RIPPER^{S}

Quality Primary Timber Processing Sawmill Blade

Strength, performance and economy – Ripper^{S} is everything you need in an every day blade...

- Minimal waste and maximum cutting power
- The strong and flexible workhorse blade
- Unique “out-of-the-box” performance
- The cost-effective way to get more out of your sawmill

DAKIN FLATHERS

Quality Bandsaw and Bandknife

Ripper^{S} – The 'must have' quality sawmill blade

Some blades are more equal than others. Take our Ripper^{S}. Yes, we have other blades in our arsenal that have other individual attributes, but if you're looking for the one blade to consistently deliver day in, day out on your sawmill – in terms of quality, performance and price – then Ripper^{S} cuts it.

Think of it as the Dakin–Flathers workhorse. The one blade that has the ideal balance of all your day–to–day sawmilling needs. It may be everyday, but it still beats the competitions blades any day of the week.

It combines excellent durability and reliability with rock–solid dependable performance to create consistently cleaner and straighter cuts with minimal wastage. What's not to like?

In short, Dakin–Flathers Ripper^{S} is the most cost–effective way to get the maximum performance and production from a sawmill – guaranteed.

Here's how Ripper^{S} cuts out the competition...

Higher Performance – Precise, Faster & Straighter Cut

Razor Sharp Ground Teeth

Every single individual tooth of the Ripper^{S} is ground using computer–controlled machinery – this makes it infinitely superior to punched and sharpened or milled blades. That's because before it is even used, punching teeth applies unacceptable stress on the blade. The result? Shorter working life, erratic performance and the need to re–sharpen. You simply don't get that with Ripper^{S} blades.

Every tooth has the same perfect profile. We know because we employ a specially designed diamond–grinding process that offers unparalleled "out–of–the–box" performance. Yes, grinding teeth is a more time–consuming and exacting process – but the results are sharper, more reliable and durable blades.

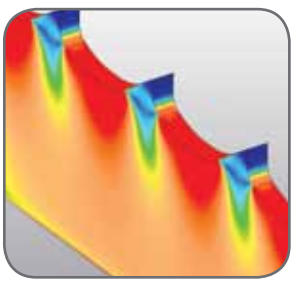


Fig.1 *(Punched)*

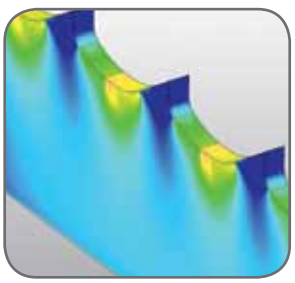


Fig.2 *(Ground)*

The 'finite model' (Fig.1 and Fig.2) highlights the result of cheaper punched blades versus quality ground teeth. Red, yellow and green areas in the body and gullet indicate high stresses, which lead to premature band breakage.

Fig.3 *(Punched Profile)*

Fig.4 *(Ground Profile)*

Ground blades have a clean smooth profile with virtually no stress raisers, while punched methods leave a rough surface and high stresses. Fig.3 and Fig.4 are magnified images of punched and ground tooth profiles. Note how the punched profile has a rounded tip leading to a dull tooth.

Straighter, Cleaner Cut with Less Waste

Computer-Controlled Teeth Setting

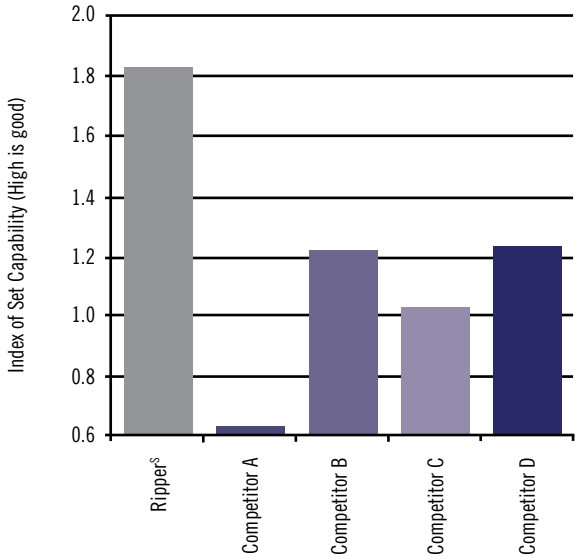
The more uniform a blade's teeth are set, the straighter, faster and more efficiently it cuts. Even smallest differences in the set will result in a wider, uneven cut – creating a rough finish, more waste and a less finished product.

Every Ripper^{S} blade is created using Dakin–Flathers' proprietary dual–contact action to create the optimum degree of set. Each blade then passes through a highly accurate digital photometric gauge that automatically checks for any misaligned teeth. It then undergoes more stringent testing including digital tooth profile checks, straightness testing, hardness testing and microstructural analysis.

Eager and ready, each blade works straight out of the box, with no further need for resetting before it can be used.

All that makes the Ripper^{S} cut fast and true – a true workhorse blade that can handle higher levels of feed pressure on a daily basis.

Set Consistency – Ripper^{S} vs. the Competition



Set Consistency Testing

To produce the ideal workhorse blade, the tooth set has to be optimised for a specific type of performance. Careful balance from one side to the other results in straighter cutting and the crucial kerf enables the blade to cut freely with minimal pressure. The Ripper^{S} harmonises all these factors to also increase yield and deliver a better surface finish.

Ripper^{S} underwent multiple tests against its nearest rivals. 4 metre lengths of competitors' blades were set at an industry standard gauge to measure the accuracy of the set at 10 random points along each blade.

Ripper^{S} made short work of all other blades, out–performing its rivals with the lowest deviation of any of the blades.

Increased Blade Performance

Induction Hardened Teeth

Ripper^{S} blades are made from high carbon content steel with optimum dispersion of carbide and every tooth is accurately hardened using induction technology. Induction hardening is the most effective method of delivering high performance hardened teeth.

Achieving optimum hardness is what differentiates Dakin–Flathers blades from the rest. Too soft and the blades will dull too quickly. Too hard and teeth are in danger of snapping off. Hitting this optimum hardness 'sweet–spot' creates a true workhorse of a blade that can be relied on 24/7.

Quality that delivers: Ripper^{S} is the no-nonsense high quality blade engineered to perform so consistently well on a daily basis, reducing production costs and increasing your profits

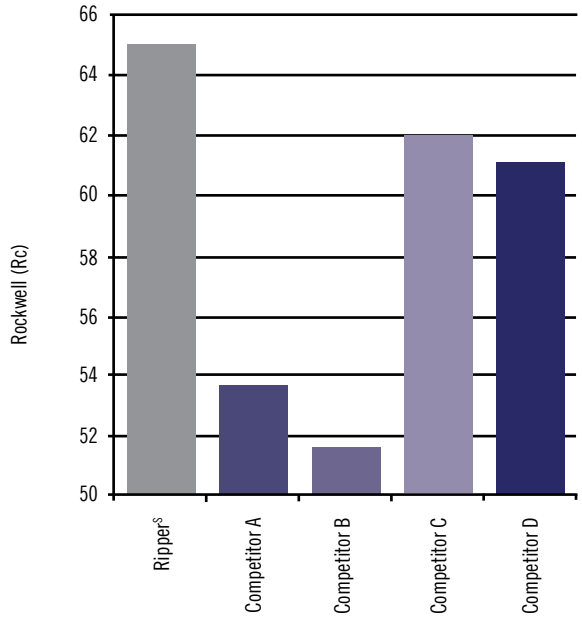
Hardness Analysis

Surely all manufacturers strive for the hardness sweet–spot? They do, but few achieve it.

Dakin–Flathers engineers are obsessed with hitting the optimum hardness, and they continue to consistently achieve this with each and every Ripper^{S} sawmill blade produced.

Appearances can be deceptive. Despite looking the same, we took four competitors' blades and carefully analyzed each one. Micro hardness testing of their teeth revealed their actual physical hardness, with surprising results. Two came close to getting it right, but only Ripper^{S} consistently hit the hardness sweet–spot time after time.

Hardness Analysis – Ripper^{S} vs. the Competition



Extended Blade Life

Extra Strong Welds

Ripper^{S} bandsaw blades can be supplied in coil format or pre–welded in any length band you or your customers demand.

Factory welding our blades ensures that every band is perfectly joined. A pyrometer also guarantees optimum hardening and annealing is achieved. This is what delivers the Dakin–Flathers super–strong and flexible weld.

Our Guarantee

Every Dakin–Flathers Ripper^{S} sawmill blade 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

When you demand the most dependable and economical primary processing woodcutting bandsaw blade, the Ripper^{S} sawmill blade is it, delivering...

- Unique "out–of–the–box" performance
- Minimal waste and maximum cutting power
- The perfect balance between strength and flexibility
- Reduced production costs and more profit for you and your company
- Improved quality of finish on the sawn timber

*Subject to fair usage

Dakin-Flathers Ltd, Boothroyds Way, Green Lane Industrial Estate, Featherstone, West Yorkshire, WF7 6RA, England
T +44 (0) 1977 705 600 F +44 (0) 1977 705 700 E sales@dakin-flathers.com W www.dakin-flathers.com