



XJ 220 SERIES

THROUGHFEED PLANER MOULDERS



HIGH PERFORMANCE PLANER MOULDER

VERSATILITY AND SUPERB SURFACE



The Wadkin XJ220 Series high performance planer moulders, versatile quick set-up machines, developed especially for economical short to medium batch production.

Advanced design

The XJ220 Series is based on superior design embodying the latest technology from Wadkin, offering a wide choice of multi-head machines with heavy duty spindle motors, large diameter cutting circles, and availability of built-in combined straight and profile jointers, and many other features that enhance short to medium batch production.

Positive feed

Reliable shaft driven feedworks for the positive handling of timber under every application and condition — powered rise and fall to feedworks and all top pressures, pneumatic loading to all top driven feed rolls, spring loaded idle rollers, solid side pressures and guides, together with top head power rise and fall clutches and pneumatic loading to the driven bed rolls throughout the length of the machine, makes the XJ220 the most positive through feed machine available.

The feed speed range, through expanding cone and pulley, of 6-36 m/min gives the XJ220 its versatility in the low feed speed range. But the options of 10-50 m/min, and 10-60 m/min, through a hydraulic power pack, and with the built-in jointers, makes the XJ220 Series a very economic high production, quick set-up planer moulder.

Super-precision spindles

Standard 40mm diameter precision spindles, with 50mm and 1-13/16 inch optional, coupled with hydro outboard bearings to all horizontal spindles, ensures high quality machined surface finishes.



Other built-in high spec. features

- Hard chrome bed
- Full cardan shaft drive
- True radial chipbreakers to all top and nearside heads
- Large cutting circles to all heads
- 6000 r.p.m. standard but 4500 and 9000 r.p.m. available through 2 speed motors to give even greater versatility on batch production
- Pneumatic loading to all top and bottom driven feed rolls.

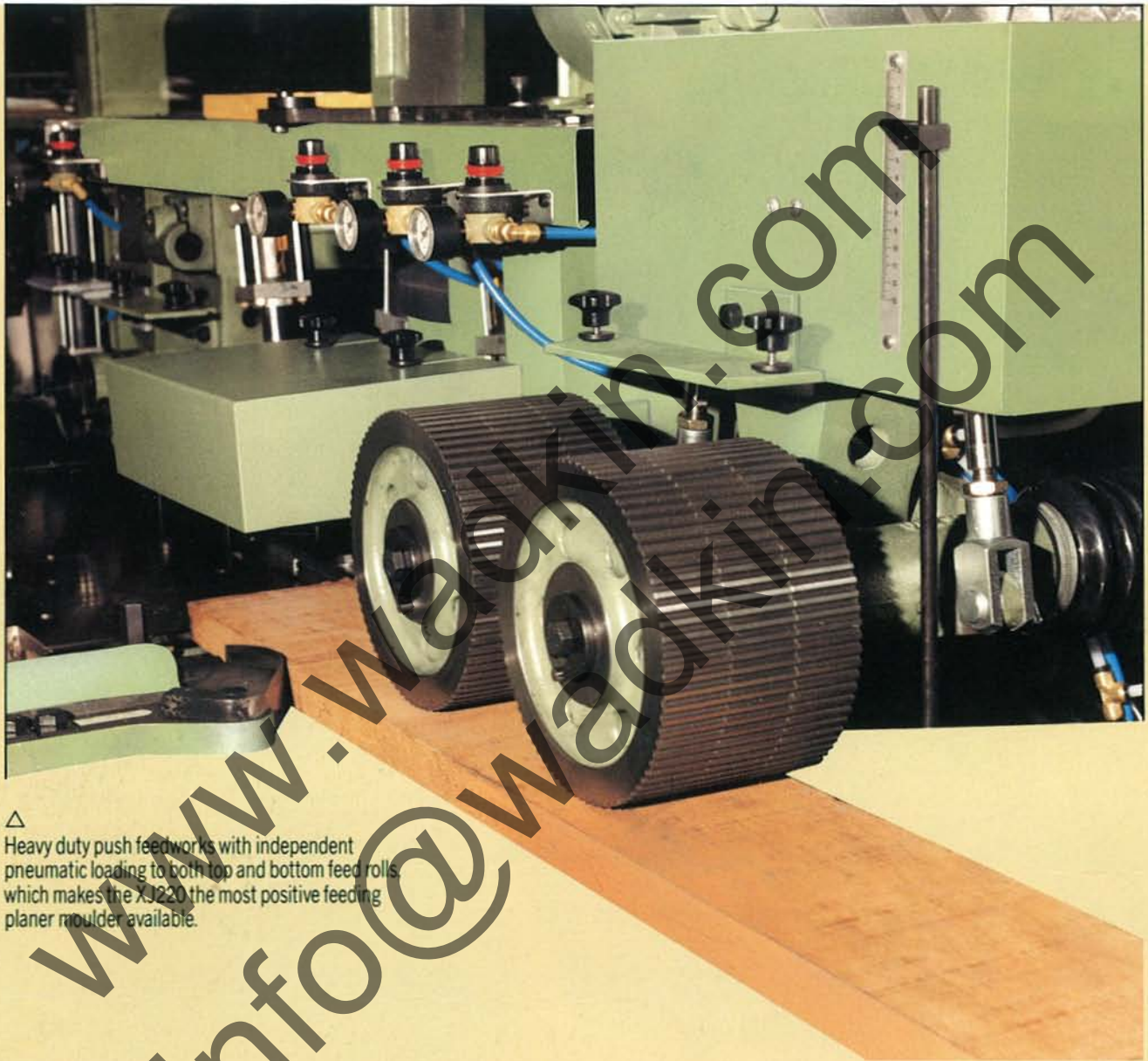
**MOULDERS THAT GIVE
FINISH**

XJ 220 SERIES



XJ220 Moulder

ADVANCED BUILT-IN AND OPTIONALS

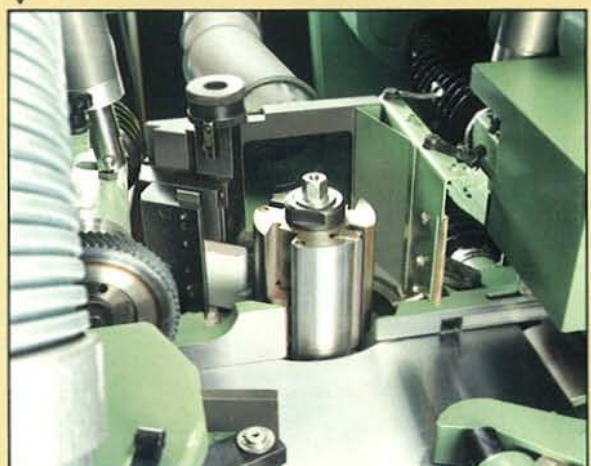


△ Heavy duty push feedworks with independent pneumatic loading to both top and bottom feed rolls which makes the XJ220 the most positive feeding planer moulder available.

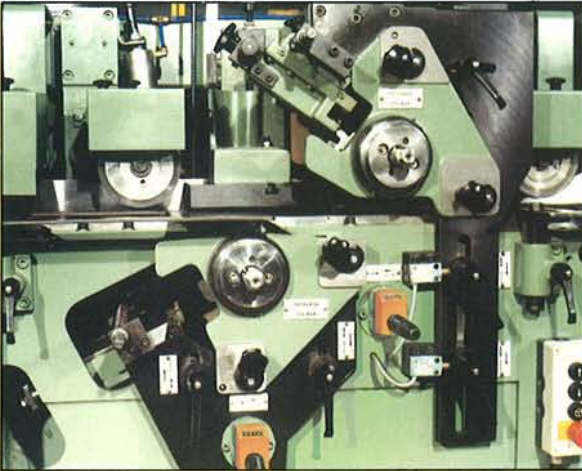
As an alternative to the push feed, when straightening is required, there is a choice of either a 2 or 2.5m straightening table, giving high accuracy on cut length components.



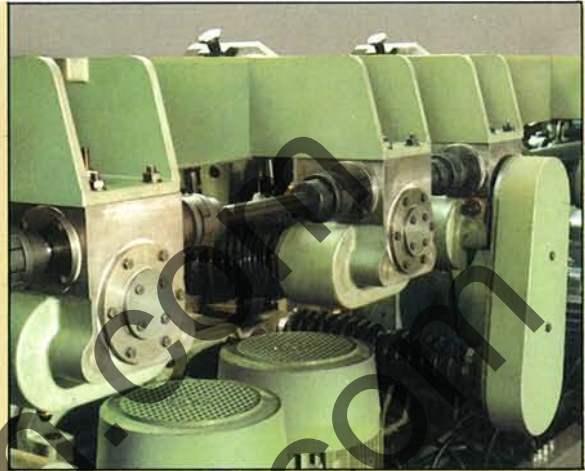
Fence side head, built-in straight and profile jointer, operated from front of machine for quick and safe operation.



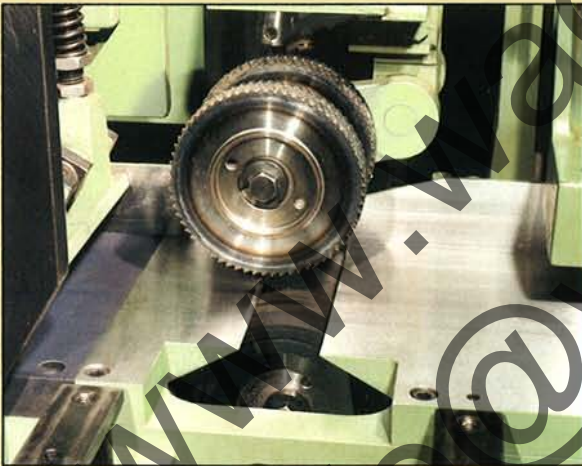
AL FEATURES



△ Built-in combined straight and profile jointers, coupled with the standard hydro outboard bearings, enabling the use of true multi-knife finishes without sacrificing the quick set-up benefits of the XJ220.



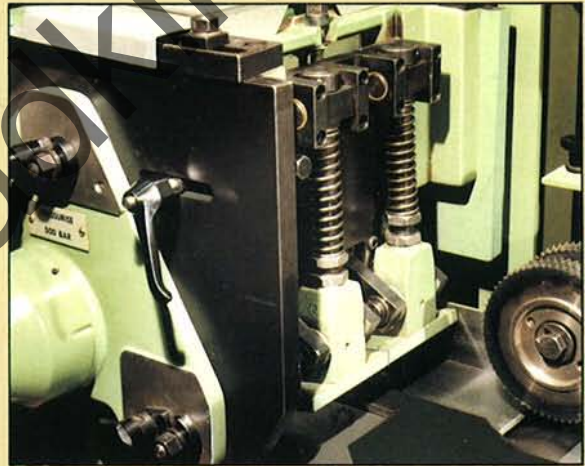
△ Shaft drive to the feed rolls for trouble free high performance and minimum maintenance.



△ Even the smallest machine in the XJ220 range has a minimum of 3 driven bed rollers, which, due to the unique pneumatic system, gives all the benefits of positive feed without lifting the material from the machine bed.

Digital readouts can be fitted to the radial and axial adjustments of each spindle to enable quick and accurate set-ups to be easily achieved.

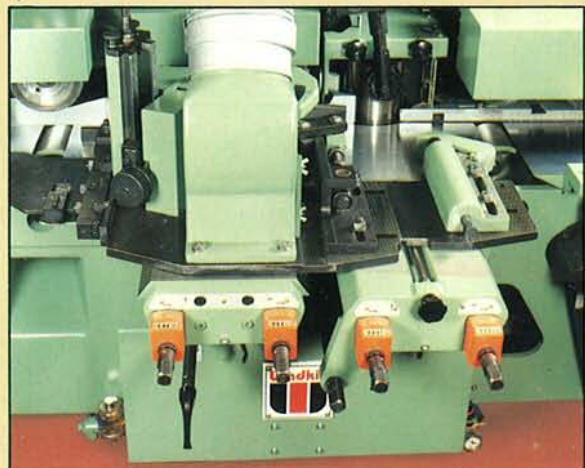
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△ True radial action chipbreakers are fitted to all XJ220 planer moulders, giving precise control, close to the cutting action without the need to allow for timber thickness or width variation.

Fence side head bedplate adjustment, nearside head with pressure pad, chip breaker, side pressure roller positioning with the head.

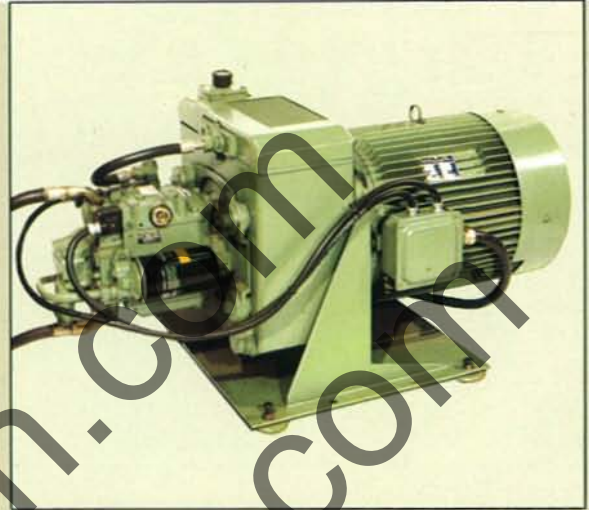
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OPTIONAL EQUIPMENT FOR YOUR XJ220



△ Electronic 'Dial-a-Size' giving quick and accurate positioning to the top and nearside heads, when small batches of a large variety of sizes are required, including automatic hydraulic slide locks.



△ Hydraulic power pack giving fast positive feed speeds, up to 60 m/min, giving greater flexibility and power throughout the feed speed range.

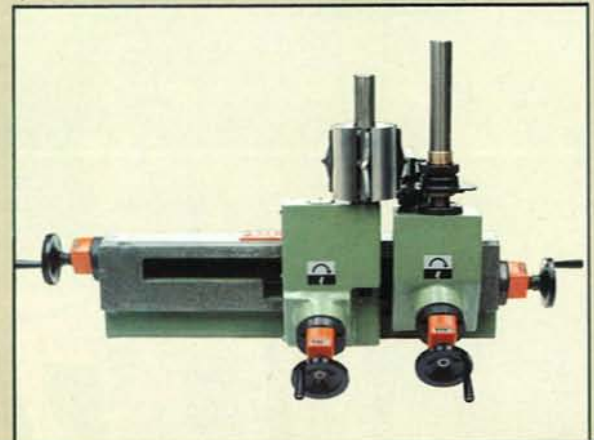
Close fitting G.R.P. sound enclosure, complete with lighting and all internal dust connections giving a very effective control of the working environment. ▷

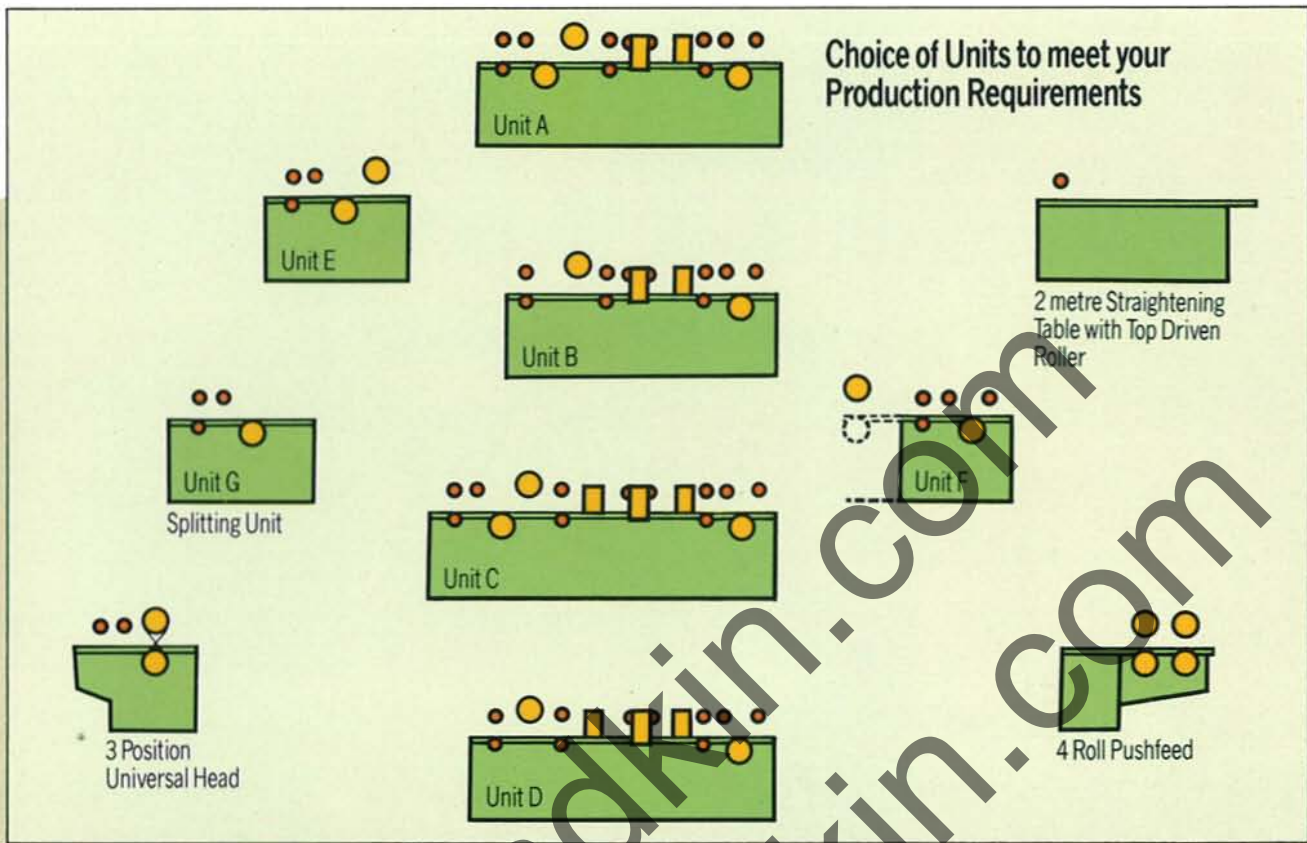


Unit 'G' splitting head with heavy duty 50mm diameter keyed spindle with a plain bore outboard for easier axial adjustment. Heavy duty toothed belt drive with motor power of up to 100 HP available. Riving knife guides and top pad pressure. Anti-kick back device. ▽



CRS Cutter Reference System. Accurately calibrated mechanical setting system for providing horizontal and vertical head positioning references to enable any type of cutting medium to be accurately positioned on a machine spindle equipped with mechanical digital readouts. ▽





SPECIFICATIONS

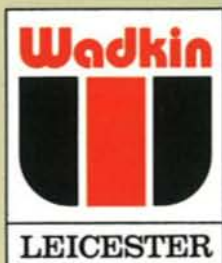
Maximum size of timber admitted —	230mmx130mm	Spindle speed — standard	6000 rev/min
Maximum size of finished timber —	220x120mm*	optional 2-speed	4500/9000 rev/min
Feed speeds, fully variable — standard, variable cone pulley optional, variable cone pulley optional, hydraulic drive	6-36 m/min 10-50 m/min 10-60 m/min	Precision spindles — standard, all heads standard, horizontal heads	Heavy duty twin angular contact precision bearings Hydrogrip outboard bearings
Feed system, standard	Full Cardan shaft drive	Spindle diameter — standard, plain optional, plain	40mm 50mm or 1-13/16 in
Feed motor — standard optional, hydraulic drive	11kW (15hp) 22.5kW (30hp)	Head motors — standard, all heads optional, all heads	4kW (5½hp) 5.5, 7.5, & 11kW (7½, 10, & 15hp)
Feed rollers — intermediate, diameter width per station optional 4-roller pushfeed works, diameter width per station	140mm 2x20mm, 1x10mm 200mm 3x50mm	1st top, 2nd top & 2nd bottom	15 & 18.75kW (20 & 25hp)
Infeed straightening table — optional, without driven bedroller optional, with driven bedroller	2m or 2.5m 2m or 2.5m	Cutting circle diameters — 40mm spindle, min-max, — 1st bottom & universal — Fence & nearside — Top & bottom heads (but excluding 1st bottom)	125mm-180mm 125-205mm 125-250mm
Maximum straightening	10mm	50mm spindle, min-max, — 1st bottom & universal — Fence & nearside — Top & bottom heads (but excluding 1st bottom)	140-180mm 140-205mm 140-250mm
Bed height	805mm		

*With maximum 140mm diameter cutting circle.

As our policy is to constantly improve design, the details given in the leaflet are not to be regarded as binding.
Certain illustrations show guarding removed for clarity.



Part of the Demonstration Centre at Wadkin p.l.c. Leicester, where it is possible to see the Wadkin range of machines operating, and if necessary, producing to your machining requirements under operating conditions. The Demonstration Centre is staffed by woodworking people, whose advice and general help are readily available to ensure the correct solution to a particular production need.



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