



Gullco Highlights KAT® Automatic Girth Welding Solutions

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Gullco Limited announced the availability of its KAT® automatic welding system product line for pipeline girth welding operations. The mechanized welding equipment is designed for pipe-to-pipe joint applications across the energy, construction, and industrial sectors.

Gullco offers a comprehensive line of KAT® automatic welding systems designed to address the demanding requirements of pipeline girth welding operations across the energy, construction, and industrial sectors. The KAT® product line provides pipeline contractors and welding professionals with mechanized solutions engineered to deliver consistent weld quality on pipe-to-pipe joints in a range of field and shop environments.

The KAT® system is a track-mounted automatic welding carriage that travels circumferentially around the pipe, enabling precise and repeatable arc travel speed throughout the girth weld process. This mechanized approach reduces the variability associated with manual welding techniques and supports operators in maintaining stable heat input and bead geometry across the full circumference of the joint.

Gullco pipeline girth welding equipment is compatible with a variety of welding processes, including gas metal

arc welding and flux-cored arc welding, giving operators flexibility to match the system to their preferred consumables and procedure qualifications. The KAT® carriage accepts standard welding torches and is designed to integrate with existing power sources, minimizing capital investment while upgrading from manual to mechanized execution.

"Pipeline girth welding from Gullco is built around the idea that consistency in travel speed and torch positioning is one of the most impactful variables a welding team can control," said Jeff Zook, Director at Gullco. "The KAT® line addresses that directly by removing hand-travel variation from the equation and putting repeatable mechanical motion behind each pass."

Weld quality is a central concern in pipeline construction, where girth welds are subject to nondestructive examination and must meet rigorous code requirements. Mechanized welding systems such as the KAT® are widely used as a means of achieving the dimensional consistency and fusion characteristics required by applicable standards. By stabilizing arc travel speed and torch angle, automatic welding carriages reduce the likelihood of defects such as undercut, overlap, and inconsistent penetration.

Gullco also provides the KAT® weld oscillation head accessory, which can be integrated with the KAT® system to add controlled side-to-side torch movement during welding. Oscillation is particularly useful for fill and cap passes where wider bead profiles are required to achieve adequate sidewall fusion and surface appearance. The oscillation amplitude and frequency are adjustable to suit specific procedure requirements.

"Our customers in the pipeline sector are working under demanding inspection regimes, and they need equipment that performs reliably in field conditions," said Zook. "The KAT® system is designed to hold its settings across a full circumferential weld, so the operator can trust that what was set up at the six-o'clock position is still in effect at the twelve-o'clock position."

The KAT® product line also reflects Gullco's broader focus on automatic welding solutions for industrial applications. The company has developed mechanized welding equipment used in structural fabrication, pressure vessel construction, and other sectors where weld quality and throughput are operational priorities. The pipeline-specific configurations of the KAT® system incorporate features informed by the particular challenges of field girth welding, including rugged construction suited to outdoor job sites and simplified setup procedures that reduce downtime between joints.

Training and support resources are available to help welding teams integrate the KAT® system into established procedures. Understanding the interaction between carriage settings, welding parameters, and joint preparation is essential to achieving the full quality benefit of mechanized execution. Gullco provides documentation and technical assistance to support operators in developing and qualifying procedures around the equipment.

Pipeline contractors and welding engineers seeking to learn more about the KAT® automatic girth welding carriage and related accessories can visit Gullco's website for detailed product specifications, compatibility information, and application guidance.

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Gullco International

Gullco International is a leading manufacturer and world supplier of welding automation, with over 70 years in business, available in 80 countries worldwide.

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