Firewood Workshop

Equipment for the Production of Firewood

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Firewood Processing Equipment

[Images of various firewood processing equipment]
Firewood Workshop

Today’s Agenda

* Equipment Available Today

* What to Look for When Buying Equipment

* Accessories for Streamlining Production

* Future of Firewood Processing Equipment

* Future of The Firewood Industry

By: Marcus Steigerwaldt of Multitek North America, LLC
Firewood Processing Equipment

Four Basic Categories of Equipment

*Hobby
(1 to 100 cords/yr) (128 cu ft)

*Small
(101 to 500/yr)

*Medium
(500 to 1,000/yr)

*Large
(1,000+/yr)
Hobbyist Firewood Processing Equipment

Up to 100 Cords of Firewood Annually
Features of Hobby Firewood Processing Equipment

Small Gasoline Engines

*Honda
*Subaru
*Kohler
*Some PTO Options

Wedge Options

*2-way Split
*4-way
*6-way

Features

*Bar and chain
*Portable
*Small Equipment
*Pick Up Trucks
*Delivery Trailer

Pricing

*Log Splitters up to $12,000
*Chainsaws up to $800

Up to 100 Cords of Firewood Annually
Small Firewood Processing Equipment

Capacities – 12’ long logs and up to 16” diameter.
Production – Approximately 1 cord per hour

Up to 500 Cords of Firewood Annually
# Features of Small Firewood Processing Machines

**Gasoline Engines Up to 34 horsepower**

- Honda
- Subaru
- Kohler
- Some PTO Options

**Wedge Options**

- 2-way Split
- 4-way
- 6-way

**Features**

- Bar and chain
- Under 4,500 lbs
- Single Axle
- Up to 16” diameter logs

**Pricing**

- $20,000 to $40,000

**Up to 500 Cords of Firewood Annually**
Features of Small Firewood Processors

Major Components of Small Firewood Processors

*Chain driven log feed system
*Manual hydraulic levers or joysticks
*Detent splitter system (usually a 4” cylinder)
*Log hold down clamp
*Small conveyor
*Budget Friendly
*Powered Log Deck

Pricing

*$20,000 to $40,000

Up to 500 Cords of Firewood Annually
Limitations of Small Firewood Processors

Drawbacks of Small Firewood Processors

* Manufactured for low production
* Cycle times
* Log deck capacity
* Ergonomics
* Short conveyors
* Moderate duty construction
* Crooked logs
* Log diameter and length capacity

Up to 500 Cords of Firewood Annually
Small Firewood Processing Business

Up to 500 Cords of Firewood Annually
Medium Sized Firewood Processing Equipment

Capacities – 20’ long logs and up to 18” diameter.
Production – Approximately 2-3 cords per hour

500 to 1,000 Cords of Firewood Annually
Features of Medium Size Firewood Processing Machines

<table>
<thead>
<tr>
<th>Diesel Engines Up to 60 horsepower</th>
<th>Wedge Options</th>
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<tbody>
<tr>
<td>*John Deere</td>
<td>*2-way Split</td>
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<tr>
<td>*Kubota</td>
<td>*4-way</td>
</tr>
<tr>
<td>*Caterpillar</td>
<td>*6-way</td>
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<tr>
<td>*3-Phase Electric</td>
<td>*8-way</td>
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<table>
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<th>Features</th>
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<tr>
<td>*Bar and chain or Circle Saw</td>
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<td>*Under 8,000 lbs</td>
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<tr>
<td>*Single or Tandem Axle</td>
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<td>*Operator Cabin Option</td>
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<td>*$40,00 to $99,000</td>
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500 to 1,000 Cords of Firewood Annually
Features of Medium Size Firewood Processors

Major Components of Mid Size Firewood Processors

* Chain driven log feed system
* Manual hydraulic levers or joysticks
* Auto cycle splitter
* More sophisticated log clamp system
* 30’ or longer firewood conveyor
* Rugged construction
* Large capacity log deck

Pricing

*$40,000 to $99,000

500 to 1,000 Cords of Firewood Annually
Limitations of Mid Size Firewood Processors

Drawbacks of Mid Size Firewood Processors

* Log deck capacity
* Re-split for packaged wood
* Ergonomics
* Moderate duty construction
* Crooked logs
* Log diameter and length capacity

500 to 1,000 Cords of Firewood Annually
Medium Sized Firewood Business

500 to 1,000 Cords of Firewood Annually
Medium Sized Firewood Business

500 to 1,000 Cords of Firewood Annually
Large Firewood Processing Equipment

Capacities – 40’ long logs and up to 30” diameter.
Production – Approximately 3-6 cords per hour

1,000+ Cords of Firewood Annually
Features of Large Firewood Processors

- Diesel Engines Up to 150 horsepower
  - *John Deere
  - *Caterpillar
  - *Cummins
  - *3-Phase Electric

- 1,000+ Cords of Firewood Annually

- Wedge Options
  - *8-way
  - *10-way
  - *12-way
  - *16-way

- Features
  - *Usually Circle Saw
  - *12,000 lbs +
  - *Tandem Axle or Stationary
  - *Operator Cabin
  - *Large Capacity

- Pricing
  - *$100,000 to $199,000

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Features of Large Firewood Processors

Major Components of Large Firewood Processors

* Advanced log feed system
* Pilot control or electronic joystick
* Auto cycle splitter
* More sophisticated log clamp system
* 30’ or longer firewood conveyor
* Packaged wood wedges
* Operator comfort

Pricing

*$100,000 to $199,000

1,000+ Cords of Firewood Annually
Advanced Features of Large Firewood Processors

1,000+ Cords of Firewood Annually
Mega Firewood Producers

10,000+ Cords of Firewood Annually
Mega Firewood Producers

10,000+ Cords of Firewood Annually
Buying A Firewood Processor

What Size Machine Fits My Needs?
* Business Plan
* Sales Volume
* Packaged Wood, Bulk, Homeowner, Specialty
* Wood Supply

What Brand of Machine Should I go with?
* Reputable Company
* Talk to machine owners
* Trade-In Program
* Quality Construction
* Warranty and Service
* Parts Availability
Buying A Firewood Processor

General Construction Points of Interest

* Wear Items
* Hydraulic Components
* Manufactured Components
  a) Tanks, cylinders, frames, log decks
  b) Splitter Assembly
  c) Weld Quality
  d) Ease of Repair
* Oil cooler or large hydraulic tank
* Mobil Package
  a) Road legal
  b) Tongue weight
* Engine
  a) Clutch Assembly
  b) Safety Shut-offs
  c) Remote Engine Start
Buying A Firewood Processor

Circular Saw or Bar & Chain?
Brands of Firewood Processors in the US

* Multitek
* Cord King
* Blockbuster
* Dyna Products
* Timberwolf Corp
* Hahn Equipment
* Wood Beaver
* CRD Metalworks
* Bell’s Machining
* Palax
* Built-Rite Mfg
* Hudson
* Haake Pilke
Accessories For Streamlining Production

A Comfortable Operator is a Productive Operator

Reduce Labor and Handling
Accessories For Streamlining Production

Reduce Labor and Handling
Accessories For Streamlining Production

Reduce Labor and Handling

LOG BUSTER

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Accessories For Packaging Firewood

Bulk Bag Stand
With 1/4 cord bags

Wood Pak-R by B&B Manufacturing

Twister Wood Wrapper

Bagging Tip Tray
Packaged Firewood Products
Equipment For The Future-Elements

Technology  Automation

Ergonomics  Design

Electronics

Research and Development
The Future for Firewood & Fuelwood
Question & Answer Session
Firewood Workshop

Equipment for The Production of Firewood

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