



**BEM  
SERIES**

**HEAVY DUTY VERTICAL SPINDLE MOULDERS**



# BEM Vertical spindle moulder

## HEAVY DUTY PERFORMANCE

Outstanding heavy duty performance, reliability and flexibility are just some of the proven facts by which the Wadkin Durham BEM has come to be recognised as the best value heavy duty spindle moulder available on the market. Designed to a very high specification and built to traditional Wadkin Durham standards, the BEM features a substantial cast iron base offering extreme rigidity, maximum support and vibration-free working. Combined with a precision ground cast iron table for an assured high quality surface finish with guaranteed accuracy of cut.

## SUPERIOR QUALITIES

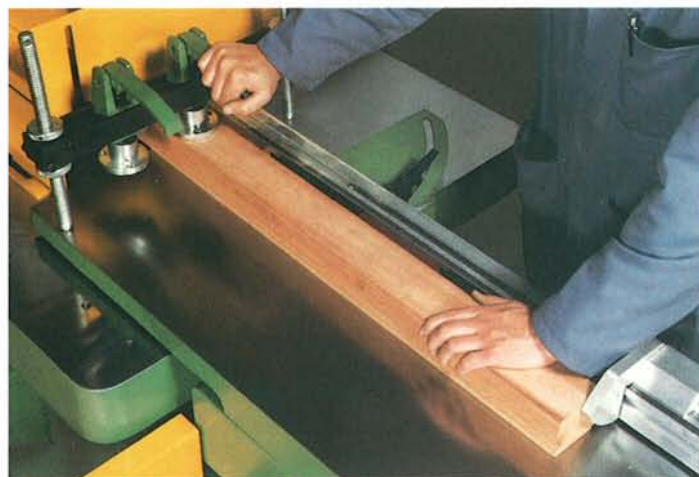
Install a Wadkin Durham BEM spindle moulder and you can be certain of a good return for your investment.

- ❖ **Heavy duty British construction for dimensional stability and long life potential**
- ❖ **Ergonomically designed for high operator efficiency**
- ❖ **Abundance of standard safety features for full operator protection**
- ❖ **Loose top pieces for accepting wide range of tooling and attachments**
- ❖ **Large range of options to cater for widespread applications**
- ❖ **Reliable service back-up for maximum machine utilisation**



### FRONT SUPPORT RAIL (BEM/L)

Lockable front support rail and extension table options provide more than adequate support for working large panels, built up sashes, doors and long workpieces with precision.



### TENONING TABLE (BEM/T)

Free running tenoning table option is fitted with adjustable fence incorporating a turnover stop, and quick-set hold down clamps for efficient tenoning and special tooling.

# er - the heavy duty machine

## THREE MODELS

Three models are available to meet your needs with the best possible cost effectiveness.

- ✘ Standard model (BEM) with 900mm x 1100mm table complete with 30mm interchangeable top piece, and making up collars as standard.
- ✘ Long table model (BEM/L) with 500mm metal infeed and outfeed extensions, and extendable front support rail, giving overall 2 metre table length for working long components.
- ✘ Tenoning model (BEM/T) with precision ground cast iron sliding table for accurate tenoning and end grain moulding. Operates at right angles to main table with sturdy outrigger support for maximum rigidity with superb accessibility to operator. Interchangeable 35mm loose top piece.

## POWER WITH SAFETY

The BEM is powered by a 3.7kW motor offering 4 stepped speeds from 300-7200 rev/min with quick speed change of driving belt by a simple belt tensioning device. Operator safety is assured by electrically interlocked spindle footbrake. The generous spindle rise and fall of 210mm is controlled by lockable handwheel, with provision for accurate movement down to 0.1mm. And a 3-position electrically interlocked spindle lock lever is yet another unique BEM safety feature.

Optional 7.5kW motor and 5-speed operation up to 10,000 rev/min available for special applications.



## FULL CAPACITY OPERATION

For maximum performance the BEM is ergonomically designed with a shaped table and grouped controls, plus a 360° swivel split fence featuring accurately ground cast iron fence plates with independent micro-adjustment and full guarding totally enclosing the spindle.

model BEM/T

## SUPERIOR STANDARD FEATURES FOR OUTSTANDING PERFORMANCE



### GROUPED CONTROLS

For high operator efficiency spindle rise and fall handwheel, spindle lock lever and footbrake are grouped to give full accessibility at front and infeed operating positions.



### INTERCHANGEABLE TOP PIECES

Standard loose top pieces, securing locknut, spacing collars, top locknut, and making up collars permit widespread use of standard and special tooling.



### TOTAL SPINDLE GUARDING

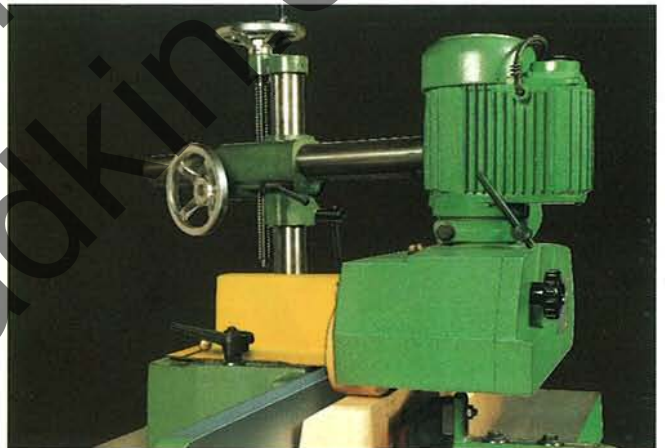
Full spindle guarding is a standard safety feature. Integral to swivel fence to achieve maximum utilisation of full table area with uniform safety to operator.

## SUPERIOR OPTIONAL FEATURES FOR EXTRA VERSATILITY



### **RING FENCE**

For curved profiling a ring fence is an invaluable attachment – oval picture frames, chair arms, bay window elements, and a host of other components. Complete with adjustable side guards for operator safety from any angle.



### **POWER FEED UNIT**

A BLG-8 power feed unit increases productivity with reduced operator fatigue. Choice of 8-speeds to suit material and depth of cut. Easily converted from horizontal to vertical feed.



### **DUST EXHAUST CONNECTIONS**

To facilitate connections of the machine to a dust extraction system for the best operating environment, fence and dust exhaust points can be fitted.

# SPECIFICATIONS

Standard table size	900 x 1100mm	(35 x 43 in)
Table extensions, optional	900 x 500mm	(35 x 20 in)
Table height	850mm	(33 in)
Spindle rise and fall	210mm	(8¼ in)
Loose top piece diameter, standard BEM & BEM/L	30mm	
	35mm	
	35mm, 1 in, 1¼ in	
Motor power, standard	3.7kW	(5 hp)
optional	5.5kW, 7.5kW	(7½ hp, 10 hp)
Spindle speeds, standard	3000, 4500, 6000 & 7200 rev/min	
optional	3000, 4500, 6000, 7200 & 10,000 rev/min	
Floor space, approx, BEM	900 x 1100mm	(35 x 43 in)
	BEM/L	900 x 2000mm
	BEM/T	2320 x 1900mm
Net weight, approx, BEM & BEM/L	610kg	(1345 lb)
	BEM/T	790kg
Gross weight, approx, BEM & BEM/L	675kg	(1490 lb)
	BEM/T	880kg

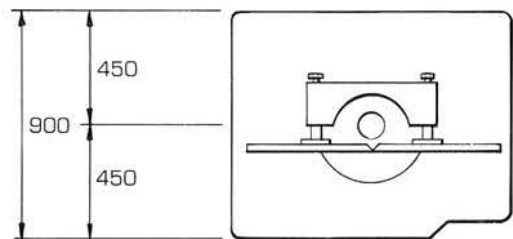
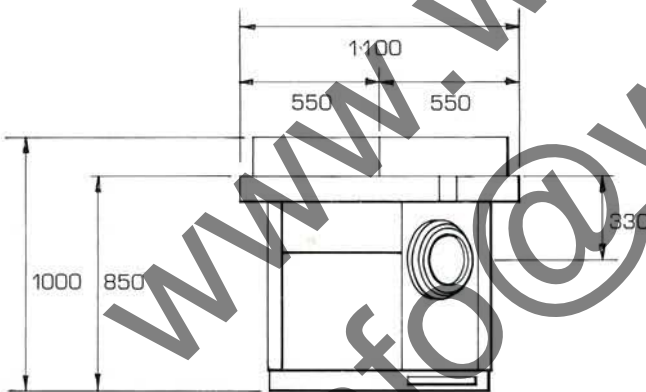
## OTHER OPTIONS

Other options available from the comprehensive range –

- Reversing switch and additional top locknut
- Electronic speed indicator
- Ammeter
- Vertical and horizontal Shaw guards
- BLG-8 power feed unit
- Dust exhaust connections
- Front rail support
- Ring fence
- Star/Delta starter

A standard BEM is supplied complete with 30mm diameter loose top piece, set of making up collars, swivel fence assembly with cast iron fence plates and micro-adjustment, totally enclosed top guard to British Standards, interlocked footbrake, micro-adjustment to spindle rise and fall, safety control lever, and control gear with no-volt release and overload protection.

Wadkin Durham spindle moulders conform to the latest Health and Safety Regulations with a high degree of environmental acceptability. Noise levels are well within prescribed safety limits and efficient dust extraction chutes ensure that machines remain dust free during operation.



Wadkin Durham also manufacture the BEL Series Spindle Moulders, further details are available on request. Details of the Power Feed Unit are available under a separate leaflet and for details on the range of Tooling available refer to Wadkin Tooling Catalogue Section D.



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