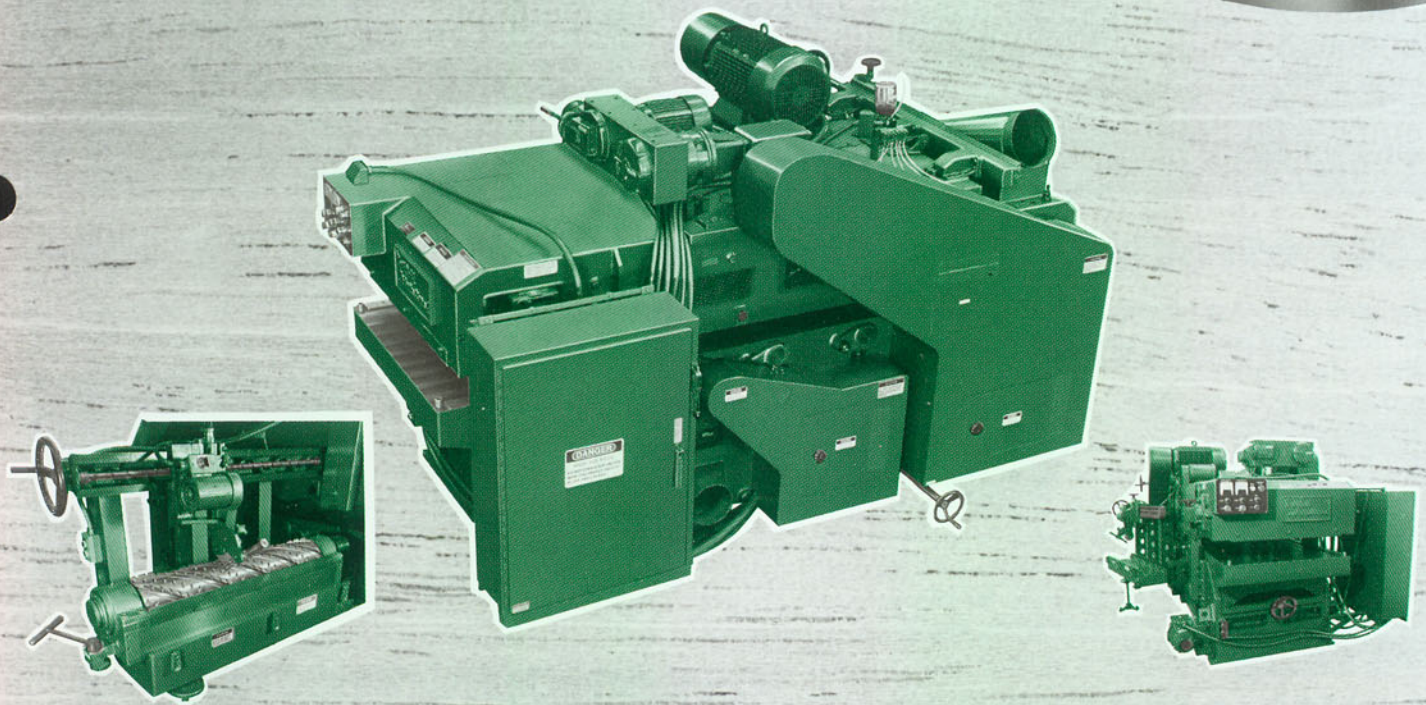


Northfield **360**

double cutterhead facer planer



cost effective — more
output per hour
accepts stock to 35 $\frac{3}{8}$ " wide
positive infeed and
conforming carpet
3-hour cutterhead
maintenance
power platen
elevation and
automatic oiling

LOWER CUTTERHEAD
JOINTING MOTOR

CONTROL PANEL

INFEED TABLE
ELEVATION

PIN PRESSURE
ADJUSTMENT

PLATEN
ELEVATION MOTOR

PLATEN ELEVATION
CONTROL SWITCH

VARIABLE FEED MOTOR

LOWER CUTTERHEAD
HEIGHT ADJUSTMENT

LOWER
BELT

360 — the cost-effective face efficient,

cost effective

The time and cost effective Northfield 360 removes warp — and surface finishes work up to $35\frac{3}{8}$ " wide. The high output 360 also runs strips $\frac{1}{4}$ " thick by 1" wide. It handles butt pieces short as 8" and accepts stock up to 6" thick. Feed speeds adjust from 25 to 100 fpm (other feed speeds with 1:4 ratio optionally available).



Lower rolls are independently adjustable. The top cutterhead has full-width, spring loaded sectional chip breaker.

lower idler rolls

Two 4" diameter idler rolls give the 360 uniform feed speeds.



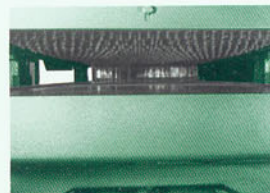
positive infeed

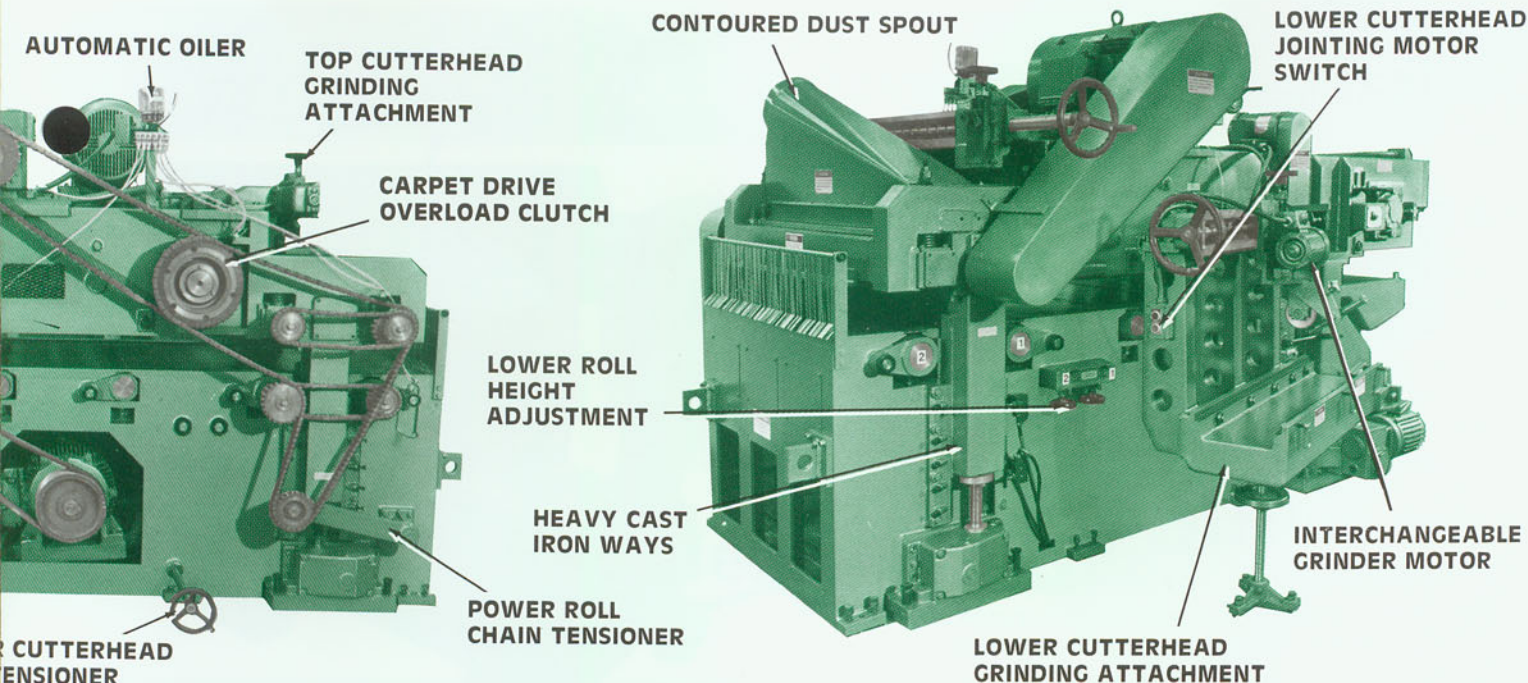
The cast infeed table has $\frac{1}{2}$ " vertical adjustment — helps assure positive feed when making deep bottom cuts. Massive table rides on heavy cast iron ways. Infeed table and machine bed have side stock guides which prevent lateral runouts. All four $5\frac{1}{8}$ " diameter feed rolls powered. Sectional upper infeed roll has spring-loaded 2" ductile sections for positive feed.



conforming carpet

The main carpet feeds stock at 25 to 100 fpm. Carpet has over 2,070 $9/16$ " 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 a 6'5" contact length and heavy-duty rollers. Carpet tension is adjustable with sight gauges — and carpet drive has an overload clutch.





planer — easy to use, easy to maintain

accessible controls

The main electrical control panel is easy to use and accessible from the front of the machine. Other adjustment points are engineered for



easy access, quick alignment and maximum uptime operation. Cutterhead control switches may be locked out during cutterhead grinding.

3-hour cutterhead mtce.

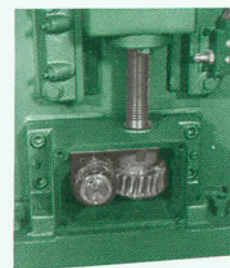
The jointing and grinding of the cutterhead is done on the machine. Lower cutterhead slides onto the machine grinding fixture. Eliminates need to work between carpet and machine bed. Upper cutterhead maintenance is done with the cutterhead in place. Both cutterheads are jointed for concentricity and hollow ground with a motor/diamond wheel assembly provided with the 360. Cutterhead maintenance takes less than



three hours. High impact grinding shield provided.

power elevation

The top 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. Zerk provided for easy lubrication.



Helical Carbide Cutterhead

cuts maintenance

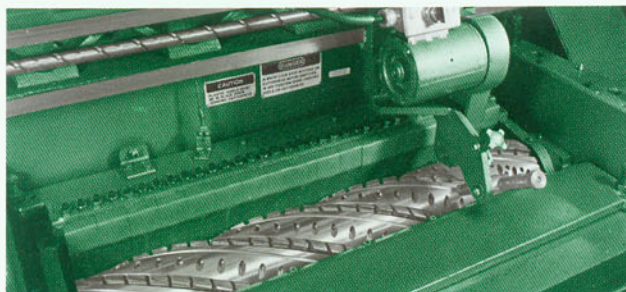
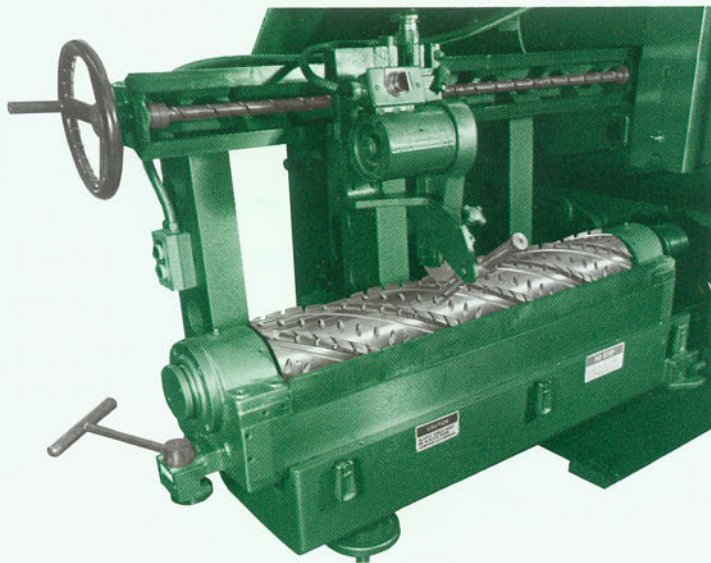
The Northfield Helical Carbide Cutterhead offers fast maintenance compared to other helical cutterheads. Northfield cutterhead can be jointed and hollow ground in under three hours. Machined grinding alignment grooves on cutterheads assure accurate hollow grinding on each row of bits.

runs quietly

The Northfield Cutterhead runs quietly — both loaded and unloaded. Cylinders are dynamically balanced and bits are arranged in five helical, or spiral rows. Shear angle in excess of 25° 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 preceding and following rows. Result is a clean cut, free of surface ridges. Each cutterhead has 29 easily replaceable bits in a row — total of 145 bits.



specifications

Nominal size: 35" x 6"

Cylinders: $6\frac{1}{2}$ " cutting circle,
bits per head,

5 rows of bits (290 per machine)

Drive: Vee-belt

Motors:

Upper cutterhead: 50-hp std. or 60-hp optional

Lower cutterhead: 40-hp std. or 50-hp optional

Feed: 5 HP variable speed

Center to center distance

between cutterheads: 61"

Platen elevation: 2-hp

Grinder motor: 1/10-hp

Voltages: 208 to 575, 3 ph, 50-60 Hz. (230/460 or 575 std.)

Lower feed rolls: 2 $5\frac{1}{8}$ " solid steel power
driven sealed bearings

Lower idler rollers: 2 4" diameter
non-powered

Upper feed rolls: Infeed - $5\frac{1}{8}$ ",
2" ductile sections spring loaded,
Outfeed - $5\frac{1}{8}$ " solid steel power
driven steel bearings

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

Chipbreaker: 2" sections, concentric
with head

Maximum stock width: $35\frac{3}{8}$ "

Shortest butted piece: 8"

Shortest single piece: 15"

Maximum stock thickness: 6"

Minimum stock thickness: $1\frac{1}{4}$ "

Max depth of cut: $\frac{1}{2}$ "

Carpet feed conveyor: 2070 pins

Upper dusthood: 10" diameter outlet

Lower dusthood: 8" diameter outlet

Floor space: Length 127" - width 124" - height
77"

(NOTE: this is size of machine with grinding
arm extended)

Net weight: 20,000 lbs.

Domestic shipping weight: 22,000 lbs.

Northfield FOUNDRY & MACHINE CO.

320 N. Water St.
P.O. Drawer 140
Northfield, Minnesota 55057 U.S.A.
(507) 645-5641
FAX 507-645-4005

partially manufactured in Japan

Printed in U.S.A.

11/89