

Wadkin



# FBN 180 & 130

ADVANCED DESIGN PUSH FEED  
PLANERS & MOULDERS FROM WADKIN

British Standard Classification T2:34

Leaflet No. 1305

## Advanced Design Feedworks

### **PNEUMATIC RISE AND FALL**

Gives constant traction since pressure is uniform irrespective of timber thickness.

### **TOP FEED ROLLS ARE DIRECTLY ABOVE THE BOTTOM ROLLS**

Ensures maximum traction and trouble free feeding on difficult and thin material.

### **BOTTOM ROLLS RISE AND FALL**

Rise and fall separately or in conjunction with bedplates. Helps feeding and allows for quicker adjustments. Push feeds wet material easily.

### **INTERCHANGEABLE LARGE DIAMETER (200mm) SECTIONAL FEEDROLLS**

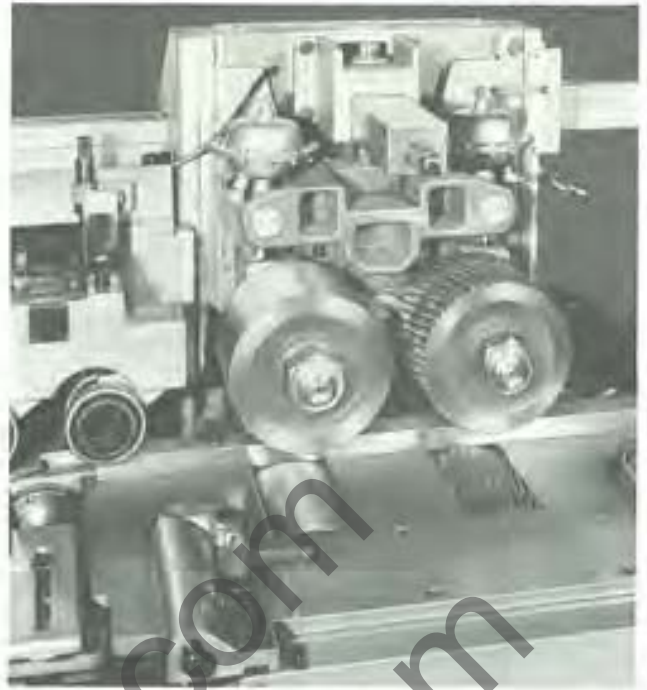
An aid to better traction. Profile and sections can be quickly changed to suit timber conditions and to give longer life.

### **FEEDWORKS ARE CHIP FREE**

As the bottom is completely open the problem of chip build-up is eliminated.

### **ROBUST FEEDWORKS**

Require virtually no maintenance. They are driven by four massive spline shafts coupled to a gear train which is totally enclosed in an oil bath.



## Positive Timber Control

### **RADIAL LINK PRESSURE PADS**

Give an improved finish with easier feeding.

### **ADJUSTABLE RADIAL LIFE CHIPBREAKERS**

Accommodate cutting circles from minimum to maximum with total safety.

### **SIDE HEAD STAGGER**

Can be provided for better control of side head work and when more accurate control of high quality mouldings is required.

### **ROBUSTLY CONSTRUCTED**

A fabricated steel base for strength and stability plus a cast iron superstructure gives vibration free operation for high quality work. On the FBN 180 outboard bearings are fitted as standard to give extra rigidity and to facilitate pointing.



## Optional Extras for Versatility & Improved Performance

### **BUILT-IN STRAIGHT JOINTERS**

Can be incorporated into all bottom heads. Quickly fitted straight and profile jointers are available for horizontal and vertical heads to give an improved finish and increased production.

### **PNEUMATIC PRESSURES**

For constant pressure and control irrespective of timber thickness variation.

### **INFINITELY VARIABLE FEED DRIVES**

Allow the ideal feed speed to be selected for the finish required, and to suit varying types of timber.

### **INEXPENSIVE THROATING HEAD**

Specifically designed for producing undercuts. It eliminates the second operation normally carried out on a vertical spindle shaper, giving economy and saving valuable floor space.

### **UNIQUE UNIVERSAL HEAD**

Operational through 360°. It can be quickly and accurately set and gives a better and more uniform finish in a rebate.



# Specification FBN 180 (Standard)

## Acceptable Timber Sizes

Maximum size of timber admitted	190 × 114mm	7.5 × 4.5in
Maximum size of finished timber	180 × 100mm	7.0 × 4.0in
Minimum width of finished timber	9mm	0.375in
Minimum length of timber	600mm	24.0in
Acceptable rough stock thickness variation	15mm	0.625in

## Feed Works

Output power of feed motor	5.5/4kW	7.5/5.3hp
Feed speeds 3 speed gearbox with 2 speed motor	9.5-16.5-19-24-33.5-46m/min	30-52-60-75-105-150ft/min
OR Infinitely variable with coned pulley	6-46m/min	20-150ft/min
Feedroll diameter	200mm	7.875in
Feedrolls	Half round straight fluted	

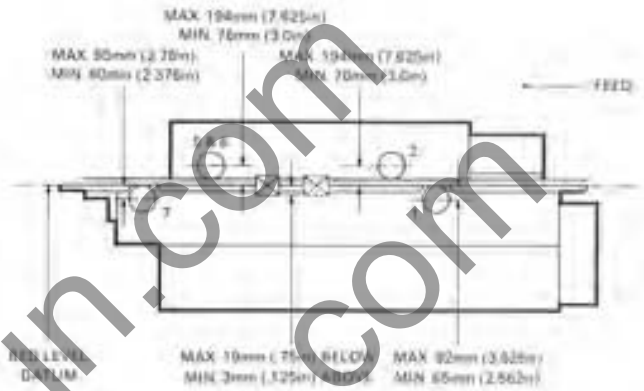
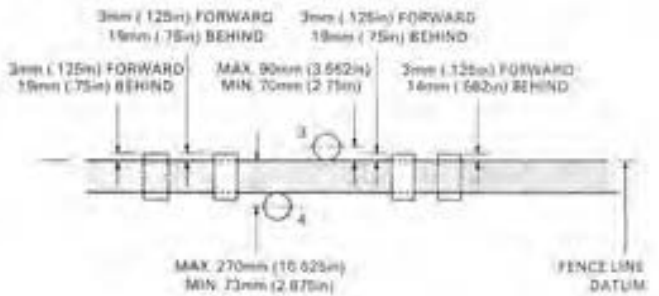
## Cutter Spindles

Speed of cutter spindles	4500 and 6000rev/min	
Output power of cutter spindle motors:		
Standard - All heads	5.5kW	7.5hp
OR Second bottom head	15kW	20hp
Spindle diameter all heads	40mm (40° included angle loose cones)	
Side head stagger	50mm	2in
OR	305mm	12in

## Measurements and Weight

Bed height	838mm	33in
Overall height of machine	1295mm	51in
Floor area (Model 6)	2745 × 1530mm 108 × 60in	
Net weight	4165kg	9183lb
Gross weight	4675kg	10308lb
Shipping dimensions (Model 6)	9.345m <sup>3</sup>	330ft <sup>3</sup>

## Capacity Chart



## Cutting Circles



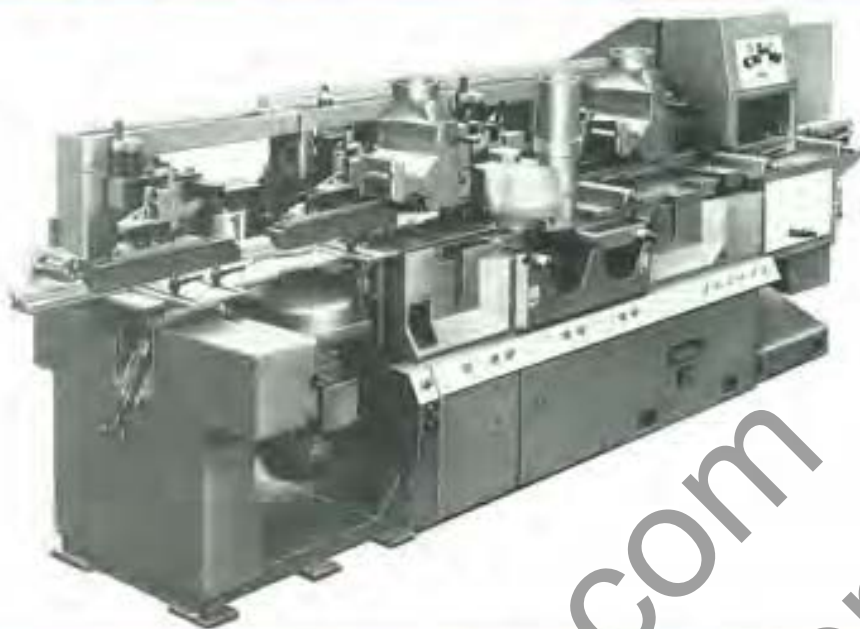
	7		5 and 6		4		3		2		1	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
D1	120	4.75	120	4.75	120	4.75	120	4.75	140	5.5	146	5.75
D2	254	10	228	9	216	8.5	216	8.5	228	9	190	7.5

## THE FBN 180/130 A MACHINE FOR EVERY APPLICATION.

A complete range of heads specifically arranged to meet the differing needs of sawmilling, cladding, moulding, joinery or furniture.

NO. OF HEADS	MODEL	SEQUENCE
4	1 1 UNIVERSAL	
	2 2 UNIVERSAL	
5	3 3 UNIVERSAL	
	5 5 UNIVERSAL	
6	4 4 UNIVERSAL	
	6 6 UNIVERSAL	

# The FBN 130 High Performance Planer and Moulder



A smaller economically priced machine fitted with the same feedworks as the FBN 180 with all their associated benefits.

The 9000 rev/min spindle speed ensures a good single knife finish at optimum feed speeds and provides perfect finish even on exotic timbers.

## OPTIONAL EXTRAS

Inexpensive Throating Head  
Infinitely Variable Feed Drive

Unique Universal Head  
The NX Autoform Grinder

## Specification FBN 130 (Standard)

### Acceptable Timber Sizes

Maximum size of timber admitted	140 x 90mm	5.5 x 3.5ft
Maximum size of finished timber	130 x 75mm	5.0 x 3.0ft
Minimum width of finished timber	9mm	0.375in
Minimum length of timber	600mm	24.0ft
Acceptable rough stock thickness variation	15mm	0.625in

### Feed Works

Output power of feed motor	5.5kW	7.5/5.5hp
Feed speeds 3 speed gearbox with 2 speed motor	0.5-16.5-19-40m/min	30-52-60-75-105-150ft/min

OR infinitely variable with coned pulley 5-46m/min 20-150ft/min  
Feedroll diameter 200mm 7.875in  
Feedrolls Half round straight fitted

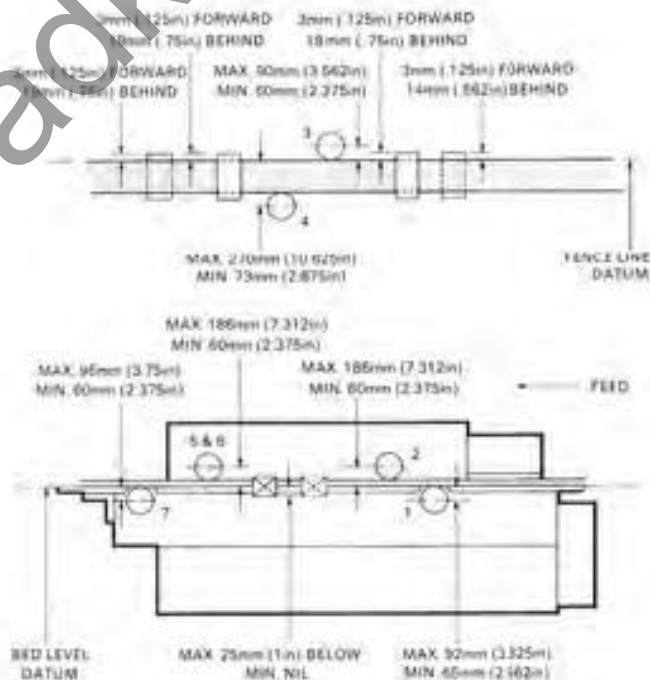
### Cutter Spindles

Speed of cutter spindles	6000 and 9000 rev/min
Output power of cutter spindle motors	
Standard - All heads	5.5kW 7.5hp
OR	7.5kW 10hp
OR Second bottom or second top head	15kW 20hp
Spindle diameter all heads	40mm (40° included angle loose cones)
Side head stagger	305mm 12in

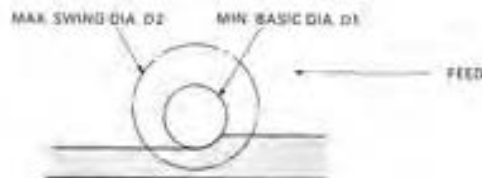
### Measurements and Weight

Bed height	838mm	33in
Overall height of machine	1245mm	49in
Floor area (Model 6)	3135 x 1530mm	123 x 60in
Net weight	4064kg	8961lb
Gross weight	4470kg	9856lb
Shipping dimensions (Model 6)	8.382m <sup>3</sup>	296ft <sup>3</sup>

### Capacity Chart



### Cutting Circles



	7		5 and 6		4		3		2		1	
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
D1	120	4.75	120	4.75	120	4.75	120	4.75	140	5.5	140	5.5
D2	254	10	228	9	216	8.5	216	8.5	228	9	190	7.5