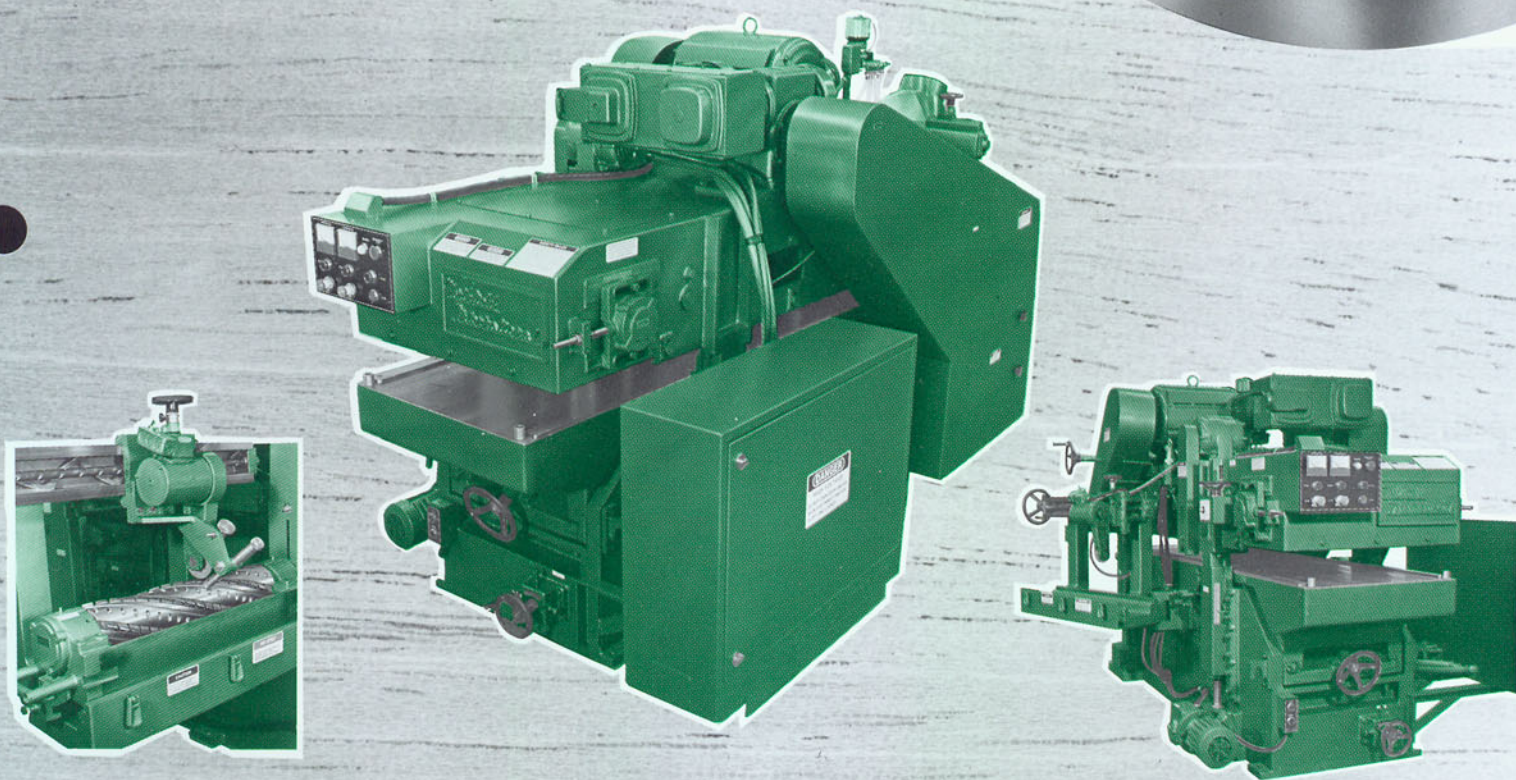


*Northfield*

# 240

**double cutterhead facer planer**

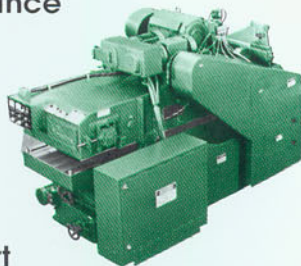


**economical & versatile  
positive infeed  
conforming carpet  
accessible controls  
2-hour cutterhead  
mtce.  
power platen  
elevation  
automatic oiling**



## economical & versatile

The Northfield 240 offers operating and maintenance economy with easy to use controls and total machine accessibility. The economical and versatile 240 has successfully run strips 1/4" thick x 1" wide. It handles butt pieces short as 6" and accepts stock 24" wide x 6" thick. Feed speeds adjust from 25 to 100 fpm.



## positive infeed

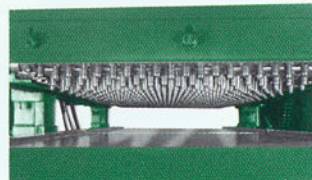
Cast infeed table has 1/2" vertical adjustment — helps assure positive feed when making deeper bottom cuts. Massive table rides on heavy cast iron ways. Infeed table and machine bed have side stock guides which prevent lateral runouts. All four 4" feed rolls are powered. Sectional



upper infeed roll has 2" milled ductile sections for positive feed. Upper rolls are spring loaded. Lower rolls are independently adjustable. Top cutterhead has full width, spring loaded, sectional chip breaker.

## conforming carpet

Main carpet feeds stock at 25 to 100 fpm. Carpet has over 1300 9/16" diameter pins arranged in tight rows. These small, spring loaded pins conform to irregular or warped surfaces better than large diameter, wide spaced pins. Pin downpressure is adjustable. Full-length carpet has 6' contact length — runs on heavy duty rollers. Carpet drive has overload clutch — drive releases when feed pressure is excessive. Carpet tension is adjustable with sight gauges.



## accessible controls

Main electrical control panel is easy to use and accessible from front of machine.

# 240 — the uptime face own — easy to use —

LOWER CUTTERHEAD  
JOINTING MOTOR

CONTROL PANEL

INFEED TABLE  
ELEVATION

PIN PRESSURE  
ADJUSTMENT

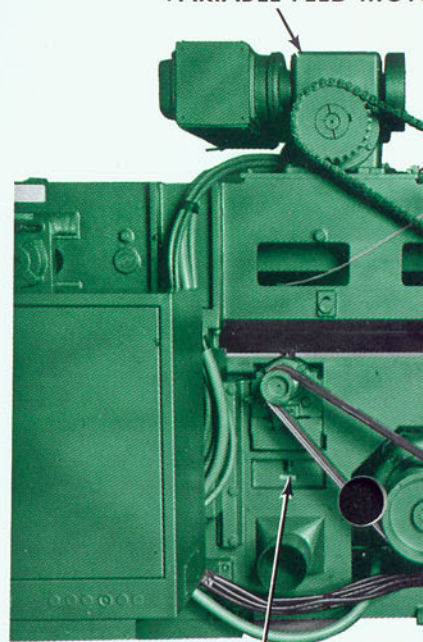
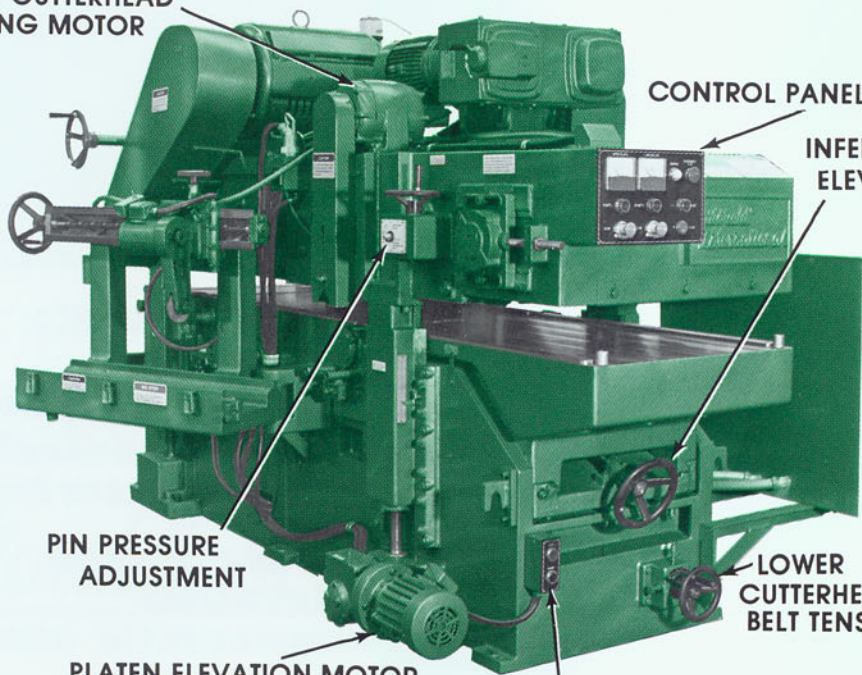
PLATEN ELEVATION MOTOR

PLATEN ELEVATION  
CONTROL SWITCH

LOWER  
CUTTERHEAD  
BELT TENSIONER

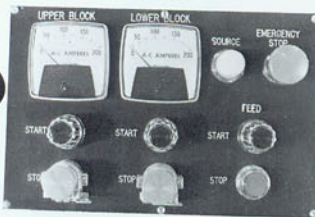
VARIABLE FEED MOTOR

LOWER CUTTERHEAD  
HEIGHT ADJUSTMENT



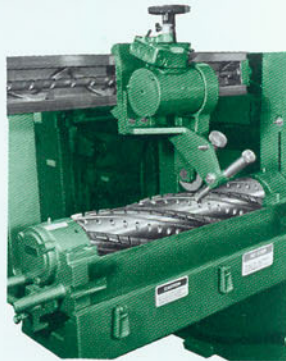


Cutterhead control switches can be locked out during cutterhead grinding. Other adjustment points are engineered for easy access, quick alignment and maximum uptime operation.



## 2-hour cutterhead mntce.

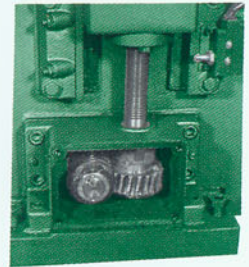
Jointing and grinding of cutterhead is done on the machine. Lower cutterhead slides onto machine grinding fixture. Eliminates need to work between carpet and machine bed. Upper cutterhead maintenance is done with the cutterhead in place. Both cutterheads are jointed for concentricity and hollow ground with a motor/diamond wheel assembly provided with the 240. Individual cutterhead



maintenance takes less than two hours. High impact grinding shield provided.

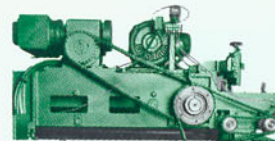
## power platen elevation

Top carpet platen elevates with heavy gearing and motor. Pushbutton system makes adjustment for stock thickness and depth of cut simple. Drive gears at each corner of the machine give uniform elevation. Platen height overtravel is protected by limit switches.



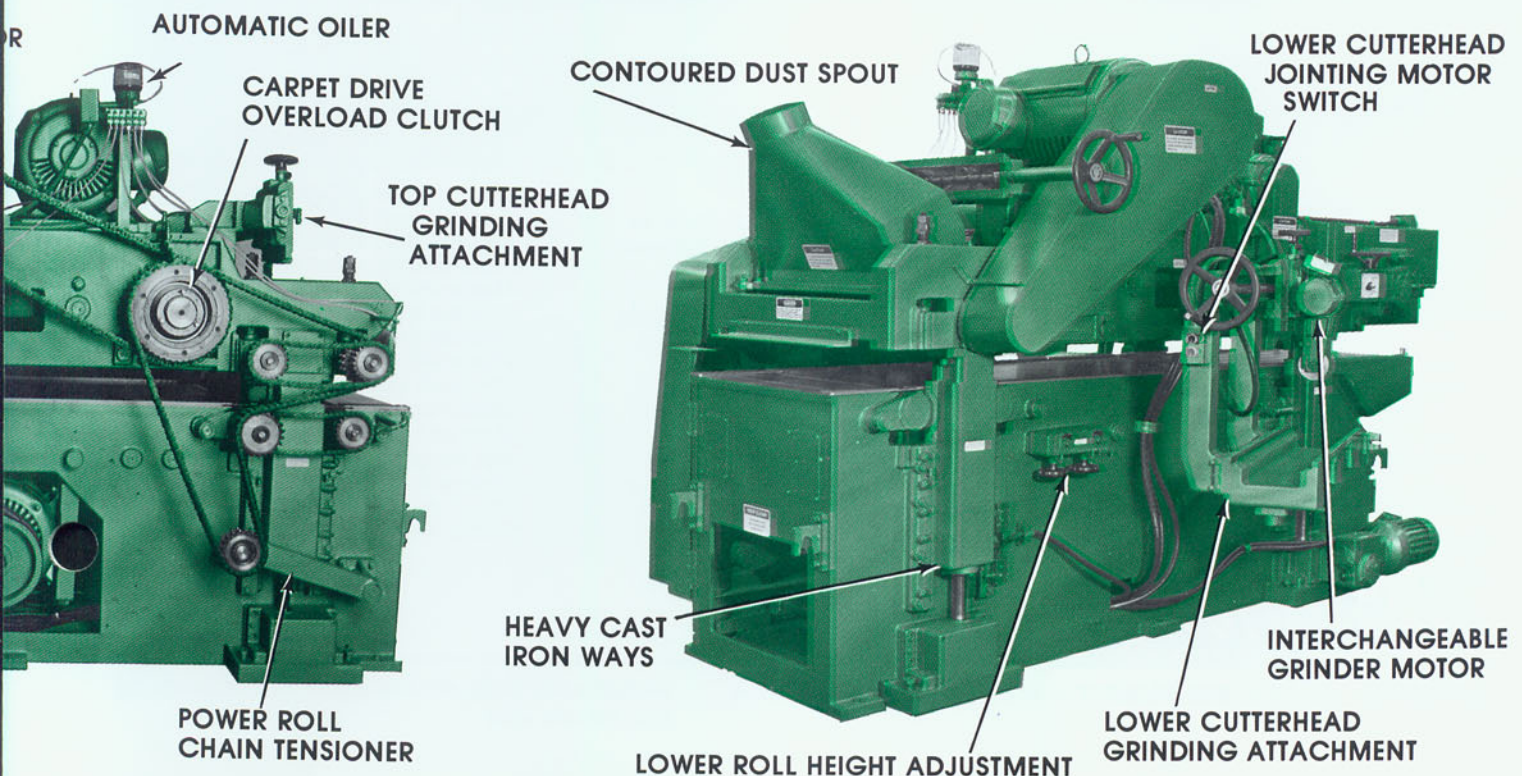
## automatic oiling

Automatic oiling protects critical lubrication points — including carpet drive chain. System actuates when carpet feed is energized. Oil cups are provided at other

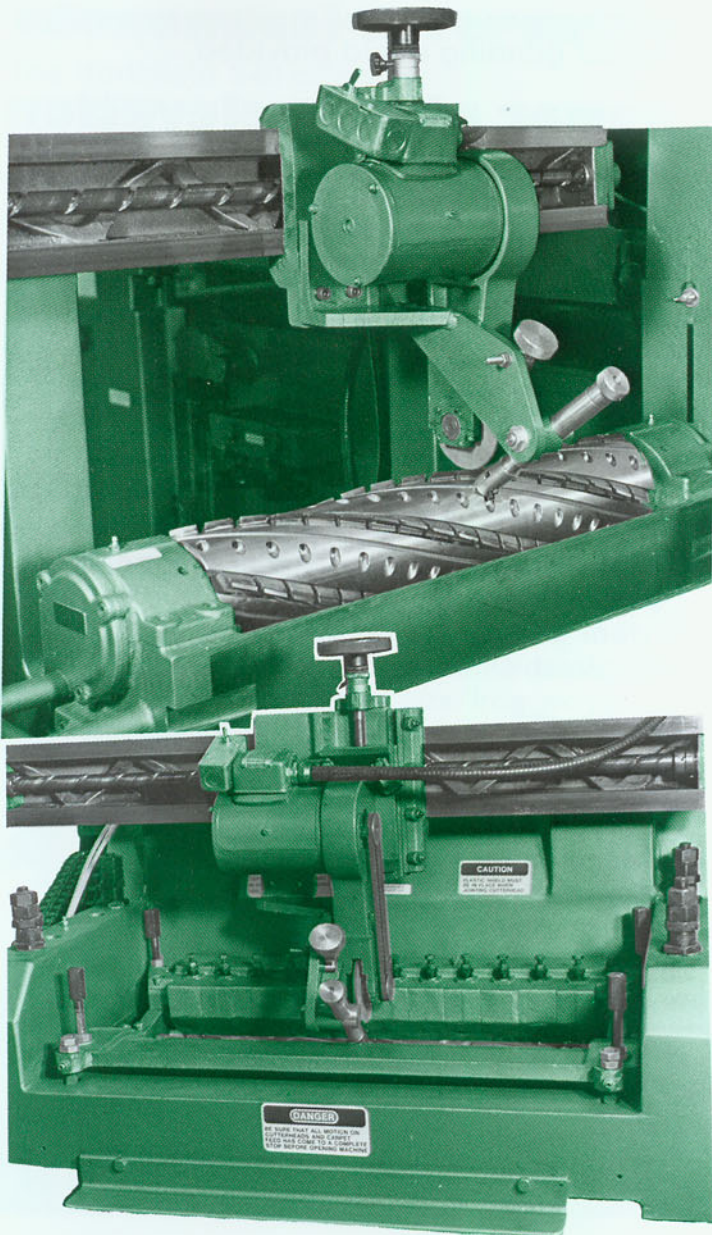


general lubrication points. All bearings are heavy duty type. Drive side of cutterheads has double row ball bearings for maximum support and long life. Zerks provided for easy lubrication.

# er planer — easy to and easy to maintain







## **cuts maintenance**

The Northfield Helical Carbide Cutterhead offers fast maintenance compared to other helical cutterheads. Northfield's cutterhead can be jointed and hollow ground in under two hours. Machined grinding alignment grooves on cutterheads assure accurate hollow grinding on each row of bits.

## **runs quietly**

The Northfield Helical Cutterhead runs quietly — both loaded and unloaded. Cylinders are dynamically balanced and bits are arranged in helical, or spiral, rows at 20° for low noise and smooth cutting.

## **overlap bits**

Individual bits, or teeth, in the cutterhead overlap. This staggered bit arrangement places the space between bits in one row, directly in the cutting path of the bits in preceeding and following rows. Result is a clean cut, free of surface ridges. Each cutterhead has 19 easily replaceable bits in a row — total of 76 bits.

# *Northfield* **Helical Carbide Cutterhead**

## **specifications**

Nominal size: 24" x 6"  
Cylinders: 5" cutting circle, 4 knife helical carbide cutterhead.

Drive: Vee-belt

Motors:

Upper cutterhead: 20-hp to 40-hp

Lower cutterhead: 15-hp to 30-hp

Feed: 5-hp variable speed with gear reducer

Platen elevation: 1-hp

Grinder motor: 1/10-hp

Central distance between cutterheads 56"

Voltages: 208-575, 3-phase, 50-60 Hz.

Lower feed rolls: 4" solid steel, power driven sealed bearings

Upper feed rolls: Infeed — 4" diameter, 2" milled ductile sections, 3/16" section yield, 3/4" roll yield.

Sealed bearings. Outfeed — 4"

solid steel, power driven, with sealed bearings.

Table feed roller adjustment:

Independent control .001 to .100.

Feed speed: 25 to 100 lineal feet per minute (higher or lower available in same ratio).

Chipbreaker: 2" sections, concentric with head

Pressure bar: easily adjustable — concentric with head

Maximum stock width: 24"

Shortest butted piece: 6"

Shortest single piece: 12"

Maximum stock thickness: 6"

Minimum stock thickness: 1/4"

Maximum depth of cut: 1/2"

Floor space: 79"W x 115"L x 69"H

Net weight: 12,200 lbs.

Domestic shipping weight: 12,500 lbs.

Export shipping weight: 13,000 lbs.

Cubic export crate size: 456 cu. ft.

partially manufactured in Japan

*Northfield* **FOUNDRY & MACHINE CO.**

P.O. BOX 140, NORTHFIELD, MINNESOTA 55057, U.S.A.

PHONE: AREA CODE 507-645-5641

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