

STARTRITE

Vertical metal working bandsaw machines



THE FINEST AND BROADEST RANGE OF METALSAWING MACHINERY

14V – 20V – 30V

Strong Robust Simplicity

A 'V' series vertical bandsaw is an excellent choice in any shop, as they are designed for extreme versatility. The heavy welded box frame construction and cast iron work tables are built to withstand continuous and rugged applications.

10 carefully selected speeds make it possible to cut virtually any material with blades up to 5/8" (16mm) wide.



FEATURES:

- 14" (355mm) – 20" (500mm) & 30" (760mm) throat sizes available.
- Heavily constructed 1½ hp (1.1 Kw) motor and dual range transmission.
- Large cast iron work table 21" x 21" (530 x 530mm).
- Highly accurate guide system for precision work, giving full 10" (250 mm) capacity.
- Optional welder shear and grinder.

Specifications

	14V	20V	30V
Throat-in. (mm)	13½ (340)	20 (500)	30 (760)
Work height under Top guide-in. (mm)	10 (250)	10 (250)	10 (250)
Blade width-in. (mm)	1/8 (3) 3/16 (5) 1/4 (6) 3/8 (10) 1/2 (13) 5/8 (16)		
Blade length-in. (mm)	2 wheels	112 (2845)	112 (2845)
	3 wheels		130 (3302) 147 (3734)
Bandwheels- No. and size-in. (mm)	2 Steel 14 x 1½ (365 x 38)	3 Steel 14 x 1½ (355 x 38)	
Wheel tyres	Bonded Rubber		
Blade guides	INSERT TYPE		
Table	FIXED 21 x 21 (530 x 530)		
Table tilt	2 Way 45°R, 15°L		
T-slots	FRONT EDGE ONE		
Table height-in. (mm)	43½ (1105)		
Drive motor 3 phase	1½ hp (1.1 Kw)		
Blade speeds f.p.m. (m.p.m.)	50 (16), 65 (20), 80 (27), 170 (52), 300 (91), 500 (150), 650 (200), 900 (270), 1700 (520), 3000 (910)		
Gear transmission	2 Speed - Totally Enclosed		
Blade welder, grinder & shear	Optional Factory Fitted		
Dimensions:			
length-in. (mm)	42 (1067)	55 (1397)	66 (1676)
width-in. (mm)	22 (560)	22 (560)	22 (560)
height-in. (mm)	72 (1830)	72 (1830)	72 (1830)
Net weight-lb (Kg)	570 (250)	670 (300)	770 (350)
Shipping weight-lb (Kg)	780 (350)	890 (400)	1000 (450)

Standard Equipment:

- 1 ½ hp (1.1 Kw) TEFC 3 phase motor with dual range transmission.
- Magnetic motor starter push buttons and overload protection with interlocked bandwheel doors.
- Two way tilting fixed table.
- Blade tension indicator.
- Guide inserts for blades, 1/8, 1/4, 3/8, 1/2, & 5/8 width (3, 6, 10, 13, 16mm), and 1/2" blades supplied.

- Table trunnion & guide wrench.

- Operation and parts manual.

Optional Equipment:

- Blade welder, grinder and shear - Factory fitted.
- Air chip blower - Factory fitted.
- High illumination worklight and magnifying lens. See Page 9 for full accessory details.

20RWF, RWS, RWH. 30

Infinitely variable speeds with fixed

Offering many of the features found on the 'V' series, the 'RW' series extends the machines versatility with fixed or sliding tables to suit. Infinitely variable speed comes as standard, giving a speed range of 50-300 fpm (15-90 m/m) 500-3000 fpm (152-914 m/m) to enable most material to be cut.

Each model has a built in blade welder, grinder and shear. A job selector dial helps pick just the right speed for the material and blade sizes of 1/8 to 5/8" (3 to 16mm) can be used. These high specification machines feature strength and accuracy and are capable of tackling many of your sawing needs.

SAME LENGTH.
AS 14V



FEATURES:

- Fixed table (RWF) manual rack & pinion sliding table (RWS) and hydraulic sliding table (RWH) available.
- Blade welder shear and grinder fitted as standard.
- Easy to adjust variable speeds from 50-300, 500-3000 fpm for cutting most types of material.
- Heavy duty box steel construction & precision guide post.

RWF, RWS, RWH.

hydraulic and manual sliding tables.

Specifications

	20RWF	20RWS	20RWH	30RWF	30RWS	30RWH
Throat-in. (mm)	20 (500)			30 (760)		
Work height under Top guide-in. (mm)	10 (250)					
Blade width-in. (mm)	1/8 (3)	3/16 (5)	1/4 (6)	3/8 (10)	1/2 (13)	5/8 (16)
Blade length 3 wheels	130 (3302)			147 (3734)		
2 wheels				112 (2845)		
Bandwheels - No. and size-in. (mm)	3 Steel 14 x 1 1/2 (355 x 38)					
Wheel tyres	Bonded Rubber					
Blade guides	INSERT TYPE					
Table Type	FIXED	SLIDING RACK & PINION	SLIDING HYDRAULIC	FIXED	SLIDING RACK & PINION	SLIDING HYDRAULIC
Size-in. (mm)	21 x 21 (530 x 530)	20 1/2 x 20 1/2 (521 x 521)	20 1/2 x 20 1/2 (521 x 521)	21 x 21 (530 x 530)	20 1/2 x 20 1/2 (521 x 521)	20 1/2 x 20 1/2 (521 x 521)
Tilt	2 Way 45°R, 15°L					
T-slots	Front Edge One	Front Edge - One Table Top - Four		Front Edge One	Front Edge - One Table Top - Four	
Stroke-in. (mm)	-	8 1/2 (216)		-	8 1/2 (216)	
Feed rate	0-35in/min (0-889mm/min)			0-35in/min (0-889mm/min)		
Feed force-lb (Kg)	0-210 (0-95)			0-210 (0-95)		
Auxiliary table-in. (mm)	10 x 19 (250 x 480)					
Table height-in. (mm)	43 1/2 (1105)					
Drive motor 3 phase	1 1/2 h.p. (1.1 Kw)					
Blade speeds-Ininitely variable-f.p.m. (m/min)	50-300 (16-90) - 500-3000 (152-914)					
Gear transmission	2 Speed - Totally Enclosed					
Blade welder, grinder & shear	BUILT IN 5/8" (16mm) Capacity					
Dimensions:						
length-in. (mm)	55 (1397)			66 (1676)		
width-in. (mm)	22 (560)	25 (635)	25 (635)	22 (560)	25 (635)	25 (635)
height-in. (mm)	72 (1830)			72 (1830)		
Net weight-lb (Kg)	825 (375)			925 (420)		
Shipping weight-lb (Kg)	1065 (485)			1175 (535)		

Standard Equipment:

- 1 1/2 hp (1.1 Kw) TEFC 3 phase motor with dual speed transmission.
- Magnetic motor starter push buttons and overload protection with interlocked bandwheel doors.
- Blade tension indicator.
- Guide inserts for blades, 1/8, 1/4, 3/8, 1/2, & 5/8 (3, 6, 8, 13, 16mm), and 1/2" blade supplied.

- Built-in blade welder, shear and flash grinder.
- Built-in air chip blower.
- Speed and blade selector dial.
- Table trunnion & guide wrench.
- Operators and parts manual.

Optional Equipment:

For full range of optional equipment see Page 9

V500F – V500H – V900

Heavy Duty Performance with Hydraulics

3 HP (2.2 Kw) drive transmitting through a variable speed system, gives blade speeds of 50-5200 fpm (16-1585 m/min). This large speed range suits almost all material types. These machines are fitted with large and extremely heavily constructed tables. Fixed table models have two way tilting and optional weight feed device, with adjustable feed force up to 801 lb (36 Kg). Sliding table models have built-in hydraulic power feed with fast traverse and cutting control.



FEATURES:

- Heavy duty constructions with large bandwheels for transmitting high horsepower.
- Large dimension robustly constructed tables, on heavy trunnions and slide bearings for extra heavy loading.
- Max 1" wide blade for added beam strength when precision cutting.
- External gear change and jog button through totally enclosed transmission.

V900H

Hydraulic & Fixed Tables

CO.UK

Specifications

	V500 F	V500 H	V900 F	V900 H
Throat-in. (mm)	20 (500)		36 (915)	
Work height under Top guide-in. (mm)	14 (350)		13 (330)	
Blade width-in. (mm)	1/8 (3), 3/16 (5), 1/4 (8), 3/8 (10), 1/2 (13), 5/8 (16), 3/4 (20), 1 (25)			
Blade length 2 wheels	159 1/2-164 (4050-4165)		135-141 (3429-3581)	
3 wheels	-		180-183 (4572-4648)	
Band wheels-number	2		3	
Band wheels-size	20 1/2 (520) dia x 1 1/4 (45)		16 (400) dia x 1 1/4 (45)	
Wheel tyres	Bonded Rubber			
Blade guides	Carbide Chevron with hardened back-up roller			
Table type	FIXED	HYDRAULIC	FIXED	HYDRAULIC
Size-in. (mm)	24 x 24 (610 x 610)	26 x 27 1/4 (660 x 700)	24 x 24 (610 x 610)	26 x 27 1/4 (660 x 700)
Tilt	45°R, 15°L			
T-slot	FRONT EDGE	FRONT EDGE TABLE TOP 4	FRONT EDGE	FRONT EDGE TABLE TOP
Stroke-in. (mm)	N/A	12 (305)	N/A	12 (305)
Feed rate-in. (mm)/min.	N/A	0-35 (0-890)	N/A	0-35 (0-890)
Feed force-lb (Kg)	N/A	0-210 (0-95)	N/A	0-210 (0-95)
Hydraulic tank capacity-gallons (litres)	N/A	2 (7.5)	N/A	2 (7.5)
Auxiliary table size-in. (mm)	13 x 22 (330 X 559)			
Table height-in. (mm)	39 (990)		42 (1067)	
Drive motor	3 hp (2.2 Kw)			
Blade speeds-variable	50-5200 ft/min. (16-1585 m/min.)			
Gear transmission	2 Speed - Totally Enclosed			
Blade welder, grinder & shear-in. (mm)	BUILT-IN 1" (25) Capacity			
Dimensions	47 1/2 (1206)		80 (2030)	
width-in. (mm)	36 (915)		35 (890)	
depth-in. (mm)	46 (1180)		43 (1090)	
height-in. (mm)	82 (2080)		82 (2080)	
Net weight-lb (Kg)	1477 (570)		1680 (762)	
Shipping weight-lb (Kg)	1590 (721)		2030 (921)	

Standard Equipment:

- 3 hp (2.2 Kw) TEFC 3 phase motor with dual speed transmission.
- Magnetic motor starters with 24 volt control circuit, push buttons and overload protection.
- Two way tilt fixed or sliding table with "T" slots.
- Blade tension indicator.
- Built-in blade welder, shear and flash grinder.

- Built-in air chip blower.

- Chevron guides 3/4" - 1/2" (also 3/8" - 1/4" on H models) & 3/4" wide blade.
- Table trunnion & guide wrench.
- Operating and parts manual.

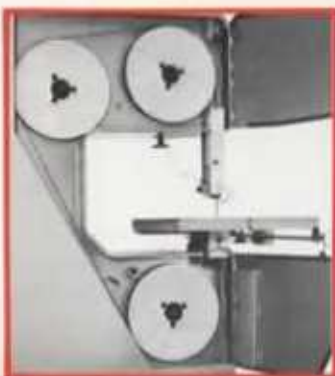
Optional Equipment:

For full range of optional equipment see Page 9

Standard Features

Construction

Rigid box frame welded construction of heavy plate ensures maximum stability for all sawing applications. Bandwheels and pulleys are dynamically balanced for exceptionally quiet and smooth operation. Table trunnions are heavy duty and made of durable meehanite cast iron. All moving parts are fully guarded, and a telescopic blade guard allows only the actual cutting area of the blade to be exposed. The baked on enamel finish and clean design make the Startrite vertical bandsaw a pleasant and durable addition to any shop.



Bandwheels

Heavy duty bandwheels are high speed dynamically balanced and ride on sealed for life bearings, ensuring vibration free operation. Bandwheels are interchangeable on each machine and are easily replaced.



Hydraulic sliding table

All models carrying 'H' designation have a built-in hydraulic system which allow the workpiece to be clamped to the table 'T' slots while the entire table is fed through the blade. Adjustable speed feed 0-35 i.p.m. (0-890 mm/min) and feed force 0-210lb (0-85 kg) allow precise control of cut, and rapid traverse and adjustable stops allow quick, efficient set-up and operation.



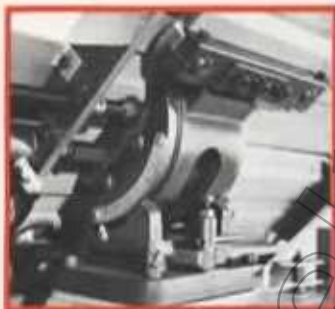
Blade tension

Correct blade tension may be quickly applied and accurately checked through the indicator window.



Two wheel operation

All 30in (760mm) and 36in (915mm) machines are equipped with an auxiliary blade guard, enabling the machines to be used with two bandwheels only. This enables substantial savings when band filing.



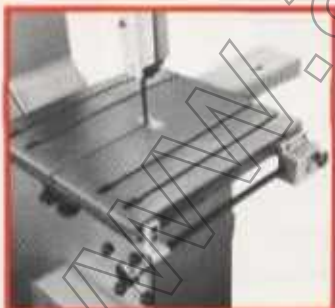
Trunnion

Heavy duty precision trunnions are constructed of rugged meehanite cast iron and are fitted with calibrated scales to indicate the degree of tilt.



Blade welder

On designated models a built-in blade welder, flash grinder, shear and gauge for checking the finished weld are standard. Free standing units are also available for machines not carrying these as standard equipment.



Mechanical sliding tables

Exclusive rack and pinion feed provides easy and sensitive control. Workpieces are clamped to table via 'T' slots and table is then fed through the blade. Work stops are also provided. (Models 20RWS-30RWS)



Blade Guides Accessories



Blade guides Standard

Replaceable Guide inserts are standard on all models, and the upper guide elevation adjustment is made easy with counterbalance construction. Quick change inserts are available for any size blade. Various other guide types are available for special applications. Guides for heavy duty models differ from those illustrated, having carbide sideguides and a hardened backup thrust roller.



Roller guides

Side and backup rollers allow frictionless sawing, especially useful for high-speed applications.

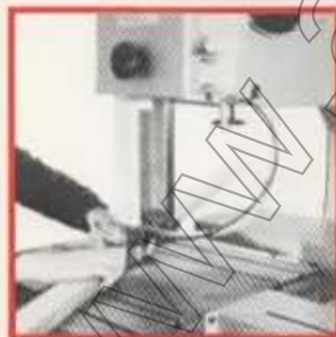
Optional on models 14V - 20V - 30V, 20 RWF/S/H, 30 RWF/S/H. Roller guides available for models V500 - V900 not as illustrated.



Universal guides

Carbide side guides with roller back-up will adjust to any blade width or thickness.

Optional on models 14V - 20V - 30V, 20 RWF/S/H, 30 RWF/S/H.



Angle guides

By introducing a twist in the blade, these guides allow the sawing of long stock lengths.

Optional on models 14V - 20V - 30V, 20 RWF/S/H, 30 RWF/S/H. Angle guides available for models V500 - V900 not as illustrated.



Dial in job selector

Standard equipment on model V900. The built in job selector is graduated to help you select the correct blade speed for the material to be cut.



Blade and speed selector

This easy to read reference enables the operator to choose the proper blade and speed. Optional on models 14V - 20V - 30V.



Air chip blower

Built-in air system allows the cutting area to remain free of chips. Standard on most models.

Optional on models 14V - 20V - 30V.



High illumination work light and magnifying lens

Plugs into all models on a low volt circuit giving well lit visual access to work area. Optional equipment on all models.

Other optional equipment includes:

Polishing support bar, Polishing bands, Key operated switch, Bandfilling attachment, Bandfiles, Fused isolator, Mist spray coolant attachment, Weight feed (V500F-V900F).

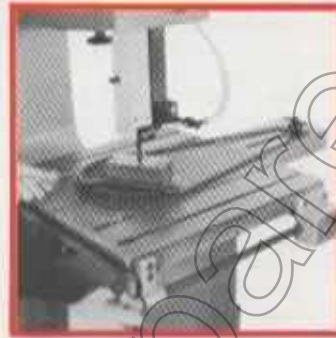
Fixtures, Work Holders etc.

Special Applications



Rack and pinion pusher

Attaches to front 'T' slot of fixed tables for precision mitre or straight cuts with mechanical feed.



Contouring work holder

For contouring work on any sliding table.



Circle cutting attachment

Assists the accurate sawing of discs.



Rip fence

Attaches to front table 'T' slot and is equipped with lateral line adjustment, allowing straight and accurate cuts.



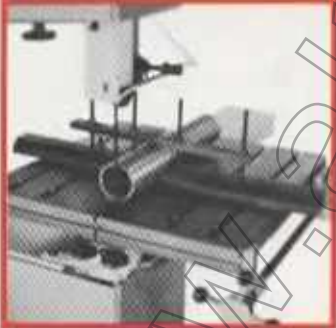
Universal work holder

Used only with sliding tables, a multitude of sizes and shapes may be held while sawing.



Mitre gauge with pusher

Attaches to front 'T' slot of Fixed table for precision mitre cuts.



Mitre gauge

Attaches to front 'T' slot of Sliding table for precision mitre cuts.

Model Selector Application Chart

Applications	14V	20V	30V	20 RWF 30RWF	20 RWS 30RWS	20RWH 30RWH	V500F V900F	V500H V900H
Technical Schools	•	•			•			
Garages/Electricians	•			•	•			
Heating Engineers		•	•	•				
Ducting Eng., Plumbing		•	•	•				
Reclamation Ind.		•	•	•				
Foundaries						•	•	•
Small Workshops	•	•		•	•			
All Workshops	•	•	•	•	•	•	•	
Maintenance	•	•		•	•			
Laboratories	•				•	•		
Light Engineering	•	•	•	•	•			
Heavy Engineering				•	•	•	•	•
Automobile Plants	•	•	•	•	•	•	•	•
Aircraft Builders	•	•	•	•	•	•	•	•
Shipyards				•	•	•	•	•
Steelworks							•	•
Fabricators				•			•	•
Mould Makers		•	•	•			•	
Construction		•	•				•	
Fibre & Board Materials		•	•	•				
Plastics		•	•	•				

STARTRITE are experienced in offering special purpose sawing machinery as well as manufacturing a full range of circular and band cut-off machines.

We have supplied specialised machines for exceptionally large or difficult to cut materials, assemblies and components. Please ask for our specialised advice on your application.

Bandsawing Specialists

The Startrite range also includes manually operated and fully automatic high performance cut-off saws for material up to 660mm (26in.) diameter or square.

Please ask for separate literature.



Ask Startrite for more information on these and other models, we are qualified to advise you on the most suitable machine for your needs and to supply spare parts and service back up.

STARTRITE[®]

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VMB/UK/L

All Startrite machines are subject to constant research, development and improvement, we reserve the right to make modifications to the specifications given in this brochure without prior notice.