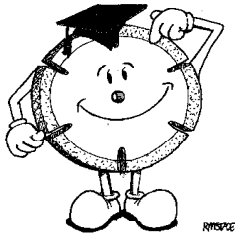
HYPER BLADES



DESIGN PHILOSOPHY

Decades of diamond saw blade use, by millions of users all over the world, has confirmed one vital fact. “There is no such thing as a really efficient general purpose blade for all materials, all machines, and all conditions”

Often requested, this elusive tool remains as rare as ever. Instead, diamond saw blade design engineers have discovered different ways of yielding maximum cutting rates and tool life, from custom developed blades for various operations. Machine horsepower and type, material composition, budget, speed of cut preferences, and many other factors are taken into account when configuring blades.

The amazing central component is man made diamond. Synthesised in modern factories, using secret production facilities, diamond is grown into crystals which can be consistent in shape, toughness and processing damage resistance. Each tooth a marvel of hardness, in it’s own right capable of cleaving the hardest concrete or stone.

Using these tiny power houses, High Performance Diamond Technology designs reflect decades of experience in New Zealand.

We aim to lower your costs through shared experience and teamwork.

Work with us.

“ORANGE GREMLIN“- 14TGPPC PAVING REPAIRS & GENERAL CONCRETE WORK

Choosing a blade for repair patches, potholes, and short lengths of asphalt and general concrete work concrete, for inexperienced operators, has been made easier with the introduction of the “OrangeGremlin“.

Until now aluminium oxide based abrasive cut off wheels have been used in high risk areas where theft, damage and neglect are the norm. The Health & Safety in Employment Act requires a high standard of safety to be planned for on the jobsite, especially when using hazardous tools like power cut-off saws. Easily broken abrasive wheels, though cheap, cut slowly creating a dusty environment for longer, are relatively fragile, are hard to cut straight lines with, will not cut at a constant depth and loose efficiencey rapidly. In short they are inappropriate blades for hazardous saws and expensive to use in any quantity.

Engineers reasoned that the greater productivity of diamond blades, and the “lower cost per metre cut” potential, could only be realised if the initial blade cost could be kept low, but, at the same time allow a very tough design to be evolved. “Orange Gremlin“ is the result of much testing out on the highway and in many different situations.

A flexible cutter for use on high speed cut off saws, permits a wide range of materials to be cut, without serious compromise to the life, or cutting rate of the blade. The need for coolant water, which can be a costly excercise to arrange, has been totally removed, although it’s use results in even longer life.

Essentially if a box of ten abrasive blades are being consumed every week or so it’s time to assess the risk and economy of doing so. “Orange Gremlin“ is about the same cost as only two boxes of ten abrasive blades. It cuts faster, and at near constant depth avoiding frequent blade changes.

The extremely tough design, made possible by high temperature laser welding, increases operator and bystander safety by a considerable margin.

“Orange Gremlin” is available in 350mm diameter with common bore sizes for Stihl, Partner, Husqvarna etc. power cut off saws.

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