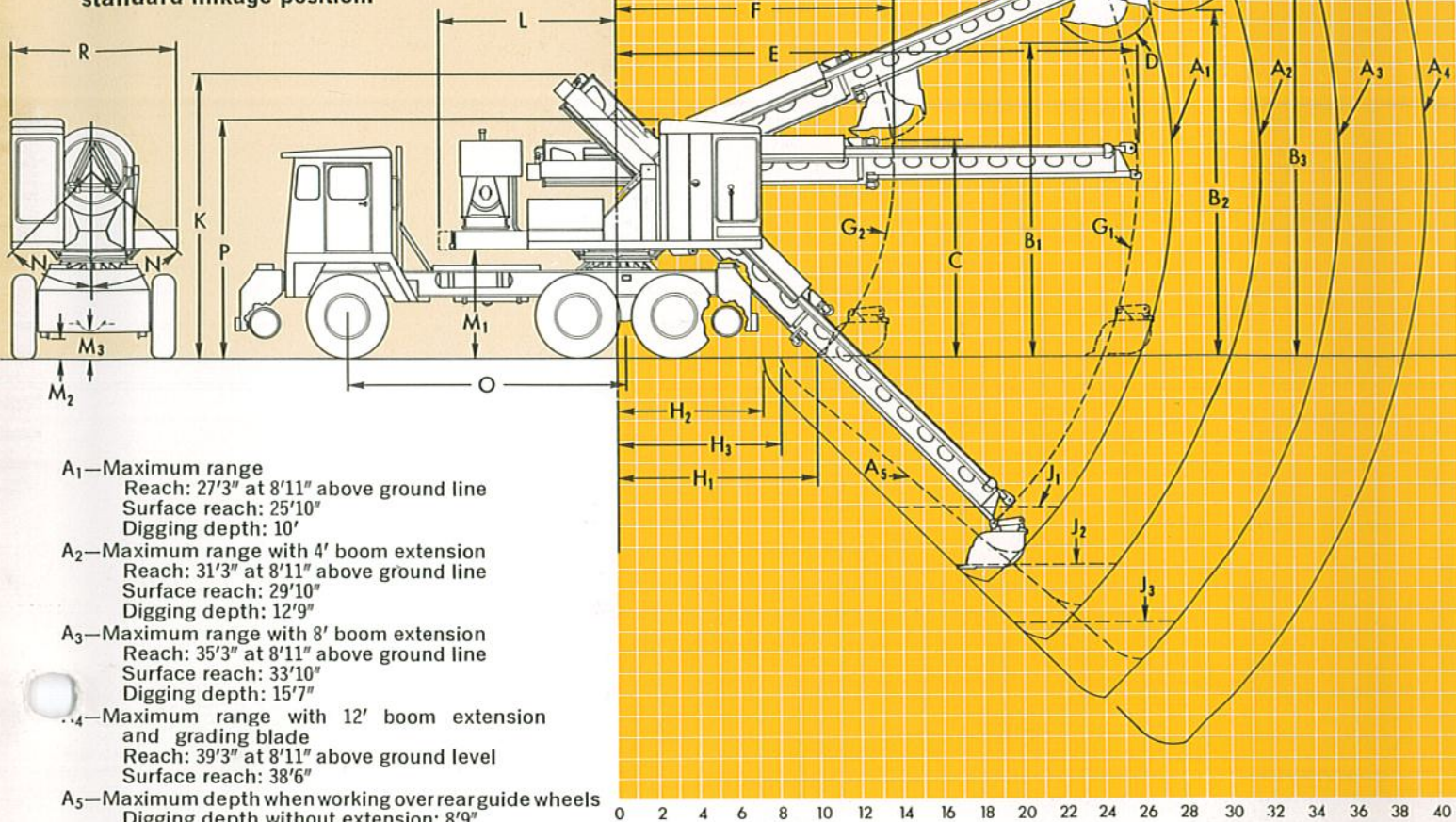


Shown on 6 x 6 railroad carrier with railroad guide wheels, 36" bucket, standard linkage position.



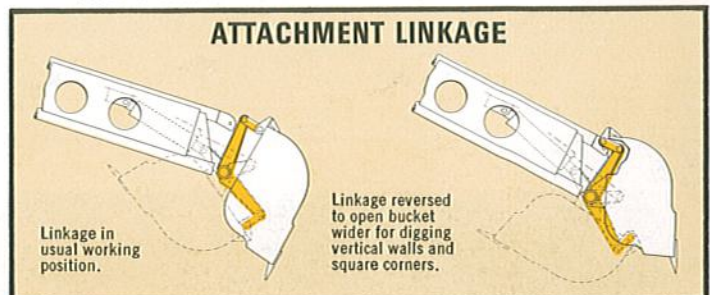
- A₁—Maximum range
Reach: 27'3" at 8'11" above ground line
Surface reach: 25'10"
Digging depth: 10'
- A₂—Maximum range with 4' boom extension
Reach: 31'3" at 8'11" above ground line
Surface reach: 29'10"
Digging depth: 12'9"
- A₃—Maximum range with 8' boom extension
Reach: 35'3" at 8'11" above ground line
Surface reach: 33'10"
Digging depth: 15'7"
- A₄—Maximum range with 12' boom extension and grading blade
Reach: 39'3" at 8'11" above ground level
Surface reach: 38'6"
- A₅—Maximum depth when working over rear guide wheels
Digging depth without extension: 8'9"
Digging depth with 4' boom extension: 11'4"
Digging depth with 8' boom extension: 13'11"
- B₁—Loading height, boom extended: 14'8"
- B₂—Loading height, boom extended, with 4' boom extension: 16'2"
- B₃—Loading height, boom extended, with 8' boom extension: 17'8"
- C —Loading height, boom retracted: 10'3"
- D —Bucket wrist action: 116°
- E —Boom length, extended: 25'6"
- F —Boom length, retracted: 13'6"
- G₁—Attachment pivot point, boom extended
- G₂—Attachment pivot point, boom retracted
- H₁—Minimum reach for surface clean-up (bucket level at ground line, boom retracted): 10'
- H₂—Minimum surface reach (digging): 7'1"
- H₃—Minimum surface reach (digging), when working over rear guide wheels: 8'
- J₁—8' level bottom, 7' 1" deep (5'11" deep when working over rear guide wheels)
- J₂—8' of level bottom, 9'11" deep with 4' boom extension (8'6" deep when working over rear guide wheels)
- J₃—8' of level bottom, 12'8" deep with 8' boom extension (11'2" deep when working over rear guide wheels)
- K —Maximum working height: 13'6"
- L —Tail swing: 8'9"
- M₁—Upperstructure ground clearance: 5'2"
- M₂—Carrier ground clearance (guide wheels raised): 11"
- M₃—Carrier ground clearance (without front or rear guide wheels): 15'¼"
- N —Boom tilt: 45° each way, total 90°
- O —Wheel base: 162"
- P —Travel height: 11'6"
- R —Overall width: 8'

- Boom raise and lower
Above ground level 22°
Below ground level (maximum) 44°
Total arc 66°
(Boom lowers to 39° below ground level when working over rear guide wheels.)
- Swing Continuous
- Digging range 270°
- Dumping range 360°
- Travel position (boom in rack, with bucket)
Overall length 26'7"
(without front guide wheels) 24'8"
Overall width 8'
Overall height 11'6"
- Clearance between cross-braces, at 3' below ground level, for shored trench: 6' minimum for working with boom full down.

LIFTING CAPACITIES (Without Bucket)

- At 13'6" radius 6,750 lbs.
- At 17' radius 4,660 lbs.
- At 21' radius 3,350 lbs.
- At 25'6" radius 2,450 lbs.

ATTACHMENT LINKAGE



Gradall® G-600 / RAILROAD

UPPERSTRUCTURE ENGINE

International UC-263 gasoline, 82 H.P. at 2400 R.P.M.
Fuel tank capacity 40 gal.
Electric starter, generator, air cleaner, oil filter.

UPPERSTRUCTURE CAB

All-weather cab with full vision safety glass windows;
front window removable, stored in cab.

UPPERSTRUCTURE CONTROLS

3 levers, 2 pairs of pedals for all boom and upper-
structure movements. Dead-man type are self-
centering for safety (when controls are released,
machine movements stop automatically). Pump
clutch lever, horn. Engine controls: ignition switch,
starter button, choke, throttle. Engine gauges for oil
pressure, water temperature, ammeter, hour meter.

HYDRAULIC SYSTEM

Three-unit tandem pump, 105 G.P.M. at 1600 R.P.M.,
flange-mounted to engine with clutch and reduction
gear.

Five cylinders:

- 2 hoist: 5" I.D., 2½" rod
- 1 boom: 6" I.D., double-end 3", 4" rod
- 1 tilt: 4" I.D., 2" rod
- 1 tool: 4½" I.D., 3" rod

One 16 H.P. hydraulic motor: swing
Operating pressure 1350 and 1500 P.S.I.
Oil capacity, system 100 gal.
Pump relief valves on all circuits, hose relief valves on
hoist, swing, tilt and tool circuits prevent overloading.

WEIGHT

Upperstructure	22,900 lbs.
6 x 6 carrier	19,360 lbs.
Total (without bucket)	42,260 lbs.

CARRIER

6 x 6 (Warner & Swasey, Duplex Div.)
Wheel base 162"
Gross vehicle weight 69,000 lbs.

CARRIER ENGINE

Chrysler HT-413 gasoline, 214 H.P. at 4,000 R.P.M., 374
ft. lbs. torque at 2,000 R.P.M.
Fin and tube type radiator.
Electric fuel pump, 50-gal. fuel tank.
Heavy-duty starter and distributor, 55 amp. alternator,
12-volt heavy-duty battery (90 amp.), voltage regulator.

TRANSMISSION

Fuller 5W43, 5 speeds forward, 1 reverse:
1—5.8 M.P.H.
2—10 M.P.H.
3—20 M.P.H.
4—33 M.P.H.
5—46 M.P.H.

Timken T-76 transfer case, direct and 2-1 underdrive.
Borg and Beck single-plate dry type 14" clutch, Spicer
needle bearing universal joints.

AXLES

Front: Timken F-3202, 12,000 lbs., chain snubbers.
Rear: tandem Timken SUD, 55,000 lbs., 10.14-1 reduc-
tion.

TIRES

14:00 x 20 18-ply, single front and single rear.

SUSPENSION

Front: 13-leaf main spring, 41¾" x 3". 4-leaf auxiliary
spring, 31".
Rear: Cast steel walking beam, 8" oscillation.

BRAKES

Bendix-Westinghouse, six-wheel air with foot-pedal
lock. Emergency brake (Timken DLM) on transfer case.

STEERING

Ross, hydraulic power steering.

STANDARD EQUIPMENT

Sealed beam head lamps, tail lamps, directional
signals, marker lights, instrument lamps, tool kit,
wheel and axle wrenches, rear view mirror, air wiper,
sun visor, carrier engine tachometer.

OPTIONAL EQUIPMENT

Diesel engine in upperstructure (AC 3400, Caterpillar
D-320, Cummins JNR100CL, G.M. 3031C, or Inter-
national UD-282), high boom cradle, heater and de-
froster for upperstructure cab, Diesel engine in carrier
(G.M. 471N or Cummins C-160), heater and defroster
for carrier cab. (Additional weight, approx. 500 lbs.)

Hydraulic remote control: carrier powered by upper-
structure engine through hydraulic motor and transfer
case. Hydraulic steering. Speed selection, propel,
steering, and air brake levers in upperstructure cab.
(Carrier engine off when hydraulic remote in use. Ad-
ditional weight, approx. 900 lbs.)

Railroad guide wheels: heavy-duty steel wheels, front
and rear, pneumatically raised or lowered. Front
wheels support all of front axle weight, rear wheels
support 40% of rear axle weight, leaving 60% on tires
for driving and braking traction. (Additional weight,
approx. 5000 lbs.)

QUICK-CHANGE ATTACHMENTS

Buckets fabricated of steel plate, with reversible
linkage. T-steel cutting edges, abrasion-resistant wear
strips, heat-treated operating shafts. Standard attach-
ments available for wide range of applications:
excavating, trenching, pavement removal, ripping,
grading, material handling, etc.

Fluid capacities in U. S. gallons.

Specifications subject to change without notice.

THE PROVEN LINE IN HYDRAULIC DESIGN



THE WARNER & SWASEY COMPANY
CONSTRUCTION EQUIPMENT DIVISION
CLEVELAND, OHIO 44103

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