

# Crane India – Serving our Customers has a profound impact on the local communities and economy

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By Crane ChemPharma & Energy, a business of Crane Co.



Crane's new facility in Satara

Crane ChemPharma & Energy is a business within the \$3.3B industrial manufacturing company Crane Co. which has interests in aerospace, electronics, payment and merchandising technologies and fluid handling. As a leading provider of integrated fluid handling solutions, Crane ChemPharma & Energy provides a comprehensive portfolio of valves, pipes, fittings, pumps and actuators across 21 trusted brands, some of which date back to the 1850s. Over the years, the Crane name has become synonymous with quality, reliability and trust, and its global footprint has expanded to include manufacturing plants on four continents and a host of sales centers located around the world. However, one regional business unit that has made significant strides not only from a growth standpoint but in the community, as well, is Crane India.

## Decades of Local Presence

With regional sales offices in Mumbai, Delhi and Baroda, and manufacturing facilities in Satara and Trichy, Crane has established a strong foothold in India that dates all the way back to 1982 when Crane's Xomox® brand entered into a

joint venture with the Sanmar Group. The success of that venture led to other local Crane initiatives, and shortly after entering the market Crane India was formed, enabling the company to offer a diverse business representation of localized and custom solutions across the fluid handling, aerospace, electronics and merchandising industries. However, it wasn't until 1991 that Crane Fluid Handling inaugurated its first manufacturing plant in Satara for the production of the Saunders® Diaphragm Valve. Since then, Crane has established several operational facilities in the area that each play a substantial role in supporting Crane's diverse global businesses. Crane's India Design Center (IDC), for example, is a key innovation driver within the company where the development of conceptual and functional prototypes is managed. Since its inception in 2006, the IDC has grown consistently, becoming an integral part of Crane's global engineering and new product development efforts. With more than 100 engineers proficient in design and analysis tools, the IDC is poised to grow within and beyond the Crane businesses it supports. Another example is Crane Co. India Sourcing (CCIS) facility. Founded in 2008, the



Mr. Jinaga, President of Crane India, presents the mockup of the Maher Home for Disadvantaged Children.

CCIS offers Crane sites around the world a wide range of sourcing services.

## Solutions & Innovations

Today, Crane India's factories produce several key fluid handling products including the Saunders® pharmaceutical product range of forged and bio-block valves, Saunders® Industrial Diaphragm Valves (IDV), Center Line® RS butterfly valves, the Flowseal® range of high performance butterfly valves, and the Duo Chek® range of engineered check valves. In the last four years alone, Crane has heavily invested in India in new product development and the expansion of manufacturing operations. Over the last two years, Crane inaugurated two world class manufacturing sites in Satara allowing the company to enhance its service offering in India while strengthening its commitment to local manufacturing and support. These new facilities feature state of the art machines and software, as well as world-class fabrication and plastic lining cells. Some of the new features and capabilities include:

- **State of the art Machining** area with Mazak equipment - 5 axis Vertical Milling Centre to machine complex D-ports and weir forms

and Quick CNC Turning centre to machine integral Tri-clamp and Butt weld ends. Solid Cam software installed to cut down on programming time of complex shapes.

- A new **Inspection Station** where surface roughness and part dimensions can be measured, and visual inspections can be completed using videoscapy.
- An internal **Fabrication Cell** for block valves that holds tube cutting and facing operations, as well as tube welding using orbital and manual TIG welding.
- **Washing & Laser Marking Cells** for better cleaning capabilities and permanent serial valve marking for lifelong traceability of every valve.
- Separate **Assembly Cells** for 2-way valve assembly and block valve assembly for a controlled atmosphere during production that has also reduced two-way cycle time by 40%.
- **Foam Packing Cell** with advanced machinery to ensure consistent and quality packing and eliminate transit damage to the product.
- **Material Replenishment System** for improved parts inventory management which has resulted in reduced lead times for all aseptic valve products.



Crane's new Indian facilities feature Mazak machining equipment, among many other state of the art machines and software.



In addition to that facility, in May of 2018, Crane inaugurated an aseptic diaphragm valve factory and in June of 2019 the Crane Saunders Polymer Facility was constructed to increase the company's polymer expertise and manufacturing capabilities for its plastic-lined valves. Its features include:

- New **high-tonnage plastic injection molding machines** which enable in-house production of Polypropylene, ETFE, PVDF and PFA diaphragm valves for corrosive applications.
- New in-house **rubber-lining injection molding machines** that produce Natural rubber, Butyl, Neoprene and Ebonite for corrosive and abrasive applications.
- Enhanced ancillary **mixing and extrusion capabilities** contribute to **quality, consistency and reliability** for all sizes and materials.

Crane introduced several new products through its Satara plant in the last 3 years, one of the newest being the Saunders®P345,

a modular polymer pneumatic actuator developed to provide superior performance in Bioprocess applications. Innovations like these have enhanced Crane's vast portfolio of differentiated technologies and, combined with the company's global reach and financial stability, facilitate and support the continued development of Crane India.

### Corporate Citizenship

With the seemingly ever-growing local presence of Crane India, the company has made it a priority to not only invest in its business interests on a local level, but to also invest in the local communities in which it operates. At Crane, this concept of corporate citizenship—where companies take responsibility not only for profits but also for the impact of their activities on the many different stakeholders with which it interacts—is a foundational principle its employees continue to live by today.

Building on the philanthropic nature of Crane Co. founder Richard Teller Crane, the company has maintained a powerful history of supporting independent charitable programs which provide assistance to Crane employees and their families, as well as educational institutions and various worldwide relief efforts.

In India specifically, Crane partnered with local NGO Maher in 2018 to completely fund the construction of the Maher (which means Mother's Home) Home for Disadvantaged Children. This hostel houses 50 impoverished children who are cared for by trained Maher volunteers. At the ground-breaking ceremony, Crane also presented donations to the Satara Rehabilitation Charitable Trust, and the Lila Poonawala Foundation, an educational trust in India that supports academically outstanding and financially deserving girls through scholarship to pursue higher education. Crane has completely sponsored

the engineering educations of many girls through the Lila Poonawala Foundation. The Maher Home was inaugurated on June 28th, 2019 in Satara in the presence of Crane India business partners, key customers, suppliers, distributors and Crane India associates.

Crane Fund donations totaling \$400K have been made to eight NGOs since 2017, including one that supported the Maharashtra, Gujrat and Kerala floods. Crane India also has a policy of encouraging its associates to support local charitable organizations and initiatives, and they can volunteer up to four hours every year of company paid time.

### Positioned for continued growth and success

Crane India has positioned itself as an influencer in the country through the contributions and investments, both corporate and social, it has made over the past 30 years. Its movements in India not only support its growing, global infrastructure and organizational goals, but its local presence is having a profound and positive impact on the local community and economy, no doubt a testament to Crane's global strategic initiatives.



Inside the Crane Saunders Polymer Facility.

#### Saunders®P345 Actuators

Saunders® P345 is a modular polymer pneumatic actuator developed to provide superior performance in Bioprocess applications and deliver major TCO benefits in terms of plant efficiency and air consumption. 4.5 bar operating air requirement delivers savings in air consumption and maximises plant efficiency. Size Range DN8 0.25" to DN100 4". Closure performance aligned with needs of Bioprocessing industry. Elastomer Diaphragms 10 bar 100%-P, PTFE Diaphragms 8 bar 100%-P.

