

Habonim – Building Stre



CEO Mr. Eliad Katz laying the cornerstone of the new Habonim house

Since the 1960s, Habonim has worked together with their customers to formulate precise solutions to challenging problems in a wide range of industries. Considered a pioneer in the industry, Habonim has made a name for itself by showing continual willingness to search for and develop specific solutions to difficult and complex applications. Founded as a foundry in 1949, the Israel-based company began putting its moulding and casting experience into manufacturing ball valves in the 1970s. In the 1980s, Habonim released its first patented four piston actuator, the COMPACT™, and continued to thrive as a private label manufacturer. At the beginning of the new millennium, Habonim began promoting products under the Habonim brand name and set up an American presence with the establishment of Habonim USA in New Jersey in 2008.

Valve World Americas had the opportunity to speak with President of Habonim USA, Yossi Dotan and VP Engineering and R&D, Gaby Jaccoby to discuss the company's efforts at always remaining on the forefront of innovation, providing their customers with technologically advanced custom solutions and acting as a dependable, world-class partner and solution provider.

By Sarah Bradley



Yossi Dotan



Gaby Jaccoby

turing, through assembly and delivery. The company supplies a wide range of 3-piece and flanged ball valves, as well as tailor-made solutions, generating significant cost and space savings for its customers.



"One of the key features of the company is that Habonim does valves and actuators in the same plants with the same technology and ensuring that the same high level of expertise is going into the full product assembly," said Yossi.

"Habonim is a one-stop-shop. You can approach Habonim and get the full package of valve, actuator and ancillary equipment all built and calibrated without the headache of getting bits and pieces and building it yourself. You are able to get everything under one roof at top quality," continued Gaby.

One of Habonim's famous products is the COMPACT™ Actuator. The COMPACT™ is a 4 piston, quarter turn, rack & pinion, pneumatic actuator. The design is superior than single or double piston pneumatic actuator designs - the four pistons generate torque around a centrally located pinion, thereby giving more than double the torque achieved by these other designs. The increased number of pistons in the actuator allows their diameter to be reduced while

Having met critical flow control needs for over 50 years, Habonim has earned an international reputation for developing and manufacturing high quality ball valves, pneumatic actuators and ancillary equipment. The company's dedication has led Habonim to innovations that have improved productivity, Health and Safety and generated significant cost savings for their customers all around the world.

"Habonim is focused on providing high end ball valves with a lot of know-how behind the design. The U.S. market is a

mature market that really appreciates the high quality and technologically advanced product that Habonim has to offer," explained Yossi Dotan. "Establishing the company in the United States allows us to be close to the markets and to have our product close to the client in order to provide exceptional delivery time and have the knowledge available to our clients."

Habonim products can be found in diversified industrial applications across the globe. The products meet international standards and are engineered to work safely and

efficiently with a variety of materials in the following industries: Pharmaceutical, Biotech, Cosmetics, Food & Beverage, Semiconductors, Petrochemicals, Chemicals, Fine Chemicals, Oil and Gas Refineries, Offshore Drilling, Power, Mining, Pulp & Paper.

PRIME PRODUCTS – Dedicated Solutions for the industry

Habonim is dedicated to providing high-quality products from design to manufac-

Strength Through Innovation



LNG DEDICATED SOLUTIONS

The LNG industry is continuing to grow and thrive and as the process involves handling rough, unrefined materials in harsh conditions while adhering to strict safety and quality requirements, Habonim produced valves that provide high quality, durable and reliable solutions to the challenges inherent in LNG processing. From coping with contaminants and high pressure during extraction of the raw gas from deep beneath the earth's surface, to converting gas at extreme temperatures, Habonim has designed valve solutions for all aspects of the process. In extraction, Habonim Metal seated valves can withstand the high pressure of the phase and remain unaffected by the abrasive content of the raw materials, even at high process pressures and are specially designed to handle the cleaning of the raw material and the filtering of unwanted gases and compounds prior to liquefaction.

"Habonim is focused heavily on the energy segments at the moment, in O&G and the LNG market which is really starting to boom here. We know the product very well and we know the technology inside and out. We are able to modify our existing product designs and adapt it to a different application," said Gaby. "We are flexible in product and flexible in mind which allows us to modify quickly from one industry to another."

Habonim Cryogenic Valves are designed to endure the cooling and condensing process involved in turning natural gas into liquid form and most importantly, to ensure that the consistency and combustion characteristics of the material are not jeopardized. The Cryogenic Valves are used when transferring LNG from storage containers at liquefaction plants to tankers for transport by sea or land, ensuring that the LNG maintains the desired cryogenic temperature of approximately -196°C (-320°F) and are also used at the LNG import terminal to transfer LNG to special storage tanks prior to regasification. Habonim's fire-safe valves are critical during the regasification phase when the LNG is heated to convert it into the desired gaseous form for commercial distribution.

"Habonim realized several years ago that there would be a new demand in the energy market and we redeveloped, redesigned and applied several major changes into a new cryogenic line. I think it would be fair to say that Habonim is the most advanced cryogenic valve company in the world," Yossi said. "We have a great inventory in Israel, we carry the line in the States and we have a lot of different solutions for different applications around the energy market."

INVESTING IN INNOVATION

In industries where performance, quality and reliability are essential, Habonim valves and actuators are a secure choice. Each valve and actuator is manufactured to strict technical specifications and are 100% inspected before leaving the factory, guaranteeing the high quality

standards that have become synonymous with Habonim products. Habonim is committed to the highest degree of quality control with modern production facilities that are ISO 9001:2008 approved, and products which are in full compliance with ANSI/ASME B16.34-2013 as well as API6D, CE-PED and ATEX compliant.

"We see ourselves as a leader in the industry – we have established four patents in the past few years and as a company, we invest a lot of money into research, design and engineering. We have a very large R&D department in our factory and that commitment to technology is how we have succeeded to stay at the forefront of the process industry," explained Yossi.

"It is a conservative market and normally the same technology exists for 20 or 30 years unchanged. Habonim challenges many aspects in the market and we try to evolve with the industry to add more value for our clients," Gaby added.

Habonim's expertise in valve design means that the company can supply not only standard valves and actuators, but also complex, and diverse custom-designed package solutions. With continuing enhancement of current valve designs, together with the development of new products, Habonim offers the highest degree of sophisticated products that meet customer requirements.

"I think all of our success is based on educating the customers on what we can offer and show them how we separate ourselves from everyone else in the industry - technology is the key factor for our success," revealed Yossi.

Habonim's in-house R&D department has demonstrated its ability to develop creative, practical solutions using ball valve technology. Their R&D department brings together a unique combination: flexibility and a problem-solving perspective. Constantly seeking out ways to use its know-how, technology and resources in developing original solutions, Habonim's R&D team readily undertakes challenging tasks involving minimizing fugitive emissions, products space and weight limitation, energy usage, or operational speed restrictions.



ADVANCED DESIGN AND FLEXIBILITY

Known globally for its high quality product offering, innovation and engineering expertise, Habonim offers the industry's best customized services. When no commercial product can satisfy a client's needs, Habonim steps in to design and manufacture custom valve assemblies for unique one-off applications or whole system solutions. Precision engineered to exacting tolerances, Habonim creates high quality custom valves, manifolds and special solutions, to meet the most stringent demands of high-pressure, corrosive and high temperature applications, within a wide range of sizes and materials with proven reliability. Habonim is able to design and engineer to the highest standards using state-of-the-art equipment to create unique product solutions.

"We have a really wide variety of products, services and solutions and one of the advantages of working with Habonim is that we are able to use our engineering force and have the engineering force available to our customers," Yossi said. "The ability to bring the engineering capabilities all the way to the field, directly to the customer and know their needs – understand the problem and the complexity of the applications and supply a solution directly to the customers need – is a reflection of the strengths of the company. Our strength is being a technologically-driven, innovative company."

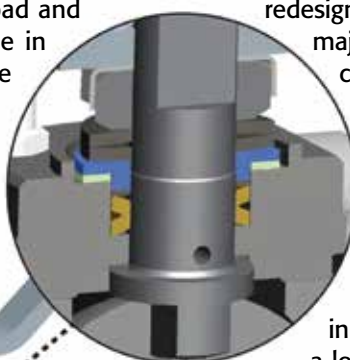
Recently, Habonim has been experiencing substantial growth, including the formation of new daughter company, Habonim Australia based in Melbourne which serves the oil & gas and LNG markets closely. The company has also expanded with a 24% increase in the number of employees in the last three years, expanding their engineering force with R&D and application departments and investing in four new CNC machines in the past two years. By the end of 2014, the company will begin work to increase their facility to 4000-square-meters for offices, assembly rooms and warehouse space to continue to support their ever-growing customer base into the future.

maintaining its high torque. This also allows the overall size of the actuator to be reduced which makes the COMPACT™ not only efficient in terms of air consumption per stroke, but also it is the fastest pneumatic actuator in the market.

Eliminating product emissions is one of the most serious challenges for the process industry and consequently can be most costly to control. As part of its Health and Safety initiative campaign, Habonim has introduced additional security to the valve stem design, for critical applications.

Habonim has introduced the patent, HermetiX™ valve stem seal to aid in the industry's ongoing efforts to prevent fugitive emissions and preserve the environment. Based on the HermetiX™ stem seal technology, the new Habonim valves meet the strict ISO 15848-1** standard for fugitive emissions. Named after its distinctive X-shaped design, the patent HermetiX™ seal is designed to eliminate stem leakage. Even as fluid pressure or side load increases, the HermetiX™ seal dynamically adjusts to prevent fugitive emission.

"Habonim engineering stays close to the industry and listen to customer needs, we continue to meet the challenges we are facing with in the industry," said Gaby. "Habonim developed a non-graphite, fire safe certified stem seal, a breakthrough in valve technology used in hazardous area. The new stem seal endures load and maintain its integrity over time in much higher capacity compare with a traditional graphite stem seal. Eliminating the graphite material from the trim components allows also the use of FDA approved materials to be part of a fire safe trim design."



Design Patent No. D598,988

