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Miyachi Europe Offers Extensive Knowledge in Building Resistance Welding Systems for Saw Blade Applications

[Miyachi Europe](#), the leading supplier of laser and resistance welding systems and laser marking products, has produced saw blade systems successfully and repeatedly over the past years. Band saws are used to cut a wide range of materials – from stone to metal or from wood to increasingly exotic materials such as laminated or composite materials.

The requirements placed on the band saw are increasing. Saw blades get thinner and thinner to reduce waste. Cutting speeds increase to save time. The biggest challenge, however, is the treatment of asymmetric materials.

These products place a very high demand on the band saw due to the uneven mechanical stresses on the tip of the band saw. This tip is made of hard metal which is resistance welded upon the band saw. These tips are typically ball, cylinder or asymmetric shaped. After the resistance weld the tip can be grinded or heat treated before the band saw can be used. The connection of the hard metal tip to the band saw determines greatly the properties and lifetime of the band saw.

Welding of hard metal materials is very special. The material properties of hard metal are a challenge to weld reliably with a consistent strength and without micro cracks that can cause failures during the life time of the band saw. The complex shape of the hard metal tips requires controlling the weld process within tight limits to balance the heat buildup and cooling down process during welding.



Miyachi Europe offers a unique combination of over one hundred years of welding experiences with application research knowledge and engineering expertise in building systems. This enables Miyachi Europe to offer state of the art equipment to weld a wide variety of hard metal tips to band saws.

Miyachi Europe recently installed a laboratory weld station to develop new and better processes especially for welding hard metal tips to band saws. On this weld station existing and new customers can weld samples and allow customers to evaluate the feasibility of their applications under practical conditions with existing or new products from Miyachi Europe.

For more details on Miyachi Europe's competencies in systems please visit our website at <http://www.miyachieurope.com/products/system/>

About Miyachi Europe

Miyachi is the market leader in developing, building and servicing machines and components for laser welding, laser marking, resistance welding, hot bar and systems. Miyachi solutions are an integral part of the production process to connect, to join, to automate, to identify or to customise components in a very reliable and very sustainable fashion. Miyachi products are in use in a variety of modern high-tech application fields. These application fields are our areas of expertise to the benefit of our customers' and our vendors' future growth in Automotive, IT & Multimedia, Electronics/Solar Cells/Batteries, Medical, Aerospace, and Defence. www.miyachieurope.com.