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FORESTRY/BIOMASS EQUIPMENT **REFERENCE GUIDE**





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You begin each day before dawn with a drive and determination to do more than the day before. When you move at this pace, you know to do more you need equipment that is made for more. That's why our forestry and biomass equipment is built from the ground up to meet your needs, delivering:

More Power and Production
Consistent, Quality End Product
Lower Operating Costs
Ease of Maintenance
Greater Longevity and Resale Value

If you're ready to operate equipment that's made to keep pace with you, then we invite you to go to **morbark.com** to view our full equipment lines, find your local authorized dealer and much more! Your Morbark dealer or sales representative will work with you to assess your needs now and in the future, as well as offer equipment recommendations, financing options, wear parts and service if you should ever need it.

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M20R

FORESTRY WHOLE TREE DRUM CHIPPER



The hard-working, aggressive M20R Forestry chipper provides optimal performance for in-woods chipping. Easily filling a 53' (16.15 m) trailer and sustaining up to four to five loads per day, this hard-working, aggressive chipper is the perfect option for those looking to enter the biomass market with low startup costs. This machine features the Advantage 3 Drum and electronic flow control to control feed speed from the remote. Tough, abrasion-resistant AR-450 steel is used for the drum skin, replaceable belly band, discharge chute and wear strips beneath the bed chain, providing strength and long wear life.

EQUIPMENT HIGHLIGHTS

- A 6' (1.83 m) feed bed with live chain drive, tilted downward at 4° angle, provides efficient feeding.
- The Advantage 3™ drum creates more uniform chips and reduces operating and maintenance costs.
- The M20R Forestry has the heaviest frame among machines in the <20,000 lb (9,072 kg) weight range.
- Wireless remote with tethered back-up system controls the feed functions, yoke functions, throttle functions, rear stabilizers and hydraulic swivel discharge.

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Specifications may vary with equipment options

GENERAL	US	METRIC
Chipping Capacity	20"	50.8 cm
Infeed Opening	28" x 20"	71.1 x 50.8 cm
Length*	26'8"/22'9"	8.12/6.93 m
Height*	11'/11'5"	3.35/3.48 m
Width*	8'/8'6"	2.44/2.59 m
Gross Weight (approximate)*	19,500/ 26,540 lb	8,845/ 12,040 kg
Tandem Axle	20,000 lb (9,071 kg) torsion	
Engine	CAT	
Horsepower	415 HP	309 kW
Fuel Capacity*	65/74 gallons	246/280 liters
Hydraulic Oil*	43/56 gallons	162/212 liters
Tires	(4) 235/75x17.5	
Towing	Pintle Hitch Tongue with Skidder Plates	
Tracks (optional)	312B Caterpillar Undercarriage	

***Wheeled/Tracked**

- Infeed system consisting of one 20" (50.8 cm) diameter top compression feed roll, with a 26" (66.04 cm) wide x 9' (2.74 m) long live floor equipped with two strands of WDH-110 chain
- Straight discharge chute includes hydraulically operated chip deflect with vertical and horizontal adjustment
- Discharge clean-out door on bottom
- Steel guard enclosing valve bank and automatic feed system components
- Hydraulic front and dual rear hydraulic stabilizers



MORBARK®

30/36

WHOLE TREE DRUM OR MICROCHIPPER



The Morbark 30/36 Whole Tree Drum Chipper's high production rate lowers operating costs by increasing fuel efficiency. The aggressive, sloped live floor feeding system, with two strands of durable WHD-120 chain and large top and bottom feedwheels, ensures positive feeding of material, including brushy tops and limbs. Morbark's Advantage 3 Drum produces more consistent chips, while the heat-treated, AR-450 steel drum skin provides longer wear life for lower replacement costs and less downtime.

EQUIPMENT HIGHLIGHTS

- The Morbark Integrated Control Systems (MICS), the ultimate diagnostic system, monitors hydraulic pressures, temperatures, clutch systems and engine efficiency to maximize performance.
- The Advantage 3™ drum creates more uniform chips and reduces operating and maintenance costs.
- Directional flow discharge chute is hydraulically adjustable by remote control for maximum chip loads.
- Optional MicroChipper package available with accelerator to provide more tonnage per van.
- Wireless remote control with a tethered remote back-up system for chipper operation.

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Specifications may vary with equipment options

GENERAL	US	METRIC
Chipping Capacity	23"	58.42 cm
Infeed Opening	31" x 34"	78.7 x 86.4 cm
Length*	31'6" / 29'5.3"	9.60/8.97 m
Height	11'9.75" / 11'6"	3.6/3.5 m
Width*	8'4" / 8'6"	2.54 / 2.6 m
Gross Weight (approximate)*	38,000 / 57,000 lb	17,237 / 25,854 kg
Tongue Weight	7,200 lb	3,265 kg
Axle Weight	29,300 lb	13,290 kg
Engine	CAT	
Horsepower	577-800 HP	430.3/597 kW
Fuel Capacity*	160 / 200 gal	605/757 liters
Hydraulic Oil*	85/100 gal	322 / 379 liters
Tires	385/65R/22.5 20-ply	
Brakes	Air	
Towing	Pintle Hitch Tongue with Skidder Plates	
Tracks (577 HP only)	320L Caterpillar	

*Wheeled/Tracked

- Sloped Infeed System consists of one 30" (76.2 cm) diameter top compression feed roll with internal drive, a 14" (35.56 cm) diameter bottom feed wheel, and a 31" (78.74 cm) wide x 11'6" (3.5 m) long live floor equipped with two strands of WDH-120 chain.
- Straight discharge chute includes hydraulically operated chip deflect with vertical and horizontal adjustment and clean-out door on bottom
- Optional top-load discharge
- Hydraulic feed drive
- Automatic reversing fan system
- Rear hydraulic stabilizers
- Light package
- 11-HP (8.2 kW) air compressor



MORBARK®

40/36

WHOLE TREE DRUM OR MICROCHIPPER



Equipped with an extra wide feed opening, the Morbark 40/36 Whole Tree Drum Chipper aggressively feeds brushy tops and limbs, quickly and effortlessly filling a chip van to maximum legal load capacity. Morbark's Advantage 3 Drum produces more consistent chips, while the heat-treated, AR-450 steel drum skin provides longer wear life for lower replacement costs and less downtime. The feed system contains fewer moving parts, reducing maintenance. At 8'6" (2.59 m) wide (wheeled), this compact unit is easily transportable and requires no permits to move.

EQUIPMENT HIGHLIGHTS

- The Morbark Integrated Control Systems (MICS), the ultimate diagnostic system, monitors hydraulic pressures, temperatures, clutch systems and engine efficiency to maximize performance.
- The Advantage 3™ drum creates more uniform chips and reduces operating and maintenance costs.
- Directional flow discharge chute is hydraulically adjustable by remote control for maximum chip loads.
- Straight discharge chute includes hydraulically operated chip deflect with vertical and horizontal adjustment and clean-out door on bottom

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Specifications may vary with equipment options

GENERAL	US	METRIC
Chipping Capacity	24"	60.96 cm
Infeed Opening	40" x 39"	101.6 x 99.1 cm
Length*	37'5"/32'7"	11.4/9.9 m
Height*	12'4.25"/12'	3.8/3.7 m
Width*	8'6"/9'10"	2.6/3 m
Gross Weight (approximate)*	52,500/ 58,000 lb	23,813/ 26,308 kg
Tongue Weight	22,750 lb	10,320 kg
Axle Weight	31,750 lb	14,400 kg
Engine	CAT	
Horsepower	800 - 875 HP	596.6 - 653 kW
Fuel Capacity	300 gallons	1,135 liters
Hydraulic Oil*	187/100 gal	708/378 liters
Tires	385/65R/22.5 20-ply	
Brakes	Air	
Towing	Fifth Wheel	
Tracks (optional)	320L Caterpillar	

*Wheeled/Tracked

EQUIPMENT HIGHLIGHTS

- Sloped Infeed System consists of one 30" (76.2 cm) diameter top compression feed roll with internal drive, a 14" (35.56 cm) diameter bottom feed wheel and a 40" (101.6 cm) wide x 12'6" (3.81 m) long live floor equipped with three strands of WDH-120 chain in a staggered configuration
- Wireless remote control with a tethered remote back-up system for chipper operation
- Hydraulic feed drive
- Automatic reversing fan system
- Rear hydraulic stabilizers
- Light package
- 11-HP (8.2 kW) air compressor

OPTIONS INCLUDE

- MicroChipper package includes 16-knife drum, chip accelerator, and 3x3 grate system
- Top load discharge



MORBARK®

50/48X

**WHOLE TREE DRUM OR
MICROCHIPPER**



The Morbark 50/48 Whole Tree Drum Chipper is the largest, most productive drum chipper on the market. The 50/48X was updated to a similar design layout as Morbark's other industry-leading industrial drum chippers with a sloped infeed, externally adjustable anvil and large work platforms for easy access for routine maintenance. The reverse pivot yoke produces more down pressure than the conventional style yoke for aggressive feeding of a variety of material. The Advantage 3 drum assembly can come as 10-knives for fuel chip or 20-knives for micro-chip applications.

EQUIPMENT HIGHLIGHTS

- The Morbark Integrated Control Systems (MICS), the ultimate diagnostic system, monitors hydraulic pressures, temperatures, clutch systems and engine efficiency to maximize performance.
- The Advantage 3™ drum creates more uniform chips and reduces operating and maintenance costs.
- Directional flow discharge chute is hydraulically adjustable by remote control for maximum chip loads.
- The optional MicroChipper package includes slide-in forestry grate system and mechanically driven chip accelerator.

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Specifications may vary with equipment options

GENERAL	US	METRIC
Chipping Capacity	28"	71.2 cm
Infeed Opening	52' x 48"	132.08 x 121.9 cm
Length*	40'8.25"/39'	12.4/11.89 m
Height*	12'6"/12'	3.81/3.66 m
Width	9'9"	3 m
Gross Weight (approximate)*	72,120/ 86,900 lb	32,713/ 39,417 kg
Tongue Weight	29,700 lb	13,471 kg
Axle Weight	42,420 lb	19,241 kg
Engine	CAT	
Horsepower	1,050 to 1,200 HP	783 to 895 kW
Fuel Capacity	400 gallons	1,514 liters
Hydraulic Oil*	187/250 gal.	708/946 liters
Tires	425/65R/22.5	
Brakes	Air	
Towing	Fifth Wheel	
Tracks (optional)	325L Caterpillar	

*Wheeled/Tracked

EQUIPMENT HIGHLIGHTS

- Sloped Infeed System consists of one 40" (101.6 cm) diameter top compression feed roll with internal drive and a 50" (127 cm) wide x 11'5" (3.47 m) long live floor equipped with four strands of WDH-120 chain
- 14" (35.56 cm) diameter bottom feed wheel
- Wireless remote control with a 60' (18.28 m) tethered remote back-up system for chipper operation
- Straight discharge chute includes hydraulically operated chip deflect with vertical and horizontal adjustment and clean-out door on bottom
- Optional top-load discharge
- Independent drum drive tensioning system
- Automatic reversing fan system
- Light package
- 11-HP (8.2 kW) air compressor



MORBARK®

23X

CHIPARVESTOR® WHOLE TREE DISC CHIPPER



Morbark 23X Chiparvestor® whole tree chippers are built to last. The improved chipper hood design allows for better access to the disc during inspections and maintenance. Like the previous Model 23 Chiparvestors, the 23X uses a 75" (190.5 cm) diameter x 5" (12.7 cm) thick chipper disc to chip large volumes of wood, while the built-in dirt separator with deflector keeps the end product clean.

EQUIPMENT HIGHLIGHTS

- The Morbark Integrated Control Systems (MICS) monitors pressures, temperatures, clutch systems and engine efficiency to maximize performance.
- Each disc is fabricated from plate steel and put through ultrasonic testing. Material certification is issued for each disc, which provides the best chipper disc in the industry.
- Large work platform makes for easier and safer disc inspections and maintenance.
- Compact, 8'4" (2.54 m) width makes this machine is easy to transport anywhere in the world.
- 75" (190.5 cm) diameter x 5" (12.7 cm) thick three-knife chipper disc with LH rotation
- Four-knife option

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Specifications may vary with equipment options

GENERAL	US	METRIC
Length	31'8"	9.65 m
Height	12'10"	3.91 m
Width	8'4"	2.54 m
Gross Weight (app.)	55,000 lb	24,948 kg
Tandem Axle	44,000 lb suspension (19,958 kg)	
Engine	CAT	
Horsepower	800 HP	596 kW
Fuel Capacity	300 gallons	1,135 liters
Hydraulic Oil	100 gallons	378 liters
Tires	(4) 385/65R/22.5 20-ply Super Singles	
Brakes	Air	
Towing	Fifth Wheel	
Tracks (optional)	320L Caterpillar	

- Two-wheel hydraulic feed system: One 28.75" x 42" (73 cm x 106.68 cm) top feed wheel and one 13" x 42" (33.2 x 106.68 cm) bottom feed wheel
- Integrated Skidder Bar
- Remote control with a tethered remote back-up system
- Reversing fan
- Dirt separator with deflector
- Hydraulic swivel/telescoping discharge spout
- 11-HP (8.2 kW) air compressor
- Light package
- Rear hydraulic stabilizers
- Chip size: 0.625", 0.75", 0.875", 1" (in mm: 15.88, 19, 22.22, 25.4)
- Knives (3): 23" x 5" x 0.5" (58.42 cm x 12.7 cm x 1.27 cm)



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30

CHIPARVESTOR® WHOLE TREE DISC CHIPPER



The largest in the line, the Morbark 30 Chiparvestor® is designed for power! This aggressive machine features a chipper disc that is 5" (12.7 cm) thick and weighs 8,000 lb (3,628.74 kg), making it perfect for the toughest of jobs. With an 83" (210.82 cm) disc and a four-wheel hydraulic feed wheel compression system, this machine is fully equipped to handle what you give it. Customizable options include a three- or four-knife chipper disc, tri-axle, reversing fan, track option and many more, making it ideal for any of your needs.

EQUIPMENT HIGHLIGHTS

- The Morbark Integrated Control Systems (MICS) monitors pressures, temperatures, clutch systems and engine efficiency to maximize performance.
- Each disc is fabricated from plate steel and put through ultrasonic testing. Material certification is issued for each disc, which provides the best chipper disc in the industry.
- Powerful multi-wheel feed system provides positive feed of logs and tops for excellent chip quality.
- Optional Morbark 1000 knuckleboom loader boasts 25' (7.62 m) reach, 210° swing and by-pass grapple, and lift capacity of 20,000 lb (9,071.85 kg) at 10' (3.05 m).
- 83" (210.82 cm) diameter x 5" (12.7 cm) thick three-knife chipper disc with LH rotation
- Four-knife option

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Specifications may vary with equipment options

GENERAL	US	METRIC
Chipping Capacity	30"	76.2 cm
Length*	32'/41'	9.75/12.5 m
Height*	13'4"/13'6"	4.06/4.11 m
Width*	10'4"/11'	3.15/3.35 m
Gross Weight (approximate)*	58,000/ 82,000 lb	26,308/ 37,195 kg
Tandem Axle	50,000 lb (22,679.62 kg) suspension	
Engine	CAT	
Horsepower	1,050 HP	783 kW
Fuel Capacity*	300/400 gal	1,135/1,514 L
Hydraulic Oil*	200/300 gal	757/1,135 L
Tires	385/65R/22.5 20-ply	
Brakes	Air	
Towing	Fifth Wheel	
Tracks (optional)	SS40 Strickland	

*NCL/RXL

- Hydraulic chipper hood for easy knife access
- 30" (76.2 cm) x 10' (3.05 m) CAT chain infeed bed
- Four-wheel hydraulic feed system
- Two 13" (33 cm) x 25.75" (65.4 cm) side feed wheels and one 22.25" (56.52 cm) x 68" (172.72 cm) top feed wheel
- Dirt separator with deflector
- Hydraulic swivel/telescoping discharge spout
- Reversing fan
- 11-HP (8.2 kW) air compressor
- Remote control with a tethered remote back-up system
- Light package
- Rear hydraulic stabilizers
- Chip size: 0.625", 0.75", 0.875", 1", 1.25", 2" (in mm: 15.88, 19, 22.22, 25.4, 31.75, 50.8)
- Knives (3): 23" x 5" x 0.5" (58.42 cm x 12.7 cm x 1.27 cm)



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223

STAND-ALONE FLAIL



The 223 Flail is designed to work in conjunction with chippers like the Morbark 23 Chiparvestor®, the 40/36 Whole Tree Drum Chipper or similar machines. With a large 56" x 23" (142.24 cm x 58.42 cm) infeed opening, the 223 accepts logs up to 23" (58.42 cm) in diameter at a feed rate from 70-150 feet per minute. The Morbark Integrated Control System allows for fine adjustment of feed rate and flail drum speed so that bark removal is maximized and removal of "good" fiber is minimized for superior end products.

EQUIPMENT HIGHLIGHTS

- Large dedicated work/inspection area gives easy access to engine and hydraulic components.
- Kawasaki direct drive flail motors allow for adjustments of up to 700 RPM.
- Segmented flail drum provides better wear life than traditional tubular style drums.
- One top hydraulically driven feed roller mounted on a yoke assembly
- Two stationary bottom hydraulically driven feed rollers
- Dual horizontal chain flail drums (one stationary bottom, one carried by a floating yoke) with segmented drums; each equipped with eight flail chain rods

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Specifications may vary with equipment options

GENERAL	US	METRIC
Length (transport)	33'5"	10.18 m
Length (operating)*	25'2"/24'1.5"	7.67/7.35 m
Height (transport)*	10'6"/10'7.5"	3.2/3.24 m
Height (operating)	13'4"	4.06 m
Width*	9'10"/9'9.75"	3.0 m
Gross Weight (approximate)*	46,700/ 54,100 lb	21,185/ 24,539 kg
Infeed Opening	56" x 23"	142.24 cm x 58.42 cm
Tandem Axle	45,000 lb (20,411.66 kg) suspension	
Engine	CAT	
Horsepower	375 HP	279 kW
Fuel Capacity	230 gallons	870 liters
Hydraulic Oil	200 gallons	757 liters
Tires	(4) 385/65R/22.5	
Tracks (optional)	320L Caterpillar	

*Wheeled/Tracked

- Discharge system consisting of 62" (157.48 cm) x 19" (48.26 cm) opening and 61.5" (156.21 cm) x 11.5" (29.21 cm) hydraulically powered ram
- Flail Drum Speed: Adjustable from 0 to 550 RPM
- Feed Rate: Adjustable from 40 ft/min (12 m/min) to 145 ft/min (44 m/min)
- Remote control
- Hydraulic flail drive
- 11-HP (8.2 kW) air compressor
- Light package

OPTIONS INCLUDE

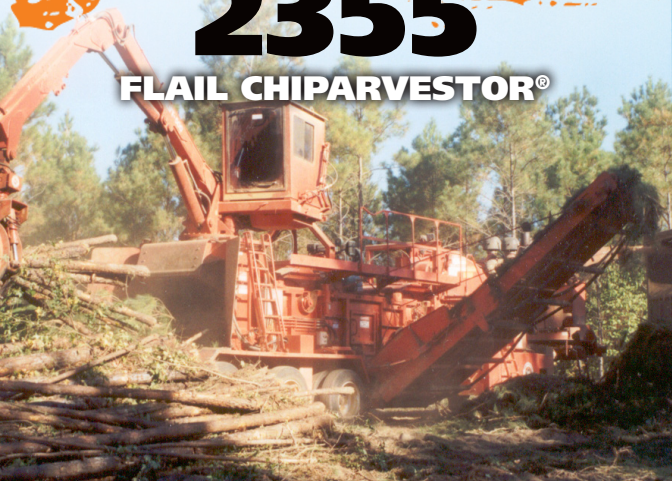
- ESPAR heating system for cold-weather start
- Track Undercarriage



MORBARK®

2355

FLAIL CHIPARVESTOR®



With a unique spreader infeed system to separate multiple stems, ultrasonically tested plate steel chipper disc, and hydrostatic controls, the 2355 Flail Chiparvestor is fully loaded and ready for action. With a 23" (58.4 cm) diameter chipping capacity and lift capacity of 17,200 lb (7,800 kg) at 10' (3.05 m), this machine produces high-quality chips even in non-merchantable and juvenile timber. The cab offers the operator a six-way adjustable seat, joystick controls, and combination air conditioner/heater making operating the 2355 safe and comfortable.

EQUIPMENT HIGHLIGHTS

- Flail drive is a closed-loop hydraulic design with separate hydraulic systems to operate each flail drum. Each system is complete with electric tach and controls in operator's cab.
- Each disc is fabricated from plate steel and put through ultrasonic testing. Material certification is issued for each disc, which provides the best chipper disc in the industry.
- Morbark Integrated Control System monitors hydraulic pressures, temperatures, and engine parameters; controls auto-reversing fan functions and feed functions; and allows utilization of remote diagnostic system.

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Specifications may vary with equipment options

GENERAL	US	METRIC
Length (transport)	54'3"	16.54 m
Height (transport)	13'11.5"	4.24 m
Width	11'2.5"	3.41 m
Gross Weight (approximate)	115,200 lb	52,253 kg
Infeed Opening	23" x 55"	58.42 x 139.7 m
Engine	CAT	
Horsepower	1,200 HP	895 kW
Fuel Capacity (tank)	500 gallons	1,892 liters
Hydraulic Oil Capacity	426 gallons	1,612 liters
Disc	75"	1.9 m
Capacity	23"	58.4 cm

EQUIPMENT HIGHLIGHTS

- Mor-Lift Model 500 Knuckleboom Loader has 23' reach, 270-degree swing and 17,200 lb lift at 10'.
- Three top feed rollers mounted on yoke assemblies
- Five stationary bottom feed rollers
- Dual horizontal chain flails with patented segmented drums are equipped with eight flail chain rods
- Third drum option
- Discharge system consisting of 60.5" (1.54 m) wide x 23' (7.01 m) long telescoping drag chain conveyor with hydraulic drive
- Optional push ram
- Air curtain
- 75" (190.5 cm) diameter chipper disc with three- or four-knife configuration
- Built-in dirt separator
- Hydraulic swivel/telescoping discharge spout
- Reversing fan
- 11-HP (8.2 kW) air compressor
- Light package
- Chip size: 0.625", 0.75", 0.875", 1" (in mm: 15.88, 19, 22.22, 25.4)
- Knives (3): 23" x 5" x 0.5" (58.42 cm x 12.7 cm x 1.27 cm)



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2455

STAND-ALONE FLAIL



Whether used alone or in combination with a Morbark whole tree chipper to create a total fiber utilization system, the 2455 Stand-Alone Flail is built for maximized output. With three top feed rollers mounted on yoke assemblies, two stationary bottom feed rollers, and a bark discharge conveyor that folds for transport, this machine has many features perfect for whole tree chipping. The enclosed weatherized operator's cab with color-tinted safety glass helps protect the operator.

EQUIPMENT HIGHLIGHTS

- Flail drive is a closed-loop hydraulic design with separate hydraulic systems to operate each flail drum. Each system is complete with electric tach and controls in operator's cab.
- The unique infeed system spreads multiple stems apart, which assists with more complete bark removal.
- The enclosed operator's cab includes six-way adjustable seat, joystick controls, combination air conditioner/heater and emergency shut-down system.
- MICS (Morbark Integrated Control System) monitors hydraulic pressures, temperatures, and engine parameters; controls auto-reversing fan functions and feed functions; and allows utilization of remote diagnostic system.

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Specifications may vary with equipment options

GENERAL	US	METRIC
Length	48'8"	14.83 m
Height	14'5"	4.39 m
Width	11'5"	3.48 m
Gross Weight (w/loader)	97,340 lb	44,153 kg
Rear Axle Weight	52,160 lb	23,659 kg
Tongue Weight	45,180 lb	20,493 kg
Engine	CAT	
Horsepower	800 HP	596 kW
Fuel Capacity (tank)	240 gallons	908 liters
Hydraulic Oil Capacity	400 gallons	1,514 liters
Tires	11Rx22.5x16-ply radial	
Brakes	Air	
Tandem or Tri axle	Fifth wheel	

EQUIPMENT HIGHLIGHTS

- Heavy-duty spreader feed system with 24" x 55" (60.96 cm x 139.7 cm) infeed opening, consisting of three top feed rolls with synchronized feed rates, mounted on yoke assemblies. The center yoke assembly contains the top flail drum, which hydraulically raises for various diameter wood. There are two stationary hydraulically driven bottom feed rolls and a 40" wide x 8' long (101.6 cm x 2.44 m) outfeed conveyor
- Four flail drums
- Reversing fan
- Remote control
- Discharge system consisting of 72" wide x 23' long (1.83 m x 7.01 m) telescoping drag chain conveyor with hydraulic drive. Debris is bottom discharged into dual 12" (30.48 cm) diameter twig augers



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2755

FLAIL CHIPARVESTOR®



Offering three- or four-knife chipper disc options, the 2755 Flail Chiparvestor is ideal for some of your toughest jobs. A 27" (68.58 cm) diameter chipping capacity and lift capacity of 17,200 lb (7,800 kg) at 10' (3.05 m) make the 2755 one of the toughest machines for any job. The enclosed weatherized operator's cab is mounted on rubber shock absorbers and tilts hydraulically for transport and includes combination air conditioner/heater and six-way adjustable seat and joystick controls.

FEATURES AND BENEFITS

- Flail drive is a closed-loop hydraulic design with separate hydraulic systems to operate each flail drum. Each system is complete with electric tach and controls in operator's cab.
- Each disc is fabricated from plate steel and put through ultrasonic testing. Material certification is issued for each disc, which provides the best chipper disc in the industry.
- MICS (Morbark Integrated Control System) monitors hydraulic pressures, temperatures, and engine parameters; controls auto-reversing fan functions and feed functions; and allows utilization of remote diagnostic system.

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Specifications may vary with equipment options

GENERAL	US	METRIC
Length	55'	16.76 m
Height	13'6"	4.11 m
Width	11'11"	3.63 m
Gross Weight (app.)	120,960 lb	54,866 kg
Infeed Opening	23" x 55"	58.42 x 139.7 m
Engine	CAT	
Horsepower	1,200 HP	895 kW
Fuel Capacity	500 gallons	1,892 liters
Hydraulic Oil Capacity	426 gallons	1,612 liters
Tires	11Rx22.5x16-ply radial	
Brakes	Air	
Tri axle	Fifth wheel	

EQUIPMENT HIGHLIGHTS

- Three top feed rollers mounted on yoke assemblies
- Five stationary bottom feed rollers
- Dual horizontal chain flails with patented segmented drums equipped with eight flail chain rods
- Third flail option
- Discharge system consisting of 60.5" (1.54 m) wide x 23' (7.01 m) long telescoping drag chain conveyor with hydraulic drive
- Optional push ram
- Air curtain
- 83" (210.82 cm) diameter chipper disc with three- or four-knife configuration
- Built-in dirt separator
- Hydraulic swivel/telescoping discharge spout
- Reversing fan
- 11-HP (8.2 kW) air compressor
- Light package
- Chip size: 0.625", 0.75", 0.875", 1" (in mm: 15.88, 19, 22.22, 25.4)
- Knives (3): 23" x 5" x 0.5" (58.42 cm x 12.7 cm x 1.27 cm)

C120

FORESTRY MULCHER



Rayco's C120 Forestry Mulcher is the answer if you're looking for a purpose-built mulcher but need the versatility of rubber tracks. It rides on a 18-inch (450 mm) wide steel-embedded rubber track (also available with 20" (500 mm) single or 18" triple grouser, steel tracks as the C120S). A reliable, 120-HP (89.4-kW) Cummins diesel engine supplies power, while Rayco's Super Flow, closed-loop hydrostatic system delivers mulching power not found in ordinary Compact Track Loaders. Purpose-built for mulching, the C120 features a heavy-duty rear door, hydraulic winch, and Rayco's exclusive elevated cooling design, which places engine radiators in both the rear of the engine compartment and in the limbriser for maximum cooling performance in the harshest climates. The cab is certified ROPS/OPS/FOPS with escape hatches in the roof and rear window.

EQUIPMENT HIGHLIGHTS

- Available with Rayco Predator or Denis Cimaf Mulcher head with 6-foot cutting width
- Steel Track option, single or triple grouser
- High/low travel speed with optional 7 mph FAST track
- Hydraulic cab tilt for easy access to critical components
- Elevated cooling system for hydraulics and A/C
- Reversing fans (engine & limbriser)
- Rear-mounted hydraulic winch

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Specifications may vary with equipment options

GENERAL	US	METRIC
Weight w/ Winch & FM120-6R (C120R/C120S)	16,725 lb/ 17,660 lb	7,586 kg/ 8,010 kg
Length w/ Winch	17'	5.2 m
Height (C120R/C120S)	8'6"	2.6 m
Width	7'	2.1 m
Engine	120-hp (89.4-kW) Cummins QSF 3.8L, T4F	
Fuel Type	Diesel	
Fuel Capacity	45 gallons	170.3 L
Hydraulic Tank	14 gallons	53 L
Rubber Track Width	18"	450 mm
Steel Track Width (single grouser/triple grouser)	20"/18"	500 mm/450 mm
Super Flow Hydrostatic Cutter Head Circuit	57 gmp • 5,800 psi	196.8 L/min • 34,997.8 kPa
Attachment Flow High/Low	40 gmp • 3,770 psi	151.4 L/min • 25,993.2 kPa
Travel Speed High/Low	4.7/2.6 mph	7.6/4.2 km/h
FAST Track (optional)	7 mph	11.3 km/h
Cab Certifications	ROPS ISO 8082 • FOPS ISO 8083 • OPS ISO 8084	

Standard Predator Mulcher Head Model FM120-6R

Weight	3,465 lb	1,571 kg
Overall Width	7'	211 cm
Rotor Diameter	16.75"	42.55 cm
Rotor Speed	2,200 RPM	
Ground Pressure	5.65 psi	39 kPa
Cutting Width	71.5"	182 cm
Max Mowing Height	89"	226.1 cm
Cutter Teeth	36 Carbide-Tipped, Reversible	

Optional DENIS CIMAF Mulcher Head Model FM120-6C

Weight	3,075 lb	1,395 kg
Overall Width	7'3"	219 cm
Rotor Diameter	18"	46 cm
Rotor Speed	2,500 RPM	
Ground Pressure	5.87 psi	40.5 kPa
Cutting Width	74"	189 cm
Max Mowing Height	89"	226 cm
Cutter Teeth	27 Sharpenable Planar Knives	

C200

FORESTRY MULCHER



For the ultimate in compact, powerful mulchers, look no further than Rayco's C200. Its narrow profile makes the C200 the ultimate for right-of-way clearing on narrow lines, as well as for use in larger-scale clearing projects. The operator cabin is comfortable and spacious, with a high-backed, heated seat with air-ride suspension. The rear fan is auto-reversing, reducing maintenance time.

FEATURES AND BENEFITS

- Powerful 188-HP Isuzu diesel engine
- Available with Rayco Predator or Denis Cimaf Mulcher heads, with 6-foot cutting width
- Steel Track Option
- Heavy-duty rubber track undercarriage
- 20-inch wide rubber or steel tracks
- 2-speed ground travel
- Hydraulic rear winch
- Hydraulic cab tilt for easy access to critical comp
- Certified ROPS/FOPS/OPS Cab
- Rear view camera with dedicated monitor
- Roof-top escape hatch
- High-output LED work lights

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Specifications may vary with equipment options

GENERAL	US	METRIC
Weight w/ Winch & FM200-6R Mulcher (Rubber/Steel Track)	20,760 lb/ 21,540 lb	9,416.6 kg/ 9,770 kg
Length w/ Winch & FM120-6R	229.4"	583 cm
Height	104.4"	265 cm
Width	90.8"	231 cm
Engine	188-HP (140 kw) Isuzu 5.2L, T4F	
Fuel Type	Diesel	
Fuel Capacity	64 gallons	242 L
Hydraulic Tank	20 gallons	75.7 L
Rubber/Steel Track Width	20"/18"	500/450 mm
Super Flow Hydrostatic Cutter Head Circuit	66 gmp • 5,800 psi	250 L/min • 400 bar
Travel Speed High/Low	4.8/2.7 mph	7.7/4.3 km/h
Cab Certifications	ROPS ISO 8082 • FOPS ISO 8083 • OPS ISO 8084	
Standard Predator Mulcher Head Model FM275-7R		
Weight	3,200 lb	1,451.6kg
Overall Width	86.25"	219 cm
Rotor Diameter	16.95"	43.05 cm
Rotor Speed	2,052 RPM	
Ground Pressure	5.71 psi	39.4 kPa
Cutting Width	68"	173 cm
Max Mowing Height	102.8"	261.1 cm
Cutter Teeth	36 Carbide-Tipped	
Optional DENIS CIMAF Mulcher Head Model FM120-6CA		
Weight	3,054 lb	1,386 kg
Overall Width	87"	219 cm
Rotor Diameter	18"	46 cm
Rotor Speed	2500 RPM	
Ground Pressure	5.31 psi	36.6 kPa
Cutting Width	74"	189 cm
Max Mowing Height	102.8"	261.1 cm
Cutter Teeth	27 Sharpenable Planer Knives	

C275

FORESTRY MULCHER & HYDRA-STUMPER



The C275 is a mid-sized forestry mulcher that delivers 275 hp (205 kW) in a compact, low-ground-pressure package. This mulching machine is suited for clearing small trees, underbrush, and a variety of unwanted vegetation across a wide range of environments. Customers can change between a Predator forestry mower/mulcher head and a Hydra-Stumper stump cutter attachment for the ultimate in high-production versatility. To minimize maintenance, a reversing fan can be activated to clear the limbriser debris screens. Operators appreciate the high-backed, heated seat with adjustable armrests and air-ride suspension.

FEATURES AND BENEFITS

- The heavy-duty steel undercarriage and powerful final drives allow operators to tackle difficult terrain with confidence.
- Rayco's exclusive elevated cooling design keeps engine and hydraulic temperatures within their limits in the harshest of environments.
- For safety, the cab is certified to meet ROPS, FOPS, and OPS specifications and is equipped with a roof-top escape hatch.
- Hydraulic cab tilt provides easy access to critical components.
- High-output LED work lights and a backup camera enhances rearward visibility.

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Specifications may vary with equipment options

GENERAL	US	METRIC
Weight w/ Winch	27,460 lb	12,455 kg
Length w/ Winch & FM275-7R	254"	645 cm
Height	120"	304 cm
Width	96.25"	244 cm
Engine	275-hp (205-kW) CAT C7.1, T4F	
Fuel Type	Diesel	
Fuel Capacity	80 gallons	303 L
Hydraulic Tank	25 gallons	94 L
Tracks: Single Grouser, Steel	Standard: 24" (600 mm) Optional: 20" (500 mm) or 28" (700 mm)	
High Flow Hydrostatic	102 gmp • 6,090 psi	386 L/min • 420 bar
Travel Speed High/Low	3.6/1.8 mph	6/3 km/h
Cab Certifications	ROPS ISO 8082-1 • FOPS ISO 8083 • OPS ISO 8084/J1356	

Standard Predator Mulcher Head Model FM275-7R/Denis Cimaf Limiting Ring Mulcher (DAF225Ex)

Weight	4,295 lb/5,400 lb	1,948 kg/2,360 kg
Overall Width	93" 102"	2.4 m/2,6 m
Rotor Diameter	20"	50 cm
Rotor Speed	2,050 RPM/2,500	
Cutting Width	77.5"/85"	2 m/2.2 m
Max Mowing Height	46"	118 cm
Cutter Teeth	42 Carbide-Tipped	

Hydra-Stumper Model CB275HS

Wheel Diameter	40"	102 cm
Wheel Thickness	3"	7.6 cm
Cutter Wheel RPM	650 RPM	650 RPM
Cutting Teeth	36 Rayco Monster Tooth™	
Weight	4,400 lb	1,995 kg
Cutting Range Below Ground Level	40"	102 cm
Cutting Range Above Ground Level	59"	150 cm
Cutting Width	108"	274 cm

T415

FORESTRY MULCHER & HYDRA-STUMPER



Rayco's powerful T415 forestry machine allows customers to change between a Predator forestry mower/mulcher head and a Hydra-Stumper stump cutter attachment for the ultimate in high-production versatility. Powered by a 415-hp (310-kW) CAT C9.3B Diesel Tier 4 Final engine, the T415 boasts a closed-loop hydrostatic system to power the mulcher or stump cutter heads, sending 140 gallons per minute (530L/min) to the attachment drive motor(s). The hydraulic output is power-optimized to match the engine's power curve, keeping the mulcher/stumper RPM constant even under load for a finer mulched product with fewer passes.

FEATURES AND BENEFITS

- The heavy-duty steel undercarriage and powerful final drives allow operators to tackle difficult terrain with confidence.
- Rayco's exclusive elevated cooling design keeps engine and hydraulic temperatures within their limits in the harshest of environments.
- For safety, the cab is certified to meet ROPS, FOPS, and OPS specifications and is equipped with a roof-top escape hatch.
- Hydraulic cab tilt provides easy access to critical components.
- High-output LED work lights and a backup camera enhances rearward visibility.

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Specifications may vary with equipment options

GENERAL	US	METRIC
Weight w/ Winch & FM415-8R	42,920 lb	19,468 kg
Length w/ Winch & FM415-8R / CB415	282" / 292"	716 cm/742 cm
Height	127"	322 cm
Width	112"	284 cm
Ground Clearance	22" at belly	56 cm
Engine	416-hp CAT	310-kW CAT
Fuel Type	Diesel	
Fuel Capacity	110 gallons	416 L
Hydraulic Tank	95 gallons	360 L
Tracks: Steel	Std.: 28" (700 mm) Dbl Grouser; Opt.: 24" (600 mm) or 28" (700 mm) Single Grouser	
High Flow Hydrostatic	140 gmp • 5,070 psi	530 L/min • 34,956 kPa
Travel Speed High/Low	3.7/2.0 mph	5.95/3.22 km/h
Cab Certifications	ROPS ISO 8082 • FOPS ISO 8083 • OPS ISO 8084/WCB G603	
Predator Open Face Carbide Mulcher Head Model FM415-8R/ Denis Cimaf Depth Limiting Ring Mulching Head DAF250Ex		
Weight	7,200 lb/5,400 lb	3,266 kg/2,450 kg
Overall Width	112"/103"	284.5 cm/ 261 cm
Rotor Diameter	27"/20"	68.5 cm/51 cm
Ground Pressure	5.74 psi	39.6 kPa
Cutting Width	91.25"/99"	232 cm/251 cm
Max Mowing Height	74"	188 cm
Cutter Teeth	45 Rayco Single-Bolt Teeth + 4 Rayco Single-Bolt, Extra-Carbide Teeth	
Hydra-Stumper Model CB415		
Weight	6,500 lb	2,950 kg
Wheel Diameter	48"	122 cm
Wheel Thickness	3"	7.6 cm
Cutter Wheel RPM	705 RPM	
Drive Belt	Gates Polychain® GT	
Ground Pressure	5.68 psi	39.2 kPa
Cutting Teeth	56 Rayco Monster Tooth™	
Below/Above Ground Cutting Level	37" / 8'10"	94 cm / 2.7 m
Cutting Width	9'	2.74 m

DAH

BOOM-MOUNTED MULCHING HEAD

The Denis Cima DAH models range from the DAH-065B, for 5 to 7 ton excavators, to the DAH-150Er, for 24.5 to 32 tons excavators. They can be installed on all mast-type hydraulic carrier with sufficient hydraulic lines, weight and power. The main advantages of this model lies in visibility, versatility, and mobility. With the wide ranges of carrier choices and the mulching capabilities of the DAH, there is no job too hard for a well-equipped land clearing or right-of-way maintenance business.

THE DAH AND DAF MULCHING HEADS ARE USED IN THE FOLLOWING APPLICATIONS:



Pipeline and transmission line maintenance



Highways, roads and trails maintenance



Firebreak creation and forest management



Private property maintenance and land clearing

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DAF

FRONT MOUNTED MULCHING HEAD



The Denis Cimar DAF models range from the DAF-150D, for carriers with a minimum 75-HP, to the DAF-2150Ex, for carriers with a minimum 250-HP. They can be installed on any type of front-mounted carrier with sufficient hydraulic lines, weight, and power. The smaller models are ideal for land maintenance and heavy brush clearing. The heavier models are real juggernauts that stop at nothing except your command.



**Download DAF Boom-mounted
Mulching Head Spec Sheet**



**Download DAF Front-mounted
Mulching Head Spec Sheet**



Wherever you're going, we have the metal and experience to get you there.

Most people in the biomass/forestry industry are tied to one market. However, diversifying can add stability to your company — while providing ways to enhance your bottom line. Morbark, and our affiliated brands Rayco and Denis Cimag, are happy to help you think beyond your current market. We can help you recognize opportunities for your business and convert those ideas into real business.

Our industry experts can help you choose equipment that matches your needs now and in the future. We can help you look at how the equipment can pay for itself. We do financial analyses for your company to help you decide when the capital costs are justified, and these are numbers you can take to the bank.

Service and Maintenance

We understand that your equipment may be the most important investment you'll ever make, so we make investment a two-way street through the development of an extensive, authorized dealer network and comprehensive after-sale service and support.

With regular factory trainings for our dealer service professionals, you can be sure that our global network of dealers will give you first-class support, wherever you are.

Quality Parts

With equipment that lasts as long as ours, we are prepared to provide parts for many years to come. In fact, we still provide parts for equipment built more than 50 years ago. All of our genuine parts are easily available through our dealer network.

In an industry that demands so much from its equipment, it is virtually impossible to find equipment that lasts this long and is supported so well.

If you're ready to grow, we're ready to help take you there!



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