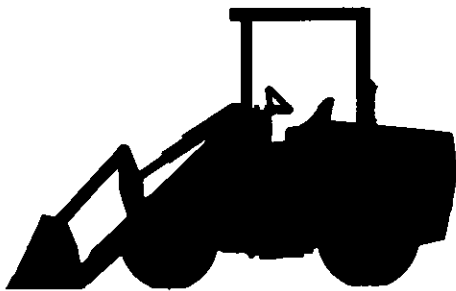


840B WHEEL LOADER



- 80 degree articulation
- 4-Wheel, Torque Proportional Drive
- Exclusive Double Bucket Roll Back
- High Lift and Carry Capacities

The 840B WHEEL LOADER from Allis-Chalmers Industrial Tractor is packaged for production profitability. With 13,300 lbs. of breakout force and 9,000 lbs. of hydraulic lifting capacity, the 840B is built to speed your job production. And double bucket roll back which fills the bucket faster and reduces spillage, plus articulation which shortens cycle times and speeds your loading process even more.

Add to this: an 85 h.p. direct injection diesel engine, with full power shift, torque converter and torque proportioning differentials. First rate? You bet. The Allis-Chalmers 840B Wheel Loader.

WHEEL LOADER





840B SPECIFICATIONS

DRIVE TRAIN

Engine

Make, Model	A-C Model 2800	
Maximum Gross Horsepower	85 @ 2500 RPM	
Net Horsepower	80 @ 2500 RPM	
Maximum Torque, ft-lbs.	225 @ 1400 RPM	3.37.6 kg.cm. @ 1400 RPM
Number of Cylinders	6	
Bore & Stroke	3.875 X 4.25	98.4 X 107.9 mm
Piston Displacement	301 Cu. In.	4932.5 Liters
Compression Ratio	16.25:1	
Operating Speed Range	700 to 2800 RPM	
Main & Connecting Rod Bearing	Steel backed, aluminum tin faced	
Main Bearings		
Number	7	
Diameter	2.750 nominal	69.85 mm
Length	2.20	55.88 mm
Engine Rated Speed	2500 RPM	
Lubrication	Pressure Type, Crank Shaft Driven Gear Pump	
Cooling	70 GPM Centrifugal Pump	264.6 Liters/Min.
Fuel Injection Pump	Distributor Type	
Air Cleaner	Dry Type	
Electrical System	12 V w/55 amp Alternator, 95 amp/hr. Battery, Neg.	
Starting	12 V Electric	
Transmission	3 Speed Full Power Shift	
Travel Speeds (mph)		
1 gear	0-4.8	0-7.4 km/hr
2 gear	0-8.6	0-13.8 km/hr
3 gear	0-18.7	0-30.1 km/hr

Torque Converter

Multiplication Ratio	3.1:1
Differentials	Torque Proportioning
Axles	Planetary Type
Oscillation	11° each direction
Articulation	40° right or left
Axle Ratio	20.45 to 1

Brakes-Parking

Mechanical on drive shaft

Brakes-Service

Hydraulic Power Assist 16" Dia. X 3.5" wide

Steering

Full Power, Constant Speed

Turning Radius

14'10" 4521 mm

Hydraulic System

Steering & Brake System Gear Type 46.2 Liters/Min. @ 1500 PSI

Loader Pump Flow 30 GPM @ 2500 RPM and 2250 PSI + 100 PSI @ 2500 RPM

and 2250 PSI + 100 PSI @ 2500 RPM

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Metrics

Metrics

Ground Clearance	15"	395 mm
Tread Gauge	67"	1702 mm
Maximum Grading Angle-Bucket	77"	1.146

OPERATIONAL SPECIFICATIONS

Operating Weight	16,750#	76045 kg
Tipping Load-SAE Rating		
40° Articulation	9,275#	4210.8 kg
Straight	11,150#	5062.1 kg
35°	9,895#	4401.5 kg
Operating Load-SAE Rating	4,635#	2104.3 kg
Hydraulic Lift Capacity		
at 15"	15,500#	7045 kg
Breakout Force	13,300#	6045 kg
Raise Time	6.5 sec.	
Lower Time	5.0 sec.	
Dump Time	2.0 sec.	
Loader Clearance Circle	215"	5461 mm

MANUFACTURERS SPECIFICATIONS

Capacities		
Hydraulic Loader	30 gal.	225 lbs. 113.4 liters 102.3 kg
Cooling System	6 gal.	49.8 lbs. 22.6 liters 22.7 kg
Fuel Tank	30 gal.	214 lbs. 113.4 liters 97.5 kg
Engine Lubrication	16 qts.	30 lbs. 28.3 liters 13.7 kg
Transmission	20 qts.	37.5 lbs. 18.8 liters 17.0 kg
Differential	11 qts.	20.6 lbs. 10.4 liters 9.4 kg
Planetary Ends	2 qts.	3.7 lbs. 1.9 liters 1.7 kg

Buckets Available

1 1/4 Yd. (.95 liter) 86" (2184 mm) Wide 10 Teeth Optional	
1 1/2 Yd. (1.14 liter) 88" (2235 mm) Wide 10 Teeth Optional	
1 3/4 Yd. (1.34 liter) 90" (2286 mm) Wide Light Material Bucket	

VEHICLE WEIGHT ADJUSTMENTS

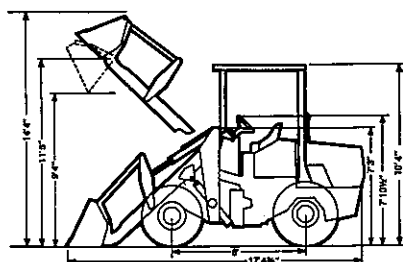
Tires w/o Ballast 16.9-24	-375#	170.2 kg
14.00-24	-110#	49.9 kg
Ballast 75% CaCl ₂ 16.9-24	1,230#	558.4 kg
Rear Wheels only CaCl ₂ 14.00-24	970#	440.4 kg
Rear Wheels only CaCl ₂ 15.5-25	1000#	454.0 kg
Bucket 1.25 Cu. Yd.	-100#	45.4 kg
Bucket 1.75 Cu. Yd.	+90#	41.8 kg
Rear Counterweight	-1200#	544.8 kg
ROPS Cab	+100#	45.4 kg

TIPPING LOAD ADJUSTMENTS

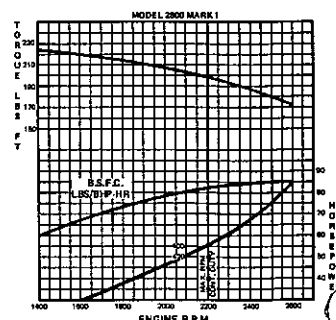
	0°	Articulation Angle 35°	40°
w/o Counterweight*	-2000#	-1635#	-1570#
	908 kg	749 kg	7.218 kg
(Tires w/o Ballast) 16.9-24	-230#	-215#	-205#
	104.4 kg	97.6 kg	93 kg
14.00-24	-60#	-55#	-50#
	27.2 kg	25 kg	22.7 kg
Ballast Rear Wheels only 16.9-24	+1510#	+1355#	+1315#
	685.5 kg	615.2 kg	597 kg
14.00-24	+1190#	+1070#	+1040#
	540.3 kg	485.8 kg	472.2 kg
15.5-25	+1230#	+1115#	+1070#
	558.4 kg	506.2 kg	485.8 kg
Bucket 1.75 Cu. Yd.	-90#	-90#	-90#
	40.9 kg	40.9 kg	40.9 kg
1.25 Cu. Yd.	+100#	+100#	+100#
	45.4 kg	45.4 kg	45.4 kg
ROPS Cab	+75#	+70#	+70#
	34.1 kg	31.8 kg	31.8 kg

*Counterweight is not approved if Ballast is used in tires.

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, and improvements, or discontinue manufacture at any time without notice or obligation.



PERFORMANCE CURVE Gross Horsepower, torque and fuel consumption represent performance at S.A.E. standard conditions of 500 feet altitude (152.4m), 29.83 inches mercury (746 mm), and 85°F (29°C) intake air temperature with No. 2 Diesel Fuel, B.S.F.C.-lbs. per BHP-Hr.



ALLIS-CHALMERS INDUSTRIAL TRACTOR EQUIPMENT
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