SLICER 37

TECHNOLOGY PATENTED NO.2498772

Long Lasting, Productivity Enhancing Bandknife Blades
37% Longer Lasting – Guaranteed

Discover how Slicer[37] slashes your operating costs and improves productivity

- Significantly better wear characteristics
- Fewer blade breakages
- Less machine downtime
- Reduced blade spend
- Better cut yield, less product waste
- Maximum operating efficiency

DAKIN FLATHERS

Quality Bandsaw and Bandknife

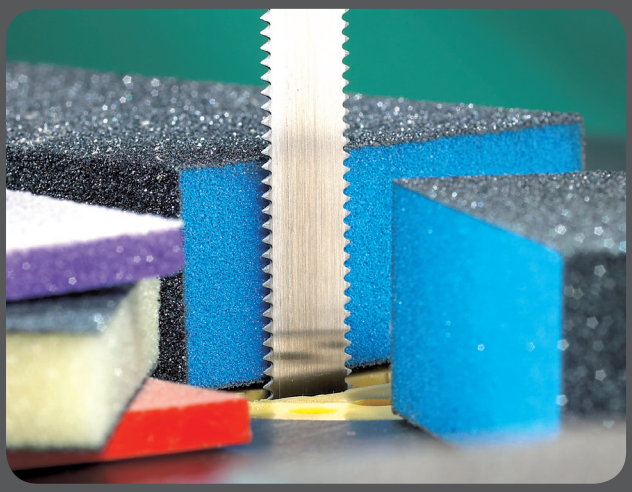
Slicer^{37} – The Ultimate Bandknife Blade

Making Bandknife and Bandsaw blades is all we do. Our reputation lives or dies solely on the performance, benefits and the service levels that you get from our blades. We understand that our blades, and the service levels you experience, have to be outstanding.

The development of Slicer^{37} began with many detailed conversations with bandknife blade users, just like you. You told us that you wanted stronger blades, that cut cleaner, held their edge for longer, didn't break prematurely and above all, which kept your line running at full capacity for longer, with reduced maintenance and downtime.

Your machine and finished product is only as good as the blade used on it. An average or low quality blade produces product which is just that, average and low quality, which could potentially leave you with damaged or unsalable material or a damaged reputation with your customers.

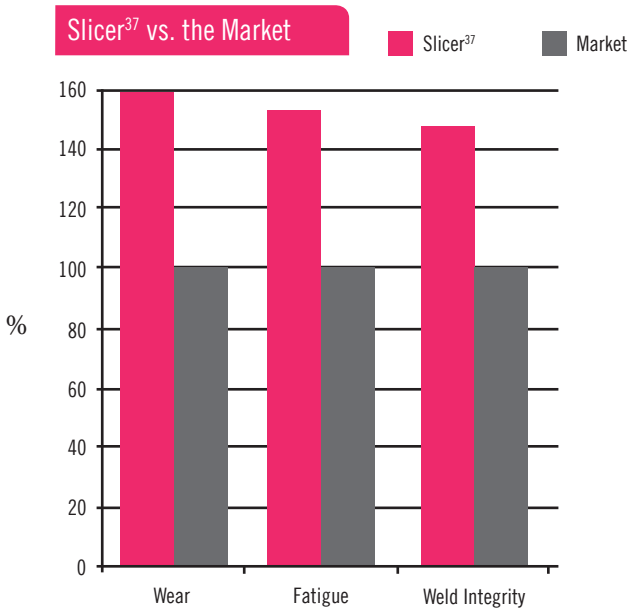
Slicer^{37} blades will improve the performance of any machine resulting in better finished product for you to sell with less waste and happier customers.



Generation^{37} – At Least 37% Better Performance

As part of our Generation^{37} product development programme, we challenged our research and development team to create a new generation of bandknife blades that would significantly outperform the market.

Based on research with customers and blade users from around the world, the performance improvement benchmark was set as being at least 37% better across a broad range of crucial performance measures including fatigue, wear and strength. Slicer^{37} delivers on that challenge and creates the World's finest bandknife blades, giving you better cutting performance, longer blade life, significantly increased productivity and more profit.



Slicer^{37} outperforms the market by a significant margin, well in excess of the 37% benchmark.

The Slicer^{37} Journey

Our ambition to bring you the finest blades compelled us to search and find excellence in every aspect – from raw material, to design, to the manufacturing process and machinery, and even as far as creating the perfect packaging.

Our quest to be able to create and deliver you this World leading range of bandknife blades resulted in...

- The specification of steel with special metallurgy – for a blade that achieves the perfect balance between strength for long life and sheer cutting performance, and the flexibility to reduce fatigue and breakage.
- The design and purchase of new generation patented manufacturing equipment – created exclusively for Dakin–Flathers by the people who build the machines used to grind the super high precision turbines used in Rolls–Royce Trent Turbofan engines, developed for aircraft such as the Airbus A380 and Boeing 787.
- A completely new manufacturing process – we reviewed and enhanced every aspect of the manufacturing process to preserve and protect the unique metallurgical qualities and properties of the steel.
- Packaging that makes a difference – through talking with bandknife users like you, we even went as far as developing a new packaging format for Slicer^{37} to remove the risk of accidental blade notching and damage during transport and installation.

In short, we left no stone unturned, which is why we are proud to offer you what we believe are the World's best bandknife blades – Slicer^{37}.

Here's why Slicer^{37} outperforms its leading rivals...

Sharper for Longer – Fewer Blade Changes, Less Downtime, Reduced Blade Spend

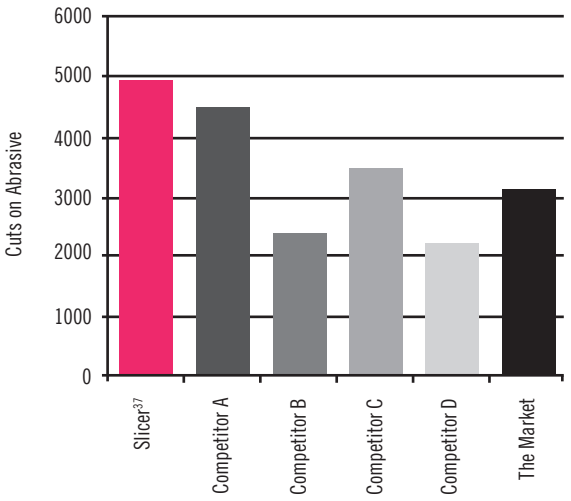
Superior Materials & Blade Hardness

Achieving the best from a bandknife blade largely depends on hitting the "optimum" blade strength. Too soft and the blade will not take and hold a long lasting cutting edge, too hard and the blade becomes brittle and susceptible to premature fatigue failure.

Slicer^{37} is manufactured from premium, carbon–rich Western European steel with unique metallurgical properties specially developed to meet customers' demands.

This means Slicer^{37} hits the "sweet–spot" giving you significantly better wear and longevity characteristics. Slicer^{37} stays sharper for longer, gives cleaner cuts with less waste, and requires fewer blade changes –reducing blade change downtime.

Wear Characteristics – Slicer^{37} vs. the Competition



Slicer^{37} is designed to significantly reduce your operating costs, production scrap and machine downtime - giving you higher profits

Fewer Premature Breakages – Maximum Productivity & Profitability

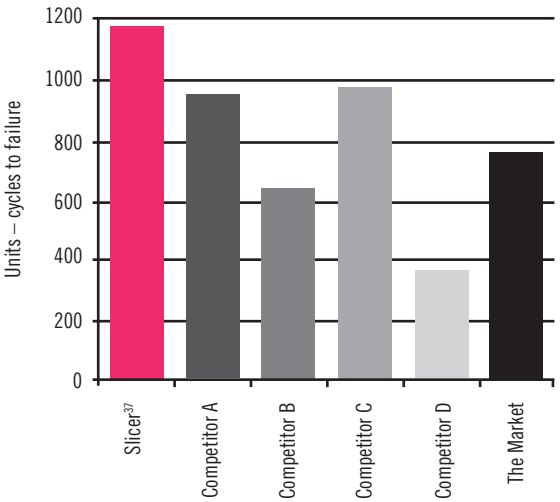
Unique Manufacturing Process

Even the best steel can be compromised during manufacture if the process is too harsh, or generates too much heat.

Traditional grinding generates excess heat leaving hard spots, stress raisers and a rough finish that can lead to uneven cutting and premature breakage. The low tolerances of old fashioned forming methods can also result in low repeatability of cutting performance. In addition, they can also anneal (soften) the blade at the precise point where you require optimum hardness – at the cutting edge.

With our all–new "gentle" manufacturing process, bevels and profiles are precision ground using state of the art patented CNC machinery (created exclusively for Dakin–Flathers by the people who build the machines used to grind the super high precision turbines used in Rolls–Royce Trent Turbofan aircraft engines) and a specially developed coolant, which preserves the unique metallurgical properties of the steel used to manufacture your Slicer^{37} blades. This means that after grinding and profiling, the blade and cutting edge maintain their optimum strength, resulting in a blade that gives you long lasting, clean cutting performance.

Fatigue Testing – Slicer^{37} vs. the Competition



Superior Cutting Performance – Faster, Cleaner Cutting

Diamond Ground Profiles, Bevels and Teeth

When punched blades are used in demanding applications, these traditional manufacturing techniques can cause premature blade failure and breakages because of the high levels of stress put on the blade during manufacture. They can also suffer from rough and uneven profiles, giving poor cutting performance.

You can see the difference from the 'finite element' model (Fig.1 and Fig.2); red/brown areas in the body and gullet indicate high stresses which lead to premature band breakage. Punching methods leave a rough surface and high stresses as seen in the image, while ground blades have a beautiful smooth clean profile with virtually no stress raisers.

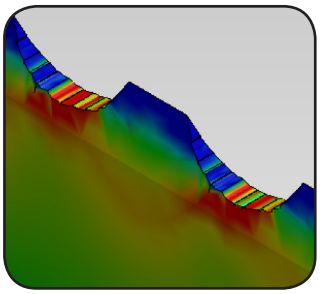


Fig.1 *(Punched)*

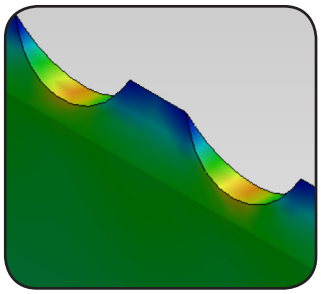


Fig.2 *(Ground)*

This is why for the most demanding applications Slicer[37] blades are precision ground (not punched). The precision ground profiles, bevels and teeth of Slicer[37] blades are sharper and cleaner, which gives you a high performance blade that cuts faster and more accurately, and that lasts longer.

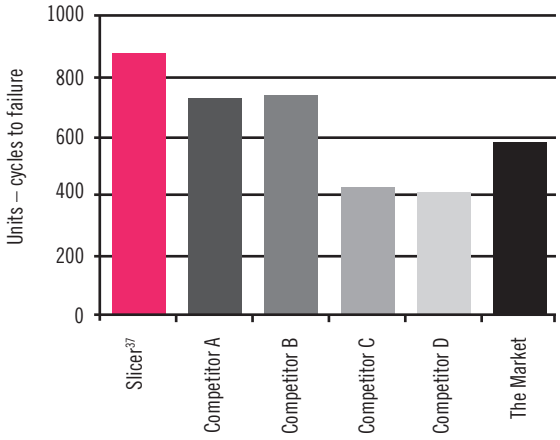
Consistently Strong, Yet Flexible Blades – Longer Life Ultra Strong Welds

The saying "a chain is only as strong as its weakest link" applies to bandknife blades as well, which is why high weld quality is critically important.

The high quality factory welding process developed and used by Dakin–Flathers means you get a blade with optimum strength joint and with more accurate alignment. As you can see from the graph below, fatigue and stress testing in our research and development lab shows that our advanced welding techniques outperform the market by 47%.

This is why we guarantee that every Slicer[37] blade you fit to your equipment is perfectly welded with a precision measured welding process to ensure optimum strength and flexibility.

Weld Integrity - Slicer[37] vs. the Competition



Here's why Dakin-Flathers is your trusted partner and supplier...

We understand that delivering you a World–leading product is only part of what it takes to form a successful partnership. So when you choose Dakin–Flathers we guarantee that the service you receive will be every bit as exceptional as the product.

Packaging

Our passion for World leadership even extends to the packaging of your new blades. Research shows that traditional packing techniques can cause notching on the cutting edge, so we developed a unique packaging technique which means that your new blades cutting edges do not cross or meet during transit.

We've even replaced the traditional cable ties (which you need to remove with snips – a process that can scratch and damage your new blade) with twist ties that you simply twist off for faster and safer blade replacement.

Friendly Technical Support

When you call you are able to tap into the vast levels of experience that our team have, which includes trouble–shooting specific issues that you may be having with your line, and developing solutions to problems.

You can use our technical resource to help ensure you get the best possible blade for your application.

Our Guarantee

Every Dakin–Flathers Slicer[37] blade you buy is backed by our Gold Seal Guarantee. Quite simply, if you're not absolutely delighted with your blade, we will replace it or refund you in full.*

In Summary

With the unique combination of special metallurgy, the preservation of those properties during manufacture and highly accurate profiles, Slicer[37] hits the all important "sweet spot" which means you get a longer lasting blade, with fewer breakages, lower downtime and which significantly reduces your operating costs.

Slicer[37] has been developed to give you uncompromising performance and exceptional reliability – choosing Slicer[37] means you get...

- Better wear characteristics – *fewer blade changes and less downtime, reduced blade spend*
- Fewer blade breakages – *less scrap*
- Perfect "out–of–the–box" performance – *faster blade changes*
- Reduced operating costs – *saves you money*
- Maximum operating efficiency – *increases your operating profit*

*Subject to fair usage

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