

# Northfield

## Heavy Duty 36" Band Saws

### ADVANCED DESIGN

NORTHFIELD Band saws undergo a constant process of testing and refinement, to maintain the highest standards of precision, speed, dependability, appearance and value.

### QUALITY MANUFACTURE

NORTHFIELD band saws are built to exacting quality standards in every detail. They are solid, smooth-running machines. Each band saw is electronically balanced for vibration-free performance.

### HEAVY DUTY FRAME

High strength cast iron frames with wide, ribbed feet give a solid stance, and absorb vibration.

### MACHINED AND GROUND TABLES

Tables are thick and heavily ribbed — machined and ground — equipped with removable, replaceable table inserts.

### TRUE ANTI-FRICTION ROCKER

Machined rocker and babbitt bearing type — a true anti-friction combination — for ease of adjustment, plus natural resistance to rust and corrosion. Rocker can be angled and locked solidly at any degree by use of screw and nut-tilting device and positive lock.



*Direct Motor Drive  
Heavy Duty  
36" Bandsaw*



# FEATURE-FULL *Northfield* BAND SAWS

**HEAVY ONE PIECE CAST IRON FRAME** is hollow cored for strength and rigidity.

**LONG, RIGID, HEAVY-DUTY QUILLS** use large, sealed-for-life ball bearings and high quality spindle steel. Top quill is adjustable for accurately and easily tracking the blade.

**STREAMLINED, HEAVY STEEL REINFORCED GUARDS** are of pleasing design and noiseless construction. The guide post guard adjusts with the guide to give maximum protection.

**SENSITIVE, POSITIVE SAW STRAINING DEVICE** consists of a very sensitive knife edge spring lever arrangement which absorbs shock and provides proper tension. Tension indicator is easily read.

**CARTER CP SERIES MICRO PRECISION BALL BEARING GUIDES** are furnished as standard equipment. Size 1 on top, Size 0 below the table. Paddock, Wright and Carter Guideall Guides available upon request.

**CARTER SUPER RIGID WHEELS WITH LOC-ON TIRES.** Northfield 36" Band Saws are furnished with Carter demountable steel wheels which allows tires to be changed by simply removing the retaining ring and replacing the tire.

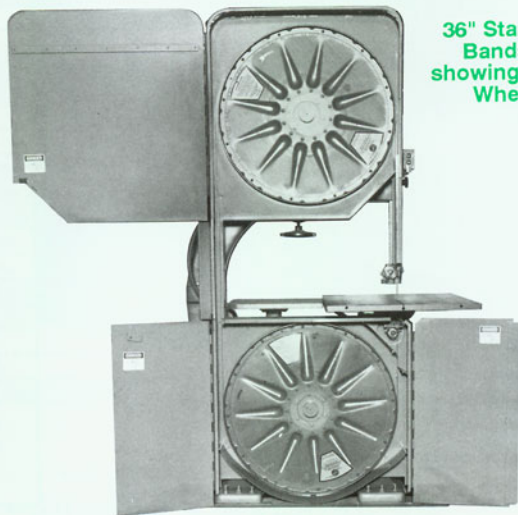
**FOOT OPERATED BRAKES FOR OPTIMUM SAFETY.** Mechanical two wheel brakes can be arranged with switch that stops power on application of brakes.

**AUTOMATIC ELECTRIC TWO WHEEL BRAKES** are the very finest, safest and simplest braking system used on any band saw. Available on any NORTHFIELD factory installed motor. Automatic, electric two wheel brakes are activated by (1) STOP push button, (2) foot pedal control, (3) when blade breaks, (4) when blade runs off wheel.

**36" Carter Wheels  
with Loc-on Tires**



**36" Standard  
Bandsaw  
showing Carter  
Wheels**



# 36" Deluxe & Standard Models

Up to 48" Underguide

## Northfield "DELUXE" 36" HEAVY DUTY BAND SAWS

*The Largest and Finest Band Saw in the Line*  
Equipped with:

36" x 2" steel disc wheels with demountable, steel reinforced rubber tires / Heavy Duty quills / 37" x 37" table tilts 45° right and 5° left / Stationary table 16" x 19" / Removable table insert / Two ball bearing guides / Heavy steel hinged guards / Dust chute / 30" under guide / Tension indicator / Automatic safety tension control / Automatic safety brake on upper wheel which operates automatically if blade breaks or runs off wheel; also operates by push button or lower wheel brake / Blade tracking guide / Spring counter balance / Work light / Totally enclosed fan cooled motor / Sealed-for-life ball bearings throughout / Magnetic starter with push button control / Direct Motor Drive, constant speed belt or variable speed drives available

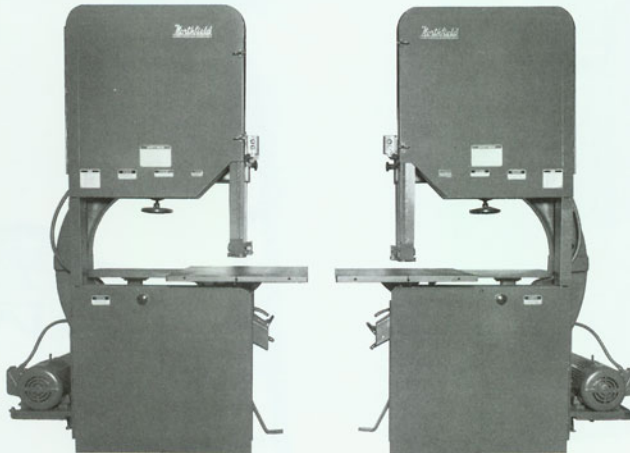
## Northfield "STANDARD" 36" HEAVY DUTY BAND SAWS

36" x 2" steel disc wheels with demountable steel reinforced rubber tires / Heavy duty quills / 30" x 36" table tilts 45° right and 5° left / Stationary table 16" x 19" / Removable table insert / Two ball bearing guides / Heavy steel hinged guards / Dust chute / Spring counter balance / Foot Brake / Tracking guide / Tension indicator / 1/4" x 2" wide blade capacity / one 3/8" blade / 22" capacity under guide / Sealed-for-life ball bearings throughout / If ordered without electrics a motor base at the side is furnished / Direct Motor Drive, constant speed belt or variable speed drives available

## Right and Left Hand Band Saws

NORTHFIELD 36" Band Saws are available in RIGHT and LEFT HAND configurations. This allows you to solve any flow of material problems your facility layout or product design may pose.

In addition, under guide heights of up to 48" make NORTHFIELD the most adaptable band sawing machine on the market.

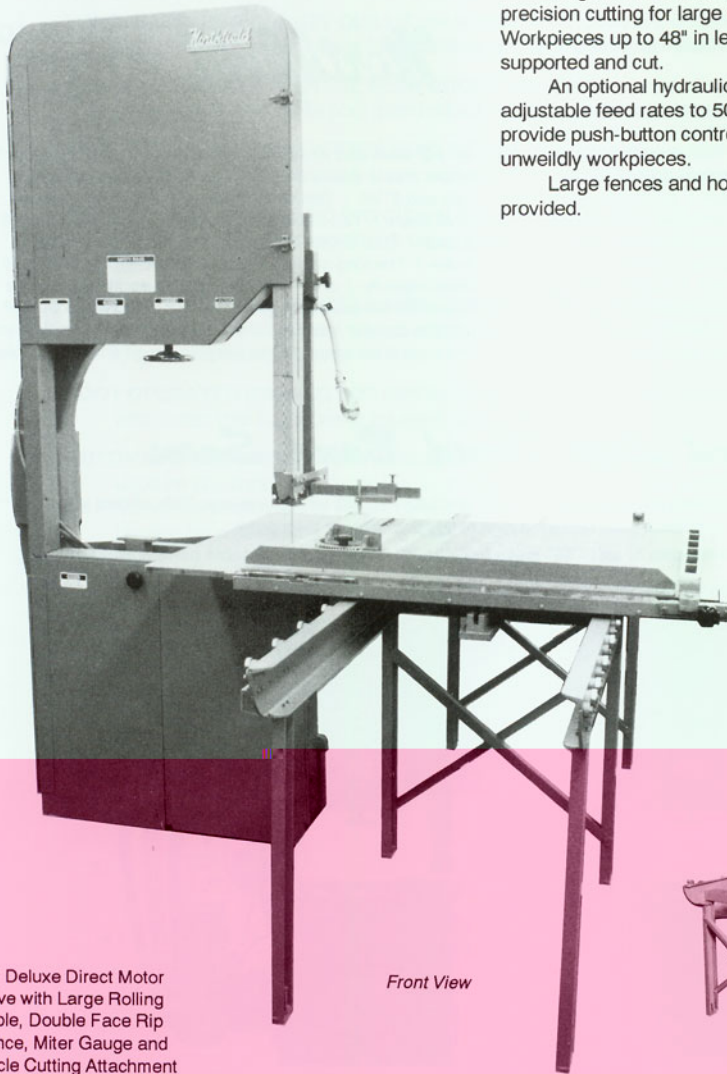


# 50" x 50" Tilting and Rolling Tables

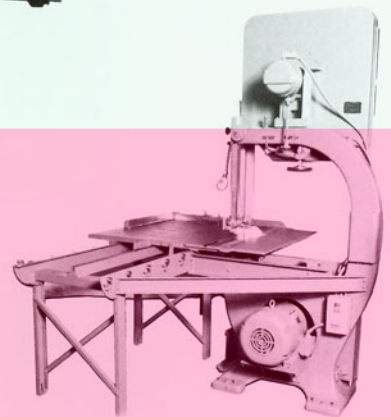
Large 50" x 50" cast iron rolling table affords precision cutting for large or heavy workpieces. Workpieces up to 48" in length can be accurately supported and cut.

An optional hydraulic feed with infinitely adjustable feed rates to 50 fpm is available to provide push-button controlled cutting of the most unwieldy workpieces.

Large fences and hold down clamps can be provided.



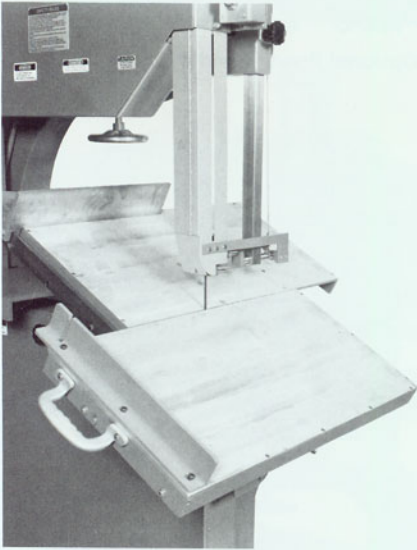
*Front View*



*Rear View*

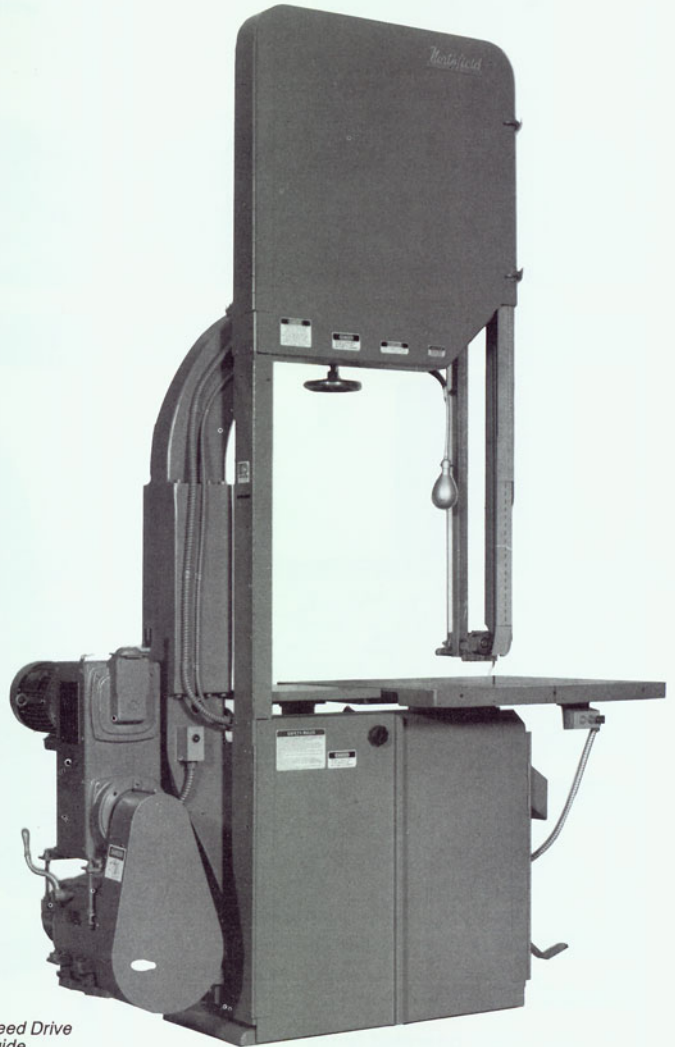
36" Deluxe Direct Motor Drive with Large Rolling Table, Double Face Rip Fence, Miter Gauge and Circle Cutting Attachment

# 3:1 & 40:1 36" Variable Speed Band Saw



## Tilting & Rolling Table

Aluminum construction with Thompson anti-friction bearings. Right side sliding section offers 22" travel.



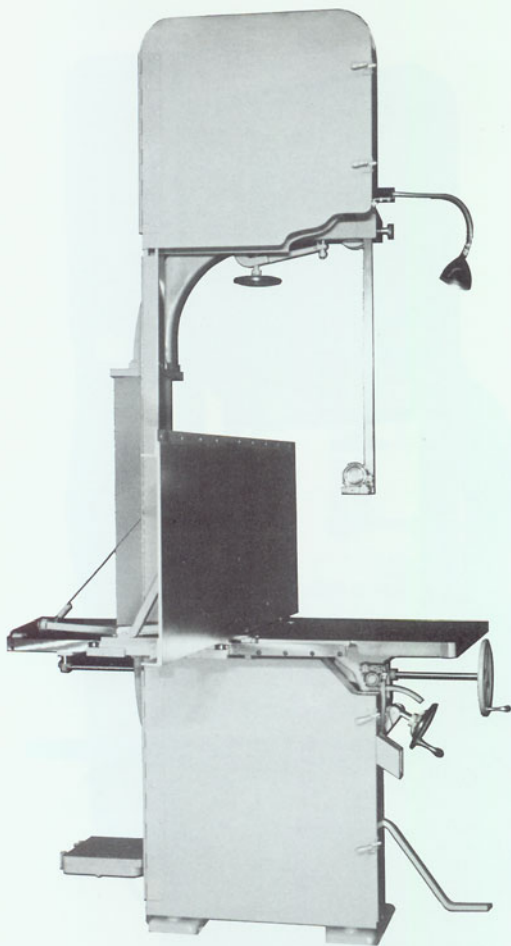
40:1 Variable Speed Drive  
with 42" under guide

DRIVE ASSEMBLIES FOR  
CUTTING WOOD, METAL,  
PLASTICS, ETC.

# Options

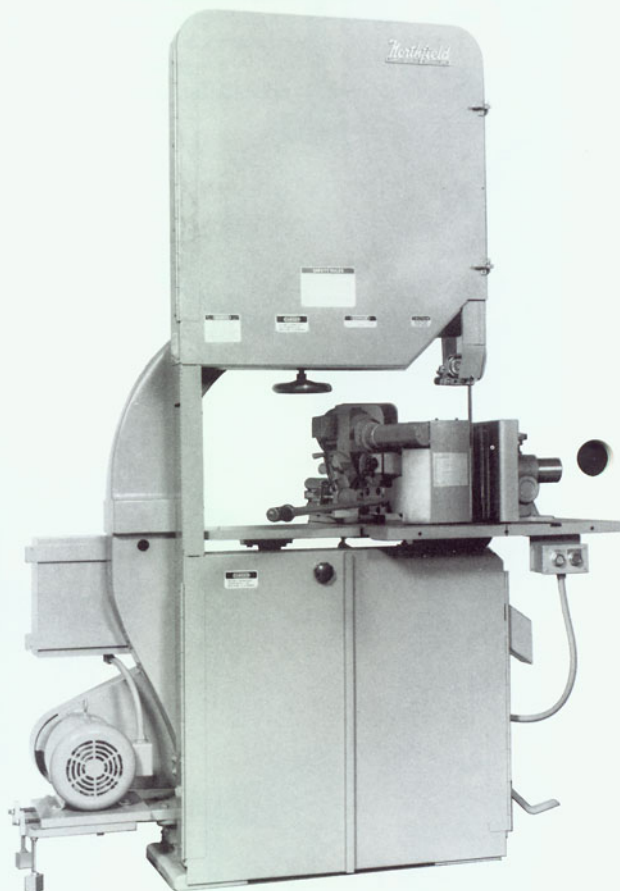
## Belt Drive Band Saw

with Optional Power Feeder



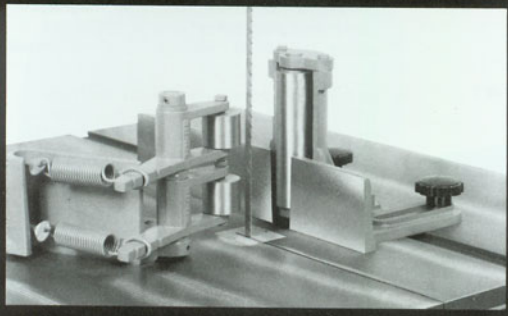
## Extended Height Band Saws

with hand-wheel operated fence

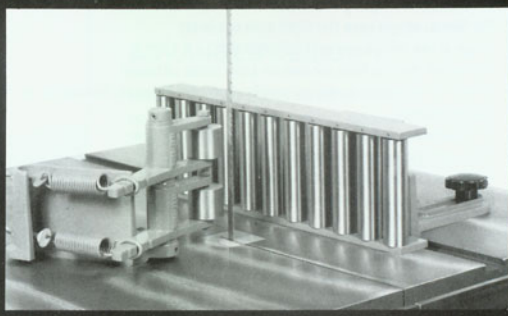


# Options

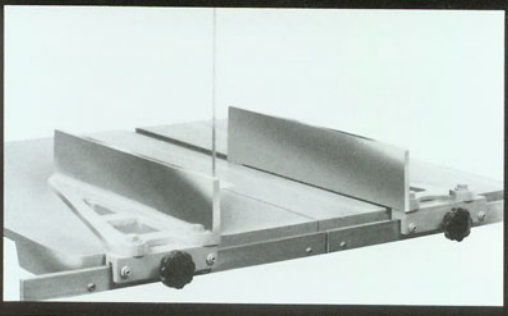
Single Roller Resaw Fence



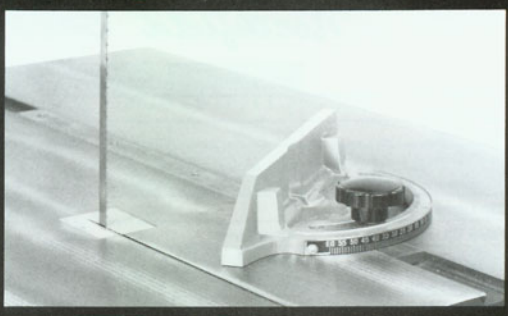
11 Roller Resaw Fence



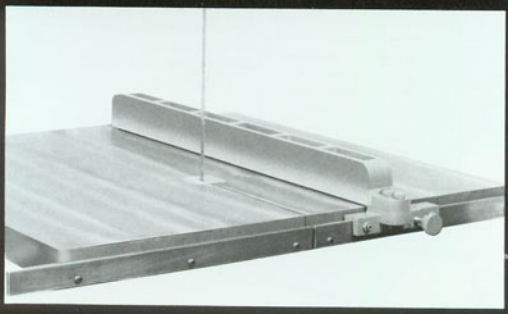
Single Face Rip Fences (left & right)



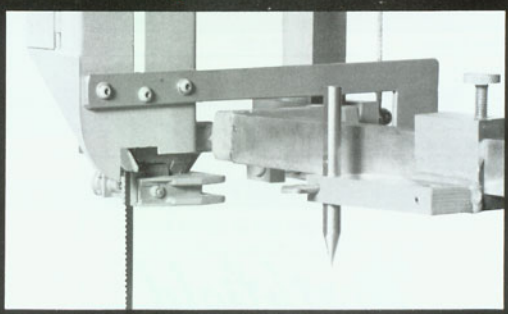
Miter Gauge with Dovetail Slot



Double Face Rip Fence



Circle Cutting Attachment



## EXTRAS FOR ALL 36" BAND SAWS

- Work light, 110V, plugs into customers' 110V receptacle, or work light 110V-100W using transformer in starting box, also gives 110 volt at push-button.
- Crosscut (miter) gauge and slot
- Rip fence, single face (for right side of blade)
- Large cross cut gauge with dovetail slot
- Rip fence, double face for use on both sides of blade
- Switch for stopping power on application of foot brake (furnished on "Deluxe" 36")
- Blade welders
- Air nozzle assembly, connects to customer's air line
- Hand and power resaw attachment
- Paddock Guides, Wright Guides, Guideall 400
- Large rolling table, 48" cut-off x 50" wide, solid cast iron, non-tilting table with 12" x 50" auxiliary table
- Power feed attachments for rolling tables
- Left-hand machines
- 48", 36", 30" and 24" (standard) Under guides
- Two wheel foot operated synchronized brakes (standard model)
- Upper wheel automatic synchronized safety brake (standard motorized models) includes automatic tension control
- Lower wheel automatic synchronized safety brake

## VARIABLE SPEED ASSEMBLIES

- 3:1 variable speed drive assembly; 1,200 – 400 RPM, 900 – 300 RPM, 600 – 200 RPM. Includes motor, pulley, belt, base, magnetic starter and push-button control, belt guard, wiring, assembled complete. TEFC motors with 2, 3, 5, 7½ and 10 HP
- 40:1 variable speed drive assembly: highest 1,200 RPM or any 40:1 speed ratio. Includes motor, pulleys, belts, base, 4-speed gear box, final drive, magnetic switch and push button control, guards, wiring, assembled complete. TEFC motors with 3 and 5 HP

### TO CALCULATE BLADE SPEED IN FPM:

Multiply RPM x 9.424'  
 examples:  
 900 RPM x 9.424 = 8481 FPM  
 300 RPM x 9.424 = 2827 FPM

## Northfield Band Saw Specifications

	STD	DELUXE
Wheel Face	2"	
Table Size	30" x 36"	37" x 37"
Front Edge of Table to Teeth of 3/8" Blade	12"	13"
Cap Under Guide	22"	30"
Table Tilt to Right	45 degrees	
Table Tilt to Left	5 degrees	
Horizontal Cap	35 - 1/2"	
Table Height	42"	
Wheels	Carter Loc-On Steel Disc Demountable Tire	
Brakes	Lower Wheel Foot Operated	Lower Wheel Foot Operated & Upper Wheel Automatic
Floor Space	50" x 60"	50" x 63"
Domestic Shipping Wt.	2700 lbs.	3000 lbs.
Export Shipping Wt.	3300 lbs.	3600 lbs.
Cubic Export Crate Size	165 cu. ft.	180 cu. ft.
Wheel Circumference	36" Dia. = 9.424 ft.	
Dust Outlet	4.5W x 5.5H use 5" pipe	
Machine requires approx 600 CFM air flow for dust collection		

DRIVE PACKAGES All Motors TEFC	
Direct Motor Drive	Belt Driven Single Speed
5 HP 1,200 RPM	2 HP
5 HP 900 RPM	3 HP
5 HP 700 RPM	5 HP
5 HP 600 RPM	7-1/2 HP
7-1/2 HP 1,200 RPM	10 HP
7-1/2 HP 900 RPM	15 HP
7-1/2 HP 700 RPM	3 HP single phase
7-1/2 HP 600 RPM	5 HP single phase
10 HP 1,200 RPM	
10 HP 900 RPM	Minimum 300 RPM
10 HP 700 RPM	Maximum 1,275 RPM
15 HP 1,200 RPM	Speeds lower than 300 RPM
15 HP 900 RPM	Contact Factory

### VARIABLE SPEED ASSEMBLIES:

#### 3:1 Variable Speed Drive Assembly

2 HP	Highest 1,200 RPM and slowest 200 RPM
3 HP	200 to 900 RPM
5 HP	300 to 900 RPM
7-1/2 HP	400 to 1,200 RPM
10 HP	
2 HP single phase	
3 HP single phase	

#### 40:1 Variable Speed Drive Assembly

3 HP	Highest RPM is 1,200
5 HP	Any 40:1 speed range in below 1,200 RPM

**Northfield** MACHINERY BUILDERS, INC.

320 Water Street North  
 P.O. Box 140  
 Northfield, MN 55057

Phone: (507) 645-5641  
 Fax: (507) 645-4005

