

KAWASAKI HEAVY INDUSTRIES, LTD.

TECHNOLOGY

In industrial automation technologies, Kawasaki introduced Friction Spot Joining (FSJ), the revolutionary aluminum joining method. A cylindrical “gun” with a small projection at the top rotates and plunges into the material, generating frictional heat and creating a metallurgical bond between the upper and lower plates. It guarantees same level of strength as ordinary resistance spot welding, but it requires only 1/20 of electricity. This technology contributes both facilities’ costs and running costs of manufacturing and also contributes to the environment.



COMPETITIVE ADVANTAGE

Kawasaki performs superior energy efficiency in gas engine products. The gas engine uses gaseous, rather than liquid fuel. Kawasaki’s Green Gas Engine has achieved the world’s highest level electrical efficiency of 48.5% through individual control of its each cylinder and optimized shape of the combustion chambers. And combining with steam and high and low temp-water generated through its power generation process, it achieves total sum of 85.3% energy efficiency.

RECORD OF SUCCESS

Since we are entering the low-carbon era, the demand for rail cars are arising as an ecological transportation system. Kawasaki has great success in rolling stock manufacturing. Kawasaki is the largest manufacturer of rolling stocks in Japan and developed many monumental products in the rail way history. Kawasaki’s excellent know-how is crucial for development and design of very high speed train “efSET” (Environmentally Friendly Super Express Train) for overseas project.

OPPORTUNITIES FOR PARTNERS

Kawasaki Heavy Industries Group is consists of broad varieties of industrial manufacturing and Kawasaki has many subsidiaries in the U.S.A. So Kawasaki believes you can find all the products, technologies, and services that meets your requests and businesses.

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