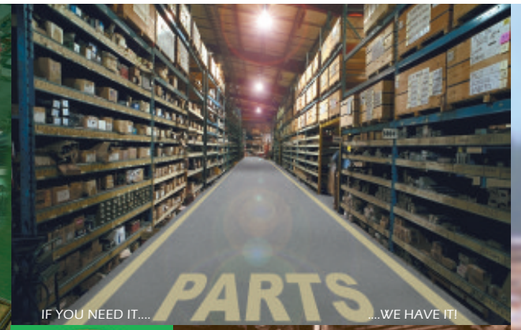
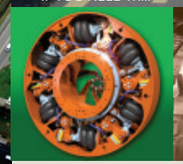
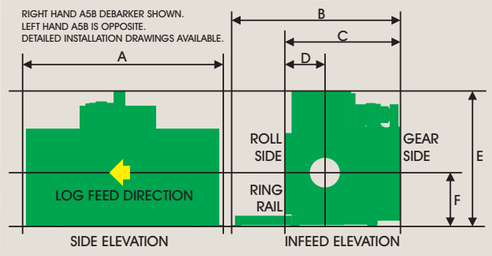












GENERAL DIMENSIONS
A5B 17" (43cm) SINGLE RING DEBARKER

A	Length (overall)	160.0	(406)
B	Width (including ring rail)	140.7	(357)
C	Width	98.0	(249)
D	Horizontal to centerline	35.0	(89)
E	Height (overall)	116.0	(295)
F	Vertical to centerline	46.0	(117)

Dimensions: Inches (cm)

NICHOLSON FOREST PRODUCTS EQUIPMENT GROUP

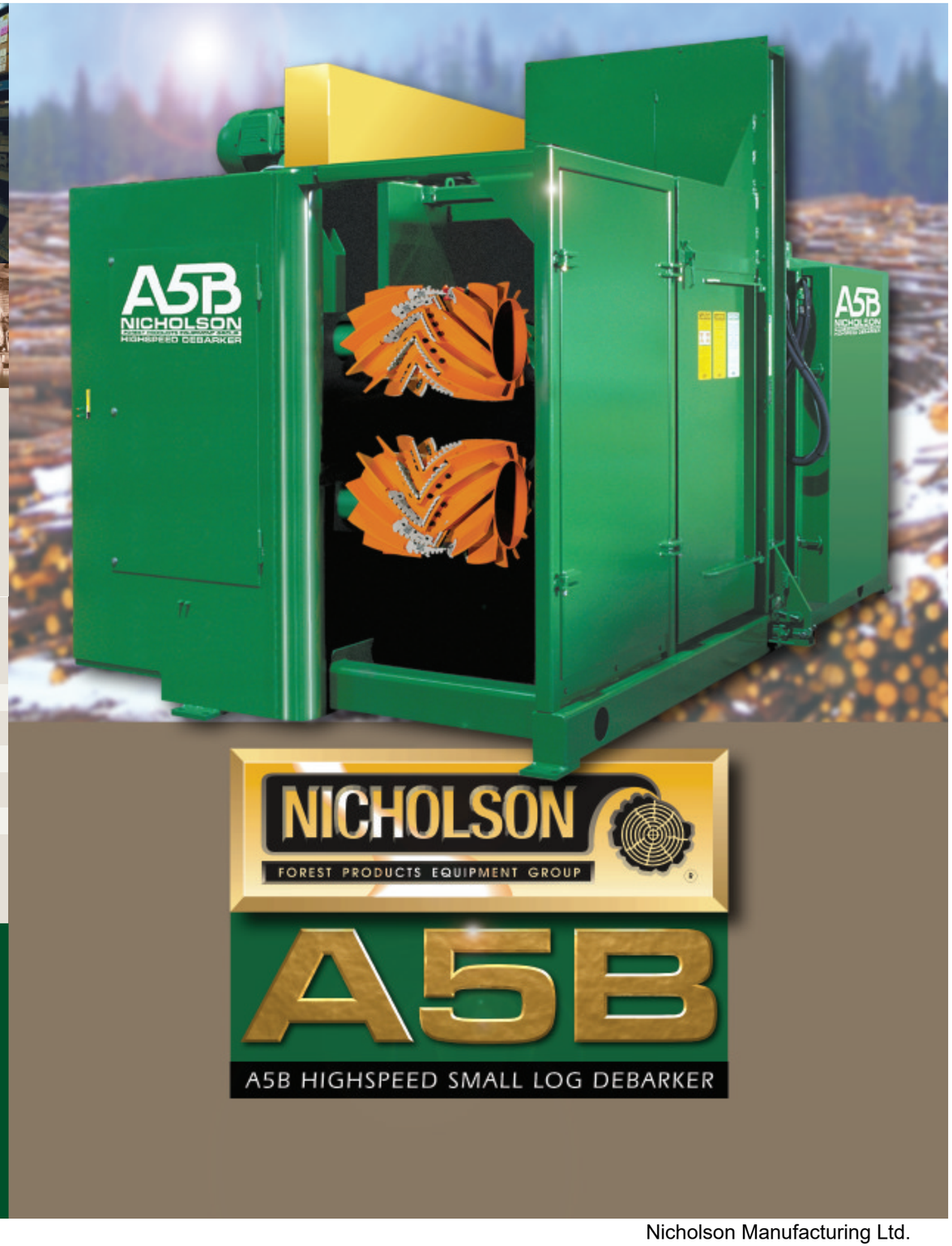
A1·A5B·A6·A8

The World's Finest High Production Ring Debarkers

EXPERT NICHOLSON SALES SUPPORT NEAR YOU:

NICHOLSON MANUFACTURING LTD. 9896 GALARAN ROAD, P.O. BOX 2128 SIDNEY, BC CANADA V8L 3S6 TEL: 250-656-3131 FAX: 250-656-3111
SEND WORLD WIDE EMAIL TO: forestsales@nmbc.com SEE OUR WEBSITE AT: www.debarking.com

The manufacturer reserves the right to make changes or add improvements at any time without incurring any obligation to make changes on machines manufactured previously.
Actual product may vary from photograph, illustration and description.
File: A5B Brochure update 22mar2007.p65



THE NICHOLSON A5B HIGHSPEED DEBARKER

The A5B incorporates all of the hundreds of engineering developments made over the life of the highly successful A5 and A5A series, and adds important new features like improved feedworks cylinder locations, discrete/automatic ring pressure control, central grease points and more.

A5 technology has been proven year after year in hundreds of sawmill, chipmill and boardmill installations around the globe. Of the many ways to debark logs, including drums, rosserheads and flails, only the Nicholson A5B ring debarker gives you clean debarking, high production and advanced fiber saving technology. Using a rotating ring, the A5B smoothly separates the bark from the log at the cambium layer without removing valuable fiber.

Highspeed debarking is the key to profitability. Log supplies today are often smaller diameter material. You must now process more logs. For example, it takes twenty-five 6-inch diameter logs to equal the gross wood volume of a single 30-inch diameter log. Those twenty-five 6-inch logs have five times more bark surface area than the single 30-inch log, so you have to debark faster and cleaner.

Nicholson has been the first to provide clean fiber-saving debarking at high feed speeds. We offer systems that feature proportional knife arm control, diameter-variable feed speeds, diameter-variable ring speeds, diameter-variable roll and arm pressure, special arms and tips, and other technological innovations to give you the very finest highspeed debarking available today.

The A5B is extremely versatile. Its rugged and compact single unit design is perfect for tight installations, retrofits and portable applications. The A5B is fully automatic and will debark logs of almost any species or configuration.

The A5B uses simple, rugged and thoroughly proven mechanical technology. Special design features like pullout rings, easy to access central lube sites, gear/roll position locks and interlocked access doors make service quick and safe.

Simple fixed infeed conveyors with v-type rolls are used to feed the A5B. Specially designed self-feeding and self-opening powered feedrolls are linked in pairs to automatically acquire and center the incoming log. Log gripping force is provided by powerful air cylinders located inside the



TANDEM A5B DEBARKER WITH BOTH RINGS PULLED OUT FOR SAFE AND CONVENIENT SERVICE


SINGLE RING LEFT HAND A5B DEBARKER VIEWED FROM THE INFEED END

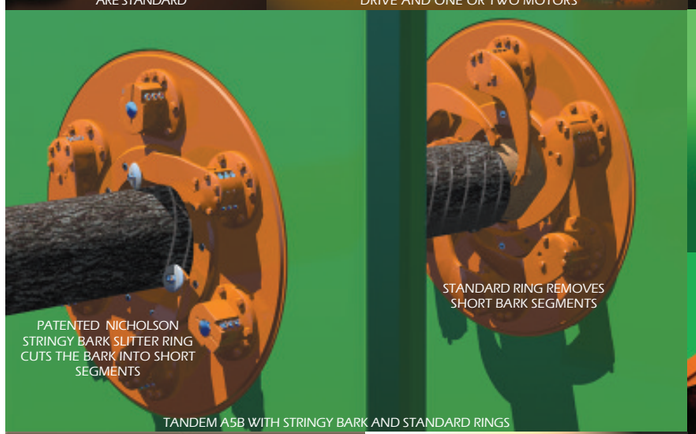
"For highspeed small log debarking, the Nicholson A5B is the proven solution!"


FIBERGUARD FEEDROLLS ARE STANDARD


TOP MOUNTED FEEDWORKS USES SIMPLE CHAIN DRIVE AND ONE OR TWO MOTORS

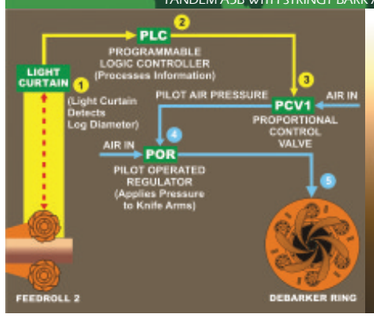

A5B FEEDWORKS AIR CYLINDER LOCATION PROTECTS CYLINDERS FROM DEBRIS AND REDUCES LOADS ON COMPONENTS BY 40%

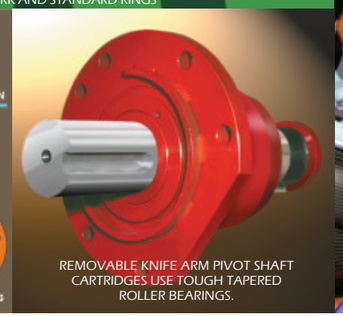

EXCELLENT SERVICE ACCESS

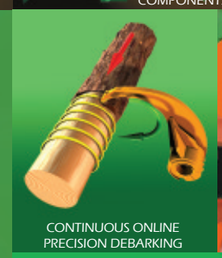

PATENTED NICHOLSON STRINGY BARK SLITTER RING CUTS THE BARK INTO SHORT SEGMENTS

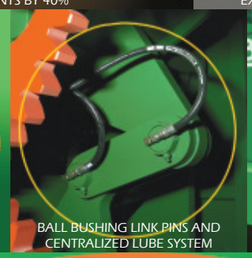
STANDARD RING REMOVES SHORT BARK SEGMENTS

TANDEM A5B WITH STRINGY BARK AND STANDARD RINGS




REMOVABLE KNIFE ARM PIVOT SHAFT CARTRIDGES USE TOUGH TAPERED ROLLER BEARINGS.


CONTINUOUS ONLINE PRECISION DEBARKING


BALL BUSHING LINK PINS AND CENTRALIZED LUBE SYSTEM


EASY INSPECTION AND SERVICE ACCESS TO AIR CYLINDERS


FAST RESPONSE EXTERNAL LINK BELLOWS RING SAVES FIBER AT HIGH FEED SPEEDS. RING TEMPERATURE SENSOR & GUAGE PACKAGE IS STANDARD ON ALL RINGS.

debarker for protection from dirt, damage and debris. Automatic roll pressure timing is used to provide both easy log entry and firm log capture.

The A5B's smooth and quiet feedworks are driven by precision machined steel spur gears for maximum reliability. Continuous automatic gear lubrication is provided by a separate pump and reservoir. Both gear and ring lube systems have fail-safe protection. The feedworks can be powered by a wide array of single or variable speed AC electric motors.

The Nicholson External Link Bellows Air Seal Ring lets the operator open and close the knife arms and change arm pressure during debarking. This inherently cool running and proven design is extremely reliable in high speed operation.

The ring is designed specifically for superior debarking at high feed speeds. The ring's special low mass actuators and knife arms help the knife tips stay on the surface of the log at high speeds. The result is more bark removed and more valuable wood fiber saved for your products.

Use of reversible wear seal surfaces, cartridge type air seal design and long wearing cast iron seal rings reduces both the cost and time needed to rebuild the air seal. The entire air seal can be rebuilt on site, quickly, by mill staff. A step by step video of the process is available.

Self opening Nicholson knife arms have replaceable knife tips. Knife arm designs for special applications are available.

Several types of knife tips are also available. Each type of tip is optimized for a particular type of debarking and generally comes in several tip angles to adjust to varying log conditions. Nicholson even offers an economical and convenient tip exchange program.

One of the most versatile A5B configurations is the tandem ring design. The tandem uses two in-line rings that can be used singularly or together. The tandem provides the very highest feed rates with excellent bark removal, or the very cleanest debarking at higher than normal feed speeds.

Nicholson Industries has led the steady march of progress in debarker technology since 1948. The goal today is the same as in 1948: Be the First with the Best. A very large percentage of our new sales are to customers that already own Nicholson equipment. In some cases, reliance on Nicholson equipment goes back several generations.