

HEAVY DUTY

# CARLTON

1790 9" DISK STYLE  
WOOD CHIPPER

THE  
PROFESSIONAL'S  
CHOICE



Powerful  
Durable  
Reliable

# & Performance & Productivity

The Carlton Model 1790 wood chipper is the most versatile and powerful 9-inch disk style chipper available. The 1790 is portable enough to be pulled by a light duty pick-up truck, yet powerful enough to fill even the largest chip trucks. It incorporates several Carlton exclusive features like dual lift cylinders, Imron paint, 32-cubic-inch infeed motors and integrated reversing autofeed. The 88 hp turbo diesel Kubota engine powers massive 10½ x 17-inch feed rollers allowing the 1790 to easily chip 9-inch material continuously.



**Dual Lift Cylinders** provide crushing power when necessary and allow easy access to the anvil. Mounting these dual lift cylinders low on the sides allows for a full 360° discharge chute rotation.



**32-Cubic-Inch Feed Wheel Motors** give the Carlton 1790 more than twice the pulling power of any other 9" capacity chipper and produce more pulling torque than most competitors' 12" capacity machines.

**88 HP Arborist Package Kubota Diesel**, specifically designed for use on a chipper and includes: radiator debris screen, live hydraulic pump hook up, slanted top, locking side panels, easy access air cleaner mounted to the rear of the engine to keep it as far away from the dust as possible.

**Heavy Duty Infeed Table and Folding Tray.**



**Locking Fuel and Hydraulic Tanks** sit down in the frame for maximum capacity and a clean design.



**7000 lb. Dexter Torflex Axle** with Electric Brake makes the 1790 tow great.



**Kevlar Construction Belts** carry more horsepower with less stretch, lowering maintenance costs and prolonging belt life.





**Digitally Controlled Reversing Autofeed Plus** monitors engine rpm and adjusts the feed automatically. This system has the ability to start, stop, and reverse the feed of material into the chipper based on parameters set by the operator.



**Precision Ground High Speed Balanced Chipping Disk.** Carlton's chipper disks are perfectly round (no flat spots like competitive chippers) they are also high speed computer balanced – this combination provides for an extremely smooth chipping action that prolongs bearing and machine life.



**10 1/2" Diameter Feed Rollers** aggressively pull in the material to be chipped. These large diameter feed rollers climb over material easily, pulling it into the chipper with no assistance.

**LED Taillights** mounted high on the infeed out of harms way. The 1790's taillights have heavy duty covers. All the wiring runs inside the frame to give the machine a neater appearance and keep wires clear of damage.

**Live Hydraulics** run directly off the engine allowing the operator to engage all hydraulic functions without the disk being engaged.

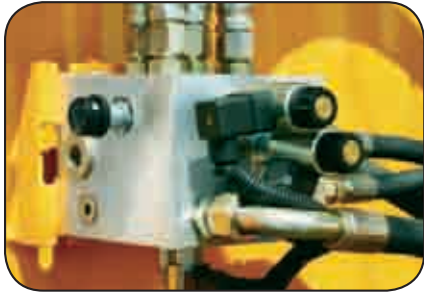
**Hand Crank Swivel Discharge Chute** allows the operator to easily fill the truck corner to corner, or easily direct the chips to a precise place on the lot.

**Heavy Duty 1 1/2" Feeder Bar**

**48" Wide Feed Chute** takes the big tops, requires less trimming by the crew!

**9"x 17" Throat Opening,** largest in its class, easily handles the most difficult materials.





**Integrated Single Manifold Hydraulic System** simplifies the system reducing the number of hoses needed and reduces leak points. Variable speed feed control is standard on all Carlton chippers.



**Hand Crank Height Adjustable Discharge Chute** allows the operator to quickly adjust the discharge perfectly for any truck.



**In Frame Fuel and Hydraulic Tank** ease maintenance and clean up design.



# Carlton Quality

DURABLE  
DEPENDABLE

The Carlton 1790 wood chipper is built to withstand the punishment you dish out. From the heavy duty infeeders to the formed infeed, the Carlton 1790 is the most solidly constructed chipper on the market today. Thoughtful design elements like concealed wiring and full-length radiator protection guards keep the 1790 operating at peak performance from year to year. For **DURABILITY** and **DEPENDABILITY** nothing compares to Carlton.



CALL TOLL FREE 800-243-9335

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GET GET GET GET GET GET GET GET GET  
AGGRESSIVE  
POWERFUL  
IN FEED  
MASSIVE  
CHIPPING  
CAPACITY



## SPECIFICATIONS

### General

Weight	5360 Pounds
Length	186 inches
Height	93 inches
Tires	235/80R16 Gdyr 3000 Pnd Cap
Axle	Dexter Torflex 7000 Pound Cap
Brakes	Electric with Breakaway Switch
Hitch	Five Inch Height Adjustable Pintle
Fuel Capacity	24 Gallons
Battery	29HVD 650 CCA
Jack Stand	7000 # Cap Screw Type Swing Up

### Engine

Manufacturer	Kubota Turbo Charged Diesel V3300T
Number of Cylinders	Four
Bore	3.86 Inches (98 mm)
Stroke	4.33 Inches (110 mm)
Displacement	202.53 Cubic Inches (3.3L)
Maximum RPM	2800 RPM
Horsepower	88 HP
Torque	205 Ft Lbs
Cooling Medium	Liquid Water/Antifreeze Mixture
Air Cleaner	Two Stage Dry Type
Oil Filter	Full Flow Spin On
Oil Capacity	14 Quarts
Oil Type	SAE 10W40 CD Grade or Higher
Electrical	12 Volt
Gauges	Oil Pres, Water Temp, Amp, Digital Tach
Clutch	Stein

### Bearings

Disk Bearings	2 <sup>7</sup> / <sub>16</sub> inches Tapered Roller
Feed Roller Bearings	2 inches Tapered Roller
Disk Shaft	3 <sup>1</sup> / <sub>2</sub> inches
Feed Roller Shaft	2 inches

### Chipper Disk

Wheel Diameter	30 inches
Wheel Thickness	1.5 inches
Disk Balance	Precision High Speed Balanced
Wheel Speed	1180 RPM
Number of Knives	2
Knife Dimensions	10" x 4" x 1/2"
Anvil	4 1/2" x 9 1/2" x 1/2" AR400
Chip Throwers	Two 3/8" x 4" x 4" x 11" long

### Cutting Dimensions

Throat Opening	9' x 17"
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### Hydraulic System

Hyd Pump Displacement	.87 in cu/rev (14.4cm cu/rev)
Hyd Pump Drive System	Direct Drive off Engine Mount
Flow	Variable Pressure Compensated
System Relief	2500 PSI
Oil Tank Capacity	9 Gallons
Oil Type	AW32
Valve	Series Type
Hose	16,000 PSI Burst - Exceeds SAE 100R2
Oil Filter	10 Micron Return with Suction Strainer

### Drive System

Engine Sheave	4/5V6.3
Jackshaft Sheave	4/5V10.3
Drive Belt	4/5V900
Cutter Head Shaft	3 1/2 inches

### Feed System

Feed Motors	32 Cubic Inch Displacement
Flow	Pressure Compensated Adjustable
Hydraulic Drive	Live - Driven off engine
Autofeed	Reversing, Digital, Fully Adjustable
Feed Rate	Adjustable
Feed Rollers	Two 10 1/2" x 17"
Springs	Two 19" Tight Wound Powder Coated
Slide Bearings	Four 16" x 1" x 1" Ryertex
Lift Cylinders	Two 2 x 10 with 1" attachments
Discharge	Crank Adjustable Swivel and Height

### Frame

Main Trailer Tongue	3" x 4" with 1/4" wall
Main Trailer Frame	2" x 4" with 1/4" wall
Telescoping Tongue	N/A
Engine Channel Mnts	4" Channel with 5/16" web
Infeed Chute	10ga with 2" x 2" x 1/8" tube frame
Folding Infeed Tray	10ga with 4" x 1 1/2" x 3/16" bracing
Folding Tray Lock	3/4" Spring Loaded Pin
Discharge Chute	10 gauge
Discharge Lock	3/4" Spring Loaded Pin
Fuel Tank	10 gauge with baffles rubber mtd
Hydraulic Tank	10 gauge with baffles rubber mtd
Battery Box	12 gauge checker plate - lockable
Fenders	3/16" checker plate
Feeder Bar	1 1/2" OD x 1/8" wall - removable
Radiator Guards	2" x 4" with 3/16" wall
Light Brackets	3/16" with hidden wiring
Axle Mounts	1/4" Plate
Hitch Plate	3/4" Plate adjustable 5" Up/Down

## STANDARD FEATURES

Dual lift cylinders
Live hydraulics driven directly off engine
Digital reversing autofeed plus
Hand crank swivel discharge
Hand crank height adjustable discharge
Integrated hydraulic manifold including variable feed
Huge 32 cubic inch hydraulic feed motors
TorFlex suspension with electric brakes

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## EXCEPTIONAL QUALITY & CUSTOMER SERVICE



Carlton's commitment to quality can be found in every piece of equipment they manufacture. Each Carlton wood chipper is a result of superior design and the highest quality construction. Plus, Carlton's staff of highly trained and experienced professionals stands behind each wood chipper and is ready with answers to your questions. From parts and service to technical support, Carlton is dedicated to providing the best customer service in the industry. Carlton—Quality products and exceptional service.