HYPREX: Japan's Leading High-Pressure Technology and Plastic-Fabrication Technology Supplier

Mr. Tomohiro Yamamoto, President, HYPREX

Tube hydroforming is itself a unique technology used mostly in the automotive sector. With very few competitors in the world, HYPREX is one of the leading brands of high-pressure technology and plastic fabrication technology. Having a dedicated team of 60 employees, the company specializes in a diverse range of products and services like pressure testers, pipe benders, and high-water pressure generators in Japan and overseas. In a recent interaction with Tube & Pipe India, ***Mr. Tomohiro Yamamoto, President, HYPREX*** *spoke about the company's journey, recent or upcoming developments, product portfolio, and plans for the future specific to the Indian market.*

Tube & Pipe India: *Please tell us about HYPREX and its history.*

Tomohiro Yamamoto: Since our establishment in 1930, we have been providing various types of equipment such as pressure testers, pipe benders, and high-water pressure generators using oil

and water pressure to diverse industries in Japan and overseas. We provide one-of-a-kind, tailor-made solutions to customers' issues and needs, utilizing the technology and know-how that we have accumulated over the past 90 years. Since 1954, we have delivered more than 240 units of steel pipe water hydraulic pressure testers to countries around the world. In 1962, we delivered Japan's first T-joint forming machine by bulge forming, and in 1970, a flexible forming machine. We are

meeting the needs of our customers with our environmentally friendly technology utilizing high water pressure under the brand name HYPREX.

***TPI:** Kindly shed some light on your product portfolio.*

TY: Our company, powered by a dedicated team of 60 employees, specializes in a diverse range of products and services. Our main product offerings include hydroforming, pipe bending machines upto a diameter of 406.4 mm, pipe swagging machines, and pipe hydro testing machines for diameters up to 80mm. Additionally, we excel in E.G. coupling pipe joint pressure leakage testing and gas leakage test equipment. A notable product is our patented OCTG pipes collapse tester, designed to withstand combined external pressure and axial load or twist. Furthermore, we offer customized solutions such as automatic pipe prefabrication lines encompassing marking, cutting, bevelling, and bending processes. These capabilities underscore our commitment to delivering high-quality solutions tailored to the specific needs of our customers.

***TPI:** Please cast light on industries served and major clientele.*

TY: With a global presence that spans across various countries, we have established operations in the United States, Russia, Korea, China, Taiwan, Thailand, Singapore, India, Iran, Poland, Czech Republic, Hungary, Great Britain, Norway, Australia, Brazil, Argentina, Mexico, and Saudi Arabia. Our products serve a wide range of industries, including the steel industry, automobile manufacturing, shipbuilding, aircraft production, railways, electric power generation, gas and water supply, air conditioning, sanitary facilities, and tobacco. Additionally, our products are also utilized in numerous laboratories and universities.

Some of our major clients include Nippon Steel & Sumitomo Metal Corporation, JFE Steel Corporation, Mitsubishi Materials, Sumitomo Light Metal Industries, Toyota Motor, Nissan Motor, Honda Motor, Mitsubishi Heavy Industries, Kawasaki Heavy Industries, Universal Shipbuilding, ANA, JAL, Japan Railways, Tobu Railway, Tokyo Electric Power, Osaka Gas, Mitsubishi Electric, Panasonic, JAPAN TOBACCO INC, National Agriculture and Food Research Organization, The High-Pressure Gas Safety Institute of Japan, University of Tokyo, Kyushu University, and Nagoya University.

***TPI:** What is your USP? Could you tell us about your global footprint?*

TY: Under the brand name HYPREX and with the concept of high-water pressure technology, we have two keywords: High-pressure generation technology and sealing technology.

The first is static which includes pressure testers and high-pressure capsules. The second is dynamic which includes hydroforming, a plastic-forming process. We respond to each customer's issues and needs with custom-made products, making full use of the technology and know-how we have accumulated over the years.

***TPI:** Could you tell us about recent & noteworthy projects accomplished by your company— specific to tube & pipe companies?*

TY: Firstly, we have made significant strides in the field of high-temperature external pressure testing equipment. This equipment creates an environment under high temperature and high pressure to test the strength of target workpieces. Secondly, our pioneering liquid-filled bending technology has evolved to new heights, allowing for intricate three-dimensional bending while maintaining a sealed water pressure inside pipes.

***TPI:** Do you undertake R&D at your company? How do you maintain the quality of your offerings?*

TY: To address special issues raised by the customers, we initiate a project to develop the necessary equipment. After that, we conduct verification using a demo machine and manufacture the equipment on the actual machine. According to the verification results, the quality is stabilized.

***TPI:** What are your vision and plans for your company's future? Do you have any specific plans for the Indian market?*

TY: We are paying attention to the Indian market, which continues to grow, and we would like to expand our sales market by participating in trade fairs and other events to make our company better known.