

# *Northfield* #2 Planer-Surfer 18"



Front view of machine with Knife Grinder


**Low Maintenance**

**Simple Efficient Design**

**Traditional Dependability**

This machine of heavy cast iron construction is ideal for pattern shops, vocational schools, sash and door and furniture plants.

A precision built machine of proven design utilizing ideas and components to provide the user with a machine to meet the most demanding and varied needs of today's production and vocational woodworking.

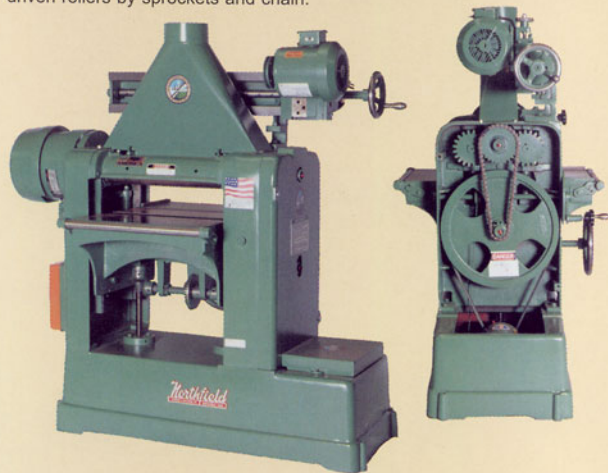
PROFIT THROUGH AMERICAN TECHNOLOGY  
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## Four Knife Cutterhead with Integral Micrometer type, Knife Raising Screws

The four knife cutterhead of high carbon steel is 18 1/8" long and has a 3 1/2" cutting circle. The 5/32" x 1 1/8" x 18 1/8" knives are of high speed steel and can be quickly adjusted with the micrometer type knife raising screws machined integral with the cutterhead.

## Simple and Efficient Feed

Driven by a separate 1/2 HP motor and variable pulley. The feed does not take it's power from the cutterhead. The variable speed drive assembly is shown in the picture below. The feed speeds are transmitted to the two driven rollers by sprockets and chain.



## Positive Cutterhead Grinding

Each knife is ground in proper position using indexing plate.



## Pressure Bar and Chipbreaker

Work closely to the knives, thus allowing most pieces to be planed smoothly without dubbing the ends. Both swing concentrically with the cutterhead.

## Rear View

Photo shows Knife Grinder with grinding wheel in place. Grinding attachment can be left on the machine with dust hood in place.



## SPECIFICATIONS

Nominal Size .....	18" x 8"
Cylinder .....	31/2" cutting circle, 4-knife, high carbon steel, micrometer-type knife-raising screws
Knife Size .....	5/32" x 1 1/8" x 18 1/8" high speed steel
Drive .....	Direct motor or VEE-belt
Motors .....	Cutterhead: 5, 7 1/2, totally enclosed fan cooled Feed: 1/2 HP
Voltage .....	208-220/440-550 volt 60 cycle, 3-phase standard (1-phase, 3 HP & 5 HP)
RPM .....	Direct Motor Drive, 3600 VEE-belt (or to customer's specifications)
Lower Feed Rolls .....	2-13/16", sealed for life bearings
Upper Feed Rolls .....	INFEED: 2 1/2" diameter, corrugated solid steel, power driven, sealed for life ball bearings OUTFEED: 2 1/2" solid steel, power driven sealed for life ball bearings

Feed Speed .....	20 to 50 lineal feet per minute
Maximum Stock Width .....	18"
Shortest Butted Piece .....	4"
Shortest Single Piece .....	7 1/2"
Maximum Stock Thickness .....	8"
Minimum Stock Thickness .....	1/8"
Maximum Depth of Cut .....	1/4"
Controls .....	Double magnetic switch, single pushbutton

Floor Space .....	55" x 36"
Base .....	Large box-type
Net Weight .....	1525 lbs.*
Domestic Shipping Weight .....	1600 lbs.*
Export Shipping Weight .....	1800 lbs.*
Cubic Export Crate Size .....	108 cu. ft.

\*Add 150 lbs. if Knife Grinder is ordered with machine (requires 115 volt line)

## EXTRAS

Rubber Sectional Infeed Roll, reversing switch, digital readout, dial type knife and roll setting gauge, knife grinder and jointing attachment, NEMA 12 electrics with fused disconnect, modifications to customer's order.

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