

DC 1820

18" Disc Chipper



GENERAL

Weight: 8760 lbs (varies)

Length (Transport): 17' 1"

Width: 7' 6"

Height: 8' 11"

Noise Level: 80 decibels @ 50 ft, 360° around the unit or less

Infeed Chute: 65" width, 35" height (total of 2275 sq in)

Feed Roller Opening: 18" high x 19" wide opening

Chipping Capacity: 18" diameter material

Folding Feed Table: 69" width, 32" depth. Total of 72" from the end of the folding feed table to the nip point of the feed rolls

CHASSIS FRAME

2" x 6" steel channel 10.5 lb-ft

FINISH

Standard powder coat white. Other colors and paint available.

AXLE

Axle shall be two (2) 7000-lb minimum capacity torsion type. Eight (8) lug pattern with EZ lube bearings shall be standard.

TRAILER BRAKES

Trailer brakes shall be 12-volt, self adjusting type.

BREAKAWAY SWITCH

Breakaway switch shall be 12-volt type, enclosed in a steel housing for protection.

TIRES

Tires shall be two (2) 215-75 R17.5 radial tires mounted on eight (8) lug wheels.

FRONT JACK

Front jack shall be a 7000 lb capacity drop leg, top wind jack. Rear jack is standard.

SAFETY CHAINS

Safety chain shall be two (2) independent 4' long x 3/8" thick, 6600 lb each with slip hooks.

TOW BAR

Tow bar shall be fixed steel. Pintle ring shall be 2 1/2" I.D. minimum (or ball hitch) adjustable for height.

FUEL TANK

Fuel tank shall be 26-gallon minimum tank. Tank shall be banded on top of trailer frame.

LIGHTING

Lighting shall conform to all D.O.T. specifications. All signal lighting shall be LED type. Tail light package shall be a 12-volt, hermetically sealed system; shock mounted to frame with grommet. Brake and turn lights shall be located at the rear sides of the infeed chute and shall be flush mounted to the frame for protection. All connections shall be ultrasonically within the wiring harness.

BATTERY BOX

Battery box shall be lockable and mounted directly to frame.

CHIPPER CUTTING DISC

Chipper disc shall be a 51" diameter x 2" thick A36 steel. Disc shall be machined for accurate balance with eight (8) knife pockets. Knife fastener nuts shall be recessed for wear protection. Cleaner bars shall be utilized around the rim of the disc to eliminate wrapping and the collecting of material around the chipper shaft. Factory set operating speed shall be 880 RPM.

DISC SHAFT

Chipper disc shaft shall be 1044 solid steel x 4" diameter at the disc hub. The disc and disc shaft shall be fully machined to exact tolerances, taper-lock and bolted together using a 1" thick x 8" diameter steel lock ring and six (6) 3/8" grade 8 bolts. The entire assembly shall be precision balanced.

DISC BEARINGS

Chipper bearings shall be two (2) 2 1/8" roller bearings, four-bolt flange mounted, greasable and easily replaced. Front and rear bearings shall be spherical, high speed roller bearings rated at:

Static 53,500#

Basic 32,400#

Radial 3,540# with a 20,000 hr. life service

CHIPPER DRIVE BELTS

Drive belt shall be a single, four-banded for non-turbo engines and a single, five-banded Kevlar belt for turbo engines.

CHIPPER KNIVES

Chipper knives shall be eight (8) double-edged 4" wide x 10 1/2" long x 1/2" thick and comprised of A-8 chipper knife steel. Knives shall be mounted in eight (8) knife pockets, which shall be evenly spaced on the disc surface.

CHIPPER ANVIL

4 1/2" x 1/2" thick x 18" long, carbon steel anvil. The chipper anvil is adjustable and has four (4) usable cutting edges.

DISC HOUSING

Disc housing shall be constructed of steel plate halves connected by a 7/8" diameter x 10" solid steel locking pin. Inspections half shall be constructed of 7 gauge steel plate and the discharge half shall be constructed of 1/4" steel plate. Hood shall open easily for access to chipper knives. The lower portion of the disc housing shall be constructed of 1/2" steel plate on either side with a continuously welded 1/4" belly band. The entire disc housing shall be mounted directly to the chipper frame.

CHIPPER BLOWER SYSTEM

Blower shall consist of two (2) "Power Pockets" for enhanced performance. Power pockets shall be welded and bolted for added security.

DISCHARGE CHUTE

Discharge chute shall rotate 360° and be easily locked into convenient positions without tools.

HYDRAULIC TANK

Hydraulic tank shall be a 15-gallon minimum capacity, all steel construction with baffle. Tank shall have a drain plug and mesh strainer at filler opening.

HYDRAULIC HOSE

All high-pressure hydraulic hoses shall be 12,000-PSI burst pressure, industrial grade construction with spray guards in applicable areas. All hydraulic hoses are SAE standard straight thread fitting ends for easy replacement or repair.

HYDRAULIC FILTRATION SYSTEM

Filtration system shall consist of a 10-micron spin-on return filter with restriction bypass, 100 mesh suction screen located in the hydraulic tank.

HYDRAULIC FEED SYSTEM

Hydraulic feed system shall consist of two (2) horizontally mounted hydraulic driven feed wheels. Hydraulic feed motors shall be two (2) 32.7 cubic inch displacement motors operating at 2500 PSI. Hydraulic feed wheel motor shall be connected to feed wheels with steel chain coupler to ensure a secure connection. Both feed wheels shall be supported by bearings at each end. Top feed wheel shall have four (4) 16" adjustable springs to ensure ample down pressure. Upper feed wheel slide shall have four (4) nylon wear strips to allow smooth operation.

INFEED CHUTE

Chute opening shall be 65" wide x 35" high with a total of 2275 square inches minimum. Chute length shall be a minimum of 37" from the centerline of feed wheels to the end of the infeed chute. A control bar shall be located on three (3) sides of the infeed chute allowing activation of feed wheels in the forward position (on), the neutral position (off) and the reverse position. The infeed chute shall be tapered for easy feeding and minimal drag restriction.

FEED RATE

Feed rate shall be 70 ft/min. May vary depending on options, engine and customer request.

TONGUE WEIGHT

Tongue weight shall be 700 lb average (may vary).

CONTROLS

All controls shall be located curb side to eliminate operator from standing in street for engine start-up and PTO engagement.

PANIC BAR

Panic bar consist of two (2) 1" diameter control bars used to stop movement of hydraulic feed wheels in an emergency situation. This patented device will allow the operator to instantly stop all hydraulic functions from outside the feed horn by simply grabbing the "Panic Bar". This system must be reset to eliminate any accidental reactivation of the hydraulic system which acts as a "lockout" to ensure that it is safe to resume operations before the hydraulic system will operate. The bar is readily accessed from both the operator's position and from the direction of the chipper engine giving personnel almost 360° from which to activate it outside of the infeed chute. Activation from inside the infeed chute is not acceptable.

DISCHARGE DEFLECTOR/ CHUTE ADJUSTMENT BAR

This device allows the operator to adjust the 11-position chip deflector and the discharge chute position without climbing on the chipper. This will reduce the possibility for an operator to fall during adjustment and also facilitate proper chute and deflector placement.

CHIPPER HOOD SAFETY SWITCH

Switch reduces the possibility of starting the engine with the disc hood open.

LIFT TOWER

Standard 18" upper roll lift kit provides additional feeding options for the operator.

ELECTRONIC FEED CONTROL (EFC)

Automatic feed control maintains proper disc RPM throughout chipper feeding operations.

WINCH

8,000 lbs capacity hydraulic winch with synthetic rope.

Altec Environmental Products reserves the right to improve products and the right to change, amend or delete specifications at any time, without notice or obligation.

Altec Sales and Service

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DC1820-3M-5/08



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DC 1820

- **18" Capacity Disc Style Chipper**
- **Exclusive Patented Panic Bar**
- **High Capacity Feed Chute**
- **High Performance Feed System**