



DIMENSIONS

Height to -	
A. Top of ROPS cab.....	109.7" (2785 mm)
B. Wheelbase.....	92.5" (2350 mm)
C. Ground clearance.....	14" (360 mm)
D. Angle of departure.....	35°
Width -	
Overall* w/o bucket.....	77.9" (1978 mm)
Centerline tread.....	60" (1526 mm)
Turning radius* - outside.....	162.7" (4132 mm)
Turning angle -	
From center.....	41°
Total angle.....	82°
Rear axle oscillation, total.....	24°

NOTE: *Dimensions taken with 405/70 R20 tires. Additional dimensions on pages 3 & 4.

WEIGHT ADJUSTMENTS

Select Options	Weight Adjustment	Tipping Load Adjustment Straight	Tipping Load Adjustment 40° Turn
Optional 396 lb (180 kg) counterweight.....	396 lb (180 kg)	497 lb (226 kg)	391 lb (177 kg)

NOTE: **Unit equipped with Z-Bar loader arms, 1.31 yd³ (1.0 m³) general purpose pin on bucket w/bolt-on edge, 405/70 R20 tires, ROPS cab with heater, standard counterweight, standard batteries, front and rear fenders, full fuel and 165 lb (75 kg) operator. Adjust select options from rated weight.

PERFORMANCE DATA

21D Z-Bar	1.44 yd ³ GP (1.10 m ³) Bucket w/Bolt-on Edge	1.44 yd ³ GP (1.10 m ³) Bucket w/Teeth & Segments
SAE bucket capacity – struck	1.20 yd ³ (0.92 m ³)	1.20 yd ³ (0.92 m ³)
Heaped.....	1.44 yd ³ (1.10 m ³)	1.44 yd ³ (1.10 m ³)
Bucket width – outside	82.7" (2100 mm)	82.7" (2100 mm)
Bucket weight.....	1,069 lb (485 kg)	981 lb (445 kg)
Operating height – fully raised w/spillguard.....	167.5" (4254 mm)	167.5" (4254 mm)
E. Hinge pin height – fully raised	131.7" (3344 mm)	131.7" (3344 mm)
F. Overall length – bucket level on ground	217.8" (5531 mm)	219.6" (5578 mm)
G. Dump angle – fully raised.....	42°	42°
Dump height – fully raised, 45° dump	104.7" (2659 mm)	103.5" (2629 mm)
H. Bucket reach – fully raised, 45° dump	35.0" (889 mm)	37.0" (941 mm)
J. Bucket reach – 7'0" (2.13 m) height, 45° dump	49.3" (1253 mm)	50.6" (1285 mm)
K. Operating load – SAE	3,864 lb (1753 kg)	3,843 lb (1743 kg)
Maximum material density – SAE.....	2,686 lb/yd ³ (1593 kg/m ³)	2,671 lb/yd ³ (1585 kg/m ³)
Tipping load – SAE		
Straight.....	9,496 lb (4307 kg)	9,426 lb (4275 kg)
40° turn.....	7,728 lb (3506 kg)	7,686 lb (3486 kg)
Lift capacity –		
Full height.....	7,402 lb (3357 kg)	7,491 lb (3398 kg)
Maximum reach	9,393 lb (4261 kg)	9,480 lb (4300 kg)
Ground	12,571 lb (5702 kg)	12,642 lb (5734 kg)
Breakout force w/tilt cylinder	15,921 lb (7222 kg)	16,904 lb (7667 kg)
Maximum rollback –		
Ground	48°	47°
Carry position	52°	52°
@ Maximum reach.....	60°	60°
@ Full height.....	59°	59°
Dig depth.....	3.5" (88 mm)	2.9" (73 mm)
Maximum grading angle w/bucket – back dragging.....	62°	63°
L. Loader clearance circle.....	360.6" (9158 mm)	361.4" (9179 mm)

1.31 yd³ GP (1.00 m³) Bucket w/Bolt-on Edge	1.31 yd³ GP (1.00 m³) Bucket w/Teeth & Segments
1.10 yd ³ (0.84 m ³)	1.10 yd ³ (0.84 m ³)
1.31 yd ³ (1.00 m ³)	1.31 yd ³ (1.00 m ³)
82.7" (2100 mm)	82.7" (2100 mm)
1,058 lb (480 kg)	970 lb (440 kg)
167.5" (4254 mm)	167.5" (4254 mm)
131.7" (3344 mm)	131.7" (3344 mm)
217.8" (5531 mm)	219.6" (5578 mm)
42°	42°
104.7" (2659 mm)	103.5" (2629 mm)
35.0" (889 mm)	37.0" (941 mm)
49.3" (1253 mm)	50.6" (1285 mm)
3,887 lb (1763 kg)	3,929 lb (1782 kg)
2,972 lb/yd ³ (1763 kg/m ³)	3,004 lb/yd ³ (1782 kg/m ³)
9,550 lb (4332 kg)	9,633 lb (4370 kg)
7,775 lb (3527 kg)	7,858 lb (3564 kg)
7,401 lb (3357 kg)	7,491 lb (3398 kg)
9,410 lb (4268 kg)	9,498 lb (4308 kg)
12,639 lb (5733 kg)	12,712 lb (5766 kg)
15,955 lb (7237 kg)	16,934 lb (7681 kg)
48°	47°
52°	52°
60°	60°
59°	59°
3.5" (88 mm)	2.9" (73 mm)
62°	63°
360.6" (9158 mm)	361.4" (9179 mm)

INSTRUMENTATION

Electronic Information Center
Displays/Gauges –
Speedometer
Fuel level
Hourmeter
Indicator lights –
Hydraulic oil temperature
Voltmeter
Work lights
Loader control lockout
Brake pressure
Master indicator
Parking brake
Air conditioning*
Air filter restriction
Direct selected F/N/R
Gear selected
Gear position
Turn signal indicator
Engine coolant temperature
Engine oil pressure
Audible alarms –
Caution alarm
Critical alarm
Backup alarm
Horn

NOTE: *If equipped with option.

OPERATOR ENVIRONMENT

Cab w/heat
Key start
Articulated power steering
w/tilt column
Fully adjustable, cloth
suspension seat
Foot throttle
Single lever electronic speed shift
control, F/N/R switch in loader
control handle
Cup holder
Retractable seat belt
Storage tray
Sun screen front & rear
Defroster
Sliding side window
Dome light
Wipers rear & front
12-volt auxiliary power
Lighter, 12-volt
External rearview mirrors
R.H. steps
Coat hook

LOADER

Z-bar loader linkage
Single control for lift and tilt
Positive hold float
Automatic return-to-dig
Bucket position indicator on bucket
Hydraulic attachment coupler

CYCLE TIME

Raise w/rated bucket load..... 6.6 sec
Dump w/rated bucket load
Z-Bar 1.1 sec
Lower (empty)
Float down..... 3.5 sec

SERVICE CAPACITIES

Fuel tank..... 26 gal (100 L)
Hydraulic system
Total 18.2 gal (70 L)
Reservoir 10.5 gal (40 L)
Front and rear axle
Total axle (each) 4 qt (3.7 L)
Engine oil w/filter 8 qt (7.5 L)
Cooling system
-36° F (-38° C) 3.4 gal (13 L)

OPERATING WEIGHTS

Z-Bar

Unit equipped with ROPS cab with
heater, standard counterweight,
405/70 R20 Dunlop tires, front
and rear fenders, 1.31 yd³ (1.0 m³)
general purpose loader bucket
w/edge, full fuel, 165 lb (75 kg)
operator 12,896 lb (5849 kg)

STANDARD EQUIPMENT

OPERATOR'S ENVIRONMENT

See page 5

ENGINE

Perkins 704-30

Fuel filter w/water trap

Dual element air cleaner

65 amp alternator

(1) 750 CCA 12-volt battery

Liquid-cooled radiator

Non spark-arresting muffler

LOADER

See page 5

DRIVETRAIN

4-wheel drive

Hydrostatic transmission

Single lever electronic speed shift control, F/N/R switch in loader control handle

Outboard planetary axles

Conventional differentials

Transmission oil cooler

Hydraulic wet disc brakes

Mechanical parking brake

HYDRAULICS

3-spool loader control valve

(8) Diagnostic quick couplers

Secondary steering

OTHER

Front and rear fenders

Lights –

(2) Front driving headlights

(high/low beam)

(2) Front flood

(2) Stop/tail lights and backup light

(2) Rear flood

Front and rear turn signal/flash

Drawbar hitch

Articulation locking bar

Lift and tie-down points – front/rear

Backup alarm

OPTIONAL EQUIPMENT

OPERATOR'S COMPARTMENT

Cab air conditioning w/heater

Radio

Rotating beacon

Limited slip rear axle

LOADER

Attachment auxiliary hydraulics

Bucket position indicator

Buckets (see page 3 & 4)

HYDRAULICS

Auxiliary hydraulics

Load holding control device

TIRES

405/70 R20 EM SPT9

405/75 R20 XM27

14.5 x 20 MPT E91

NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

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IMPORTANT: Case Corporation reserves the right to change these specifications without notice and without incurring any obligation relating to such change.

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