

Railcar Mover
Brushcutter
Undercutter
Excavator

Material Handler
Tie Grapple
Pile Driver
Magnet System

Brandt Rail Tool

120D / 225D



Powerful Value. **Delivered.**

Brandt

VERSATILE BECAUSE YOUR BUSINESS DEMANDS IT.

The Brandt Rail Tool is a robust, versatile platform that can be used to productively handle many rail maintenance and construction projects.

Whether you are brushcutting, undercutting, material handling, or moving dirt, the Rail Tool is the most versatile rail construction and maintenance tool on the market.

Featuring a 200hp auxiliary engine, railcar braking system, AAR couplers on each end of the machine, and heavy duty rail gear, this all in one Brandt Rail Tool can travel at 30mph on rail, pull ballast or maintenance rail cars eliminating the need for costly locomotive. This minimizes the impact on your maintenance budgets and reduces your track time requirements to complete your work.



HIGH PERFORMANCE AND RELIABILITY

John Deere 200 HP Auxiliary Engine

- Fuel efficient 6 cylinder engine
- Provides ample horse power for undercutter and mulching head
- Provides efficient power to propel rail wheels (track speeds up to 30 mph)



Engine Compartment

- 80 US gallon fuel tank - sufficient for more than 10 hours of operation under full load
- 40 US gallon hydraulic reservoir
- Large heavy duty access doors (8 gauge) for easy servicing of engine, hydraulic pump, etc.
- Counter weight under the engine

28" High Capacity Rail Gear

- New heavier rail axle rated for 100,000 lbs equipment weight
- 1400 series Funk with ultra high capacity bearings for extreme duty and long life
- Rubber suspension for smooth high speed travel
- Hydraulic drive (both axles)
- Stepless control of Hydrostatic Transmission
- Capable of 30 mph in both directions
- Lockable in up and down position
- Failsafe spring applied park brake
- Long wheel base for smooth travel
- Hydraulic service brakes incorporated into axles
- Stability tested on 6" superelevation



Engine Driven 34 CFM Compressor

- Dual piston compressor
- 12 gallon reservoir
- 40 SCFM Air Dryer



NEW!

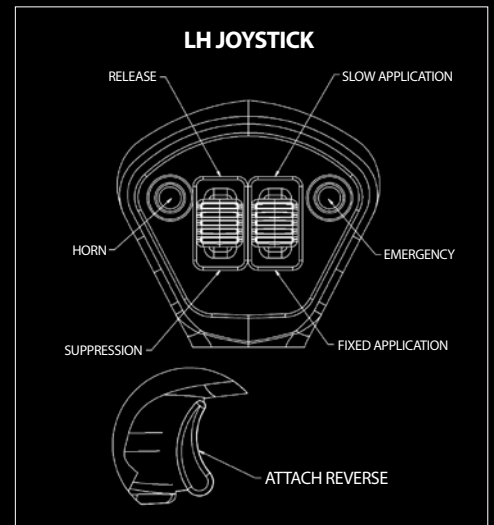
Ultra High Durability
Rail Axles



COMFORT AND CONTROL

Full Railcar Brake Control System

- 34 CFM compressor to charge brake system
- Ergonomic joystick control
- Proven reliable



Comfortable Cab

- Excellent visibility
- Tool Box at rear - 6 cubic feet of storage space
- Air ride seat with lumbar support
- Arm rests
- Heater and air conditioning



ATTACHMENTS



Buckets



Brushcutters



Magnets



Grapples



Railcar Mover



Undercutters



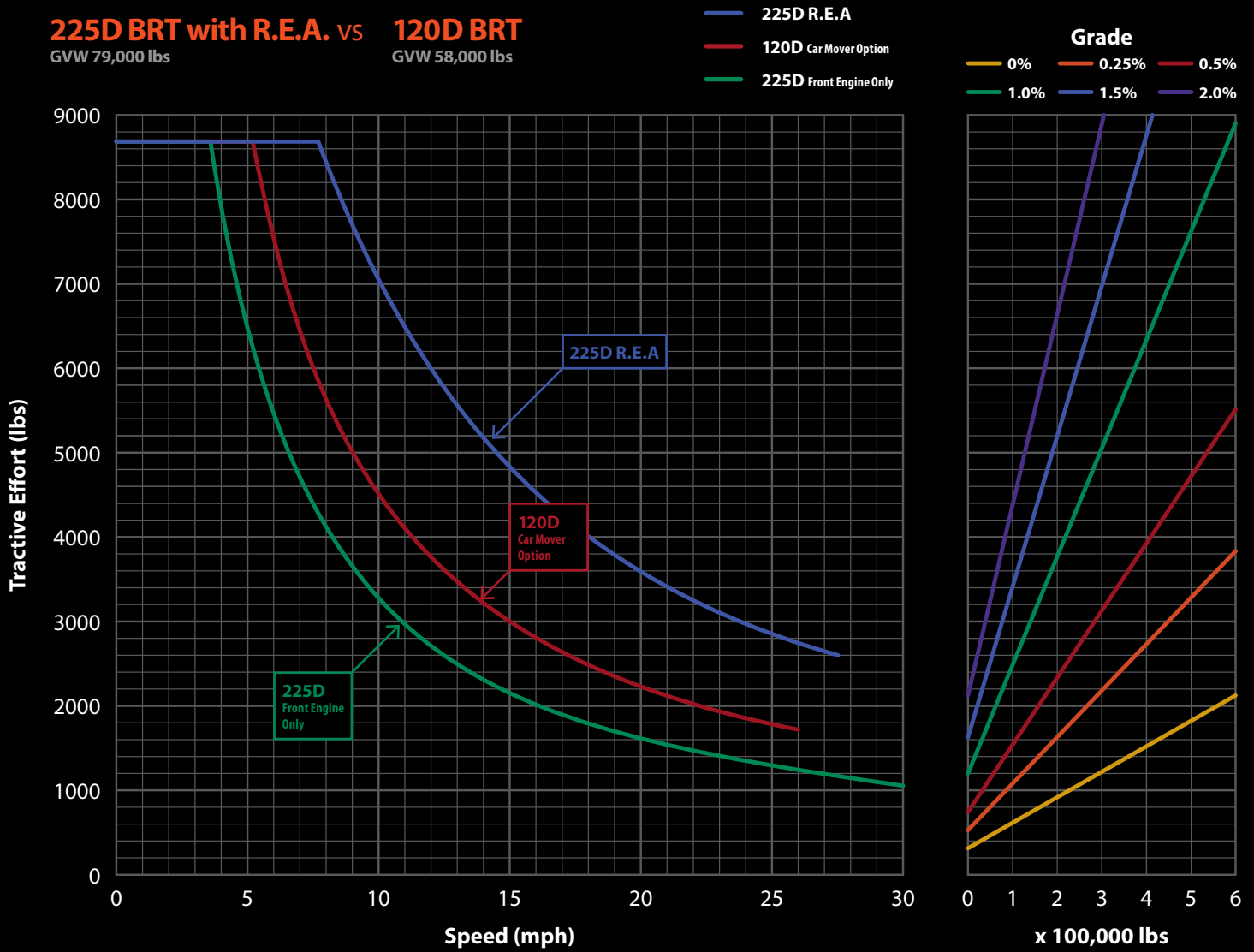
3rd Stick



Pile Driver

TRACTIVE EFFORT

225D BRT with R.E.A. vs 120D BRT
GVW 79,000 lbs vs GVW 58,000 lbs



120D SPECIFICATIONS

John Deere 120D

Brandt Rail Tool

ENGINE

Manufacturer & Model	John Deere 4045H	John Deere 6068HF285
Non-Road Emission Standards	Certified to EPA Tier 3 emissions	Certified to EPA Tier 3 emissions
Net Power	93 hp (69kW) @ 2,000 rpm	200 hp (149kW) @ 2,400 rpm
Cylinders	4	6
Displacement	276 cu.in. (4.5L)	415 cu.in. (6.8L)
Aspiration	Turbocharged, air-to-air charge air cooler	Turbocharged, air-to-air charge air cooler

COOLING

Type	Hydraulic driven suction fan, reversible	Direct-drive, suction type
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HYDRAULICS

Type	Open center, load sensing	Closed center, load sensing, post compensated
Main Pumps	2 variable-displacement axial-piston pumps	variable-displacement axial-piston pump
Maximum rated flow	2 x 27.7 gpm (2 x 105 L/min)	74 gpm (280 L/min) @ 2400rpm
Pilot Pump	One gear	
Maximum rated flow	8.7 gpm (32.9 L/min)	
Pressure Setting	570 psi (3930 kPa)	
System Operating Parameters		
Implement Circuits	4,980 psi (34,336 kPa)	
Travel Circuits	4,980 psi (34,336 kPa)	
Swing Circuits	4,690 psi (32,336 kPa)	
Control	Pilot levers, short stroke with shut off lever	
Rail Travel Circuits		5,000 psi (34,474 kPa)
Control		Pilot foot pedals fwd/rev
Attachment Motor Circuit		55 gpm (208 L/min) @ 5,000 psi (34,474 kPa)
Control		On/off bi-directional switch or joystick triggers
Attachment Auxiliary Circuits		2 x 8gpm (30 L/min) @ 3045 psi (20,995 kPa)
Control		PWM proportional joystick sliders

ELECTRICAL

Batteries	2 x 12 volt	2 x 12 volt
Alternator rating	80 amp 24 volt	100 amp 24 volt
Work Lights	Halogen (2), one on boom and one on frame	Halogen (2), on cab
Beacons		LED (2) rotation, one on cab and one on back
Brake/Tail		LED 7in (2) on back

POWER TRAIN

Control	Two-speed propel	Infinite control of hydrostatic transmission
Travel Speed		
Low	2.1 mph (3.4 km/h)	
High	3.4 mph (5.5 km/h)	
Rail Travel Speed		
Rail Work		0-5 mph (0-8 km/h)
Rail Travel		0-25 mph (40 km/h)
Rail Brakes		Hydraulic dynamic/Internal dual wet disc service brake/automatic spring applied fail safe park brake
Rail Axle		Planetary axle 50,000 lb rating
Rail Wheel Diameter		28 in
Rail Suspension		V-wedge style rubber mounting to axles

John Deere 120D

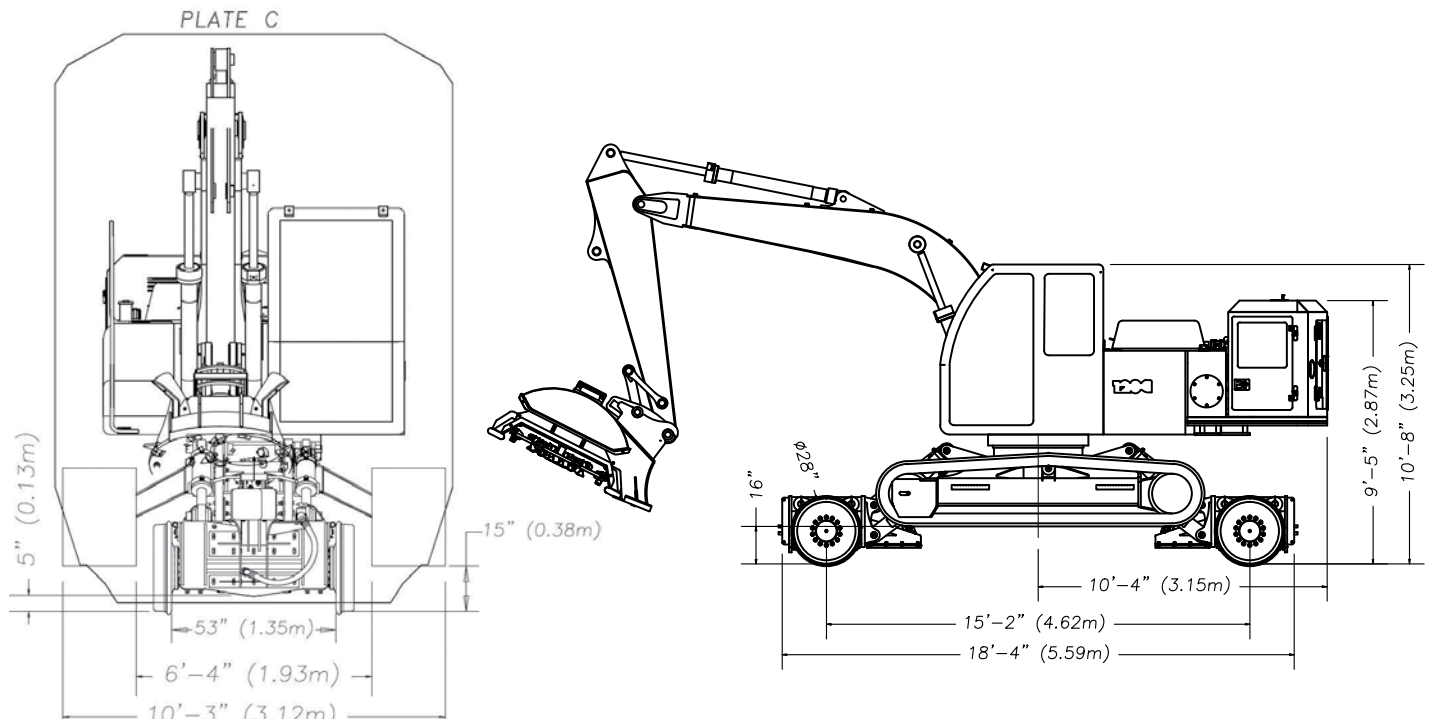
Brandt Rail Tool

PNEUMATICS

Compressor	Engine mounted 2 cylinder
Capacity	34CFM @ 2400rpm @ 120psi
Cut out pressure	150 psi (1,034 kPa)
Safety Relief	175 psi (1,207 kPa)
Reservoir	12 gallons (45 L)
Air Dryer	40 SCFM, 24V 75W heater, 90s purge cycle
Filtration	General purpose with visual indicator
Electronic Brake Control	LH joystick with digital monitor read out

CAPACITIES

Fuel Tank	66 gal (250 L)	80 gal (303 L)
Cooling System	21 qt. (20 L)	28 qt. (26.4 L)
Engine Oil with Filter	15 qt. (14 L)	20.1 qt. (19L)
Hydraulic Tank	20 gal (76 L)	40 gal (145 L)
Hydraulic System	35 gal (132.5 L)	
Propel Gear Box	4.2 qt. (4 L)	
Swing Gear Box	3 qt. (3.2 L)	
Rail Planetary Axle		20 qt. (18.9 L)
GVW (no attachment)		57,000 lbs (25,855 kg)



REACH 120D

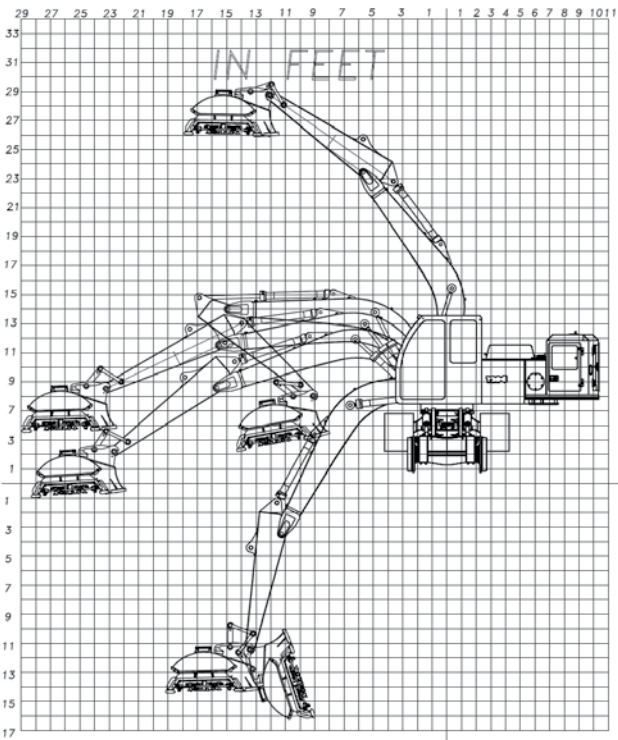


120D Lift Chart

BOLDFACE ITALIC type indicates hydraulic-limited capacities; **LIGHTFACE TYPE** indicates stability-limited capacities, in lb. (kg).

Load Point	5ft. (1.52m)		10ft. (3.05m)		15 ft. (4.57m)		20ft. (6.10m)		25 ft. (7.62m)	
HEIGHT	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
15 ft. (4.57m)							5,144 (2333)	4,890 (2218)		
10ft. (3.05m)					6,244 (2832)	6,244 (2832)	5,767 (2616)	4,724 (2143)	3,863 (1752)	3,071 (1393)
5ft. (1.52m)					8,715 (3953)	7,133 (3235)	6,839 (3102)	4,458 (2022)	5,362 (2432)	2,976 (1350)
Ground Line			11,317 (5133)	11,317 (5133)	10,857 (4925)	6,585 (2987)	7,864 (3567)	4,201 (1906)	5,789 (2626)	2,868 (1301)
-5 ft. (-1.52m)	6,355 (2883)	6,355 (2883)	15,965 (7242)	12,007 (5446)	11,735 (5323)	6,309 (2862)	8,360 (3792)	4,042 (1833)		
-10ft. (-3.05m)	12,484 (5663)	12,484 (5663)	16,736 (7591)	12,114 (5495)	11,162 (5063)	6,278 (2848)	7,829 (3551)	4,031 (1828)		
-15 ft. (-4.57m)			12,610 (5720)	12,504 (5672)	8,495 (3853)	6,492 (2945)				

Ratings are at bucket lift hook, machine equipped with 0.50 cu.-yd. (0.38m³) bucket; standard counterweight, situated on firm, level, uniform supporting surface, with 9-ft. 11-in (3.01m) arm and 28-in. (700 mm) shoes. Figures do not exceed 87 percent of hydraulic capacity or 75 percent of weight needed to tip machine.



225D SPECIFICATIONS

John Deere 225D

Brandt Rail Tool

ENGINE

Manufacturer & Model	Isuzu AL-4HK1XYSA-02	John Deere 6068HF285
Non-Road Emission Standards	EPA Tier 3/EU Stage IIIA	Certified to EPA Tier 3 emissions
Net Power	159 hp (118kW) @ 2,000 rpm	200 hp (149kW) @ 2,400 rpm
Cylinders	4	6
Displacement	325 cu.in. (5.2 L)	415 cu.in. (6.8L)
Aspiration	Turbocharged, intercooled	Turbocharged, air-to-air charge air cooler
COOLING		
Type	Direct Drive suction-type fan	Direct-drive, suction type

HYDRAULICS

Type	Open center, load sensing (adj. with monitor)	Closed center, load sensing, post compensated
Main Pumps	2 variable-displacement axial-piston pumps	Variable-displacement axial-piston pump
Maximum rated flow	2 x 56.0 gpm (2 x 212 L/min)	74 gpm (280 L/min) @ 2400rpm
Pilot Pump	One gear	
Maximum rated flow	7.9 gpm (30.0 L/min)	
Pressure Setting 570 psi (3930 kPa)		
System Operating Parameters		
Implement Circuits	4,980 psi (34,336 kPa)	
Travel Circuits	4,980 psi (34,336 kPa)	
Swing Circuits	4,410 psi (30,406 kPa)	
Control	Pilot levers, short stroke with shut off lever	
Rail Travel Circuits		5,000 psi (34,474 kPa)
Control		Pilot foot pedals fwd/rev
Attachment Motor Circuit		55 gpm (208 L/min) @ 5,000 psi (34,474 kPa)
Control		On/off bi-directional switch or joystick triggers
Attachment Auxiliary Circuits		2 x 8gpm (30 L/min) @ 3045 psi (20,995 kPa)
Control		PWM proportional joystick sliders

ELECTRICAL

Batteries	2 x 12 volt	2 x 12 volt
Alternator rating	50 amp 24 volt	100 amp 24 volt
Work Lights	Halogen (2), one on boom and one on frame	Halogen (2), on cab
Beacons		LED (2) rotation, one on cab and one on back
Brake/Tail		LED 7in (2) on back

POWER TRAIN

Control	Two-speed propel	Infinite control of hydrostatic transmission
Travel Speed		
Low	2.1 mph (3.4 km/h)	
High	3.4 mph (5.5 km/h)	
Rail Travel Speed		
Rail Work		0-5 mph (0-8 km/h)
Rail Travel		0-25 mph (40 km/h)
Rail Brakes		Hydraulic dynamic/Internal dual wet disc service brake/automatic spring applied fail safe park brake
Rail Axle		Planetary axle 50,000 lb rating
Rail Wheel Diameter		28in
Rail Suspension		V-wedge style rubber mounting to axles

225D SPECIFICATIONS

John Deere 225D

PNEUMATICS

Compressor
Capacity
Cut out pressure
Safety Relief
Reservoir
Air Dryer
Filtration
Electronic Brake Control

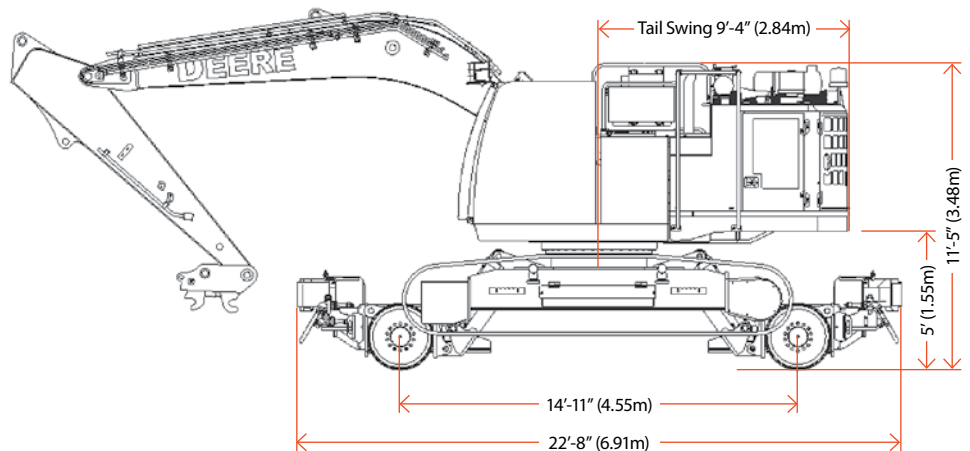
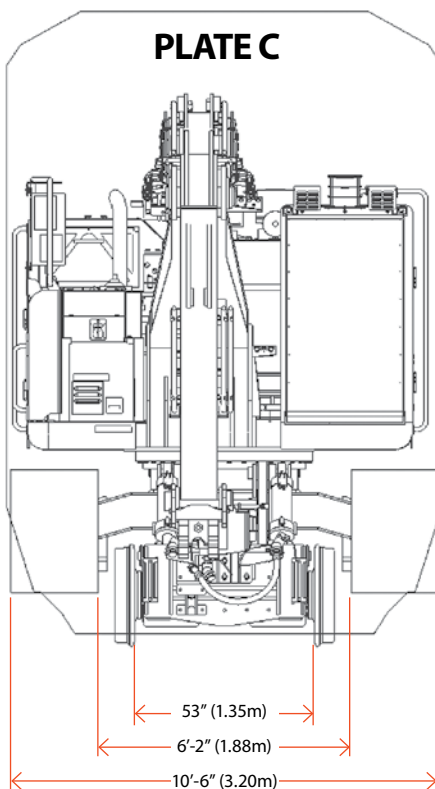
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Engine mounted 2 cylinder
34CFM @ 2400rpm @ 120psi
150 psi (1,034 kPa)
175 psi (1,207 kPa)
12 gallons (45 L)
40 SCFM, 24V 75W heater, 90s purge cycle
General purpose with visual indicator
LH joystick with digital monitor read out

CAPACITIES

Fuel Tank	
Cooling System	28 qt. (26 L)
Engine Oil with Filter	24.3 qt. (23L)
Hydraulic Tank	
Propel Gear Box	7.2 qt. (6.8 L)
Swing Gear Box	7.3 qt. (6.9 L)
Rail Planetary Axle	
GVW (no attachment)	

200 US gal (757 L)
28 qt. (26.4 L)
20.1 qt. (19L)
65 US gal (246 L)
23 qt. (21.8 L)
77,500 lbs (35,153 kg)



REACH 225D



225D Lift Chart on Grousers

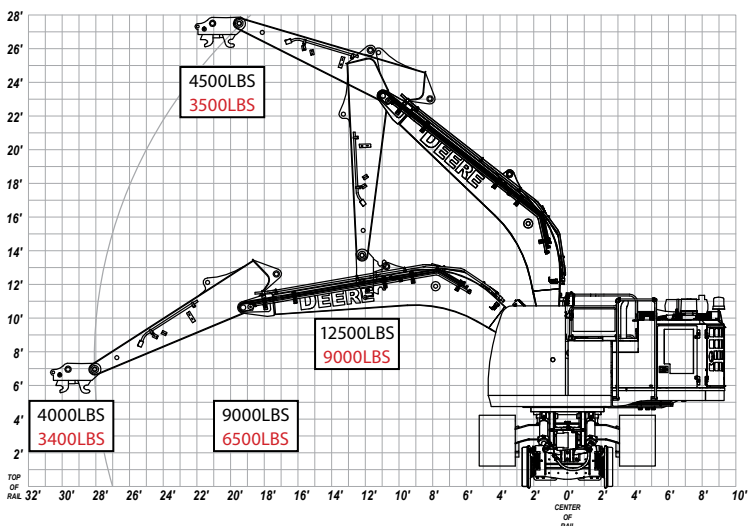
BOLDFACE ITALIC type indicates hydraulic-limited capacities; **LIGHTFACE TYPE** indicates stability-limited capacities, in lb. (kg).

Load Point	5ft. (1.52m)		10ft. (3.05m)		15 ft. (4.57m)		20ft. (6.10m)		25 ft. (7.62m)	
HEIGHT	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side
25 ft. (7.62m)							6,348 (2879)	6,348 (2879)		
20 ft. (6.10m)							8,868 (4022)	8,868 (4022)	6,672 (3026)	6,672 (3026)
15 ft. (4.57m)					11,093 (5032)	11,093 (5032)	9,940 (4509)	9,940 (4509)	9,351 (4242)	7,296 (3309)
10ft. (3.05m)					15,571 (7063)	15,571 (7063)	11,900 (5298)	10,193 (4263)	10,194 (4624)	7,044 (3195)
5ft. (1.52m)					20,080 (9108)	14,698 (6667)	14,025 (6362)	9,586 (4348)	11,224 (5091)	6,745 (3059)
Ground Line					22,077 (10,014)	14,018 (6358)	15,484 (7023)	9,142 (4147)	11,097 (5034)	6,500 (2948)
-5 ft. (-1.52m)			14,178 (6341)	14,178 (6341)	21,813 (9894)	13,855 (6285)	15,489 (7026)	8,935 (4053)	10,961 (4972)	6,376 (2892)
-10ft. (-3.05m)	18,661(8464)	18,661(8464)	23,452 (10,638)	23,452 (10,638)	19,922 (9036)	13,696 (6336)	14,804 (6715)	8,952 (4061)	10,860 (4926)	6,436 (2919)
-15 ft. (-4.57m)			20,994 (9623)	20,994 (9623)	15,959 (7239)	14,339 (6504)	11,521 (5226)	9,240 (4191)		

Ratings are at bucket lift hook, using 1.05 cu.-yd. (0.80m²), 1,455-lb. (660kg) bucket; standard counterweight, situated on firm, level, uniform supporting surface, with 9-ft. 7-in (2.91m) arm and 32-in. (800 mm) triple semi-grouser shoes. Figures do not exceed 87 percent of hydraulic capacity or 75 percent of weight needed to tip machine.

225D Lifting Capacities Hi-Railed

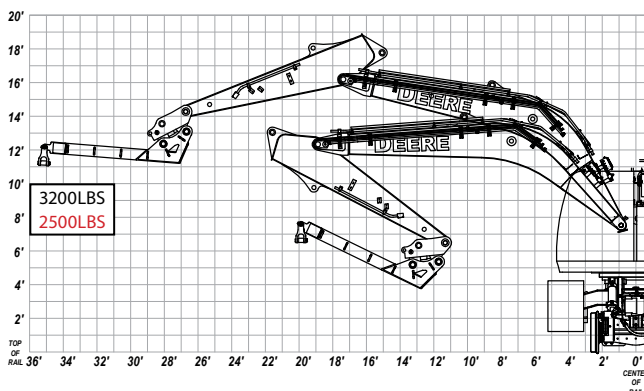
Black - Level Rail **Red** - 6" Super Elevated Rail



Rating at pin with Grabber Lift Hook. Figures do not exceed 75% of weight required for tipping.

225D Lifting Capacities Hi-Railed (Third Stick 8')

Black - Level Rail **Red** - 6" Super Elevated Rail



Rating at pin with no attachments as shown.
1/3 Cord Grapple 1550 lbs. Magnet 30" 1200 lbs.

We are Brandt.

Grown from the seeds of an entrepreneurial spirit over 80 years ago, Brandt has a long history of providing powerful value to our customers through a solid commitment to our core values: Quality, Innovation, Commitment and Customer Focus. Today, Brandt is a growing, dynamic and diverse group of companies headquartered in Regina, Saskatchewan. Brandt employs more than 1800 people across Canada, the US and Europe, servicing markets in over 20 countries and six continents. While engineering and manufacturing equipment for the agricultural, rail, mining, construction, and tube and pipe industries, Brandt also operates the world's largest privately held John Deere construction and forestry dealer.

For more information:

Call 1-306-791-7557

Email us at roadrail@brandt.ca

Or visit us at www.brandt.ca

Box 1876, 302 Mill Street

Regina, SK, Canada S4P 3E1



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