

Debarkers

Primary Breakdown

Secondary Breakdown

Lumber Handling

Planing Systems

Residual Processing

DISC CHIPPER

Norman Disc Chipper

36" - 48" - 60" - 66" - 75"



One of a Kind

The exclusive, tested design of the USNR Norman Chipper is bringing greater profits to chip manufacturers around the world. Truly uniform chips are the result of the USNR Norman Chipper's continuous cutting action that makes it the only chipper of its kind!

Highest Quality Chips

The helical knives of the USNR Norman Chipper slice uniform chips instead of scraping them from the stock, eliminating sawdust, slivers, and oversize split ends. The Norman design, termed the greatest development in chippers since their origin, has multiple helically-ground faces which give a continuous cutting action similar to the advance of a propeller in water: chips are cut to uniform length along the whole length of the knife.

Fastest Feed Rates

In addition to high chip quality, this chipper design has an output capacity exceeding all others on the market. USNR Norman chippers have produced up to 125 units per hour with wood stock traveling through the disk at rates up to 800 lineal feet per minute.

Norman Disc Chipper

More, Better Chips

The USNR Norman Chipper successfully produces chips from trims, edgings, shims, slivers, and other wood-stock usually considered waste. Through uniform cutting action and precision construction more top-quality chips are produced per unit of wood.

Less Maintenance Needed

Because of the smoothness and steadiness of its operation, the USNR Norman Chipper requires less maintenance than other types. Reduction of impact resulting from the use of more knives means less abuse to all mechanical parts and motor, and no need for heavy foundations. All parts subject to wear are interchangeable and easily replaceable including anvil or bed plate inserts.

Simplified Installation

The USNR Norman Chipper with blower discharge eliminates floor and subfloor level mechanical conveyors, permitting clean installation with the use of minimum floor space. With blower discharge, chips can be elevated 60 feet and conveyed distances of 150 feet or more.

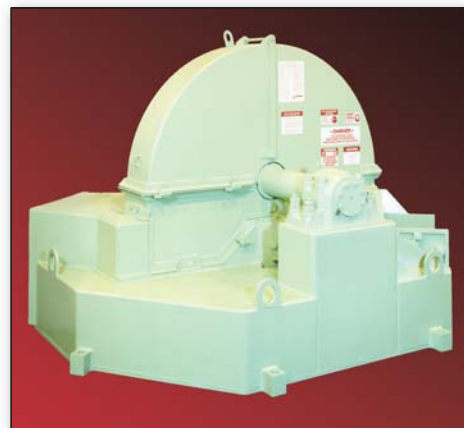
Less Down Time

The USNR Norman Chipper's simplified knife-holding arrangement permits a complete knife change in a half-hour or less. The larger number of knives used means fewer shut-downs are actually required. Knife grinding is as simple as that for ordinary chippers. Delays from clogging are also reduced because of the USNR Norman Chipper's high feed speed.

Less Power Needed

The precision setting of the helically-ground knives in the USNR Norman Chipper literally pulls the wood into the machine at a steady rate. This continuous wood flow coupled with greater impact frequency means smooth operation and a more constant motor load. This, in turn, minimizes the power needed as well as the strain on the machine frame and the supporting foundation.

DISC CHIPPER



Special Features

- ▶ Available in either bottom or top (blower) discharge, horizontal or drop feed
- ▶ Chipper disc is dynamically balanced
- ▶ Critical wearing surfaces of knife holders, anvils, and anvil inserts are hard-chrome-plated or hard-faced for long life
- ▶ Chipper is mounted on a solid steel base plate for maximum rigidity and stability; integral base for driving motor is optional
- ▶ Bearings are standard SKF spherical roller type with large reserve capacity, providing a long rated life; they can be replaced without removing the disc
- ▶ Chipper shaft is manufactured from 1040 steel
- ▶ Maintenance is simplified by making all parts interchangeable and by carefully balancing all replaceable disc parts (both wear and non-wear parts)

Chipper Model	36"	48"	60"	66"	75"
Maximum log diameter (horiz. feed)	8-1/4"	12"	16"	15"	22"
Diagonal opening (horiz. feed)	17-1/2"	28-1/4"	31"	30"	40"
Motor size (varies with application)	100 HP	150 HP	200HP	250 HP	300 HP
Typical feed rate and operating speed	690 fpm 1170 RPM	400 fpm 870 RPM	350 fpm 720 RPM	650 fpm 680 RPM	300 fpm 600 RPM
Typical production (units/hr)	12	15	30	50	50
Number of knives	10	8	8	16	8
Knife length	9"	16"	20"	18"	26"
Approximate weight	3,700 lbs 1,700 kg	7,200 lbs 3,300 kg	13,000 lbs 5,900 kg	14,000 lbs 6,400 kg	20,000 lbs 9,100 kg

Millwide. Worldwide.

USNR