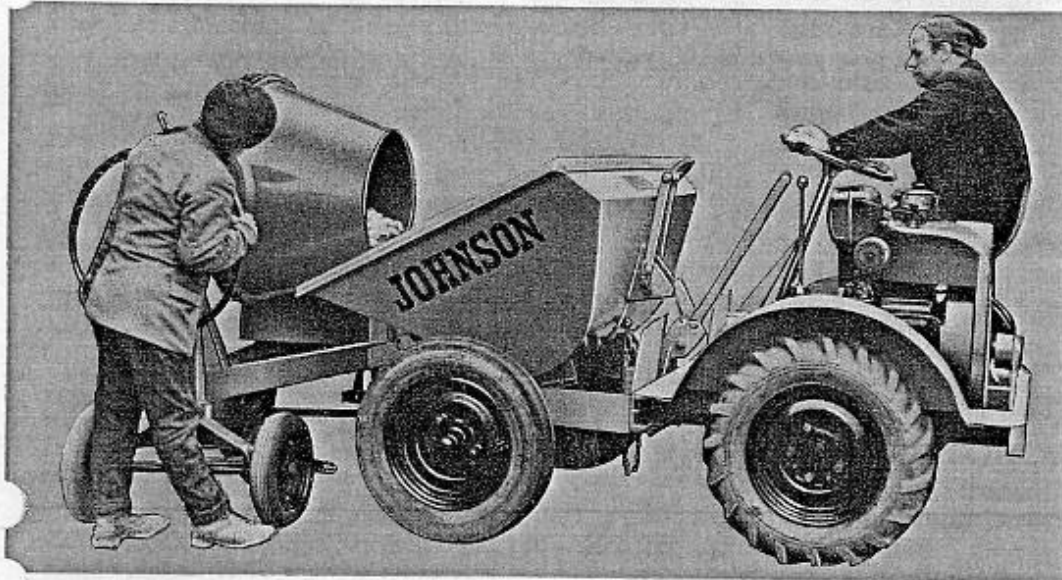


Heavy duty constant mesh gear box.

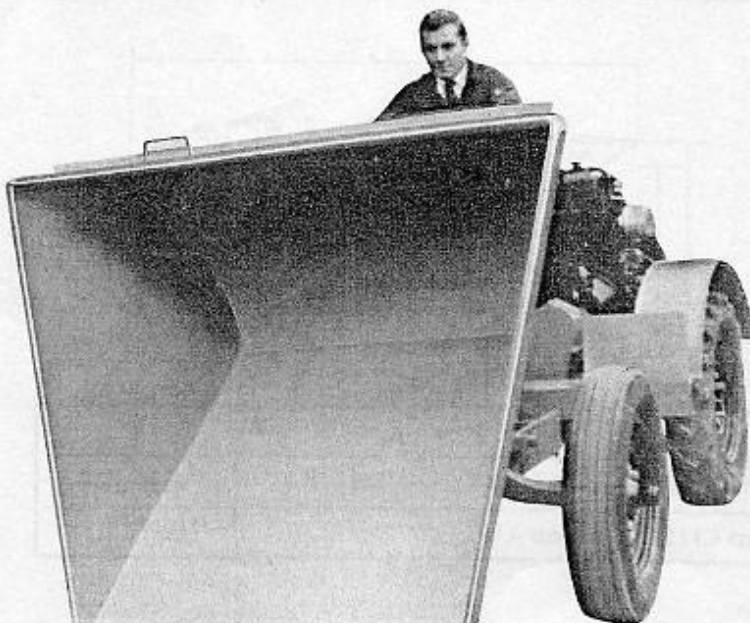




Unique articulated chassis.



Two-position skip - operates with various size mixers.



Self-tipping and self-recovering skip.



Skip in optional 3rd platform position for stacked loads.

Model 2H One ton articulated Dumper Specification

PATENT NOS. Britain 850,121, France 1226,075, Australia 233,065, Switzerland 377,208.

PAYLOAD

1 ton (1016 kgs)

ENGINE Petter PH1 cold start air-cooled diesel engine, fitted with oil filter and heavy duty paper element type air cleaner. B.S. 8.1 B.H.P. at 1650 r.p.m. (maximum "C" rating (Governor controlled).

Lubricating oil capacity—5 pints (2.84 litres).

Fuel tank capacity—1½ galls. (6.8 litres).

CLUTCH Single dry-plate 9" in diameter (20.32 cm) industrial type, with ball-bearing thrust.

GEARBOX Constant mesh, 3 forward and reverse. Ratios: top 1:1 2nd 1.85:1 1st 4.3:1 Reverse 3.85:1.

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

STEERING Worm and peg heavy duty type 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.

TYRES Driving—6.00×16 4-ply open tread tractor type.

Steering—6.00×16 6-ply trailer type.

BRAKES Hand and foot operated drum type—10 in × 1½ in (25.4 cm × 4.45 cm).

CHASSIS Articulated. Robust patented construction, fabricated from rolled steel channel, heavily reinforced with gusset plates to support engine, transmission, drive axle and controls. A solid steel shaft is rigidly mounted in the main (rear) chassis forming the pivot on which the front sub-chassis articulates. Robust mudguards are fitted.

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

DRIVER'S SEAT Spring mounted.

SKIP Two position. Self-tipping and self-recovering. Heavy gauge steel and stiffened edges. Designed to operate with several sizes of mixer—the driver can lock the skip in either of two positions 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 suitable for bagged cement, bricks, kerbing, etc.

Loading heights

maximum (i)	45 in	(114.3 cm)
second position (ii)	38½ in	(98.6 cm)
platform position	22½ in	(57.25 cm)

Capacity	1 ton	(1016.4 kgs)
Heaped	27 cu ft	(764.6 litres)
Water (i)	17½ cu ft	(500.0 litres)
(ii)	10 cu ft	(283.2 litres)

USE AS WORKS TRUCK

These dumpers are approved for use on the Public Highways as a works truck. Number plates, licence holder, bulb horn, mirror and certified weight ticket can be provided if specified.

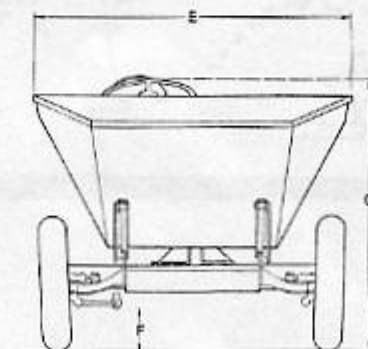
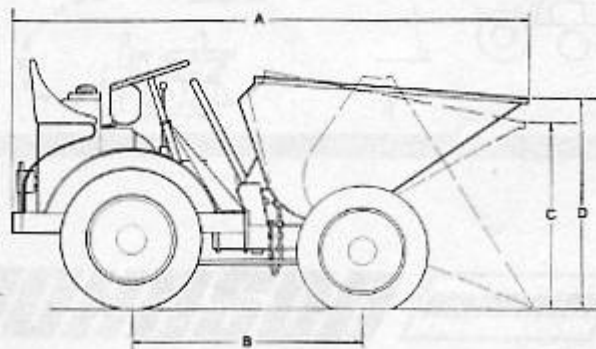
DIMENSIONS

Track (wheel centres)	4 ft 6 in	(137.4 cm)
Wheel base	4 ft 0 in	(122.13 cm)
Overall length	8 ft 6½ in	(259.71 cm)
Overall width	5 ft 0 in	(152.4 cm)
Overall height	4 ft 5½ in	(135.8 cm)
Turning radius—inner	4 ft 3 in	(129.77 cm)
Turning radius—outer	9 ft 9 in	(297.70 cm)
Ground clearance (min)	9 in	(22.86 cm)
Ground clearance (chassis)	11½ in	(28.62 cm)

SHIPPING SPECIFICATION

Unless otherwise specified Dumpers are shipped on their wheels with engine waterproof wrapped and protective timbering fitted.

Gross weight 1 ton (1016 kgs)



A	B	C	D	E	F	G
8 ft 6½ in	4 ft 0 in	3 ft 2¾ in	3 ft 9 in	5 ft 0 in	9 in	4 ft 5½ in
(259.71 cm)	(122.13 cm)	(98.6 cm)	(114.3 cm)	(152.4 cm)	(22.86 cm)	(135.8 cm)

JOHNSON 'TRIP-SKIP' Regd.

(BRITISH PATENT Nos. 853,544 & 914,955)

DUMPER/CRANE SKIP

Combined operation—Trip-Skip gives maximum flexibility to site organisation. A simple sequence can be established whereby the dumper and crane work as a team—neither waiting for the other. Trip-Skip is designed to facilitate quick and easy

handling by one banksman only. No other labour is necessary and the dumper driver does not leave his seat nor require any assistance in picking up or depositing skips.

CAPACITY - (WET LEVEL) 16 cu ft (0.453 cu/m) NET WEIGHT (lb) 405 (183.70 kg) FOR ONE TON DUMPER

Operational sequence when handling concrete

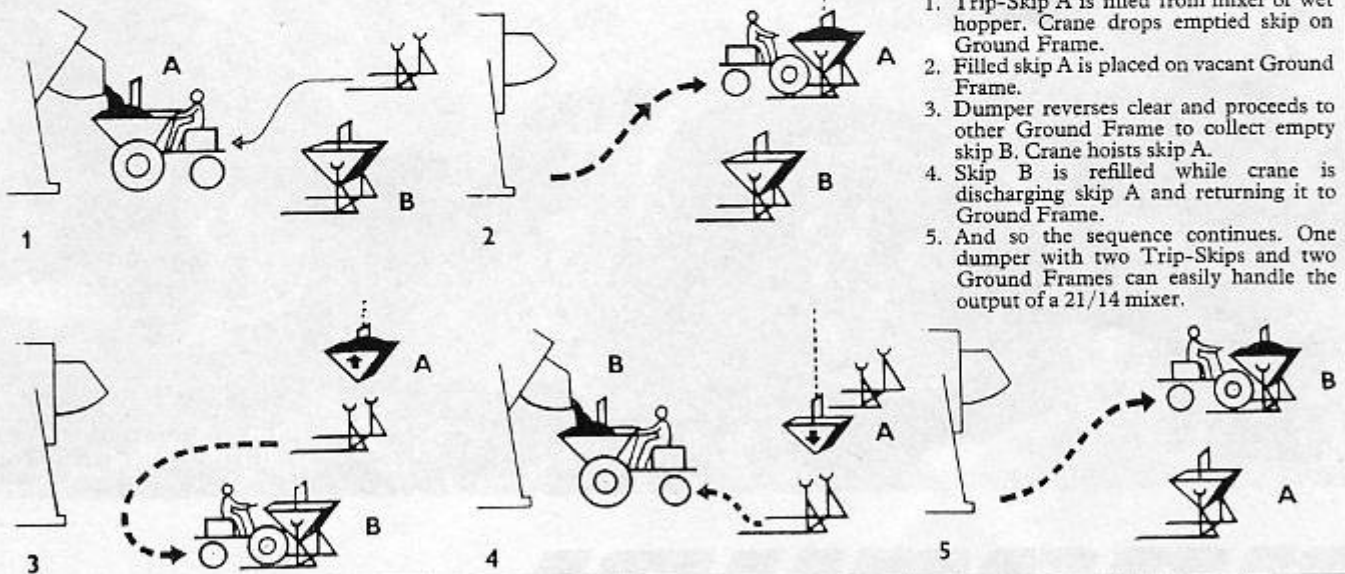
This simple sequence illustrates the employment of Trip-Skip when the mixing position is outside the working radius of the crane, e.g. when the site is too congested and when crane tracks

cannot be extended owing to levels or distances involved—when central mixing must be employed. One or more dumpers can serve a multiplicity of working points simultaneously.



KEY TO DIAGRAM

1. Trip-Skip A is filled from mixer or wet hopper. Crane drops emptied skip on Ground Frame.
2. Filled skip A is placed on vacant Ground Frame.
3. Dumper reverses clear and proceeds to other Ground Frame to collect empty skip B. Crane hoists skip A.
4. Skip B is refilled while crane is discharging skip A and returning it to Ground Frame.
5. And so the sequence continues. One dumper with two Trip-Skips and two Ground Frames can easily handle the output of a 21/14 mixer.



JOHNSON **MACHINERY**

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In accordance with our policy of continual improvement, we reserve the right to modify these machines without notice.

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