



Home > Equipment > Brush Chippers > BC1800XL

BC1800XL Specs

General Dimensions and Weights		
Length - Feed Table Up, Tongue In	177"	449.6 cm
Length - Table Down, Tongue Extended	231"	586.7 cm
Width	78.5"	199.4 cm
Height	107"	271.8 cm
Weight - Engine Option One	8740 lbs	3964.4 kg
Weight - Engine Option Two	8740 lbs	3964.4 kg
Weight - Engine Option Three	8740 lbs	3964.4 kg
Tongue Weight - Engine Option One	900 lbs	408.2 kg
Sound Power	127 dB(a)	
Sound Power - Engine Option Two	124 dB(a)	
Horsepower Options	110, 130, and 170 hp	

Engine Option One		
Make and Model	Cummins QSB4.5 Tier 3	
Number of Cylinders	4	
Gross Horsepower (Maximum)	110 hp	82 kw
Torque (Max)	360 ft-lb	488.1 Nm
Fuel Tank Capacity	35 gal	132.5 L

Fuel Type	Diesel	
Air Cleaner	Two stage dry	
Oil Filter	Spin-on	
Recommended Oil	Unknown	
Oil Volume with Filter	Unknown qt	L
Maximum Angle of Continuous Operation	Unknown deg	
Cooling Medium	Liquid	
Coolant Capacity (Engine and Radiator)	Unknown gal	L
Alternator	65 amp	
Fan	26 " (66.04 cm) suction	
Clutch Type	13 " (33.02 cm) spring loaded auto clutch	
Clutch Drive Engagement	Auto Clutch	

Engine Option Two

Make and Model	Cummins QSB4.5 Tier 3	
Number of Cylinders	4	
Gross Horsepower (Maximum)	130 hp	96.9 kw
Torque (Max)	459 ft-lb	622.3 Nm
Fuel Tank Capacity	35 gal	132.5 L
Max Fuel Consumption	Unknown gph	lph
Fuel Type	Diesel	
Air Cleaner	Two stage dry	
Oil Filter	Spin-on	
Recommended Oil	Unknown	
Oil Volume with Filter	Unknown qt	L

Maximum Angle of Continuous Operation	Unknown deg	
Coolant Capacity (Engine and Radiator)	Unknown gal	L
Cooling Medium	Liquid	
Alternator	65 amp	
Fan	26 " (66.04 cm) suction	
Clutch Type	13 " (33.02 cm) spring loaded auto clutch	
Clutch Drive Engagement	Auto Clutch	

Engine Option Three

Make and Model	Cummins CSB4.5 Tier 3	
Number of Cylinders	4	
Gross Horsepower (Maximum)	170 hp	126.8 kw
Torque (Max)	460 ft-lb	623.7 Nm
Fuel Tank Capacity	35 gal	132.5 L
Max Fuel Consumption	Unknown gph	lph
Fuel Type	Diesel	
Air Cleaner	Fleet Guard Two Stage Dry	
Oil Filter	Spin-on	
Recommended Oil	API CH-4/ST	
Oil Volume with Filter	17 qt	16.1 L
Maximum Angle of Continuous Operation	Unknown deg	
Cooling Medium	Liquid	
Coolant Capacity (Engine and Radiator)	8 gal	30.3 L
Alternator	Delco 11si	

Clutch Type	Clutchless PTO	
Clutch Drive Engagement	Auto Clutch	

Feed System		
Feed Roller Orientation	Vertical	
Number of Feed Rollers	2	
Feed Roller Clamp Load	380 lbs	172.4 kg
Feed Roller Clamp Type	Spring	
Feed Roller Dimension	23.5 " x 18 " (59.69 cm x 45.72 cm)	
Number of Knives	9	
Weight of Feed Roller	116 lbs	52.6 kg
Feed Roller Dimension (Two)	23.5 " x 18 " (59.69 cm x 45.72 cm)	
Number of Knives (2)	9	
Weight of Feed Roller (Option Two)	116 lbs	52.6 kg
Number of Feed Roller Motors	2	
Motor Displacement	32.7	
Motor Manufacturer	White Hydraulics	
Feed Speed	118 ft/min	
Infeed Table Width	20"	50.8 cm
Infeed Table Length	32"	81.3 cm
Infeed Hopper Height	24"	61 cm
Infeed Throat Capacity	20 " x 24 " (50.8 cm x 60.96 cm)	
Pinch Point - Distance to End of Feed Table	62.5"	158.8 cm
Distance from Feed Table to Ground	30.5"	77.5 cm

Infeed Table Material Thickness	.2"	.5 cm
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Safety System		
Bottom Feed Stop Bar	Standard	
Bottom Feed Stop Bar Diameter	2"	5.1 cm
Bottom Feed Stop Bar Material Thickness	11 GA	
Actuation Force (BFSB)	34 lbs	15.4 kg
Normal Sensitivity	22 deg	
Reduced Sensitivity	12 deg	
Reset Method	Green hold to run button	
Four Position Feed Control Bar	Standard	
Diameter	2"	5.1 cm
Material Thickness	11"	27.9 cm
Positions	Four position: Emergency stop, Forward, Neutral, and Reverse	
Actuation Force	34 lbs	15.4 kg
Green Hold to Run Button	Standard	

Drum/Disc Cutting System		
Material Capacity	19"	48.3 cm
Width	26.5"	67.3 cm
Thickness	.4"	1 cm
Diameter	36"	91.4 cm
Speed	1100 RPM	
Weight With Shaft	850 lbs	385.6 kg

Safety Lock - Number of Positions	4	
Number of Knives	4	
Knife Thickness	.6"	1.6 cm
Material	A8 chipper steel	
Useable Edges	2	
Knife Size	.625 " x 5 " x 10 " (1.59 cm x 12.7 cm x 25.4 cm)	
Number of Bolts/Knife	5	
Replaceable Threaded Knife Block	Yes	
Number of Paddles	4	
Fixture Method	Weld on	
Air Flow	3200 cfm	
Bedknife Size	3 " x 30.25 " (7.62 cm x 76.84 cm)	
Bedknife Thickness	1.5"	3.8 cm
Bedknife Material	1018	
Bedknife - Number of Useable Edges	4	

Cutter Drive Components - Engine Option One

Number of Bearings	2	
Bore	2.4"	6.2 cm
Type	Spherical roller	
Manufacturer	Linkbelt	
Dynamic Capacity	31400 lbs	14242.8 kg
Static Capacity	53500 lbs	24267.2 kg
Belt Idler/Tensioner	Spring loaded	
Belt Type	5V	

Cutter Drive Components - Engine Option Two

Number of Bearings	2	
Bore	2.9"	7.5 cm
Type	Spherical roller	
Manufacturer	Linkbelt	
Dynamic Capacity	41800 lbs	18960.2 kg
Static Capacity	71500 lbs	32431.9 kg
Belt Idler/Tensioner	Spring tensioned	
Belt Type	5V	

Discharge System

Chute Height	110"	279.4 cm
Bottom Thickness	270"	685.8 cm
Top Thickness	.1"	.2 cm
Side Wall Thickness	.1"	0.3 cm
Deflector Thickness	.1"	0.3 cm
Chute Rotation Angle	270 deg	
Rotation Type	Worm gear with rotational lock	
Rotational Lock	Self lock	

Hydraulic System

Tank capacity	12 gal	45.4 L
Recommended Oil Type	Vermeer VMF	
System Type	Open center	
Filtration Method	3 micron return, 100 micron suction	
Pump Flow at Maximum RPM	7.8 gpm	29.6 L/min
System relief pressure	2500 psi	172.4 bar
Auto Reverse PSI	2400 psi	165.5 bar

Flow Control	Yes	
Directional Control	Yes	
Oil Cooler	No	

Electrical System		
System Voltage	12 volt	
Battery	950 CCA	
Standard Gauges	Tach/hourmeter (includes toggle to obtain oil pressure, water temp, engine error codes) fuel gauge	
Switches	Throttle, ignition, lower feed bar sensitivity, chute rotate, chute deflector	
Controller	Vermeer ACS	
Display	LED	
Shutdown System	High temp, low pressure	
Radio Remote Control	No	

Chassis		
Frame Description	C Channel	
Toolbox Description	Standard	
Tongue Description	4 " x 4 " x .375 " (10.16 cm x 10.16 cm x 0.95 cm)	
Tongue Extension	Same as 1000	
Hitch Type	Pintle	
Fender Description	Integrated	
Axle/Suspension	Torflex	
Type - Option One	Rubber torsional	
Manufacturer - Option One	Dexter	
Capacity - Option One	10,000	
Tires - Option One	235/75R17.5 load range J	

Wheels - Option One	17.5 " x 6.75 " BC of 8 on 6.5 " (44.45 cm x 17.15 cm BC of 8 on 16.51 cm)	
Axle/Suspension - Option Two	Torflex	
Type - Option Two	Rubber Torsional	
Manufacturer - Option Two	Dexter	
Capacity - Option Two	8,000 lb (3628.7 kg)	
Tires - Option Two	235/75R 17.5	
Wheels - Option Two	Eight hole 17.5 x 6.75	
Brake Type	Electric	
Trailer Light Type	Incandesent	

Winch Option		
Winch Relief System	2500 psi	172.4 bar
Winch Boom Structure	.25 GR50	
Winch Controls	Forward, Reverse, Free Spool	
Winch Rope	7/16 " (1.11 cm)	
Rope Length	150'	45.7 m
Rope Line Pull	2000 lbs	907.2 kg
Rope Choker	0.25 " (0.64 cm)	

Other Options		
Special Paint	Optional	
Extended Warranty	Optional	
Preventive Maintenance	Optional	
Adjustable Height Discharge Chute	Optional	
Hydraulic Chute Controls	Optional	

