

Broderon 8.5 ton Carrydeck IC 80-1D Specifications

General:	Standard Drive Axle	Optional Drive Steer Axle
Weight: IC-80-1D	14,230 lbs.	14,530 lbs.
IC-80-2D	14,530 lbs.	14,830 lbs.
Travel Speeds (Calculated):		
Gear: First	5.4	3.0
Second	11.0	6.5
Third	20.0	12.0
Fourth	N/A	20.0
Gradeability:	43%	71%
Drawbar Pull:		
Gear	Pounds	Pounds
First	7,050*	11,900*
Second	3,450	5,820*
Third	1,880	3,170
Fourth	N/A	1,880
Turning Radius:		
(C/L of Outside Steering Wheel):	14'8"	10'2"
Aisle Width for 90° Turn:	11'9"	9'9"

* Wheels will spin before these values are reached.

Engine:	Standard	Optional	Optional	Optional
Make	Continental	John Deere	Perkins	Cummins
Model	TM27	4.239	D4.203	4B3.9
No. of Cyl.	4	4	4	4
Displacement	165 C.I.D.	239 C.I.D.	203 C.I.D.	239 C.I.D.
HP at Governed Speed	64	80	63	76

Electrical:

12 Volt System

Lighting Package:

One Pair Headlights with Hi and Low Beams, Back-up Lights, Integral Tail, Brake and Turn Signals and Front turn Signals

Instrument Package:

Fuel, Ammeter, Oil Pressure, Water Temperature, Converter Oil Temperature Gauges and Hourmeter

Back-Up Alarm

Provides pulsating sound when transmission is in reverse.

Transmission:

Make: Borg Warner

Model: 72T T18

Type: Reversing Gearbox and Manual Shift Three Speed Gearbox.*
Equipped with Torque Converter and Transmission Oil Cooler.

Gear Ratio:	Forward	Reverse
First	6.324:1	6.956:1
Second	3.092:1	3.401:1
Third	1.686:1	1.855:1
Fourth*	1:1	1:1

Torque Converter Has Stall Ratio of 2.15:1

* 4-speed gearbox only available with 4-wheel steer option.

Axles:	Standard	Optional
Drive Axle:		
Make	Rockwell	Hurth
Model	F-146	272A
Gear Ratio	7.2:1	11.98:1
Location	Front	Front
Steering Axle (Non-Driving):		
Make	Rockwell	
Model	FF-931	
Location	Rear	

Brakes:

Service - 4-Wheel Drum Type Brakes

Parking - Band Type Mounted on Transmission

Tires:

Standard - 9:00x15, 12-Ply Rating, Highway Tread

Optional - 10:00x15, 12-Ply Rating, Highway Tread

Optional - 10:00x15, 14-Ply Rating, Mining & Industrial Tread

Optional - Grizzly Supersoft XS250x15 Solid Rubber

Optional - Foam Filling for the Above Pneumatic Tires

Fuel Tank:

20 Gallon Capacity

Outriggers:

Four Hydraulic Outriggers of Box Beam Construction with Direct-Connected Holding Valves. Independent Controls for Left and Right-Hand Outriggers. Outrigger Pad Dimension 9"x12".

Cargo Deck:

62 Square Feet

12,000 pounds Capacity

Steps Located on Front Corners

Hydraulic System:

Tandem Pump, Direct-Driven by Engine Crankshaft, Rated at 16 and 32.5 GPM at Rated RPM. Hydraulic Oil Tank Capacity of 16 Gallons.

Steering:

Standard:

Full Hydraulic Orbitrol Unit with Two Double-Acting Hydraulic Cylinders Attached to Rear Axle.

Optional:

Full Hydraulic Orbitrol Unit with Two Double-Acting Hydraulic Cylinders Attached to Both Front and Rear Axles.

Steering Modes Include: Rear Wheel Steer; Round Steer

Crane:

Boom Movement:	IC-80-1D	IC-80-2D
Rotation	Continuous	Continuous
Elevation	0° to 70°	0° to 70°
Extension	8'2" to 20'2" (12')	9'6" to 24'

Boom Speeds:

Rotation	1.7 RPM	1.7 RPM
Elevation	10.0 Seconds	10.0 Seconds
Extension	28.0 Seconds	34.0 Seconds

Boom Assembly:

Three-Section Boom Assembly Equipped with Bearing Pads, Double-Acting Hydraulic Cylinders with Direct-Connected Holding Valves and Boom Angle Indicator on Each Side of Boom.

Boom Rotation:

Heavy-Duty Ball Bearing Rotation Gear with External Teeth. Rotation is Powered by Hydraulic Motor and Worm Gear Drive.

Boom Winch:

Turret-Mounted
Hydraulic Powered
Bare Drum Line Pull of 10,000 Pounds
Winch Line Speed of 110 FPM
IC-80-1D—90 feet of 9/16" Wire Rope
IC-80-2D—105 feet of 9/16" Wire Rope
Downhaul Weight and Swivel Hook

Anti-Two Block Device:

Prevents damage to hoist rope and/or crane components from pulling load hook against tip.

2-Part-Line Sheave Block:

Single sheave block for two-part-line requirements.