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FUELS MANAGEMENT SOLUTIONS

Technical Specifications & Equipment

Every acre tells a story, and BurnBot is dedicated to helping write the next chapter in reducing catastrophic wildfires through scaled, strategic fuels treatment. Our specialized fleet includes Remote Mastication Teams (RMTs), the innovative RX remote-controlled blackline machine, and precision vegetation management tools to deliver comprehensive fuels reduction up to 60x more efficiently than traditional methods.

We provide full-service fuels treatments, matching the right tool to the right acre at the right time through our integrated approach of prescribed burning, mechanical thinning, and hand crews. Our technology-enabled solutions include remote-controlled masticators for challenging terrain, low-ground pressure equipment for sensitive areas, and advanced monitoring systems that ensure exceptional quality while minimizing environmental impact.



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REMOTE MASTICATOR

BurnBot's Remote Mastication Teams (RMTs) deliver precision fuels reduction through advanced remote-controlled units like the FAE RCU-75, capable of operating on slopes up to 55% while maintaining ultra-low ground pressure. This technology enables a single operator to safely and efficiently treat challenging terrain from a distance, significantly reducing labor costs while protecting retained vegetation and minimizing environmental impact. By accessing areas traditional equipment cannot reach, RMTs provide superior production rates and treatment quality for large-scale fuels reduction projects.

The BurnBot Remote Precision Masticator is perfect for:

- Defensible space
- Infrastructure right of way clearance
- Vegetation removal
- Creating fire & fuel breaks
- Firebreak maintenance
- Invasive species removal
- Land clearing



Model	FAE RCU-75
Type	Remote Controlled
Engine	Caterpillar C2.8
Power	Diesel, HP: 74
Max Torque	325 Nm @ 1600 RPM
Tracks	Steel or Rubber
Length	134 in
Width	60.6 in
Height	63 in
Operating Weight	7,716 lbs
Transport Weight	7,275 lbs
Clearance	12.6 in
Max Speed	3.7 mph
Max Slope	55° / 142%
Working Width	52 in
Cutting Capacity	up to 8 in diameter
Noise Level	95 dB(A)
Emission	EPA Tier 4 Final

RX REMOTE-BLACKLINE MACHINE

BurnBot’s RX remote-controlled blackline machine transforms prescribed burning operations by expanding burn windows and enabling precise fire patterns in variable conditions. This advanced technology delivers firing operations 3-4x faster than traditional hand firing while maintaining exceptional control and predictability. By streamlining complex burns through automated grid patterns and efficient operation, the RX2 frees up experienced fire personnel for other critical roles and enables seamless cooperation between private and agency crews, significantly increasing the pace and scale of prescribed fire treatments.



Length	28.5 ft
Width	8.5 ft
Height	8 ft
PSI	< 10
A self-contained burn chamber allows for higher wind speed tolerances (up to 20mph)	
Can perform burns in light rain/high humidity	
Operates on slopes perpendicular up to 30° / 58% and side slopes up to 20° / 36% (contingent on soil conditions)	
Ground clearance of 22” to handle uneven terrain	
Can handle flashy fine fuels up to 9 feet high	
Early testing indicates the RX is effective at eradicating seed banks in high fire danger areas containing invasive plant species.	
Nearly zero smoke emissions eliminating the need for air quality burn permits	
Little to no ember cast or escape risk	
Can operate in the WUI and within 5 feet of structures	
Capable of efficiently burning fuels that aren’t fully cured, providing exceptional flexibility in fuel options while maintaining optimal performance and consistent output	

Our approach enables flexible equipment deployment tailored to project requirements:

- Ability to match specific equipment to treatment prescriptions and terrain
- Multiple equipment combinations for optimal treatment efficiency
- Built-in redundancy across equipment types to maintain production
- Rapid mobilization capabilities through our trailer and transport fleet
- Capacity to quickly scale operations through additional equipment acquisition

EXPANDING OPERATIONAL CAPABILITIES

Extended Operational Windows

- Create blacklines earlier and later in the season than any other method
- Work early morning, all day, and even at night
- Significantly expanded burn windows to accomplish more

Access Challenging Environments

- Establish blacklines in areas where traditional methods are impractical or unsafe
- Operate directly adjacent to critical infrastructure
- Safely burn under high-voltage power lines

OPERATIONAL EFFICIENCY & SAFETY

Superior Performance

- RX2 blacklines last longer than those created by traditional methods
- Operate with minimal crew requirements (only 3-6 people)
- Dramatically reduced risk of escaped fire during prescribed burns

Environmental Control

- Create blacklines and defensive spaces with minimal or no smoke
- Effectively mitigate invasive plant species
- Environmentally superior to dozers or herbicides

VERSATILITY & DOCUMENTATION

Multi-purpose Equipment

- The RX can ignite vegetation within blacklines
- Burn out larger areas instead of using drip torches or flares

Comprehensive Data Collection

- Automatically logs all burn data:
 - Date and time
 - GPS information for mapping
 - Weather conditions
 - All operational parameters
- Complete data records available to customers and agencies

EQUIPMENT | Fuels Reduction & Forestry

Our mechanical treatment capabilities include a diverse range of specialized equipment to handle varying vegetation and terrain conditions.

Precision Delivered: The Right Tool, Right Time, Right Acre

Prime Tech | PT-300



HP: 300

- Mulching
- Stump grinder

Prime Tech | PT-475



HP: 475

- Mulching
- Stump grinder

CAT | 320 Log Loader



HP: 172

- Log loading
- Sorting and stacking

CAT | D5H Dozer



HP: 125

- Land clearing
- Firebreak
- Site prep
- Erosion control

CAT | 309 Excavator



HP: 74

- Mulching
- Clearing
- Stump
- Debris

CAT | 313 Excavator



HP: 108

- Mulching
- Clearing
- Stump
- Debris

CAT | D7 Dozer



HP: 265

- Land clearing
- Firebreak
- Site prep
- Erosion control

John Deere | 748H Skidder



HP: 200

- Skidding logs
- Land clearing
- Timber harvesting
- Erosion

CAT | 315 Excavator



HP: 110

- Mulching
- Clearing
- Stump
- Debris

CASE | DL-550 Minotaur



HP: 114

- Mulching
- Clearing
- Stump
- Debris
- Erosion control

John Deere | 648H Skidder



HP: 173

- Skidding logs
- Land clearing
- Timber harvesting
- Erosion

CAT | 515 Skidder



HP: 135

- Skidding logs
- Land clearing
- Timber harvesting
- Erosion

ASV | RT-120F



HP: 120

- Mulching
- Clearing
- Stump
- Debris
- Prep

Tigercat | 830 C Feller Buncher



HP: 247

- Harvesting trees

Link Belt | 350X3 Processor



HP: 268

- Felling
- Delimbing
- Buckling & debarking trees

Link Belt | 350X3 Delimber



HP: 268

- Felling
- Delimbing
- Buckling & debarking trees

TYPE-6 ENGINE

The Type-6 Engine is a versatile fire apparatus built on a light-duty truck chassis. It is equipped with a smaller water tank, a high-pressure pump, and essential firefighting tools. Its compact size and off-road capability make it ideal for accessing remote areas, supporting initial attack operations, and providing mobile water supply in rugged terrain.

Tank Capacity	150-400 gallons
Pump Min. Flow	50 gpm
@ Rated Pressure	100 psi
Hose 1 1/2" (Min.)	300 ft
Hose 1" (Min.)	300 ft
Pump and Roll	Yes
Max. GVWR	19,500 lbs
Personnel (Min.)	2
Typical Uses	Initial attack, brush patrol



OUR COMPREHENSIVE PROGRAM

BurnBot maintains comprehensive maintenance capabilities, including:

- Mobile repair facilities for field service
- Preventive maintenance programs for all equipment
- Strategic parts inventory for minimal downtime
- Strong relationships with equipment manufacturers and vendors
- Multiple equipment suppliers for operational flexibility

Through this comprehensive equipment program, BurnBot ensures each treatment area receives the optimal combination of machinery to achieve project objectives safely and efficiently while protecting environmental values. Our continued investment in diverse equipment capabilities demonstrates our commitment to matching the right tools to each specific treatment requirement.





Founded in 2020 in response to the devastating Bay Area wildfires, BurnBot emerged from a vision to revolutionize wildfire prevention through innovative technology.

Our founders, Dr. Anukool Lakhina and Dr. Waleed Haddad, combined their expertise in computer science and physics to develop groundbreaking solutions for one of our era's most pressing challenges.

What began as a response to turning skies red has evolved into a comprehensive approach to creating fire-resilient landscapes. Today, BurnBot leads the industry in merging advanced technology with stewardship, having successfully treated thousands of acres across California's diverse terrains.



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