

Woojin Engineering Co. Ltd. – Corporate Profile Whitepaper

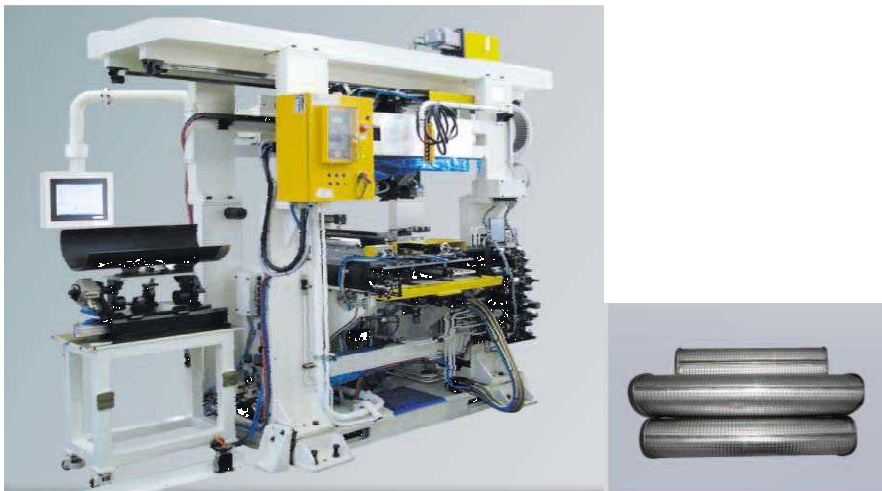
Manufacturer of Machines for Automotive Parts Manufacturing

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Woojin Offering | Woojin Engineering provides innovative automation systems, machine tools, fixtures and testing devices for automotive exhaust system and chassis component manufacturers. Based in South Korea, our design and manufacturing base provides complete customer solutions from concept development through after-sales service, as well as training, maintenance, and re-tooling. We protect our customers' investment by offering full support throughout the entire equipment service life.

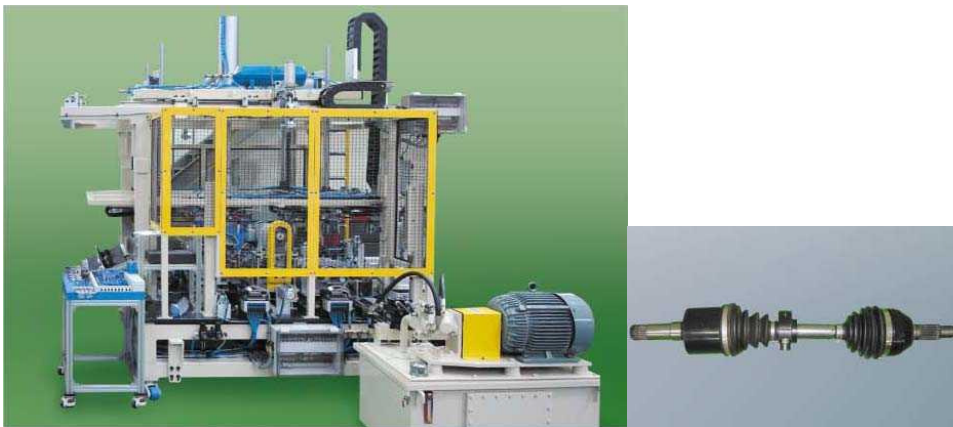
Expertise | After nearly two decades of success Woojin has the experience of supplying a wide variety of solutions for our Tier 1 and Tier 2 automotive and heavy vehicle customers. In the areas of **automotive exhaust system manufacture**, we have supplied lines for **automated catalytic converter stuffing; muffler jacket forming and seaming and complete robotic exhaust system welding** for both **mild and stainless steel products**. In the area of **automotive chassis assemblies**, we have supplied systems as diverse as complete front and rear **automotive suspension assembly lines; automotive air conditioning EVA Stacking lines**; vibratory bowl fed synchronous steering column assembly lines with container palletizing systems; and drive axle final inspection systems. Our heritage in factory automation enables seamless integration with other manufacturer's machines, and helps our customers address the trend of increased variety and lower production volumes in today's shorter automotive program life cycles.



Roll & Seam Welding Machine



Front Suspension Assembly Line



Driving Axle Final Inspection Machine

Product | Woojin is a leader in providing production equipment for today's state of the art manufacturing environment. The professionals we employ collaborate with you, our customer, to develop the most suitable product for your application. Whether the process is manual or fully automated, robotic or hard tooled – we ensure our clients return on investment goals are met. Tooling, end-effectors, and programming are modularized for quick changeovers, and often automated to minimize downtime. All machines are designed, built and certified to the customer's local health and safety, environmental, and electrical regulations. All components, build standards, documentation, and drawings are supplied in accordance to customer specification to realize the minimum possible service and maintenance downtime.

Track Record | World-class, long standing repeat South Korean customers such as Sejong Industrial Co., Dongwon Precision, Korean Delphi Automotive Systems demonstrate our quality, reliability and service commitment to ensure our customers' success. Many machine tools and automation systems built early in our company history have been retrofitted with updated technology and are still in service today. More recent international customers such as Tenneco Walker, EMCON Technologies (formerly ArvinMeritor), and Faurecia demonstrate the value and innovation we can deliver to meet evolving automotive technologies.

Continuous Innovation | Our goal is to provide the best possible quality equipment and service at a competitive price. Therefore we take a painstaking approach in understanding our customers' requirements. In order to deliver the best value for our customers we think through their current and future needs, invest heavily in research and development and advanced engineering technology to find optimum manufacturing process solutions. This approach yielded a culture of continuous innovation, cost-effective manufacturing practices for our clients, as well as numerous patents and industry firsts which all help to better serve our clients.

The Woojin Advantage | Our comparative labour advantage makes us one of the most cost competitive suppliers in the world, therefore customers benefit from favourable acquisition costs. Our innovative design and manufacturing methods enable us to provide lead times that are competitive with – and many times better than -- North American suppliers. Our manufacturing thought leadership results in superior processes. Examples of our technical innovations include the world's first roll and seam welding (resistance) production method we developed for muffler jackets, and a special, fully automated steering column assembly line.



Steering Column Assembly Line

Our Past, Present and Future | Since 1989 Woojin's highly skilled team have demonstrated excellence in engineering and manufacture of machine tool and automation projects. From our modest beginnings providing automation equipment we have built a reputation for offering innovative customer solutions in the automotive industry. Our core expertise resides with a growing team of over 60 seasoned design and development employees, each with an average of ten years experience within our firm. They have played a key role in our ISO9001 and ISO14001 certification. Our management expertise and strong capitalization enables our long-term commitment to supply, service, and support our customers. Our 22,000 sq. ft. facility consists of state of the art machinery, bolstered by a strong network of subcontract specialty suppliers which increases our effective manufacturing capacity seven-fold. Our development of a responsive North American service network, and sales presence shows our commitment to customers in Canada, U.S.A. and Mexico.

Business Partners | We would be pleased to demonstrate our capabilities to your organization and arrange a meeting in person. Please contact LPR Global, our North American business development partner, for additional information and to make any necessary arrangements.

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