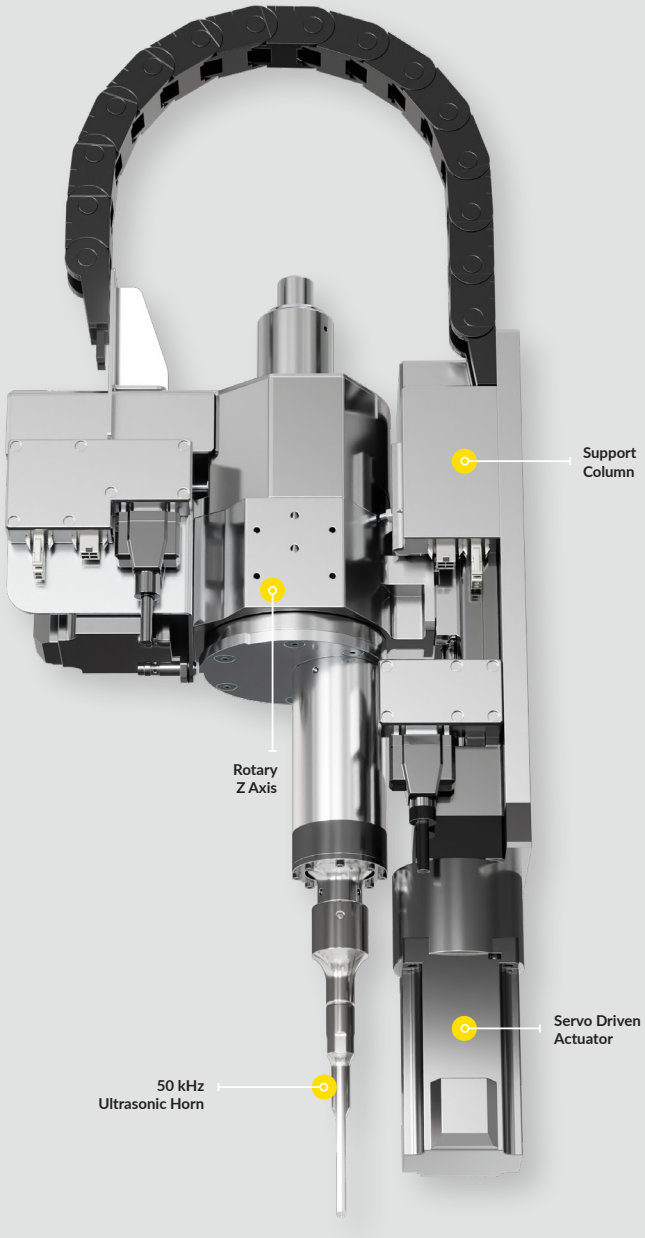
DISCOVER DUKANE'S PATENTED

THIN-WALL (2.2-2.7 MM) ULTRASONIC WELDING TECHNOLOGY

Welcome to the forefront of ultrasonic welding innovation! **DUKANE** proudly presents our patented Ultrasonic Welding technology for assembling parts on painted walls. Use this technology to effortlessly weld your **car radars onto 2.2mm painted walls** or other components onto walls with thicknesses ranging from **2.0mm to 2.7mm**, guaranteeing no read, visible marks, or signs are left behind on the painted surface.



WHAT IS THIN WALL WELDING USING ULTRASONIC TECHNOLOGY?

At Dukane, we specialize in ultrasonic welding solutions that excel in joining PDC brackets, masks, or stiffeners onto a range of automotive components such as bumpers, wheel arches, spoilers, and rockers with unparalleled precision and strength and without any read or mark on the painted surface. Our 50 kHz technology, coupled with a servo actuator, delivers optimal results ensuring seamless integration and exceptional performance.

NO READ OR MARKING

Extensive testing on various painted bumper thicknesses confirms zero marking, even with sensor holes or thicker paint layers.

EXCEPTIONALLY STRONG WELDS

Our welds exhibit impressive strength, with PDC connections enduring pull-out forces of up to 350N.

PAINT COMPATIBILITY

Our technology seamlessly welds painted surfaces, eliminating concerns about inner bumper paint affecting the welding process.

RELIABILITY

With years of successful implementation in production environments, our technology boasts unmatched reliability.

INTEGRATION FLEXIBILITY

Whether integrated into existing assembly lines or deployed in standalone machines, our technology offers easy integration.

EXPLORE THE FUTURE OF ULTRASONIC BONDING.

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KEY TECHNICAL FEATURES

+ **Utilizes a High Gain full wave or 1.5 wave horn with iQ Auto-Plus Ultrasonic Generator and 600W probe for optimal weld strength and precision.**
+ **Patented Trigger by Power technology ensures controlled speed throughout the weld, reducing the risk of surface imperfections.**
+ **Collapse distance is strategically smaller than the part's thickness, guaranteeing a seamless finish.**
+ **Complete servo module options (rotary linear servo or linear servo) available for streamlined integration into manufacturing processes.**

APPLICATIONS AND MATERIALS

Our Thin Wall Welding technology is primarily employed in automotive applications, particularly for welding PP to PP TD25 painted parts.

Common applications include

+ **Bumpers**
+ **Spoilers**
+ **Rocker Panels**
+ **Wheel Arches**

COMMON APPLICATIONS

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