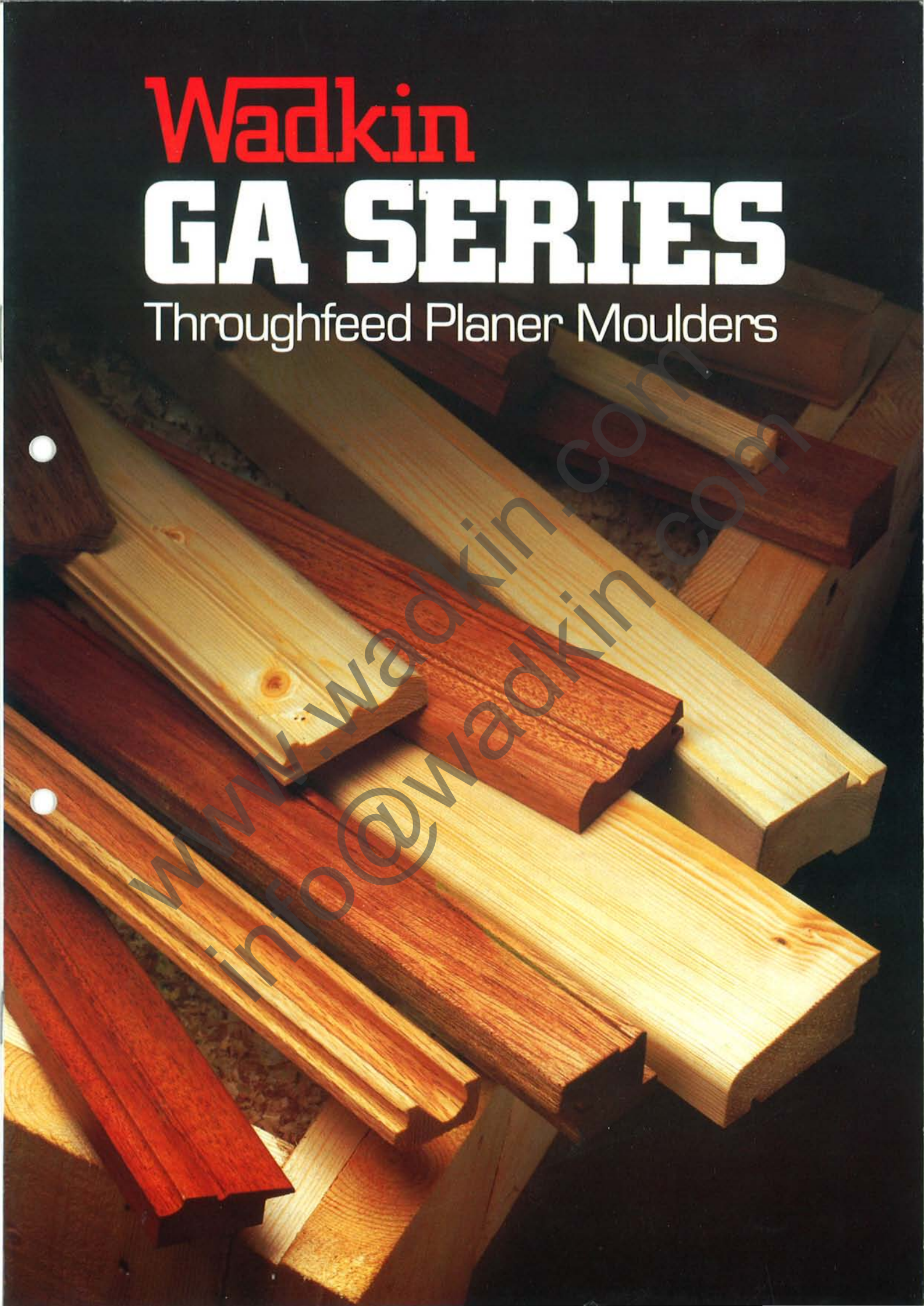
Wadkin

GA SERIES

Throughfeed Planer Moulders



Wadkin GA 170 & 220 series

WIDE RANGE OF MODELS

With a range of over 70 different variants, the GA Series throughfeed planer moulders offer a wide choice to every wood processing business. Precision engineered to very high specifications and built to Wadkin's traditional high standards, the GA represents a first class investment. And with a low cost and high production rating, it's an investment with rapid pay-back potential.

- An excellent machine for most standard straightening, planing, and moulding operations on a wide range of timbers
- Choice of 170mm or 220mm width capacity
- Standard feed speeds up to 28m/min
- Adequately meets the everyday needs of the vast majority of businesses — from PAR to complex mouldings

Yet we are very particular to ensure that you buy the most appropriate machine for your work. That's why you'll always find GA's in our permanent demonstration area at Leicester, and why we encourage you to come along with typical jobs for proving out before making your choice.

If the GA isn't the machine for you, we'll tell you — after all there's bound to be another Wadkin moulder that will suit if the GA doesn't.

LOW COST MACHINE

There is always a chance that the expression of low cost implies that quality has been sacrificed, or hidden extras have to be purchased, or machines won't perform as they should. Not so with the GA. Low cost is achieved from value engineering and volume production.

- Substantially built with a solid cast iron frame for stability and vibration free running
- Large diameter feed rolls (140mm) provide positive feed and are flush mounted for the best accessibility
- Outfeed rollers have independent rise and fall
- Beam has electrical rise and fall
- Top heads rise and fall either independently or interlocked with feed rollers

Throughfeed Planer Moulders

SELECTION OF MODELS

The GA Series is based on 12 standard machines with width capacities of 170mm or 220mm, and fixed head sequences combining bottom, top, side and universal heads. Each sequence is designed for differing complexities of work, so to provide a starting point for your appraisal of the models most likely to meet your requirements, consider the following basic operations.

OPERATIONS	MODELS
PAR	— consider models 1 and 5
Straightening	— all models fitted with standard infeed table
Non-straightening	— all models fitted with short infeed non-straightening table option
Moulding nearside and top	— consider models 1 and 5
nearside, top and bottom	— consider models 2 and 6
nearside, top, bottom and fenceside	— consider model 2S
intermediate positions using universal head as additional to any above*	— consider models 1U and 5U 2U and 6U 2SU

*Standard 3 position universal head available covers top, bottom or nearside and intermediates up to 270°. Optional 4 position covers 360° including fenceside.

JUSTIFYING THE INVESTMENT

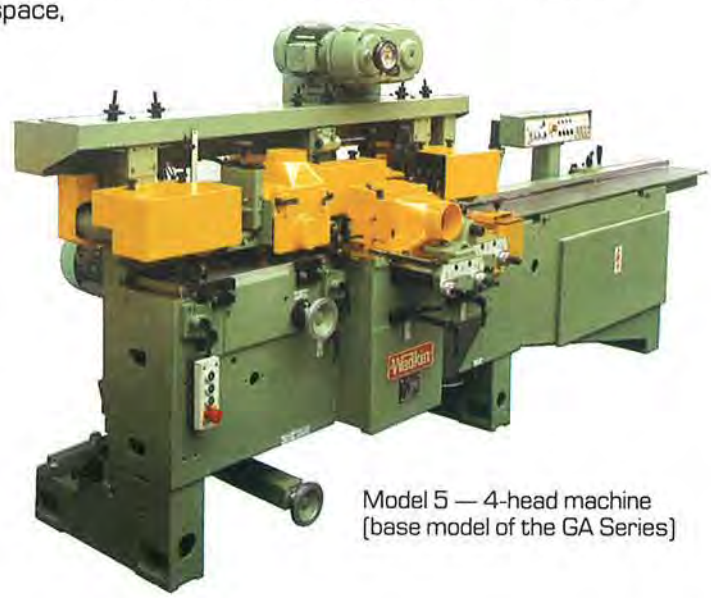
If you're a moulder user, you'll be appreciative already of the benefits of a machine like the GA. And to justify the investment you'll probably want to consider not only its overall performance but also the large range of optional features available for those very special needs — such as electronic positioning, air bed, digital readouts, sound enclosure — the list is as long as the infeed straightening table.

But if you're not a moulder user, you will probably firstly want to assess the work capability of the GA against your normal machining methods. Consider it this way. A moulder does the work of a surface planer, thicknesser, and spindle moulder all in one. So with just PAR work it can straighten, plane and size all in one pass. Now add moulding operations and consider what it will save you in time and labour to produce a moulding in 1 pass instead of 9. Or what it saves you with 1 handling instead of 16. Justification of the investment is straightforward. But, think also of the quality of your end product, the saving on floor space, and the re-direction of your surplus labour.

POWERFUL MOTORS

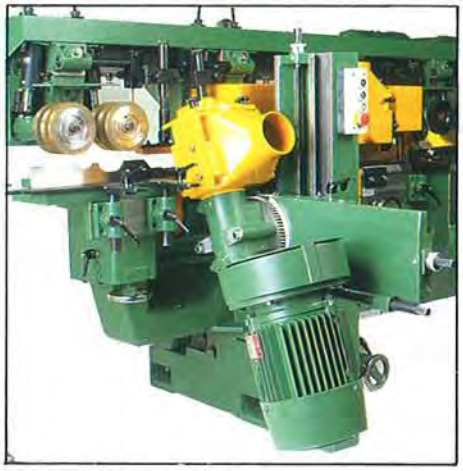
Some moulders are underpowered to reduce their cost. Not so the GA. Standard feed motors are rated at 2kW (3hp), increased to 4kW (5.5hp) for models with universal heads, providing fully variable feed speeds of 6–28m/min. Optional 4kW (5.5hp) motors are available also for non-universal models.

Standard spindle motors on the GA are rated at 4kW (5.5hp) developing a spindle speed of 6000 rev/min. Options are available up to 11kW (15hp).



Model 5 — 4-head machine (base model of the GA Series)

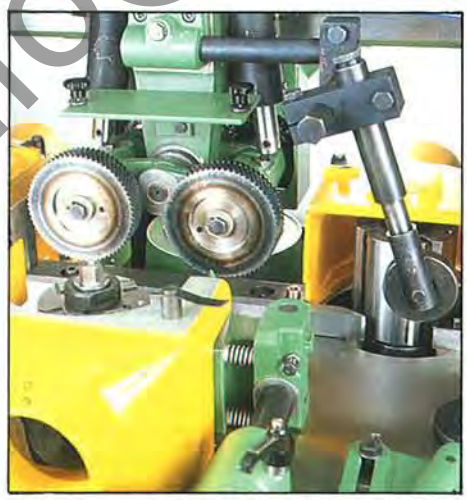
Standard Features ... every GA machine is built



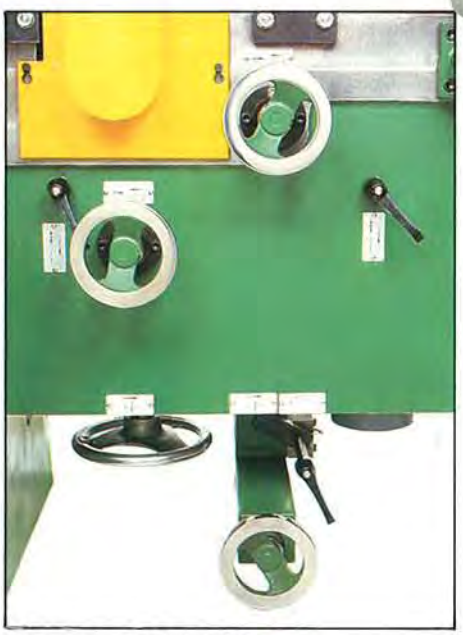
UNIVERSAL HEAD
Three position universal head tilts through 270°. Adjacent push buttons provide duplicate master stop and feed switches.

- Long infeed straightening table (2 metres) with quick-action table and fence adjustment controls
- Powered rise and fall to beam for quick and accurate positioning of feed rollers and top head

CLOSE COUPLED HEADS
Close coupled top and bottom heads provide better control for complex mouldings.



FLUSH MOUNTED FEED ROLLERS
Flush mounted feed rollers afford greater accessibility. Intermediate idle roller top pressures maintain control of stock for better finish.



HEAD ADJUSTMENT
Handwheel adjustment to top and second bottom heads for accurate setting-up against graduated scales. Rise and fall to top heads and beam coupled for rapid set-up.

:o a high specification with impressive standard features

- Operator's control panel located at infeed position
- Spindles have vertical and horizontal movement with graduated scales
- Safety limit switches to adjustment limits
- Efficient dust extraction hoods

INFEED STRAIGHTENING TABLE
Standard 2 metre infeed table with easily adjusted fence. Control electrics housed in base, saving on floor space.

MODEL 2SU —
7 head machine with 3-position universal head.

Special feature options

Every GA Series moulder can be enhanced with special features from a wide range of options. From extra heads to super efficient sound enclosure, from filling-in pieces to electronic positioning, choose wisely and you can make your investment in a GA even more outstanding.

If from experience you require a special feature ask about it — it's probably in the range already.

- More powerful feed and spindle motors for heavier stock removal
- Outboard spindle bearing for extra heavy stock removal
- Extra top and bottom heads for additional operations
- Feed speeds up to 36m/min and spindle speed up to 9000 rev/min
- Special heads for special jobs — random side head, throating head
- 4-position universal head for extra capability
- Short infeed table
- Pneumatic pressures to feedrollers for more control and for consistent feeding of difficult timber

SOUND ENCLOSURE
Close fitting g.r.p. sound enclosure with internal dust connections fitted to Model 6. Efficient option available for all models for effective control of working environment.

SHAFT DRIVE TO FEEDROLLERS
Maintenance-free shaft drive with added optional benefit of driven bed rollers at infeed and outfeed.

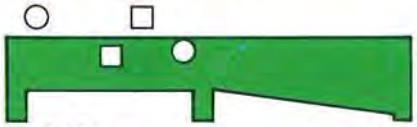
ELECTRONIC POSITIONING
Electronic positioning of top head and nearside head for extra quick setting-up. Available with digital pre-selection or microprocessor memory.

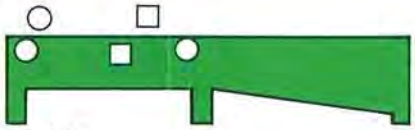
AIR BED
Full bed width independent air control to each feed roller position. Provides frictionless feeding for damp or resinous stock. Preferred by furniture industries as bed lubrication is eliminated.

EXTRA HEADS
Extra top and bottom heads can be fitted easily together with additional feed roller to maintain positive feed control.

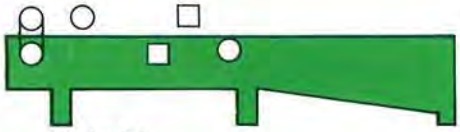
Standard Machines

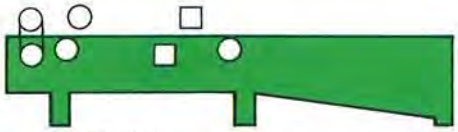
Standard machines are available with the following fixed head sequences. Some models have added capacity for retrofitting of additional heads.

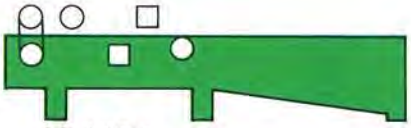

Model 1

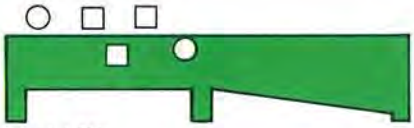

Model 2


Model 5


Model 1U

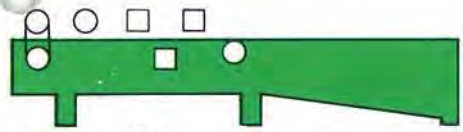

Model 2U

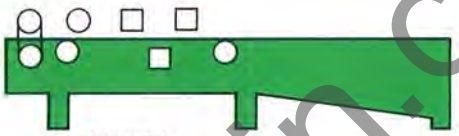

Model 5U


Model 1S


Model 2S


Model 6

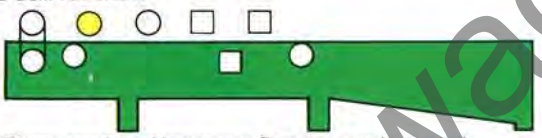

Model 1SU

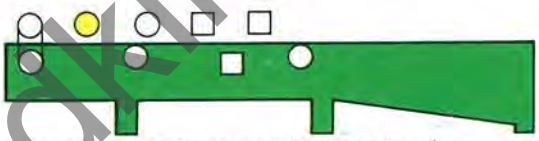

Model 2SU

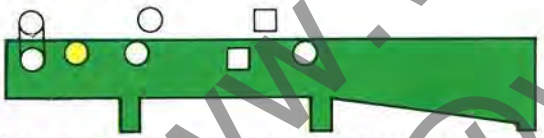

Model 6U

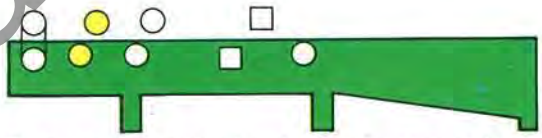
Options

Four additional optional head arrangements are offered to extend the capability of any of the above standard models still further.


Extra top head between first top and second bottom head.


Extra top head after second bottom head.


Extra bottom head after second bottom head.


Extra top and bottom heads after first top and second bottom head.

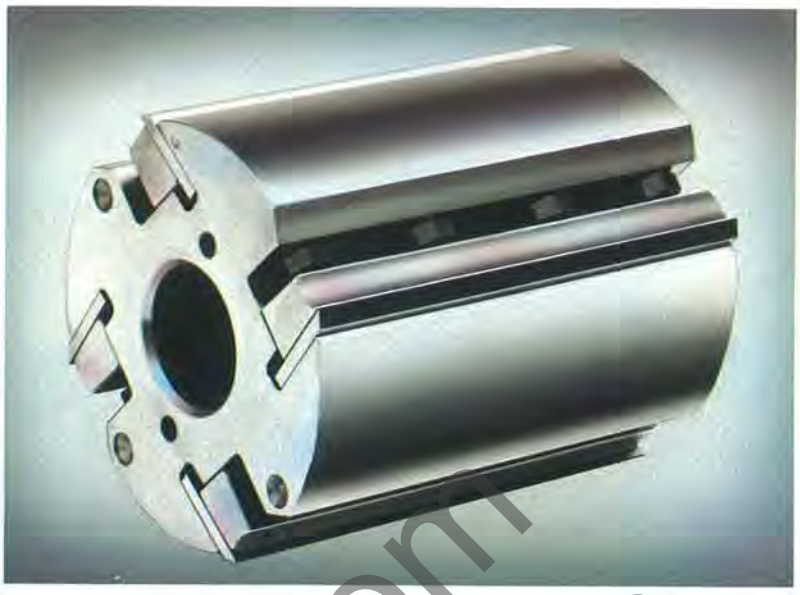
Specification

	GA170 Models	GA220 Models
Maximum size of timber admitted	180 x 130mm*	230 x 130mm*
Maximum size of finished timber	170 x 120mm	220 x 120mm
Feed speeds – fully variable, standard	6-28 m/min	
optional	6-36 m/min	
Feed motor, standard	2kW (3hp)	
optional	4kW (5.5hp)	
Feed rollers, diameter	140mm	
width, 3 per station	2 x 20mm 1 x 10mm	
Bed height	815mm	
Spindle diameter	40mm	
Spindle speed, standard	6000 rev/min	
optional	9000 rev/min	
Head motors, standard	4kW (5.5hp)	
optional	5.5kW (7.5hp) 7.5kW (10hp) 11kW (15hp)	
Infeed straightening table length, standard	2m	
optional	2.5m	
Maximum straightening	10mm	
Cutting circle, minimum	100mm	
maximum	180mm	

*With cutting circle of 125mm

Tooling

A comprehensive range of top quality HSS and TCT tooling is available to meet most standard requirements for GA machines. Cutterblocks are dynamically balanced and knives are provided in matched sets to meet only the highest standards of edge holding qualities and surface finish.



Circular Planing and Moulding Cutterblocks

Safety wedge type 4-knife cutterblocks up to 230mm wide for planing and moulding operations, incorporating the Wadkin integral ball spring system for easy setting with finger tight retention of cutters. Planing knives and profile cutterblocks are available in HSS on iron and TCT up to 230mm wide, 4mm or 6mm thick.

Narrow width Planing and Moulding Cutterblocks

Specially developed narrow width 4-knife cutterblocks with body diameter up to 150mm for use singly on narrow stock or small moulded sections where wider blocks would be impractical. Blocks can be mounted adjacent on the same spindle for special work. Planing knives and moulding knives are available in HSS on iron and TCT from 20-75mm wide.

Splitting Saws

Planer type splitting saws for mounting with spacers or standard 40mm spindles provide reliable and accurate splitting of sections.

Toolroom Equipment

To provide adequate support for day-to-day requirements in the toolroom, a range of easy to use setting and balancing equipment is available comprising a setting gauge for setting straight and profile knives, and a combined setting and balancing stand for setting knives and dynamic balancing of blocks after setting.

Separate leaflets are available on request for the full range of Wadkin tooling produced for the GA Series.

Wadkin

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