

MV Ring Debarker 18" – 24" – 30"

Modular and versatile, USNR's MV Ring Debarker is designed with rugged flexibility in mind. It's fully customizable to accommodate your specific debarking needs, and you'll love getting a custom machine for a base model price.

PRIMARY
BREAKDOWN

SECONDARY
BREAKDOWN

GREEN TRIM, SORT,
AND STACK

LUMBER
DRYING

PLANER MILL
SYSTEMS

Solid Wood Products
Sawmill Systems
Dry Kilns
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Customer Support
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Rugged and Reliable Debarking

The USNR MV-Type Ring Debarker gives you excellent inline debarking performance in a great package. Our engineers have designed this debarker for maximum flexibility: our modular design means you get a custom machine at a non-custom price!

- ▶ Low Bark Content
- ▶ Minimum Fiber Loss
- ▶ Smooth Log Handling
- ▶ High Feed Speeds

MV Ring Debarker Delivers Modular Versatility

Feedworks

- ▶ Two triple infeed and outfeed feed roll sets
- ▶ Self-feeding feed rolls linked together in a triangular arrangement and tensioned by individually adjustable pneumatic cylinder
- ▶ Variable speed hydraulic feed roll drive
- ▶ Close-coupled setup for short logs
- ▶ Infeed/outfeed guide rolls accommodate chain or belt conveyors
- ▶ Stress-proof feedworks arms constructed with precisely machined welded steel housing, high-capacity roller bearings, steel drum feed rolls with welded steel spikes
- ▶ High-torque/low pressure hydraulic drive that easily compensates for a log's momentum when it reaches the feed rolls - shock load transfers to the hydraulic fluid, not the mechanical components



Sliding rotor drawer

Rotor

- ▶ Conventional rotor (adjustable bearing) has 3 tensioning options:
 - Air bags with canisters: one piece standard double-convoluted air bags combined to low inertia actuator components
 - Spider: tool tensioning with rubber bands
 - Hydraulic cylinders: tool tensioning uses combined hydraulic cylinders and rubber bands
- ▶ Air-seal rotor (adjustment-free bearing) with full remote control tool tensioning system
- ▶ Regular configuration with single or double rotors of identical or different diameters
- ▶ Extended configuration with double, triple or quadruple rotors of identical or different diameters.



Air bag canister tool tensioning system

Frame

- ▶ Fatigue resistant and perfectly aligned modular assembly consisting of CNC-machined heavy steel plates and high-strength steel tubing
- ▶ Debris-containing frame with large access doors
- ▶ Left or right sliding box-type rotor module for easy access



Pneumatic tensioning of feed rolls

MV Debarker Model	18"	24"	30"
Maximum feed rate ⁽¹⁾	325 fpm	260 fpm	200 fpm
Minimum log diameter	1 3/4"	2 1/2"	3"
Feedworks drive type	hydraulic	hydraulic	hydraulic
Feedworks drive (hyd.)	2 x 25 HP	2 x 25 HP	2 x 25 HP
Rotor drive (TEFC)	60 HP	75 HP	100 HP
Approximate weight	21,000 lbs 9,500 kg	35,000 lbs 15,900 kg	40,000 lbs 18,200 kg

(1) Feed rate varies with conditions (species, temperature, etc.).

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1981 Schurman Way, Woodland, WA 98674
7/24 Service Tel. 800.BUY.USNR +1 360.225.8267
info@usnr.com