

Ultrasonic Welding: The Revolution for a Greener Future

PLASTIC WELDING

METAL WELDING

CUTTING

CLEANING

SIEVING

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In the halls of Telsonic AG, a pioneer in ultrasonic technology, waves of change are in motion. Here, deep in the heart of Switzerland, a groundbreaking technology is being developed that not only revolutionizes the industrial world but also our environment.

The Revolution Begins: Ultrasonic Welding

Ultrasonic welding, an innovation from Telsonic, has forever changed the world of materials joining. Instead of relying on adhesives or solvents, this technology uses mechanical vibrations and ultrasonic waves to weld materials together. But what makes this technique so exciting and revolutionary?

Energy Efficiency: A Quantum Leap

The energy efficiency of ultrasonic welding is a true quantum leap. Compared to conventional welding methods like hot air or laser welding, this technology requires less energy. A significant portion of the energy used is directly converted into vibrations, drastically reducing energy consumption. The result? Not only a reduction in CO2 emissions but also significant cost savings for companies.



LOWER
OPERATING
COSTS



LONGEST
PRODUCTION
CYCLE



IMPROVED
SUSTAINABILITY



HIGHEST
PERFORMANCE

Environmental Protection and Health

With ultrasonic welding, we combat toxic emissions. The absence of adhesives or chemical solvents minimizes harmful effects on the environment. This technology protects not only our nature but also the health of workers and the general population.

Sustainability and Recycling

Ultrasonically welded products are champions of recycling. Since no harmful residues are produced, materials can be efficiently reused after the product's lifecycle. This not only reduces the amount of waste but also decreases the need for new materials.

Saving Time and Resources

Ultrasonic welding is a turbo process that allows for high production rates. It is more precise than traditional adhesive techniques, resulting in less waste and lower material consumption.

Versatility in Application

Ultrasonic welding knows no bounds. It can be applied to a wide range of materials, from plastics to textiles to metals and food packaging. This versatility allows the technology to be used in various industries to promote sustainable solutions.

The Power of Collaboration

The combination of technology and innovation is the key to a greener future. Prominent companies, for example from the food industry, rely on partnerships to deliver food and beverages safely, sustainably, and affordably to consumers around the world.



