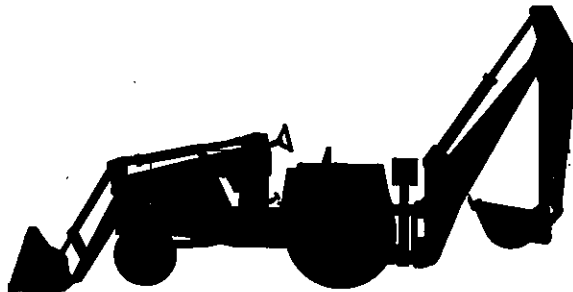


918 BACKHOE LOADER

PLSM-6-Rev.1-Sept.76-1



The 918, built big for large scale production. And, large scale production means large scale profit. The 918 specializes in both, going through tough jobs fast to increase your profit picture.

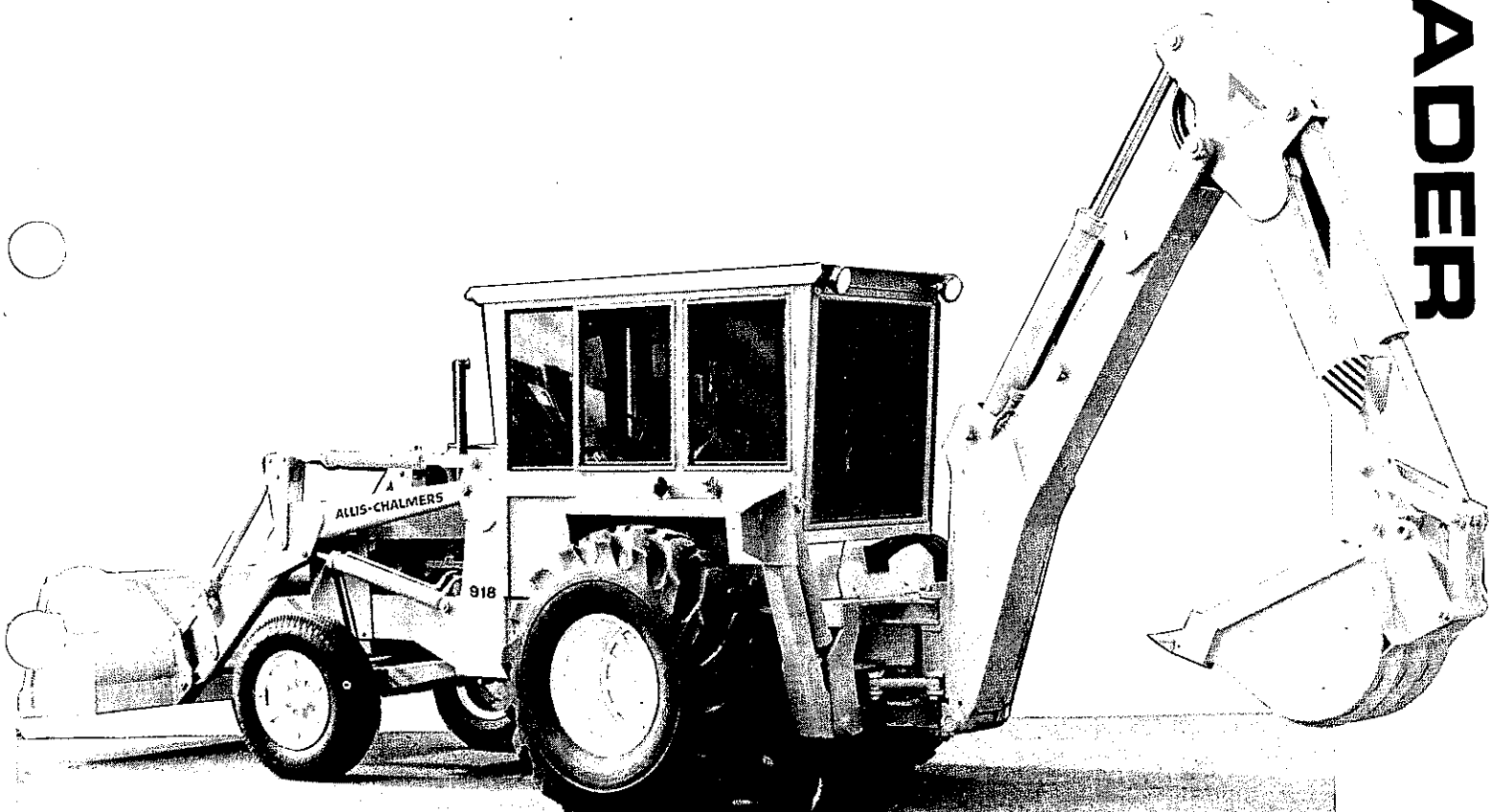
There's no more production worries with the 918. The backhoe's 24'7" reach from the rear axle means less machine positioning, and less time wasted.

And the 918 tears into loading jobs with a 1½ yd. loader bucket, backed by 10,000 lbs. loader breakout force.

There's more to the 918 than meets the eye. Features like the regenerative boom circuit, dual hydraulic pumps, automatic bucket leveler and hydrostatic steering all combine to help fatten your profitbook by increasing production.

- 15,700 LBS. DIGGING FORCE
- ½ CU. YD. BACKHOE BUCKET
- 18'3" DIGGING DEPTH
- 6500 LBS. LOADER LIFT CAPACITY

BACKHOE
LOADER





ENGINE

Make — Allis-Chalmers	Diesel
Model	2800
Maximum horsepower	84
Rated RPM	2200
Net Torque, ft.-lbs.	225
RPM at Maximum Torque	1475
Number of Cylinders	6
Bore and Stroke	3.88" x 4.25"
Displacement, cu. in.	301
Air Cleaner	Dry type

Metrics

31.1 kg/m
98.42 mm x 107.9 mm
4.9 liters

ELECTRICAL SYSTEM

Voltage	12
Alternator amps	32
Ground	Negative
Battery amp-hour rating	190

TORQUE CONVERTER — Single stage. Torque multiplication at stall of 2.15 to 1.

TRANSMISSION — Constant mesh helical gear; 4 speeds forward, 4 reverse. Shuttle Clutch reversing.

TRAVEL SPEEDS (MPH) (23.1 — 26 rear tires)

Gear	Forward	Reverse	
1.	0-3.07 mph	0-4.9 kph	0-3.54 mph
2.	0-4.90 mph	0-7.9 kph	0-5.68 mph
3.	0-7.11 mph	0-11.4 kph	0-8.11 mph
4.	0-14.82 mph	0-23.8 kph	0-15.47 mph

HYDRAULIC SYSTEM (Loader Backhoe)

Capacity	38 gals.	143.6 liters
Pump capacity	38 gpm, 2000 psi	143.6 liters, 140.6 kg/sq cm
	@ 2200 engine rpm	@ 2200 rpm

STEERING — Hydrostatic

Turning radius with brake	14' 1½"	4305 mm
Turning radius without brake	14' 7½"	4458 mm

BRAKES — Mechanical, band and disc, individual pedal operation. 121.2 sq. in. total brake area. Brake latch for parking.

781.7 sq cm

TIRES

Standard — Front	9.00 — 20 (10 ply)
Rear	23.1 — 26 (8 ply)
Optional — Front	11.00 — 16 (12 ply)
Rear	18.4 — 26 (10 ply)

AXLES

Front.....	Heavy-duty, non-adjustable		
Tread width center to center.....	67"		1702 mm
	*23.1 — 26		*18.4 — 26
Outside tire width.....	76¼"	2241 mm	78¼"
			1988 mm
Rear.....			
Tread width center to center.....	72¼"		1835 mm
Outside tire width.....	95¼"	2419 mm	90½"
			2299 mm

Fuel	38 gals.	143.6 liters
Cooling System	18 qts.	17.0 liters
Transmission, including final drive	43 qts.	40.7 liters
Engine crankcase, with filter	11 qts.	10.4 liters
Hydraulic System	34 qts.	32.2 liters

DIMENSIONS

Transport length.....	27' 5½"	8369 mm	
Wheelbase.....	105¾"	2686 mm	
	*23.1 — 26	*18.4 — 26	
Travel height.....	12' 8¼"	3867 mm	
Ground Clearance.....	16½"	419.1 mm	
Overall width.....	95¼"	2419 mm	
(stabilizers raised)		93"	2362 mm

*Indicates tire size

Specifications to IEMC standards where applicable.

LOADER

Size	96" wide, 1½ yd.	80", 1¼ yd. (Optional)
	2438 mm wide, 1.14 cu/m	1981 mm, .95 cu/m (Optional)
Lift capacity to full height	6,500 lbs.	2955 kg
Breakout force	10,000 lbs.	4536 kg
	*23.1 — 26	*18.4 — 26

Metrics

Maximum height to bucket hinge pin	11' 2¾"	3413 mm	11' 1½"	3391 mm
Reach at maximum height	3' 9½"	1156 mm	3' 9"	1143 mm
Clearance, bucket dumped, 45°	8' 9"	2667 mm	8' 8"	2641 mm
Maximum dumping angle	52°		51°	
Reach, bucket on ground from front axle	7'	2133 mm	7'	2133 mm
Bucket rollback	34°		36°	
Digging depth below grade	4'	101.6 mm	5¼"	133.3 mm
Operating times (seconds)				
Raise to full height	6.2			
Lower	3.1			
Bucket dump	4.2			
Bucket dump with regeneration	2.5			
Bucket rollback	3.0			

Hydraulic Cylinders —

double acting (inches)	Bore	Stroke	Rod Dia.
Bucket (two).....3.5"	88.9 mm	26 $\frac{3}{4}$ " 682.6 mm	2" 50.8 mm
Lift (two).....3.5"	88.9 mm	31" 787.4 mm	2" 50.8 mm

BACKHOE

	*23.1 — 26	*18.0 — 26
Maximum digging depth	18' 0"	5486 mm
IEMC digging depth	17' 6"	5334 mm
Clearance height	11' 7¾"	3540 mm
Loading height	9' 10¼"	3004 mm
Loading reach	9' 8½"	2959 mm
Buckets	24' — 9.6 cu. ft.	30" — 12.1 cu. ft.
	609.6 mm 272 lit	762.0 mm 342.5 lit
Digging Force		
Bucket cylinder	15,752 lbs.	7160 kg
Dipper cylinder	9,831 lbs.	4469 kg
Reach from swing axis	20' 6½"	6261 mm
Reach from rear axle	24' 7"	7493 mm

Stabilizer Spread

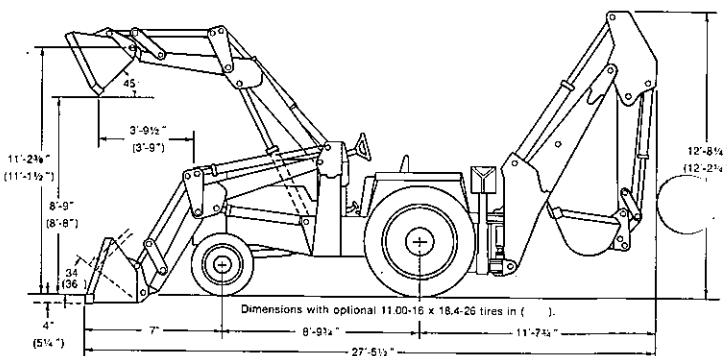
Operating position (center to center)	10' 11½"	3340 mm
Transport position	7' 9"	2362 mm
Swing arc	180°	
Bucket rotation, uninterrupted	185°	

Hydraulic Cylinders —

double acting (inches)	Bore		Stroke	Rod Dia.
Swing (two).....4"	101.6 mm	11"	279.4 mm	2" 50.8 mm
Boom (one).....5½"	133.3 mm	37"	939.8 mm	2½" 63.5 mm
Dipper (one).....5½"	133.3 mm	37"	939.8 mm	2½" 63.5 mm
Bucket (one).....4½"	114.3 mm	34"	863.6 mm	2½" 63.5 mm
Stabilizer (two).....4"	101.6 mm	21¾"	552 mm	2" 50.8 mm

WEIGHT (approx.)

Front axle	4,210 lbs.	1914 kg
Rear axle	14,290 lbs.	6495 kg
Total	18,500 lbs.	8409 kg



The information contained herein is general in nature and is not intended for specific application purposes. Allis-Chalmers reserves the right to make changes in specifications shown herein, add improvements, or discontinue manufacture at any time without notice or obligation.



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