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## 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
Max Fuel Consumption	Unknown gph	lph

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

### Engine Option Two

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

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

<b>Engine Option Three</b>		
<b>Make and Model</b>	Cummins CSB4.5 Tier 3	
<b>Number of Cylinders</b>	4	
<b>Gross Horsepower (Maximum)</b>	170 hp	126.8 kw
<b>Torque (Max)</b>	460 ft-lb	623.7 Nm
<b>Fuel Tank Capacity</b>	35 gal	132.5 L
<b>Max Fuel Consumption</b>	Unknown gph	lph
<b>Fuel Type</b>	Diesel	
<b>Air Cleaner</b>	Fleet Guard Two Stage Dry	
<b>Oil Filter</b>	Spin-on	
<b>Recommended Oil</b>	API CH-4/ST	
<b>Oil Volume with Filter</b>	17 qt	16.1 L
<b>Maximum Angle of Continuous Operation</b>	Unknown deg	
<b>Cooling Medium</b>	Liquid	
<b>Coolant Capacity (Engine and Radiator)</b>	8 gal	30.3 L
<b>Alternator</b>	Delco 11si	
<b>Fan</b>	26 " (66.04 cm) suction	

<b>Clutch Type</b>	Clutchless PTO	
<b>Clutch Drive Engagement</b>	Auto Clutch	

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

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

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

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

### Cutter Drive Components - Engine Option One

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

### Cutter Drive Components - Engine Option Two

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

### Discharge System

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

### Hydraulic System

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

Flow Control	Yes	
Directional Control	Yes	
Oil Cooler	No	

<b>Electrical System</b>		
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	

<b>Chassis</b>		
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	



<b>Wheels - Option One</b>	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)	
<b>Axle/Suspension - Option Two</b>	Torflex	
<b>Type - Option Two</b>	Rubber Torsional	
<b>Manufacturer - Option Two</b>	Dexter	
<b>Capacity - Option Two</b>	8,000 lb (3628.7 kg)	
<b>Tires - Option Two</b>	235/75R 17.5	
<b>Wheels - Option Two</b>	Eight hole 17.5 x 6.75	
<b>Brake Type</b>	Electric	
<b>Trailer Light Type</b>	Incandescent	

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

<b>Other Options</b>		
<b>Special Paint</b>	Optional	
<b>Extended Warranty</b>	Optional	
<b>Preventive Maintenance</b>	Optional	
<b>Adjustable Height Discharge Chute</b>	Optional	
<b>Hydraulic Chute Controls</b>	Optional	

