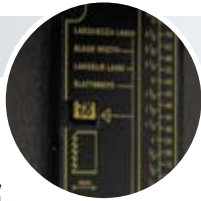


## Industrial Bandsaw Range

### A BLADE TENSIONING AND TOP SLIDES

Tensioning a blade correctly is essential to achieve accurate results on a bandsaw. In order to achieve the correct tension though, the components have to be up to the job. Huge stresses are generated when a blade is tensioned, it is therefore essential that this area of the bandsaw is designed for maximum strength and rigidity. The entire industrial range of Startrite bandsaws are calibrated to 20,000psi, giving excellent beam strength to the blade and setting them apart from lesser machines.



#### Tracking

The wheels are mounted on a pivoting cast iron bracket for extra strength, the angle of which is controlled by a screw and lock at the rear of the machine. This pivot bracket is in turn attached to a cast iron top slide providing a solid base when tension is applied. It is important to have rigidity in this area due to the stresses a correctly tensioned blade develops.

#### Tensioning

The mechanism is cast iron and sprung with a heavy duty spring to maintain tension. The tension screw which uses a rolled acme thread for strength, is covered with an anti-friction coating to give smooth operation.

### C FENCES AND GUARDS

The fences on a bandsaw provide support and guide the blade through the material when a consistent cut is required. A rip fence is used for straight cuts and is essential, especially on long section material where there is no margin for error. A fence therefore has to stand firm to ensure the material is cut to the required size, whether that be a wafer thin veneer or a wide plank. The criteria for a blade guard is very simple it must provide the user with maximum protection whilst remaining unobtrusive when the machine is in use.



#### Rip Fences

Designed quite simply for maximum stability. All Startrite rip fences run on round solid steel bars rather than aluminium extrusions providing a rock solid base for the fence. The fence itself is made to exacting tolerances and features two faces on the fence plate. Throughout the range we have ensured that the fence is as deep as possible to provide maximum support right up to the machines capacity.

#### Blade Guards

The guards are designed to give full protection and comply with all safety legislation, but by opening on a hinge they allow easy access for blade changing.

### B GUIDES

Blade guides are a small component but essential to the cutting performance of a bandsaw. By providing support just behind the 'set' on the blade the guides give valuable support where it is needed most and prevent twisting and distortion while cutting.

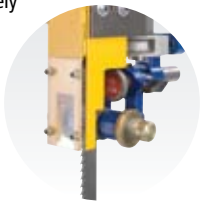


#### Ceramic Guides

A revolutionary blade guide system that is designed to give many years of superior high quality band sawing. Unlike other blade guide systems the ceramic guide supports the blade on the sides above and below the rear blade thrust pad, thus eliminating blade twist and providing unsurpassed stability. Ceramic guide blocks are used instead of conventional materials for both side and rear thrust support. This enables the guides to run close to the blade on all sides without heat build up.

#### Roller guides

The roller guide system evolved from traditional industrial guides. This new version is accurately machined, uses industrial bearings and is very simple to set and adjust to achieve excellent results. This is still a very accurate system but more economic for the workshop that cannot justify the extra cost of the superior ceramic system.



### D BANDWHEELS

The bandwheels are the real heart of a bandsaw and their quality and construction are one of the most critical areas affecting the performance of the saw.



#### Construction

Cast Iron bandwheels are not only more rigid, but also have additional weight which helps the flywheel effect, reducing workload on the motor and helping power the blade through the workpiece.

#### Crowned Rubber Tyres

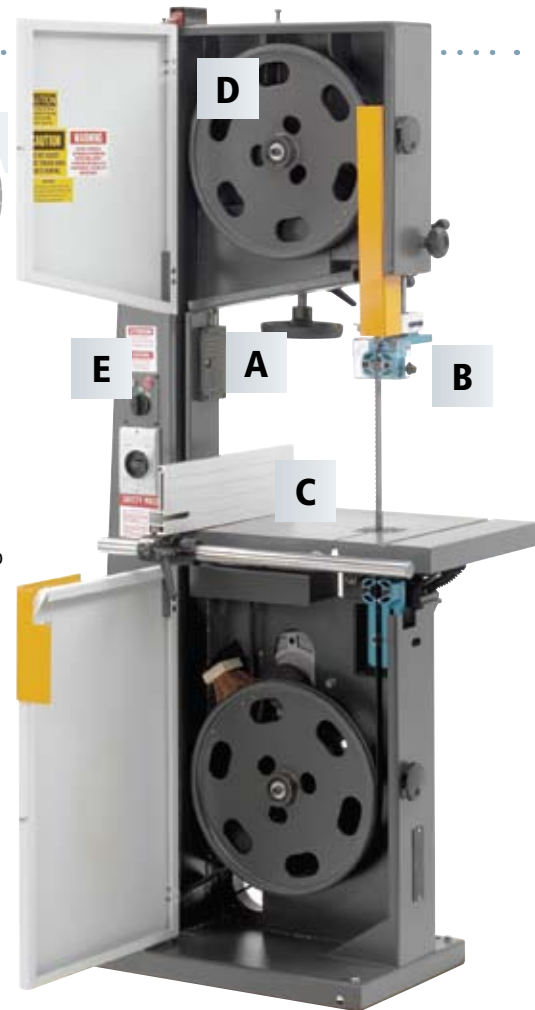
All Startrite bandwheels are covered with a thick rubber coating which will provide the necessary grip to drive the wheel correctly. In addition, the tyres are precision ground with a crowned radius to assist with accurate tracking of the blade.

#### Balancing

All Startrite bandwheels are dynamically balanced and rigorously tested to minimise vibration. Bandwheels revolve at very high speeds so correct balancing is critical, especially with larger diameter wheels.

#### Wheel Hubs

If the wheels are the heart of the machine, then the mechanism fixing them to the machine must be substantial and reliable, this has always been a particular strength of Startrite bandsaws. Only machined steel or cast iron and high quality industrial bearings are used.



### E MACHINE FRAMES

The very foundation that the bandsaw is built around, if the frame has any weakness this will transfer throughout the rest of the machine resulting in sub-standard performance. All Startrite bandsaws run at 1500M/min, which requires superior frame strength and wheel balance.

#### Design

Startrite bandsaws are designed around heavier frames than most of the competition and wherever possible strengthening contours have been used to increase rigidity further. Our machines are designed to fulfil a 20-30 year working life under industrial conditions, therefore are developed and engineered with this as the main criteria.

#### Construction

Startrite bandsaws are fabricated from heavy gauge steel sheet, folded and gusseted. Extra plating is used in key areas to provide extra strength. The width of the spine in proportion to the height of the machine reduces twist and flexing.



## 401E & 401S Industrial Bandsaws

The 400 series has now been extended to include a more economical version of the 401S and all of the machines have had their capacity increased to the class leading 400mm cutting height of the 440R. The strength of the bandsaw bodies allows the blade to be tensioned to 20,000psi and above when needed providing proper blade tension for accurate cutting. Because of their rigid bodies they also run at 1500 M/min, about twice the speed of a typical cheap far eastern import. This provides a cleaner, faster cut with a better finish.

### 401E

Built with the same strong frame as the 401S but with electronic braking and roller guides it provides the opportunity to own a precision built, high quality, European machine for the same price as a far eastern import. At this price there is nothing to match the performance and durability.

### 401S

Sharing all of the same existing specifications and capacities as the 401E, the 401S is fitted with a mechanically braked motor and our unique ceramic guide system for ultimate performance.

#### CAST IRON BANDWHEELS



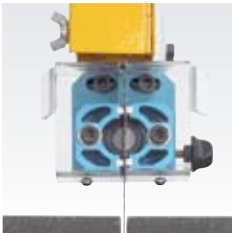
Heavy duty cast iron bandwheels and tensioning slides.

#### BLADE TENSIONING



Accurate blade tension gauge.

#### CERAMIC GUIDES



Ceramic blade guides are fitted to the 401S, providing maximum support.

#### INDUSTRIAL FENCE



Solid industrial fence and steel rail.

#### 400mm DEPTH OF CUT



#### ROLLER GUIDES



Precision roller guide system gives accurate results (401E).

#### RACK & PINION TABLE TILT



### SPECIFICATIONS

	401E	401S
Bandwheel diameter	400mm	400mm
Blade speed	1500M/min	1500M/min
Motor power (single phase)	3hp	3hp
Motor power (three phase)	3hp	3hp
Height under guides	400mm	400mm
Maximum cutting width	390mm	390mm
Table size	400x500mm	400x500mm
Table tilt	0-20°	0-20°
Blade width	6-30mm	6-30mm
Weight	158kg	148kg
Dimensions	D520 x W770 x H1790mm	D520 x W770 x H1790mm