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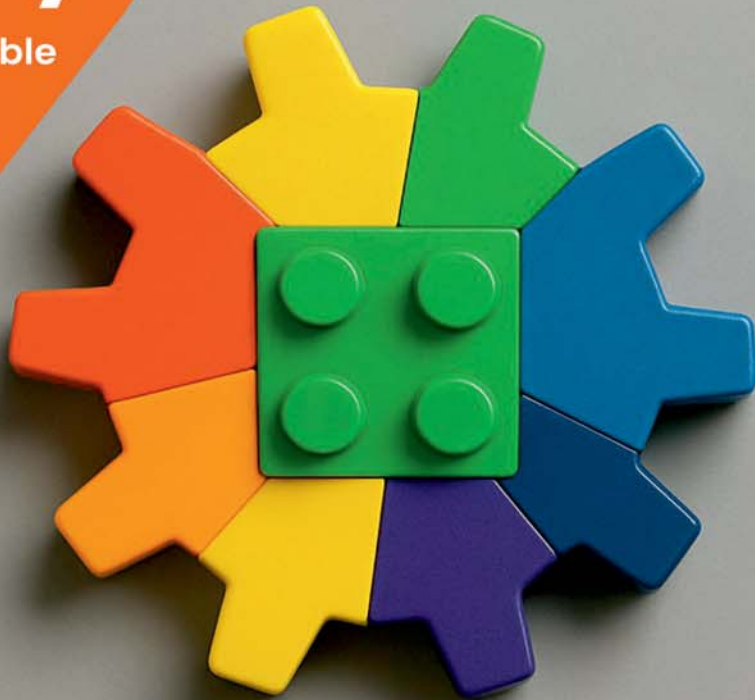
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Editor & Publisher: Mohanan Naduvalath
Mobile: 098206 70855

Sub Editor: Ramachandran. T
✉: ipseditor@gmail.com

Marketing Manager: V Madanmohan
Mobile: 098208 38998

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Registered Address

A/10 Jayshree Laxmi Puja CHS, MES Road, Plot No: 78/82,
Ramachandra Nagar, Dombivli (E), Thane 421 201

For Editorial, Marketing & Advertising

104 Sudama Yash
Nr: Ramkrishna Hotel, Kelkar Cross Road, Ram Nagar,
Dombivli (E), Thane 421 201
✉: ipsmaginfo@gmail.com
ipsmag@yahoo.com

Representative

Coimbatore: Rajeev Kumar, Mobile: 094431 29073

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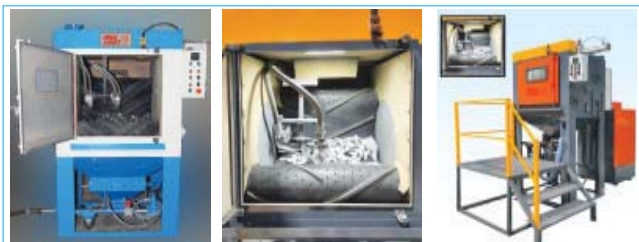
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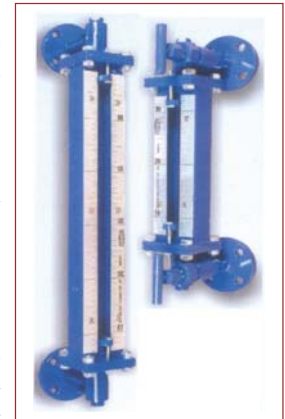
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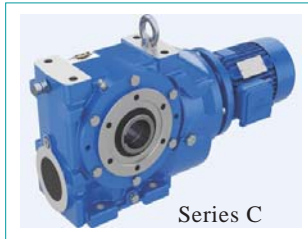
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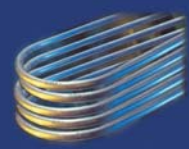
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Mehta Hitech Industries at Shanghai APPPEXPO 2026: Engaging with the Global Printing Industry



Shanghai APPPEXPO is widely recognized as one of the most significant international exhibitions for the printing, signage, and advertising industries. Held annually at the National Exhibition and Convention Center (NECC) in Shanghai, the event brings together manufacturers, technology developers, distributors, and professional buyers from around the world. The exhibition provides a valuable platform for evaluating production technologies, understanding emerging application trends, and strengthening industry connections across the global printing and visual communication ecosystem.

Mehta Hitech Industries Limited participated in APPPEXPO 2026 from March 4 to 7 with its exhibition booth located at Hall 5.2 H, Stall B1315. With over 25 years of experience in industrial machinery manufacturing, the company used the event as an opportunity to engage directly with printing businesses, signage manufacturers, packaging producers, and distribution partners from multiple international markets.

The booth was designed to facilitate practical discussions and live demonstrations, allowing visitors to observe machines in operation and understand their performance within real production contexts. The interactions focused on meaningful discussions around real-world applications, production workflows, and the operational requirements of businesses within the printing and signage sectors.

At the exhibition, Mehta Hitech showcased a selection of technologies aligned with the needs of wide-format printing and digital fabrication businesses. The UV Flatbed Printer demonstrated direct printing capabilities on rigid materials such as acrylic sheets, PVC boards, MDF panels, and foam boards, supporting applications including signage materials, branding graphics, interior décor, and customized display products.

Alongside this, the UV Roll-to-Roll Printer highlighted efficient processing of flexible media including vinyl, banner materials, and display films, commonly used in large-format graphics and advertising production. The UV Roll-to-Roll Hybrid Printer illustrated the flexibility of handling both rigid boards and flexible media within a single system, enabling printing businesses to manage a broader range of applica-

tions through a unified workflow.

Complementing the printing solutions, Mehta Hitech also presented its Knife Cutting System, a digital cutting solution designed for materials such as vinyl, PVC films, foam board, and corrugated board. The system demonstrated precise contour cutting and clean finishing, supporting efficient post-print production processes for signage manufacturing and packaging prototyping.

Live demonstrations formed a central part of the booth experience. Visitors were able to observe machines operating live, providing a direct understanding of parameters such as print quality, material handling, operational consistency, and workflow efficiency. These demonstrations enabled industry professionals to evaluate the technologies in practical terms while engaging in technical discussions with Mehta Hitech's engineering and product teams.

Throughout the four-day event, the booth welcomed a diverse range of visitors including printing business owners, signage manufacturers, packaging companies, and trade distributors exploring new production technologies. Conversations covered areas such as machine configurations, application possibilities, and production requirements across different markets.

Participation in APPPEXPO 2026 provided Mehta Hitech with an important opportunity to connect with the international printing and signage community while gaining insight into evolving production needs across global markets. The exhibition reinforced the company's continued focus on developing reliable, production-ready machinery that supports consistent performance and efficient manufacturing workflows.

As the industry continues to evolve across UV flatbed printing, UV roll-to-roll printing, UV hybrid printing, and digital knife cutting technologies, Mehta Hitech Industries Limited remains committed to supporting customers and partners through engineering-driven solutions and technical expertise. For machine-related inquiries and business discussions, interested readers may connect with the Mehta Hitech team at: **75750 09654** or **E-mail at mktg@mehtaindia.com**

Pneumatic and Solenoid Valves

ROTEX offers specially designed basket of Pneumatic and Solenoid Valves, which meet the requirement of long life and consistent performance for cement industry. Challenges met by ROTEX: Pulse Valve with Hytrel Diaphragm for high cyclic demand; Quick Opening and Closing, using optimal Air and Power/Pulse for effective Bag filter cleaning; Three, and Five Port Valve suitable for dusty environment. The Company's other products include: High performance Automotive Valves; Corrosion Resistant Solenoid Valves; Valves for Dusty and High Temperature Environment; Solenoid Valves for High temperature applications; Next Gen Valves for Ultra critical and Mission Safe application; Valves designed to withstand high vibration and voltage variation, etc.



Contact:

Rotex Manufacturers & Engineers Pvt Ltd
 Plot R-852/853, TTC Indl Area, Rabale, Navi Mumbai 400 701
 ☎ 022 - 2087 1065 • E-mail: sales.rabale@rotexautomation.com

Triple Offset Butterfly Control Valve Series 47000

Enoch manufactures a range of high technology control valves. The triple offset eliminates all rubbing between the seat and seal ring during valve travel, reducing seat and seal wear and extending cycle life. Once the seat and seal ring are fully engaged, torque is applied in order to create a bi-directional, zero leak, and metal-to-metal seal. Size: 3" to 80"; Pressure Rating: ASME 150# to 900# / 1500# and 2500 #. Features: Tripe Eccentric design; uninterrupted 360° contact; Excellent flow control rangeability; Disc design for minimum dynamic torque; ANSI/FCI 70-2 leakage rate up to Class VI; Metallic/Laminated Graphite/PTFE seal; Modified Equal percentage Inherent flow characteristic; NACE MR0175 compliance; and Low maintenance. Applications: Slurry, Paper and Pulp industries; Chemical Fertilizers, and Water Treatment and Gas Plants.



Contact:

Enoch Controls Pvt Ltd
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Syphons

In-Line Flame Arrester

Manisha Industries, an ISO 900-2015 Company offers In-Line Flame Arrester. Storage Tanks and Vessels containing flammable and explosive chemicals and mixture are prevalent in chemical process industries plants Flame Arrester is installed on such equipment to prevent potential hazard associated with flammable and explosives materials. Flame Arrester can stop the spread of a fire, limit the spread of an explosive event, protect potentially explosive mixtures from igniting, and confine a fire within an enclosed, controlled location. A flame arrester works by forcing a flame front through very narrow channels (MESG) has travels through the device, but the passages are so narrow that the flame can no longer be maintained. Special Features: Design of Flame Arrester such that it gives Maximum Flow and low pressure Drop; Easy cleaning, less clogging and less maintenance; Removable element design allows for easy inspection, cleaning and replacement; Fluoropolymer coated Body and hardware are provided for outstanding corrosion and chemical resistance. Provision available for Standard Temperature port in all types of Flame Arrester; Flame Arrester is available in A216 Gr. WCB, SS 304 and SS 316 and Flame Cage/Element will be in SS 304, SS 316, SS 316Ti and Hastelloy C; Flame Arrester designed and manufactured as per API 2000 7th Edition and Tested as per ISO 16852.



Contact:

Manisha Industries
40 Shreeram Indl Estate, Anup Engineering Compound
B/h: CMC, Odhav Road, Ahmedabad, Gujarat 382 415
Mob: 98790 32757 / 87589 16396
E-mail: sales.glandovalve@gmail.com

Valves

BSA Engineering Company, an ISO 9001: 2015 Certified Company manufactures and exports Rotary Air Lock Valves, Slide Gate Valves, Double Flap Valves, etc. The Company is also a Service provider of Rotary Air Lock Valves, Slide Gate Valves and Double Flap Valves. BSA make valves as per the material and the requirement of the system to optimize the results of material and its application. We work dedicatedly on delivering fast quotes, shipments and Technical Support.

Contact:

BSA Engineering Company
Elegant Residency, B-405, S No: 3/2, Bombay-Pune Highway
Nigdi, Pune, Maharashtra 411 044
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E-mail: anil.bsaengg@gmail.com

Drum Pump

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Ceracin
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Contact:

HeatKal Technologies
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Industrial Valves

Oskar Industries is a manufacturer and exporter of Industrial Valves such as Actuated Butterfly Valves (*Pix*), Aluminium Butterfly Valves, Double Flanged End Butterfly Valves, Double Offset Disc Butterfly Valves, Lug Type Butterfly Valves, Wafer Type Butterfly Valves; Lined Val-ves; Actuated Ball Valves, 1-Piece Screwed End Ball Val-ves, 3-Piece Screwed/Socket Weld End Ball Valves, 1-Pice, 2-Pice, and 3-Piece Flanged End Ball Valves, Wafer Type Ball Valves; Check Valves, Ball Type Check Valves/Foot Valves, Forged Gate/Globe/Check Valves, Casted Gate/Globe/Check Valves; and Sight View Glass.



Contact:

Oskar Industries

Plot No: G-531/A, Kishan Gate, Lodhika GIDC
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Cristal Instruments

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Bellow Seal Globe & Gate Valve

Aqua Engineering offers Bellow Seal Globe & Gate Valve. Standards – Design Standard: BS 1873/BS 5352/DIN/API. 600/API 603; Inspection and Testing Standard: API 598/BS 5146/BS EN 12266 I (BS 6755-I); Face to Face: As per ANSI B 16.10 BS 2080/BS 5352; End Collection: Flanged End to ANSI B 16.5 / BS 10 Table D E; Screwed End IS 554/BS 21/ISO 7 Socket Weld End to ANSI B16.11 (Buttweld End to ANSI B 16.25; Size Range: 1/2" to 12"; Pressure Rating: 150#/300#/600#800#/900#/1500#/ND 40; Operation: Hand Wheel/Gear. The Company's range of products include: Gate Valve, Globe Valve, Check Valve, Forged Steel Valve, Ball Valve, Jacketed Ball Valve, Butterfly Valve, Dual Place Check Valve, Strainers, etc.



Contact:

Aqua Engineering

14, 15, 16 Rajnagar Estate, B/s: Vishvanath Nagar, Nr: Ajit Mill
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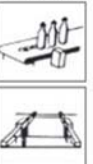
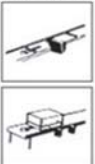
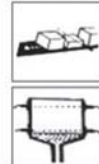
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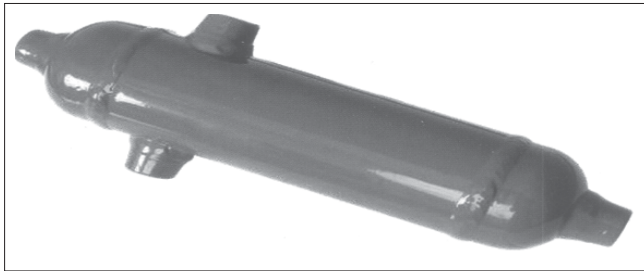
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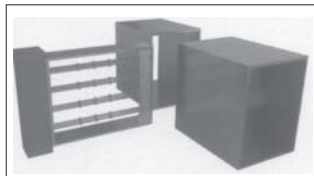
system and/or manifold. The condensate may be drained from the bottom valve connection. Condensate pots are used as a barrier between the main line and the secondary instruments in the measurement or steam or other vapors which condense to a liquid state insuring compatibility with the secondary instruments. They can also be used to cool down very high temperature liquids. These are custom manufactured to suit client and project applications. Applications: Refineries, Power Plants, Chemical and Petrochemical, Steel plants and other process industries.

Contact:

Shridhan Automation Pvt Ltd
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Contact:

Magma Technologies
701-702 Shanti Legacy, B/s: Reliance Jio Petrol Pump
Mira Bhayandar Road, Mira Road East, Maharashtra 401 107
Mob: 93727 45020 / 93727 45019
E-mail: magma@magatechindia.com

High Performance (Double Offset Butterfly Valve)

Aira Euro is a leading High Performance Butterfly Valve Manufacturer in India, delivering precision-engineered valves designed for demanding industrial applications. The High Performance Butterfly Valves are built with premium materials, including stainless steel, mild steel (MS), and duplex alloys, ensuring exceptional durability, corrosion resistance, and high-temperature performance. These valves are designed for efficient flow control, offering tight sealing and minimal pressure drop for maximum efficiency. With a wide range of butterfly valves, Aira caters to varied industrial needs, ensuring reliability and long service life. Types of Aira's High Performance Butterfly Valves: Aira Euro offers advanced butterfly valve solutions designed for high pressure and high temperature applications. The High Performance Butterfly Valves feature a unique offset disc design, reducing seat wear and ensuring tight sealing with minimal torque. High Performance Stopper Lug Type Butterfly Valve: Ideal for applications requiring precise flow control, this valve provides leak-proof sealing in high-pressure environments. High Performance Stopper Wafer Type Butterfly Valve: This is a compact and cost-effective solution that is easy to install in tight spaces. High Performance Metal Seated Spherical Disc Butterfly valve: This valve is built for extreme temperatures and abrasive media, ensuring superior durability and longevity. High Performance Spherical Disc Butterfly Valve: Designed for efficient flow regulation, delivering optimal performance with minimal pressure drop.



Contact:

Aira Euro Automation Pvt Ltd
Plot No: 123-124, Aira Estate, B/h Security Estate
Near Kashiram Textile Mill, Narol
Ahmedabad, Gujarat 382 405
Mob: 90994 77256 • E-mail: mkt@airaindia.com

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Globe Valve

Jayant Engineering & Marketing Pvt Ltd offers Globe Valve. Design Features: Design and Manufacturing: BS 1873 / ASME B 16.34; (2" < 24") and API 602 / ISO 15761 (For NPS < 2); Inspection and Testing: API 598, BSEN 12266 Part – 1&2; End Flanges Dimension: ASME B 16.5; W End Dimension: ASME B 16.25; Face to Face and End to End Dimension: ASME 16, 10, BS 2080; Gasket Design: ASME B 16.20; Plug Design: Parabolic, Regulating, Soft seated Plug, Guided Plug; Hand wheel Construction: Rising and Non-rising Hand wheel. Special Features: Gear Operation-applied force exceeds 350N; Limit Switch Arrangement; Electrical and Pneumatic arrangement; Lantern ring arrangement for vacuum service; IBR Certified; NACE MR 0175 and MR 0103; Position Indicator; Locking Arrangement; Extended Stem. The Company also offers Gate Valves, Swing Check Valves, Globe and Lift Check Valves, etc.



Contact:

Jayant Engineering & Marketing Pvt Ltd
 Plot No: 2003/2004, Phase II, GIDC Chhatral
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Contact:

Goma Group of Companies
 Plot No: B/66, Road No: 34, Nehru Nagar
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 ☎ 022 – 4161 4161 • Mob: 90046 54240
 E-mail: pumpdivision@goma.co.in

Fume Extraction

Balaji Filter Tech offers Fume Extraction. A fume extractor is a system utilizing a fan to pull fumes and particulate into a filtration system cleaning the air of harmful chemicals and particulates. Fume extractors use a variety of filters while some systems, depending upon application, use multiple filters in line. The combination of a powerful fan and high-quality filtration media creates a recirculating air pattern for ductless units. These units take up less space, weigh less, are more energy efficient, and have easy access to change filters. Application: Industrial processes create fumes or particles such as welding, laser cutting, standing, grinding, spraying, powder filling, and chemical applications.



Contact:

Balaji Filter Tech
 SF No: 33/1B, Kannampalayam Road, Peedampalli PO
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Gas Detector SSS-903

ESP Safety Pvt Ltd offers ESP Model SSS Gas Detector of hydrogen sulphide, combustible and toxic gases is intended for automatic and continuous monitoring of flammable, toxic and combustible gas levels. SSS consist of Transmitter SSS (threshold device) and plug-in universal gas transducers PGU with electrochemical (PGU-E), infrared (PGU-IR) and photo ionized (PGU-P) sensors. Transmitter SSS is the universal one-channel threshold unit intended for visualization of gas signals values receiving from plug-n gas transducers. Transmitter SSS has following output signals: 3 threshold relays and 1 fault relay, digital output (RS-485) and analog output 4-20 mA. Any HART-Communicator device can be connected to Transmitter SSS via standard HART-connector for read-out gas concentration values, threshold changing, and zero set-up and sensitivity calibration in a field conditions. Transmitters SSS body is made from either SS316 mark or Aluminium and has explosion proof protection and intrinsically safe barrier level. Features and benefits: 3-Colour LED status indicator (normal, fault, alarm); Integral 48 Digit LCD for easy viewing of detector status; Calibration Indicator; Non-intrusive configuration of device; Quick and easy start up procedure (warm up time of device is less than 15 sec); Remote sensor option; Viewing of last 30 min historical trend on display; Continuous self-checking to ensure stable full functionality at all times; Display: Gas Type; Threshold level; Measuring units; Reading history of last 30 minutes with self-illuminating backlight. Areas of Use: Drilling and production; Refineries, bulk terminals and tank farms; Compressor stations and pipeline facility; Petrochemical, paint and fertilizer plants; Fuel loading facilities; Transportation facilities; and Residential areas.



Contact:

ESP Safety Pvt Ltd
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Gurugram, Haryana 122 008
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Hydraulic Products

Fluidics offers Hydraulic products like Hydraulic Power Units, Hydraulic Trainer Kit for Colleges and Training Institutes; also Proportional valve, Servo Valves, Logic Valve, Directional Controls, Flow Controls, Gear Pumps, Vane Pumps, ASR, and ASE Pumps, pressure pumps, etc.

Contact:

Fluidics Engineers Pvt Ltd
12/1 Vetri Vinayagar Nagar, Sivananthapuram,
Saravanampatti (PO), Coimbatore, Tamil Nadu 641 035
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AMT Cushy Foot Mounts, Series C

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Contact:

Machine House (India) Pvt Ltd
W-82 (A), MIDC, Ambad, Nashik, Maharashtra 422 010
Mob: 98223 95213 / 99229 94859
E-mail: bilzindia@gmail.com

Pneumatic Control Valve Model 7916-19A/B Series

Avcon Controls Pvt Ltd offers Automated Valves, which includes: Solenoid-Motorized – Pneumatically Operated Valves, used in diverse field where automation is needed. For general use 3-way control valves, size 20 mm (3/4") to 100 mm (4"), Metal Seating as well as Soft Seating. Specifications of Pneumatic Control Valve, Model 7916-19A/B Series – Face to Face: As per DIN 3202 – Part 1, Series F1; Flanges: As per ANSI C1.150 and also Ci.300; Bodies: WCB, CF8 and CF8M; Pressure: Up to 10 bar; Temperature: Up to 220°C; Characteristics: On and off, or Linear for Mixing or Diverting application. Actuator: Pneumatic Multi-Spring Diaphragm Design.



Contact:

Avcon Controls Pvt Ltd
Plot No: 65, Road No: 13, MIDC Marol Area
Andheri (E), Mumbai 400 093
☎ 022 – 6915 6100 • E-mail: avcon@avconcontrols.com

Pneumatic FFS Machine Double Head Weigher

Sampack India Corporation, an ISO 9001: 2015 Certified Company manufacturer and exporter of food processing, and packing machinery offers Pneumatic FFS Machine Double Head Weigher. Its Features: An Auto Weighing and Filling Machine with Micro-computer Control self-energy touch screen operated packaging machine. It is suitable for grains, granules, pulses and free flowing powders and is used in industries like Food, Chemical, Agricultural, and Sideline products industries such as Powder Quantitative Packaging materials, Starch, Pesticides, Veterinary Drugs, Additives, Premix, Condiments, Feed, Enzyme Agent, Health Care Products, Cosmetics, etc. Specification – Max Capacity: 10 g to 1 kg; Filling System: Weigh Metric; Accuracy: +2 g based on products; Packing Speed: 5 to 20 packs per minute; Control Panel: PLC; Contact Parts: SS304; Electricity Consumption: 4 kW; Power Supply: AC 220 V; Hopper Capacity: 35 kg (for Rice and Dhal); and Gross Weight: 350 kg.



Contact:

Sampack India Corporation
259-C Rahman Street, Golden George Nagar
Chennai 600 107
☎ 044 – 4867 7211 • Mob: 94478 14422
E-mail: chennai@sampackindia.com

Coil Springs

International Industrial Springs offers Coil Springs for a variety of applications like Valves, Switchgear, Transformer, Actuator, Oil Engines, Earth Moving Equipments, Crushers, Windmills, etc. The Company manufactures Compression, Tension, Torsion, and Extension, Conical, Garter, Spiral, Volute Springs, etc. conforming to various International and Indian Standards like IS 7906, DIN 2095, DIN 2098, DIN 2194. IIS manufactures Coil Springs from Wire Dia 0.2 mm and OD 1.7 mm up to Wire Diameter 70 mm and OD 500 mm; Springs up to length of 1560 mm; Springs using High Tensile material bought directly from mills like Tata, Usha Martin, etc.



Contact:

International Industrial Springs
Plot No: A/26, Road No: 10, Wagle Industrial Estate
Thane, Maharashtra 400 604
☎ 022 – 6847 0000 / 2582 1941
E-mail: sales@internationalsprings.com

Screw Pump KX-V Series

Hydro Prokav offers KX-V Series Screw Pumps. Features: Flow up to 135 m³/hr; Temperature up to 200°C; Viscosity up to: 100,000 cP; Pressure up to: 12 bar. This pump is ideal for transferring: Acids, Sludge, Varnish, Cream, Malt extract, Fuel, Lube and Furnace oils, Drug formulations. Hydro Prokav Pumps India Private Limited is a leading manufacturer and exporter of various types of Positive displacement Pumps. Hydro Prokav manufactures various types of Progressive Cavity Pumps and Eccentric Screw Pumps; and supplies its Positive Displacement Pumps to various Industries like Chemical, Petro chemical, Pulp and Paper, Sewage/Effluent Treatment, Edible Oil Refineries, Sugar, Distilleries, Breweries, Cattle Feed Plants, Fruit Pulp canning Industries, Cosmetic Industries, Toilet Soap and Detergent Soap Manufacturing Plants, Printing Ink manufacturers, Pharmaceuticals, Fertilizer Plants, Fisheries, Marine Industries, Ship Building Industries, Steel, etc.



Contact:

Hydro Prokav Pumps India Private Limited
S FNo: 1/18-1, Palladam Road, Pollachi Main Road
Ottakkalmandapam, Coimbatore, Tamil Nadu 641 032
☎ 0422 – 690 1900 • Mob: 86056 96664
E-mail: sales@affinitypump.in

	
CHEMICAL PUMPS	GEAR PUMPS
M.O.C. : SS316/Polypropylene	For Oil & Chemicals
SEAL-LESS MAGNETIC PUMPS	M.O.C. : C.I. / S.S.
M.O.C. : SS316/PP Type : Non-Flameproof / Flameproof	
BARREL PUMPS	
M.O.C. : CI/SS/PP Type : HAND / POWER / AIR Operated (FLP)	HYDRAULIC TEST PUMP - HAND OPERATED / MOTORISED / GAS CYLINDER STRETCH TEST PUMP
	C. BOLE & CO. ESTD. 1944
	61, NARAYAN DHURU STREET, MUMBAI - 400 003
	* TEL.: (OFF.) : 2342 9641 / 2342 4350 * FAX: 2342 4040
	* WORKS : 2578 3400 * FAX : 2578 3809
	* E-MAIL : cboleco@yahoo.com / cbole@cboleco.com
	* WEBSITE : www.cbolepumps.com

Flush Bottom Valves, Series 500

Pneucon Valves Pvt Ltd offers Flush Bottom Valves, Series 500. Technical Specifications – Design: Complies with Pneucon Specifications; Valve Size: 25 to 200 mm (1" to 8"); Rating: 150/300 ANSI. Performance Features: High flow capacity; Best suited for drainage system; Tight closing for reliable shut-off even after change in pressure/temperature are sudden and extreme; Wide selection of actuators to meet most system requirements. Pneucon products range includes: Pressure Regulating Valves, Globe 3-Way Control Valves (Series 130), Butterfly Control Valves, V-Notch Ball Control Valves (Series 300), Diaphragm Control Valves (Series 400), etc.



Contact:

Pneucon Valves Pvt Ltd

Plot No: A-35, Road No: 10, Wagle Estate

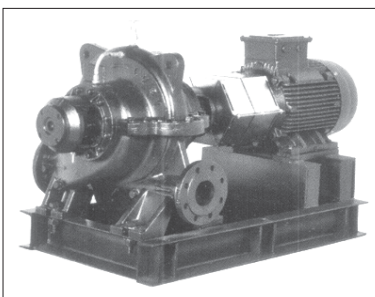
Thane, Maharashtra 400 604

☎ 022 – 2583 8371 / 2583 8372

E-mail: info@pneuconvalves.com

Horizontal Split Case Pumps

Lubi Industries LLP offers Horizontal Split Case Pumps. Performance – Flow Range: Up to 2700 m³/hr; Head Range: Up to 160 m. Applications: Suitable for handling water with slight impurities in: industries, Water work, Irrigation, Water circulation, Air Conditioning plants, Processing plants, Paper, Sugar and Textile Mills, Power Plants, Refinery, Storm Water, Sprinkler Irrigation, Waste Water Treatment Plants, Fertilizer Plants, etc. Lubi's range of products include: Single-stage End-suction Pumps, Single-stage Bare Shaft End-suction Pumps, Submerged Centrifugal Pumps, End-suction Centrifugal Monoblock Pumps, Close-coupled Stainless Steel Centrifugal Pumps, Horizontal Single-stage Centrifugal Pumps, Horizontal Multistage End-suction Pumps, Vertical Multistage Centrifugal Pumps, High-pressure Vertical Multistage Centrifugal Pumps, HPN Pressure Booster Systems, Stainless Steel Submersible Bore Well Pumps, Sewage/Effluent Pumps, Drainage Pumps, Construction Drainage Pumps, Grinder Pumps, Propeller Pumps, Close-coupled and Split-coupled Vertical In-line Pumps, HVAC Packaged Pumping Systems, Suction Diffusers, End-Suction Fire Pumpset, and Triple Duty Valves, etc.



Contact:

Lubi Industries LLP

Nr: Kalyan Mills, Naroda Road, Ahmedabad, Gujarat 380 025

☎ 079 – 3061 0100 • E-mail: indsales@lubipumps.com

STF Pump for the Sugar Processing Industry

Sintech produces wide range of pumps for the sugar industry. Sintech has experience of more than 3 decades in supplying pumps to mill houses and boiling houses. With experience of Plants as small as 500 TCD and as big as 25000 TCD, Sintech has managed to produce Tailor Made Pumps for every application for a Sugar Processing Plant. The Pump STF handle fluids due to plugging or abrasive wear is designed for Mill House/ Diffuser are very suitable where conventional non-clog pumps cannot handle liquids due to plugging or abrasive wear. The principal of the hydrodynamic liquid coupling is used for the energy transfer to the pumping liquid. The impeller generates a whirlpool in the casing and this whirlpool acts as a pumping element (impeller) in the casing. Features of the pump: Unobstructed passage to the discharge size of the pump; Handles large solids and long fibers; Gentle pumping action, no flocks/crystal damage; Low maintenance cost, no sealing ring on impeller, no small clearances to be maintained; Handles abrasive slurries; Handles vulnerable products like vegetables, fish, crystals, etc.; Vibration free running due to hydraulically balanced construction; and Low leakage.



Contact:

Sintech Precision Products Limited

C-189-190, Bulandshahar Road Industrial Area

Site No: 1, Ghaziabad, Uttar Pradesh 201 001

☎ 0120 – 417 6000 / 286 6320

E-mail: sales@sintechpumps.com

Process Reaction Vessels

Fabricraft supplies well designed and manufactured Reaction Vessels conforming to various codes like ASME, IS, GEP, as per CGMP and GMP Norms. With limpet and Jacket and mechanical seal assembly. The offering products include: Reaction Vessels, Autoclaves, Crystallizer, Reaction Kettle, Skid Mounted Reactor, Blending Vessels, Mobile Reactor, Kilo Lab Reactor, Limpeted Reaction Vessels, etc. MOC: SS 316, 316L, 304, IS2062, SA516 Gr.70, Hastelloy C22/C276, Teflon Coated and Halar Coating.



Contact:

Fabricraft

C-8, MIDC, Anand Nagar, Ambernath

Dist: Thane, Maharashtra 421 506

☎ 0251 – 262 0112 • Mob: 83690 34534 / 99709 07192

E-mail: fabricraft@gmail.com

Flame Arrestor Valves

Hyper Valves Pvt Ltd offers Flame Arrestor Valves. A flame arrestor is a safety device used to prevent the propagation of flames and explosions in industrial processes involving flammable gases or vapors, by extinguishing the flame and preventing it from spreading. Design: Inline or End of Line; Type: Deflagration or Detonation type; Size: 1" to 16"; Pressure Rating: 150#; End Connection: Screwed End, Flange End; Material Body: Carbon Steel, Stainless Steel, Duplex Steel, Hastelloy; Alloy 20, Monel, Inconel. Material Element: SS304, SS316, Hastelloy; Explosion Gas Group: IIA, IIB, IIC. The Company's range of products include: Automatic Control Valves, Dome Loaded Back Pressure Regulator Valves, Emergency Relief/Vent Valves, Pressure Vacuum Relief Valve/Breather Valves, Safety Relief Valve and Pressure Relief Valves, Slam Shutoff Valve, Pressure Reducing Valve, Back Pressure Regulating Valves, etc.



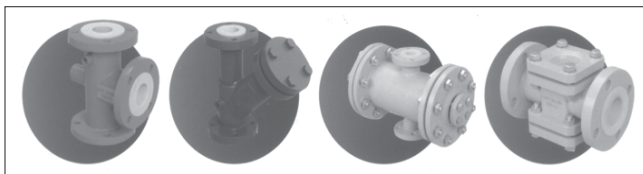
Contact:

Hyper Valves Pvt Ltd

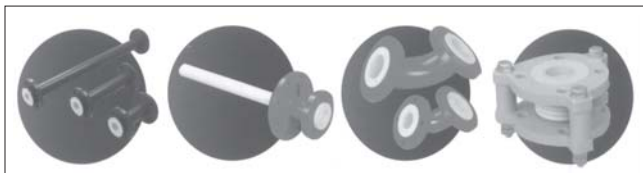
R-21 & 3, Arbuda Estate, Nr: Muthia Railway Crossing
GIDC, Phase-II, Naroda, Ahmedabad, Gujarat 382 330
☎ 079 – 4604 0470 • E-mail: info@hypervalves.com

PFA/Antistatic PFA/FEP/PVDF/ PP HDPE Lined Pipe Fittings

Dipflon Engineering & Co offers PFA/Antistatic PFA/FEP/PVDF/PP HDPE Lined Pipe Fittings. All Types of Lined and Moulded Fittings available in – MOC: DI/WCB/CF8/



CF8M/CF8MI; Lining Material: PFA/Antistatic PFA/FEP/PVDF/PP; Flange Connection: as per ANSI B 16.5/BS 10 Table/DIN Rating. The products range are: Lined Tee,



Lined V Type Strainer, Lined Basket Type Strainer, Lined Double Window Sight Glass, Lined Spool Pipes, Lined Dip Pipe, Lined Elbow, and PTFE Expansion Bellow.

Contact:

Dipflon Engineering & Co

B-413, B G Towers, Nr: Delhi Darwaja
Shahibaug Road, Ahmedabad, Gujarat 380 004
☎ 079 – 2562 4003 • Mob: 98987 94440 / 92276 84378
E-mail: info@dipflon.com

Extended Stem Brass Ball Valve

Lehry make Extended Stem Brass Ball Valve Screwed End is suitable for domestic water services, heating, air-conditioning plants and compressed air systems. Features: Female/Female threads; Flat lever handle with Dacromet plating for Anti-Rust; Body in nickel-plated brass as per CW617N Standard; Minimum and maximum working temperatures: -20°C to 120°C in absence of steam; Threads ISO 228 (equivalent to DIN EN ISO 228 and BS EN ISO 228). Specification: Available Size: DN 15 to 50 (1/2" - 2"); Pressure Rating 1/2"-1": PN 30; 1-1/4"-2": PN 25. Lehry's products range include: Lead Free Forged Brass Ball Valve, Forged Brass Ball Valve, Extended Stem Forged Brass Ball Valve, Butterfly Valve with ISI/FM mark, Brass Y-Type Strainer, Y-Type Strainer, T-Type Strainer, Reflux Valve with ISI/Swing Check Valve FM mark, Dual Plate Check Valve, Air vent Valve, etc.



Contact:

Lehry Instrumentation & Valves Pvt Ltd

Lehry Chambers, New No: 78 (Old No: 51), Sembudoss Street
P B No: 1506, Parrys, Chennai 600 001
☎ 044 – 2522 6995 / 2522 6187 • E-mail: info@lehry.com

Centrifugal Chemical Process Pump Series SCP

Jay Ambe Engineering Co offers Centrifugal Chemical Process Pump Series SCP, which find application for handling clear as well as slurry liquid. Mainly used in chemical industry, pharmaceutical industry, ME Plants, condensate application, sludge transfer applications. Design: Horizontal, single stage, back pullout. Flanges are as per ANSI B 16.5 Std. Impeller matched to casing for high efficiency and low NPSH. Performance Data – Delivery Size: Up to 50 mm; Capacity: Up to 80 m³/hr; Head: Up to 60 m; Temperature: Up to 200°C; Pressure: Up to 17 bar; Material: Available in MS, SS, Duplex, Super Duplex Steel and Alloy. The Company's range of products include: Axial Flow Pump, Vertical Axial Flow Pump, and Centrifugal Chemical Process Pump Series PCF.



Contact:

Jay Ambe Engineering Co

Survey No: 416 & 1464, Nr: Water Canal
Kothiya-Kuha Road, Village Kuha, Taluka Daskroi
Ahmedabad, Gujarat 382 433
Mob: 99786 28208 / 80486 04994
E-mail: sales@jecwoodland.com

Hydraulic Drives

EKCP's Hydraulic Drive includes drive unit with bull gear, planetary gear system driven by a hydraulic motor, which in turn is operated through a hydraulic power pack. Also the unit includes a torque transducer to activate the overload alarm and to produce an output signal. Automatic rake lifting arrangement and drive tripping arrangement is provided in



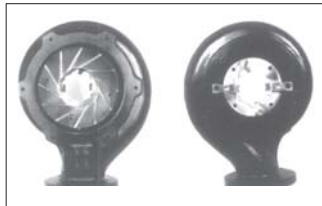
order to protect the mechanism from overloading. The drive Heads with duly rated torque up to 2,711,000 Nm and peak torque rating up to 9,760,000 using High Precision Ring Gears are standard on large EKCP Thickeners; Increased torque capacity; Reliable and adjustable torque sensing; Torque sensing by electronic main drive slip sensor with fixed high torque alarm and motor cut off valves but with adjustable rake raise torque value and also the some feature is available with load cell type transmitter. EKCP's range of products include: Horizontal Belt Filters, Thickeners (High Rate and Conventional), Swing Lift Thickeners, Drum Filters, Dewaxing Filters, Clarifiers, Reactor Clarifiers, Classifiers, Reausticizing Systems, Lime Slakers, Flocculators, Surface Aerators, Rotary Distributors, Brown Stock and Bleach Pulp Washers, Drive Heads, etc.

Contact:

The EIMCO KCPLtd
Ramakrishna Buildings, 239 Anna Salai, Chennai 600 006
☎ 044 – 2855 5171 • Mob: 94440 96921 / 94440 86920
E-mail: info@ekcp.com

Sewage Pumps

Sharp Pumps Pvt Ltd supplies Sewage Pumps PC Series – Cutter for pumping drainage water or effluents in Residential, Commercial or Industrial application; Gray water pumping, septic effluent pumping, soft solid, hard dirt, effluent with lots of fibrous material. Technical Data – Voltage and Phase: 230 V – 1 phase, 415 V – 3 phase; Insulation Class: F; Protection Class: IP68; Speed: 1440 / 2880 rpm; Frequency: 50 Hz; Casing: FG 200; Impeller: FG 200 Steel Castings. Performance Data – Flow Rate: 2 m³/h to 300 m³/h; Maximum Head: 45 m; Maximum Particle Size: 135 mm; Pipe Size: Up to 150 mm. The Company's products range includes: Multistage Pumps, Hydro pneumatic System, Swimming Pool Pumps, Booster System, Crunchers, Macerators, Pressure Boosting Pumps, etc.



Contact:

Sharp Pumps Pvt Ltd
Point Arcade, Sharp Nagar, Kalappatti
Coimbatore, Tamil Nadu 641 048
☎ 97861 97100 / 90477 77757 • E-mail: info@pointpumps.com

Hydro Pneumatic Press, 4 Pillar

Mercury Pneumatics Pvt Ltd offers Hydro Pneumatic Press ranging from 1 ton to 45 ton with travels ranging from 50 to 200 mm. The press works only on compressed air, is fast and energy efficient; and is used for operations such as marking, clamping, riveting, cutting, crimping, shearing, forming, drawing and powder compacting. Its max force or load: 50 ton; Automation Grade: Semi-Automatic. Typical applications: Riveting, Blanking, Straightening, Drawing, Clamping, Stamping, etc. The Company's products range includes: 2 Column Hydro Pneumatic Press, 4 Column Hydro Pneumatic Press, C Frame Hydro Pneumatic Press, Compact C Frame Pre-ss; Auto lube Pumps, Hydro Pneumatic Pumps, Pneumatic Grease Dispensing Pumps; Automatic Drain Valves, Pneumatic Valves; Pneumatic Cylinders; Air Preparation Units; Quick Connect Fittings; Hydro Pneumatic Clamping Systems; Bolt Tensioner Units; Air Boosters; etc.

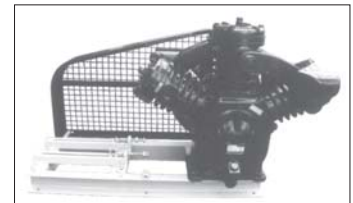


Contact:

Mercury Pneumatics Pvt Ltd
C-105, Ansa Industrial Estate, Saki Vihar Road
Andheri (E), Mumbai 400 072
☎ 022 – 4015 1020 • Mob: 79490 94528
E-mail: contactus@mercuryindia.net

Piston Type Dry Vacuum Pumps & Compressors

Promivac manufactures Piston Type Dry Vacuum Pumps and Compressors Single and Double Stage, Air Cooled. These are single stroke, air-cooled, reciprocating piston type units available in single and double stage configuration and can achieve vacuum up to 29.6" Hg (752 mm Hg). These are quite reliable and maintenance free pumps, proving a boon for application where in oil mist contamination at all acceptable. Applications: Distillation, Vacuum Forming, Menthol Oil Extraction, Paper Handling, Food Processing, Filtration, Sugar Industries, Centralized Vacuum Systems, Hospitals, Vacuum Impregnation, Dairies, etc.



Contact:

Promivac Pumps Pvt Ltd
3575 Netaji Subhash Marg, Darya Ganj, New Delhi 110 002
☎ 011 – 2328 1082 / 2327 3965 • Mob: 93102 64112
E-mail: info@promivacpump.com

Flush Bottom Valves with Automations

JossMin Valves and Automations Private Limited offers Flush Bottom Valves with Automations. The Flush Bottom Valves, also known as Reactor Bottom Valves or Flush Tank Bottom Valves are vital in the critical act of tank flushing in a variety of industries. JossMin's Reactor Bottom Valves are designed under the standards along with cavity fillers keeping the sealing properties to a max, removing any possibilities of contamination. The products are offered in a range of sizes and end connections to ensure 100% flushing. Jacketed and purge valves are also available for special applications. Construction: Single Piece/Two Piece/Three Piece; Bolted; and Weldable. Design: Seated/Cavity Filled; E-Segment; Wafer-end; Jacketed; and Purging. The Company caters industries like Pharmaceuticals, Food and Beverages, Chemicals and Pesticides, Paints, Polymers, Pigments, and others.

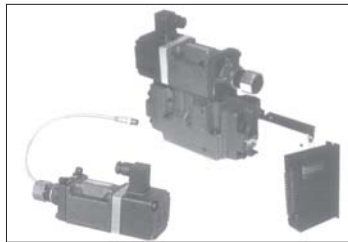


Contact:

JossMin Valves and Automations Private Limited
Plot No: 2, Survey No: 46, Manas Industrial Hub, Chinchpada
Waliv Road, Vasai (East), Dist: Palghar, Maharashtra 401 208
Mob: 70280 25111 / 70280 25222 • E-mail: info@jossmin.co

High Speed Linear Servo Valves

Yuken India offers High Speed Linear Servo valves LSVG/LSVHG Series. These valves offer extremely high response and excellent anti-contamination characteristics. An intensified small linear motor drives the spool directly. A differential transducer electrically detects spool position for feedback control. These valves are suitable for high speed nibbling machine, high speed injection moulding machine, die casting machine, steel mill equipment, vibration testing machine and various machines. Yuken's products range includes: Variable Displacement Piston Pumps, Variable Displacement Vane Pumps, High Pressure Pumps, Gear Pumps, Flow Control Valves, Pressure Control Valves, Directional Control Valves, Modular Valves, Direct Operated Pressure Relief Valves, Cartridge Valves, Proportional Valves, High Response Type Proportional Electro Hydraulic Valves,



High Pressure Pumps, etc.

Contact:

Yuken India Limited
B-80, 2nd Cross, 1st Phase, Peenya Industrial Area
Bengaluru, Karnataka 560 058
☎ 080 – 2839 0225 / 2839 0227
E-mail: marketing@yukenindia.com

H₂O Series Horizontal Split Casing Pumps

MBH Pumps (Gujarat) Pvt Ltd offers Horizontal Split Case Pumps that are characterized by their high efficiency and low noise levels, as well as how easy they are to service.

The pumps are designed to work in a variety of applications, including public water supply to HVAC systems as well as Industrial water supplies. These pumps are horizontal split casing type with suction, discharge nozzles and their supporting feet integrally cast in the lower half casing. This construction enables to remove the rotating unit for inspection and repairs by just removing upper half casing and without disturbing alignment, pipe connection or prime mover. Product Features: Heavy duty built resulting in long service life; Good suction performance and low NPSH. Technical Specification – Delivery Size: Up to 250 mm; Capacity: Up to 1000 m³/hr; Head: Up to 110 metres; Frequency: 50/60 Hz; Temperature: Up to 40°C.



Contact:

MBH Pumps (Gujarat) Pvt Ltd
Plot No: 14, GIDC Industrial Estate
Naroda, Ahmedabad, Gujarat 382 330
☎ 079 – 2282 3066 • Mob: 94275 33830
E-mail: marketing@mbhpumps.com

API 6D Expanding Plug Valve

Ghatge Patil Industries Ltd supplies API 6D Expanding Plug Valve. Its Specifications – Size: 2" to 4" Expanding Plug, Reduced Bore or Full Bore (Pluggable); Pressure Class: ASME Class 150 through 900, Bi-directional, Non-lubricated, Resilient seal, DBB and DIB-1; Design Standard: API 60, ASME B16-34, ASME B16.5, ASME B16.47, ASME B16.10; Testing Standard: API 60, API 598; Quality Specification Level: QSL 2; Material Trim: CS, SS; Temperature Range: -46°C to 200°C (-49°F to 400°F); Fire Safe Design: API 607, API 6FA, ISO 10497; Fugitive Emission Design: ISO 15848; Operation: Hand wheel/Gear Operated, Electric Actuated; Service: Hydrocarbon Liquid and Gas; Elastomers: Viton B, Viton GFLT, Viton Extreme, FFKM; Certification: CE/PED, CRN, ATEX, SIL 3.



Contact:

Ghatge Patil Industries Ltd
Uchagaon, Kolhapur, Maharashtra 416 005
☎ 0231 – 260 8000 / 260 8176
E-mail: marketing@gpi.co.in

CNC Hydraulic Press Brakes

Hindustan Hydraulics manufacturing of CNC hydraulic press brakes guarantees a product with engineering excellence, reliability and performance with precision for long and extensive use. Features:

Machine is designed with down stroke press beam working; Rigidly welded steel frame ensuring minimum deflection under load; Full electronic synchronization with advanced proportional valve technology to ensure continuous monitoring and correction of the press beam and precise control of the parallelism through CNC system; Press beam parallelism and positioning is monitored through two high resolution linear glass scales; Very accurate and precise stroke depth adjustment to accuracy of ± 0.01 mm; Y1-Y2 beam tilting provision of upper press beam up to ± 10 mm; Off-centre bending facility on machine without any damage to the guiding system; Operator friendly features like direct angle programming, angle correction, automatic tonnage calculations, speed controls, stroke length adjustment, dwell/hold time adjustment, decompression distance and decompression speed, programmable back gauge with retraction ensures flexibility and very low set up and time; Graphical programming, graphical bend sequence and blank length computation ensures ease of operation; Single set machining of the frame structures guarantees in very accurate parallelism along the length of the machine between the lower table and upper press beam; Adaptability to modular tooling system and application friendly 60 mm table; Safety regulations as per the norms.



Contact:

Hindustan Hydraulics Pvt Ltd
G T Road, Suranussi, Jalandhar, Punjab 144 027
☎ 0181 – 267 0054 / 267 0055
E-mail: hhpl_sales@vsnl.net

Manual and Automation Valves

Hindustan Hydraulics & Pneumatics offers Manual and Automation Valves: Ball valves, Butterfly Valves, Gate Valves, Globe Valves, Pressure Relief Valves, Pressure Reducing Valves, Diaphragm Control Valves, Process Solenoid Valves, Angle type Pneumatic Control Valves, Non-return Valves, etc. Hindustan Hydraulics & Pneumatics is a leading manufacturer and distributor for industrial products – Hydraulics, Pneumatics, Instrumentation, Sensors, HVAC Products, Hoses for applications, Industrial Process Valves and Valve Automation, Tubes and Fittings, etc.

Contact:

Hindustan Hydraulics & Pneumatics
265 (Old No: 127), Thambu Chetty Street, Chennai 600 001
☎ 044 – 2534 3066 / 2534 5625 • Mob: 98409 21885
E-mail: hhp@hindustanhydraulic.in

Choke Valves

Enoch Controls offers Choke Valves, which offers unique solution for various choke applications and are used for control of high pressure well fluids/solids. The Series 98000 meets the requirements of choke applications in oil production, gas injection, and sea water injection applications where pressure drops up to 400-500 bar are common. The design incorporates various trim from standard to Multi Stage trims that are manufactured from tungsten carbide or ceramic materials for better erosion resistance. The Choke Valves designed and manufactured as per ASME B16.34/API 6A standards, meet the requirement for product specification levels (PSL 1, 2, 3 and 4) temperature and ratings. Choke Valves are available with both screwed seat design and Quick change trim (Clamped design) options. If required valves can be manufactured with NACE compliance. Key Features/Benefits: Robust in construction; High flow capacity and rangeability; Choke valves body material can be forged, casted or Hipped; Clamped, Bolted or Screwed Bonnet design; Various trims option from standard to Low Noise Ant cavitation trim options are available; Linear and Equal percentage inherent flow characteristics; Heavy duty Cage Guided Construction; Sand erosion resistant trim; Metallic Scraper rings; High toughness carbide trims; Optional balanced or unbalanced plug designs; Easy for maintenance (Clamped design); Available in a wide range of end connections; Wide range of actuator options. Applications: Chemical Injection; Water Injection; Gas Injection and Gas Lift; Production; Multi-Phase flows; and high pressure drops, etc.



Contact:

Enoch Controls Pvt Ltd
Plot No: A-40, Nr: Garware, MIDC
Ambad, Nashik, Maharashtra 422 010
☎ 0253 – 238 3548 • Mob: 93675 88673
E-mail: sales@enochvalve.com

High Precision Industrial Valves & Fittings

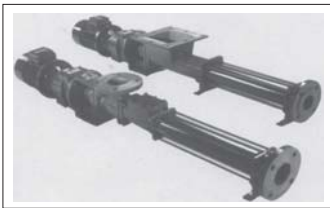
Microtech Engineering Works manufactures high-precision industrial valves and fittings engineered for extreme performance, uncompromising reliability, and long service life. The products range includes: Ball valve, Non-return valve, Safety Relief valve, Customised Solutions, Fittings, etc.

Contact:

Microtech Engineering Works
Rajprabha Udyog Nagar, Extension 3, Building No: 3
Unit No: 25 & 26, Survey No: 13-A, Waliv
Vasai (East), Dist: Palghar, Maharashtra 401 208
Mob: 80800 07985 • E-mail: sales@mewvalves.in

Screw Pumps (Progressive Cavity Pump)

Alpha Techno-Chem Equipments & Services supplies Screw Pumps (Progressive Cavity Pumps). Features – Positive Displacement: Progressing cavities deliver a uniform, metered and non-pulsating flow. Head developed is independent, and flow rate proportionate to the rotational speed. Self-Priming: Can work on snore ie, handle high percentage of air with liquid and do not require foot valves. Non-Clogging: Can handle solids in suspension or media containing high percentage of solids. Low Internal Velocity: Minimum degradation of shear-sensitive media and can handle high viscous Pseudo-plastic materials. Low NPSH Requirement: Suction lift capability up to 9.5 MWC and effective seven in high vacuum condition. Reversible: Suction and Delivery ends can be interchanged by merely changing the direction of rotation of the pump. Flow Rate: Up to 2000 m³/hr; Pressure: Up to 24 bar (for more system pressures, contact factory assistance); Viscosity: Up to 100,000 cSt; Temperature: Up to 150°C. Material Options – Housing Parts: Cast Iron, Cast Steel, CF8, CF8M, CF9ML, Alloy 20 Hastelloy. Rotor and Shaft: Ni-Cr, Nitrided Steel, Tool Steel, AISI 410, AISI 304, ANSI 316, Hardened and Chrome Plated. Stator: NR, IIR, HNBR, EPDM, CR, CSM, Q, CFM, FKM in black, white, food grade, abrasion resistant and variants. Shaft Sealing: A wide variety of gland packed and mechanical seal options with API plan. The Company's products range includes: Centrifugal Pumps, Diaphragm Pumps, Metering Pumps, Filter Press, Mechanical Seal, Electric Motors, Gear Motors, etc.



Contact:

Alpha Techno-Chem Equipments & Services
Unit No: 2, Gr Floor, Jai Estate, Plot No: 6, 6A, 6B
Opp: State Bank, Phase-1, MIDC Dombivli East
Dist: Thane, Maharashtra 421 204
Mob: 84228 84458 / 84228 84460
E-mail: info@alphatechnochem.com

Hydraulic & Pneumatic Products

Savantec Automation (P) Ltd supplies Hydraulic and Pneumatic Products. Their products range includes Air Gun, Air Silencers, Camlock Couplers, Solenoid Valves, Check Valves Fittings, Clamping Cylinders, Clean Fittings, Compact Fittings, Flow Control Valves, Hand Valves, High Pressure Nozzles, HP Couplers, KCC Pneumatic and Hydraulic Cylinders, KOBA Industrial Shock Absorbers, ROTOFLUX Rotary Unions, Sang A PU Fittings and PU Hoses and Couplers, etc.

Contact:

Savantec Automation (P) Ltd
No: 3&4, First Floor, Shop No: 6, Mogappair Road
Mannurpet, Padi, Chennai 600 050
☎ 044 – 4856 8963 • Mob: 73583 12666
E-mail: sales@savantecap.com

Digital Pressure Gauges + Transmitter

Arbuda Instruments offers Digital Pressure Gauges + Transmitter. Features: Nominal size: 63 and 100 mm; Accuracy: +0.25% and 0.15% of full scale; Case and Bezel: ABS plastic and aluminium anodized; Wetted parts: SS 304L/DD 316L; Scale range: -1 to 700 kg/cm²; Battery life: 2 years power saving mode/1000 hrs cont. Applications: Generally used for corrosive gases and liquid media and for calibration lab use.

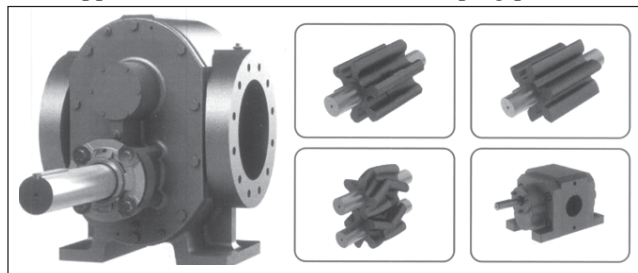


Contact:

Arbuda Instruments
E-11/1 GIDC Sector-26, Gandhinagar, Gujarat 382 027
Mob: 90337 11390 / 93282 97128
Mob: 82649 37896 • E-mail: info@arbudainstruments.com

Pumping Solutions for Paper, Sugar, Chocolate Industries & High Viscous Applications

Ostech Fluid Technologies India offers Pumping Solutions for Paper, Sugar, and Chocolate Industries and High Viscous Applications. Lobe rotor with a scraping profile, suit-



able for the transfer of highly viscous liquids or with inconsistent rheology and for liquids with many particles or abrasive fluids. Ostech Fluid Technologies, manufacturer, supplier and distributor of AODD (air operated diaphragm pumps) pumps, Pneumatic Diaphragm pump, Peristaltic hose pumps, Chemical dosing pump, Flameproof Peristaltic hose pumps, Barrel unloading Air operated diaphragm pumps, PP-PVDF Non-metallic centrifugal pumps, PVDF and PTFE Diaphragm pumps, Magnetic Drive Sealless centrifugal Pumps. Ostech Fluid Technologies is the leading brand in the field of fluid transfer systems. The Company has developed a wide range of pumps for different industries and applications; and has a wide range of products that can be used in different industries like oil and gas; chemical, water and waste management; and are offered the most competitive prices on pumps and other fluid technology products.

Contact:

Ostech Fluid Technologies – India
J-87, Sector 27, Pradhikaran, Nigdi
Pune, Maharashtra 411 044
Mob: 95278 90446 / 91759 92506
E-mail: info@ostechfluid.co.in

NJ Series Pumps

Affinity Sales And Services offers NJRP Series Pumps that are injection moulded, horizontal, back pull-out, volute casing type, single stage, center line discharge, end-suction centrifugal pumps.

Cast iron frames with the injection moulded wetted parts, which are designed to withstand high flange loads and pressures. Features:

MOC: PP/GFRPP/PVDF/PFA Line; Maximum Capacity: up to 210 m³/hr; Maximum Head: Up to 100 m; Maximum viscosity: 150 cp; Specific gravity: Up to 3 m. The Company supplies a range of pumps such as Standardized Centrifugal Pumps, Self-Priming Pumps, Internal Gear Pumps, Self-Priming Pumps, AODD Pumps, Non-Metallic Pumps, Metallic Pumps, etc. Typical Product Applications: Pharmaceutical, Food and Beverage, Pulp and Paper, Chemical, Sugar and Distillery, Petrochemical, Building Water Services, Waste Water Treatment, etc.



Contact:

Affinity Sales And Services

Gat No: 420, Pawansut Park, Markal-Koyali Road

Markal, Tal-Khed, Pune, Maharashtra 412 105

Mob: 78208 76072 / 93591 74952

E-mail: vishalkhond@affinitypumps.in

Check Valves

Global Valves And Fittings, an ISO 9001: 2015 Certified Company offers Check Valves. Features: Maximum Working Pressure up to 10000 PSI (689 bar); Working Temperature: -10°F (-23°C) to 392°F (200°C) with Viton O-ring; Avail-



able in SS304L/SS316L, Monel, Hastelloy, Inconel and Duplex; Variety of thread Type: NPT, BSPT, ISO, SAE; Size: 1/8 ~ 2" pipe thread 3 ~ 25 mm OD, 1/8" ~ 1" OD; Instant shutoff in upstream condition; Compact design; The Cracking Pressure from 1 to 25 PSI (0.07 to 1.8 bar); 100% factory tested; and Material Traceability. The Company also offers Ball valves, Manifold valves, Monoflange valves, Needle valves, Relief valves; Air Headers, Condensate Pots, Crimping fittings, 37° Flare Fittings, Forged Fittings, Hose Fittings, Pipe Fittings, Pressure Gauge Accessories, Swivel Fittings, Tubes, Tube Fittings, etc.

Contact:

Global Valves And Fittings (India) Private Limited

B/9 (A/34), KJB Compound, Opp: Nahar Amrit Shakti

Khairani Road, Saki Naka, Mumbai 400 072

Mob: 99309 30505 • E-mail: info@globalvalvesfittings.com

Plate Heat Exchangers

Platex India offers Plate Heat Exchangers industrial and food grade. Technical Specifications – Frames designed according to FEA and PED 2014/68 EU; (EN13445) and

ASME Sec VIII, Div.1 Construction Standards; Plate Materials: AISI 304/316, Titanium, SMO, Hastelloy; Connections from DN25 to DN600 (1" to 24"); Working Temperatures from -20°C to 180°C; Gasket Materials: EPDM-HT, NBR-HT, Viton; Flow Rates up to 7,200 m³/hr (31,700 GPM); Other Materials are available upon request; Working Pressure up to 35 Bar (500 PSI); Plate Lengths up to 5.5 m (18 ft). Applications industries: HVAC; Heavy; Mining; Sugar; Biogas; Chemical; Pulp and Paper; Petrochemical; Marine/Offshore; Dairy/Food/Beverage; and industries with Sanitary requirements.



Contact:

Platex India

C-108, Runwal Seagull Commercial CHS, Handewadi Road

Hadapsar, Pune, Maharashtra 411 028

Mob: 99229 20239 • E-mail: sales@platex.in

Industrial Process Pumps

C R I Pumps offers Industrial Process Pumps IL Series. Specifications – Max Flow: 23 m³/hr; Max Head: 64 m; Max Power: 7.5 kW; Max Pressure: 10 bar; Max Liquid Temp: 120°C; Speed: 1450 / 2900 rpm; Max Outlet Size: 32 mm. Applications in Industries like:

Chemical, Textile, Dying and Paint, Food Processing, Beverage and Dairy; Edible Oil Refinery, Distilleries Plant, Pharmaceuticals, Effluent Treatment, Chemical Dosing, and Evaporation Process. The Company's products range includes: Vertical Multistage Inline Pumps, Horizontal Multistage Pumps, Hydropneumatics Pressure Boosting System, Submersible Sewage Pumps, Submersible Mixer, Submersible Aerator – Diffuser Type, Submersible Aerator Jet Type, Surface Waste Water Pumps, Centrifugal Monoblock Pumps, Immersible Coolant Pumps, Immersible Coolant Pumps, End Suction Centrifugal Water Pumps, Close Coupled Pumps, Vertical Inline Pumps, End Suction Centrifugal Chemical Pumps, etc.



Contact:

C R I Pumps Private Limited

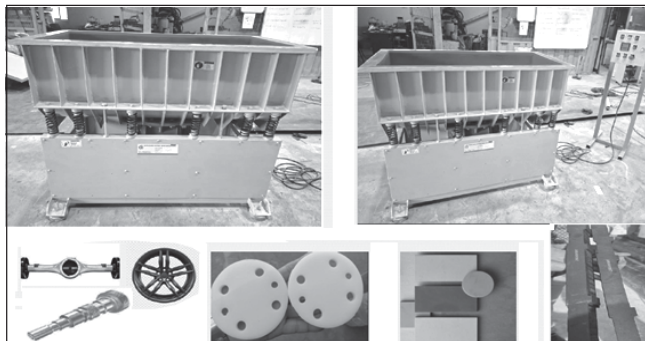
7/45-1 Keeranatham Road, Saravanampatti

Coimbatore, Tamil Nadu 641 035

☎ 0422 – 711 7000 • E-mail: bcsmtk@cripumps.com

Rectangular Type Vibratory Finishing Machines (Trough Vibrators)

Destiny Enviro Solutions continues to strengthen its position in surface finishing technology with the development of its Rectangular Type Vibratory Finishing Machines (Trough Vibrators), specially designed for processing



large, long, and heavy components efficiently. The rectangular trough design allows safe and effective finishing of components that cannot be processed easily in conventional bowl vibrators. This makes the machine highly suitable for shafts, axles, barrels, aluminium wheels, plastic components, and tiles, ensuring uniform deburring, polishing, edge rounding, and surface finishing without damaging the parts. Destiny Enviro Solutions manufactures these machines in capacities ranging from 100 litres to 1200 litres, catering to both small production units and large industrial applications. The machines are built with robust construction, optimized vibration technology, and user-friendly controls to ensure consistent finishing results and high productivity. To meet specific customer requirements, the company also offers customized solutions, including: Sound covers for noise reduction; Advanced control panels for better process control; and Customized machine sizes and configurations based on component dimensions and production requirements. With a focus on innovation, reliability, and performance, Destiny continues to provide high-quality finishing solutions for modern manufacturing industries.

Contact:

Destiny Enviro Solutions Private Limited
246/5 Kuruli Road, Chimbli, Tal-Khed
Pune, Maharashtra 410 501
Mob: 77383 66910 / 90046 24913 / 79773 17153
E-mail: sales@destinyenviro.com

Process Equipments

Centpro supplies a range of Process Equipments like Reactors, Crystallizers, Underground Storage Tanks, Heat Exchangers, Storage Vessels (API 650), ATFE (Agitated Thin Film Evaporator), Distillation Columns, Underground Storage Tanks, e-GMP Pharma Equipments, etc.

Contact:

Centpro Engineering Private Limited
306 Vishal Ventilla Magarpotta Road, Hadapsar
Pune, Maharashtra 411 013
Mob: 83810 32727 / 70286 61818 • E-mail: info@centpro.com

Barrel Pumps

C Bole & Co offers a wide range of barrel pumps like Hand operated, Motorized, Air operated, and Flameproof types. The pumps' MOC is SS 316, Polypropylene, MS, and Aluminium. The pumps can handle a variety of viscous and non-viscous liquids like Solvents, Alkalis, Pesticides, Gasoline, Fuel Oil, Inflammable corrosive liquids, Varnishes, Petroleum Products, Drugs and Pharmaceuticals and Degreasing Agents, Glucose, Honey, Glycerin, Sha-mpoos, Paints and other highly viscous liquids. The company's other products include: Chemical Process Pumps in MOC: SS316/Polypropylene; Gear Pum-ps in Cast Iron/SS 316; Magnetic Pump in SS 316/Polypropylene.

Contact:

C Bole & Co
61 Narayan Dhuru Street, Mumbai 400 003
☎ 2342 4350 • Mob: 93200 99988
E-mail: cboleco@yahoo.com



M Pumps – Metallic Mag Drive Pumps

Shanbhag Engineering Company offers M Pumps – Metallic Mag Drive Pumps. Features: Standards Compliance: Meets standard including API 685/ISO 5199 / ANSI B 73.3 and M Pump manufacturer standard. Material Excellence:



Standard SS 316 MOC, with options to upgrade to material such as SS 316L, SS 317L, Hast C-276, Nickel 200, LLOY 20, etc. Jacketing option available. Different magnet materials and rear can options available. Operation Range: Flow up to 4000 m³/hr., and head up to 220 m temperature from negative 150°C to 400°C. Innovative Containment Shell: Features a patented Hybrid technology, optimizing for minimal temperature rise and reduces magnetic losses, enhancing longevity and efficiency. Close-coupled, long-coupled options available; Flushing options for liquids containing solids, having solid settling issues. The Company also distributes pumps manufactured by DELLME-CO®, Lutz®, boyser®, teryair®, and Jung Process Systems.

Contact:

Shanbhag Engineering Company
B-50 Nandbhuvan Industrial Estate, Mahakali Caves Road
Andheri (East), Mumbai 400 093
☎ 022 – 4036 5700 / 4036 5711 • E-mail: info@shanbhags.com

Automotive Air Duct Hoses

Ace Engineering & Chemicals Private Ltd offers Automotive Air Duct Hoses. Features: It is FRP-based that makes it non-corrosive in terms of finish and long lasting in usage; designed to deliver life-long services. The Hoses are also water proof as well as come in light weight finish, making the ducts easy to handle while cleaning and during general maintenance. Available in single piece construction; and are also superior in appearance and provide necessary air ventilation for meeting the demands of motor cooling.



Contact:

Ace Engineering & Chemicals Private Ltd
102 Nav Regency, 9/3 Navratan Bagh Road
Manorama Ganj, Indore, Madhya Pradesh 452 001
Mob: 98260 61669 / 98260 78922
E-mail: director@aceengineerings.com

Lift UPS

Renutron Power Solutions India Pvt Ltd offers Lift UPS, which is an Off Line UPS has 3 main parts namely – Charger, Inverter and Batteries. As majority of Elevators use three phase power supply, the UPS also is three phase input and three phase output type. It means, the Lift UPS takes three phase supply and feeds to Elevator simultaneously charging the batteries. In case of a power cut, the inverter turns on battery mode and generates three phase output to feed the load. This transition takes place within a time period of 15-20 seconds depending upon the configuration of the variable frequency drive (VFD / V3F) used by the elevator. (Renutron has recently developed a system such that the near zero transfer from utility to battery mode is possible for any type of VF drive) When the mains supply or utility gets restored, the elevator is transferred automatically to mains supply and battery charging starts. Depending upon the size and number of batteries the backup time can be extended from 2-3 Hours up to 8 Hours too. The company established in 1995, with a focus on providing power conditioning solutions for IT industries and automations functioning in unreliable raw utility power supply.



Contact:

Renutron Power Solutions India Pvt Ltd
CS No: 3083/B, E Ward, Lonar Vasahat Galli
Chandran Menon Road, Next to Maharaja Banquet Hall
Vikram Nagar, Shahu Market Yard
Kolhapur, Maharashtra 416 005
Mob: 93717 76979 • E-mail: sales@renutron.com

Industrial Valves

Stilonn Valves And Controls manufactures all types of industrial valves like Ball valves, Butterfly valves and Sight flow indicators. Stilonn Valves uses advanced digital control machine tools, processing and testing facilities to ensure that its products meet customer expectations for reliable performance and quality. The Company designs and manufactures a wide range of SS sanitary valves and fittings such as sanitary butterfly valves, ball valves, check valves; sanitary sight glasses, and sanitary unions, etc. They are widely used in the dairy, food, and beverage, pharmaceutical, cosmetic, and other industrial markets. All these products are manufactured accordance with different surface finishes, materials and industry standards including ISO, DIN, IDF, and SMS.



Contact:

Stilonn Valves And Controls Private Limited
Unit No: 6, Building No-B, 3rd Floor, Gami Industrial Park
Plot No: C-39/a, TTC Industrial Area
Pawne MIDC, Navi Mumbai 400 705
Mob: 90292 39287 / 86557 95716 • E-mail: info@stilonn.com

Dynamic Sealing Pump

Sintech offers Dynamic Sealing Pump. As the largest Dynamic Sealing Pump supplier in India Sintech deals with the best quality Dynamic Sealing Pumps and offers them to clients. These pumps are in compliance with industrial norms and standards and widely demanded in domestic and international markets. Benefits of Dynamic Sealing Pump: These specially developed pump for juice application use no external Mechanical Sealing arrangement. The dynamic sealing pump is the most economical way to substantially reduce maintenance cost and make the pumps absolutely leak proof. Specifications: Capacity Max.: 1,000 m³/hr; Head Max 140 m; Temperature: 160°C; Working Pressure: 40 kg/cm². The Company's products range includes: Dynamic Sealing Pumps, Torque Flow Pumps, Process Pumps, Vertical Sump Pumps, Split Casing Pumps Double Suction, Split Casing Pumps Single Suction 2 Stage.



Contact:

Sintech Precision Products Limited
C-189 & 190, Buland Shahar Road Industrial Area
Site No: 1, P B No: 92, Ghaziabad, Uttar Pradesh 201 001
☎ 0120 – 417 6000 / 286 6320 • Mob: 93190 83345
E-mail: sales@sintechpumps.com

Goliath Cranes

Eddycranes Engineers manufactures ELMECH make single girder as well as double girder Goliath cranes conforming to IS: 807-1976, IS: 3177-1977, IS: 3938-1983 and IS: 4137-1963 where ever applicable.

The Goliath cranes are manufactured up to 150 tonnes capacity and for 40 m span. Each ELMECH Goliath crane is built to suit specific dimensional clearance and technical requirement of the customer. The box type girder construction ensures more torsional rigidity and strength. The Grabbing crane is designed to suite indoor or outdoor location and can also be supplied with Grab buckets, electro magnets. The Goliath cranes are designed to run on forged steel wheels running in L-type housing having antifriction roller bearings. The hoisting machinery consist of square cage/slipring motor, totally enclosed oil lubricated spur/helical gear box, thrustor brakes, geared coupling, rope drum, etc. ELMECH Goliath cranes are suitable for control from floor by means of pendant controller or from driver's cabin by means of master controllers or through radio remote control. The Goliath cranes can also be supplied with cantilever arms to lift over hanging material. ELMECH Goliath cranes are supplied in Cement plants, Thermal and Hydel Power stations, Granite industry, and general engineering industries, etc.



Contact:

Eddycranes Engineers (P) Ltd
3/23 Tardeo A/C Market, Tardeo, Mumbai 400 034
☎ 022 – 2352 2710 / 2352 5103
E-mail: info@eddycranes.com

NSA Non-Ferrous Plate Saw Machine

NSA Engineering Solutions offers Non-Ferrous Plate Saw Machine. Its Features: Advanced control for easy operation; Variable feed speed options; Automatic dust suction system; Servo controlled feed rate; Easy parameters setting with guide; Servo controlled material indexing; LED work light; Automatic lubrication System; Micro-mist coolant. Technical Parameters – Machine Type NSA CD-3200PA; Main motor power: 15 kW; Main motor speed: 3500 rpm; Saw blade size: dia 350 x 30 x 100 T; Cutting profile width: 3000 mm; Cutting profile height: 200 mm; Rated Voltage: 415 V/50 Hz; Rated Air Pressure: 0.6-0.8 Mpa; Machine dimension: (L x W x H): 3740 x 5040 x 1770 mm; Single feeding stroke: 2000 mm. Accessories: Two roller stands, Two n long two saw blades, and a Tools kit.



Contact:

NSA Engineering Solutions
221-R, Model Town, Sonipet, Haryana 131 001
Mob: 93066 26337 • E-mail: info@nsaengineering.com

Chemical Process Pump PCPS – Series

Chemical process pump is an important device for handling of hazardous chemicals in industries. Whether conveyance or use in chemical reactions, chemical products need to be handled efficiently and with care in order to avoid any kind of damage or corrosion occurring at the working place. Chemical process pumps of PPI Pumps Pvt Ltd are the absolute solutions for handling of corrosive or hazardous chemicals in pharmaceutical, chemical and process industries. Available in 1 m³/hr to 100 m³/hr capacities, these are high performance ISO pumps which are compatible for work with different kinds of corrosive liquids. These pumps are available with different kinds of sealing solutions including single mechanical seal for non-corrosive to moderate corrosive liquids; double mechanical seal to handle low flows of abrasive chemicals; bellows seal for handling highly corrosive liquids at extreme temperatures; and cartridge seal for ease of maintenance while handling moderate corrosive liquids. High performance with minimum maintenance and less energy consumption is what PPI chemical process pumps are designed to provide for a much longer period of time for efficiency in industrial processes.



Contact:

PPI Pumps Pvt Ltd
14&16-C, Phase-I, GIDC Estate, Vatva
Ahmedabad, Gujarat 382 445
☎ 079 – 2583 2274 / 3251 6741 Mob: 99040 67775
E-mail: sales@ppipumps.com

Seat for Butterfly Valve

Arvico Rubber Industries supplies Seat for Butterfly Valves. Sleeves or Seat Rings are blockage units that prevents two parts' leakages. The Butterfly valve sleeves offer exceptional blockage in three possible leakage paths – pipe sealing, flanges, and operating shafts. Even minute differences in the surface or size of these sleeves can lead to a loss of efficiency to the customers.



The Butterfly valve sleeves are calibrated precisely, offer exceptionally high pressing actions, and are abrasion-resistance. Size range: 25 mm to 700 mm.

Contact:

Arvico Rubber Industries
104 Shanta Industrial Estate, IB Patel Road
Goregaon East, Mumbai 400 063
☎ 022 – 4972 2865 • Mob: 90822 67081
E-mail: info@arvicorubber.com

VRLA Backup Battery

Z-Power Impex offers VRLA Backup Battery. The features are: maintenance free with especially carefully made with acid electrolyte and pyrogenic silica gel electrolyte; battery grids are cast from lead-calcium-tin-silver alloy with large surface area, along with microporous separators ensures the optimum result in high corrosive resistance and ultra low self-discharge; these VRLA backup batteries provide much more cyclic life than conventional gel batteries and AGM VRLA batteries; due to its gel electrolyte properties, it can be operated well in high ambient temperature conditions. These characteristics make it an ideal choice for solar applications and UPS applications that require longer time power outage back-up under high operating temperatures.



Contact:

Z-Power Impex

SCO-1, Level 1, Delhi Ambala Road, Opp: Park Plaza Hotel
Near Best Price, Zirakpur, Gazipur, Punjab 140 603
Mob: 95178 03304 / 92162 35139
E-mail: info@zpowerbatteries.com

Online UPS-9395

Vertex Power Solutions Pvt Ltd are offering 9355 online UPS, which provides premium double-conversion backup power and scalable battery runtimes for application in the industries like IT, electrical engineering, infrastructure, corporate, healthcare, banking, and industrial; packing maximum battery runtime into a very small footprint makes 9355 UPS a truly complete three-phase power protection solution; compact design with internal batteries, and built-in static and manual bypass switches that deliver a complete solution with reduced footprint and industry-leading power density; reliable backup is further enhanced with advanced battery management (ABM) that by using an innovative three-stage battery charging system significantly extends battery lifetime; highest availability and reliability is achieved with hotsync paralleling technology that enables paralleling up to four 9355 UPSs for additional capacity or redundancy. It comes with an user-friendly LCD interface with wide range of connectivity options makes 9355 easy to use and safe to operate; featuring high system efficiency and power density, the total cost of ownership is reduced significantly by savings in utility costs, transportation, and installation. Vortex is an ISO 9001-2015 Company with over two decades of experience in manufacturing supreme-quality power protection equipments.

Contact:

Vertex Power Solutions Pvt Ltd

No: 38, Sami St, Muthuppalaniappan Nagar
Nagalkeni, Chromepet, Chennai 600 044
Mob: 99400 58974 / 91646 57788
E-mail: manjunath@vertexpower.co.in

Vertiv IGBTBased Online UPS

Offcom Systems offer Vertiv IGBT Based Online UPS. The features are: Liebert ITA Series is a full featured scalable UPS designed to provide long backup time for small computer rooms and network equipment; using true on-line double conversion UPS technology, Liebert ITA Series provides high efficiency and reliability with 0.9/0.8 output power factor that can power 10-30% more load than other ordinary UPS; this UPS offers flexibility with parallelable configuration and extended backup time with external battery cabinets; compatible with two modes: 3-phase mains output single-phase mains output; high-frequency double conversion topology structure, with high input power factor, wide input voltage range, and output immune to grid interference, thus adaptable to areas with unstable mains supply high power densities; tower installation and rack installation are optional to meet different installation requirements capable of eco power supply mode, which helps save energy to the maximum extent flexible network management with emerson monitoring software fan fault self-test and automatic recognition functions SNMP card optional, providing network communication function capable of connecting multiple battery strings, extending the power supply time of battery mode.



Contact:

Offcom Systems Pvt Ltd

A-49, Block A, Sector 5, Noida, Uttar Pradesh 201 301
☎ 0120 - 4278 491 / 4278 492 • Mob: 98112 05605
E-mail: info@offcomindia.com

Grid Connected Solar Inverter

Agni Power offers Grid Connected Solar Inverter. It provides single-phase or three-phase 230 V AC power to a connected load in the presence of a battery or both the battery and PV. Power generated from solar PV is fully utilized to either charge the battery or to cater to the load in conjunction with the grid. This inverter has the capability to export excess PV power to the grid when the battery is full, the load is minimal, and the grid is present. In case of grid failure, it can support the connected load, from either the battery during the night or from solar PV and battery during daylight.



Contact:

Agni Power And Electronics Pvt Ltd

114 Sarat Park, Bosepukur Purbapara, Rajdanga
Kasba, Kolkata 700 107
Telefax: 033 - 4005 1193 • E-mail: info@agnipower.com

Automotive Sprockets

Kundan Lal and Sons are manufacturing premium quality Automotive Sprockets. The features are: used in the transmission of rotary motion between two shafts and also for imparting linear motion to a track; provided with grooves that allow dirt to escape from the tooth, these automotive sprockets have a special design that enables them to be changed quickly; Profile – ASA, BS, DIN, JIS, IS standard; Pitch – ¼", 3/8", ½", 5/8", ¾"; Diameter – 2" to 15" (50 mm to 375 mm); Strands – simplex, duplex, and triplex; Teeth – 10 and above; and superior performance maximum shock absorption; Lightweight and compact; Corrosion resistant; Low vibration and noise levels; High material strength; Minimum torque load. The company manufactures and exports an array of automotive sprockets, automobile gears, and spline shafts.



Contact:

Kundan Lal And Sons
12619 Street No: 4, Vishwakarma Colony, Basant Nagar
Pratap Chowk, Ludhiana, Punjab 141 003
Mob: 98143 05115, 78141 05115
E-mail: klsons@satyam.net.in

Rim Straightening Machine

Sunrise Instruments offers Rim Straightening Machine. Its features are: renowned for its highlighting attributes such as durability, high accuracy and service in wheel refurbishing and excellent service; vibration free and noiseless while working; efficient wheel rim straightener is used for straightening the wheel rim; it comprises a ram and a hydraulic pump for manually operating the ram; assures smooth and easy working of new and advanced RIM straightening machines. The company engaged in manufacturing and exporting of LED display systems, customized display boards, electronic display boards, LED indicators, smart electronic queuing systems, single and tri colour LED displays widely used in various application areas.



Contact:

Sunrise Instruments Pvt Ltd
Sunrise House, Sr Nos: 33/1, 37/1 to 4/3/1
Near Harsh Agro Pipes, Pisoli, Tal-Haveli
Pune, Maharashtra 411 048
Mob: 98900 66773, 98224 93914
E-mail: info@futuressi.com

Nitrogen Inflators for Tyres

Trinity Sales & Services offers Nitrogen Inflators for Tyres. The features are: nitrogen has been the choice for maintaining a consistent pressure in the tires; nitrogen gas generator is an ideal addition to the automotive or tire shop as it is compact, uses minimal shop space, runs quietly, and can be easily mounted; the system creates its own pure N₂ from the air using an internal nitrogen generator and tire nitrogen generator and makes the gas readily available for tire filling on demand; and nitrogen generators are equipped with an automatic shut-off function; 92% to 95% pure nitrogen output; instant nitrogen output, no waiting. The company is a manufacturer, importer, and exporter of a comprehensive range of diagnostic car scanners, wheel alignment machines, vehicle lifts, and other automobile garage equipment.



Contact:

Trinity Sales & Services
Unit No: 567 Gulmohar Building, Agarwal Complex
Mahajan Wadi, Near Mahavishnu Mandir, Mira Road East
NH 08, Thane, Maharashtra 401 104
Mob: 98332 68605 / 93222 78159
E-mail: tss_trinity@yahoo.com

Wheel Alignment Machine WA-50

Sarveshwari Technologies offers Wheel Alignment Machine WA-50 for Light Commercial Vehicles. Features: this machine has smart key LCD real-time toe-in, camber display; level indicator; battery percentage display; battery status indicator; low battery warning light. Standard features include: Adjustment indicator on sensor head; calibration value backup in sensor heads; long service life; professional high accuracy 6 metre wheel base, 8 toe sensors, fastest and stable data transfer, 24 inch clamps; super large data bank; automatic detect low chassis interchangeable sensor heads two wheel mode (front). The company provides complete comprehensive solutions for the tyre maintenance.



Contact:

Sarveshwari Technologies Ltd
355 Deepali, Pitampura, New Delhi 110 034
☎ 011 – 2702 3750, 2702 1499
E-mail: info@garageequipments.com

Visit us at: www.ips.co.in

Solar & Battery-Operated DC Water Pumps

Engineered for continuous duty, energy efficiency, and reliable operation in demanding industrial and mobile applications. MOTHER DC Water Pumps are designed for mission-critical fluid circulation, transfer and spraying applications. Built with industrial-grade components and optimized hydraulic design, these pumps deliver consistent performance in mobile equipment, renewable energy systems, and remote installations where AC power is unavailable or impractical. Features: Continuous duty (S1) Operation; High-Efficiency PMDC Motor Design; Compatible with Battery and solar Power Systems. Technical Overview – Pump Type: Regenerative Centrifugal DC Pump; Operation: Self-Priming; Motor Type: Permanent Magnet DC (PMDC); Voltage Options: 12 V / 24 V / 36 V DC; Continuous Duty Rating: S1; Suction Lift: Up to 6 m (Model Dependent); Typical Connection Size: 1" BSP; Typical Head Range: Up to 20 m; Typical Flow Range: Up to 50 LPM; Power Source: Battery/Solar Panel; Mounting: Foot mounted/Equipment Integrated. Applications: Mobile and Vehicle-Mounted Equipment; Environmental and Utility Equipment; Renewable Energy Systems; OEMs and System Integrators; Industrial and Process Equipment; Rural and Development Projects.



Contact:

Mother Motors

**DC Pump & Motor Division, Kharadi
Pune, Maharashtra 411 014**
☎ 93260 53216 / WhatsApp: 91756 37448
E-mail: mothermotors@gmail.com

Transformer Oil Pumps

Ajay Engineers offers Transformer Oil Pumps. This Centrifugal monoblock (pump and motor have been combined to form a single unit) type pump fitted with single stage closed impeller in volute casing having axial end suction and vertical centerline delivery. Compact in design, can be arranged for horizontal or vertical mounting, totally enclosed and having no glands. The Company manufactures, supplies and exports centrifugal pumps and AC induction motors of various specifications; and has vast experience in design, development and manufacturing of centrifugal pumps.



Contact:

Ajay Engineers

**Phase-I, Plot No: 269, Opp: Road No: 4, Kathwada GIDC Este
Odhav, Kathwada, Ahmedabad, Gujarat 382 430**
Mob: 92277 92099 • E-mail: contact@ajayengineers.com

Kitz Butterfly Valves

Zenith Trading Co offers Kitz Butterfly Valves. The features are: in order to fulfill the ever changing demands of their clients, they have been engaged in offering a quality range of kitz butterfly valves; these valves are widely appreciated for their durability, resistance against rust, and smooth working; the products are developed under the supervision of experts, employing the latest technological machines and tools. Moreover, these valves are tested on various parameters before the final delivery in order to offer a tested range to their clients; their features include: handles for extreme pressure; efficient design; dimensional accuracy; a fine finish and workout; a rigid and sturdy design; negligible pressure loss; and everlasting superior performance. The company is a one of the most well known dealers, manufacturers, wholesalers, traders, and retailers of kitz valves, water meters, industrial valves, metal valves, electromagnetic flow meters, and much more.



Contact:

Zenith Trading Co

29/61 Sembudoss St, Parrys, George Town, Chennai 600 001
☎ 044 – 3295 7270, 2522 9760
Mob: 98411 30142 • E-mail: kaizardhaman@vsnl.net

Clear Water Pumps

Darling Pumps Pvt Ltd offers Clear Water Pumps. The features are: these darling openwell submersible pumps are not only unique in design but are also very compact, sturdy, and highly reliable. Offered pumps up to 120 HP and head range up to 140 mtrs.; these pumps come with mechanical seal and ball bearing designs and thus can be installed in inclined positions as well; these pumps can be customized for oil-filled motors or air-filled motors as well; their applications include: this range of darling open well submersible clear water pumps consists of S and M series pumps. These pumps are not only ideal for various agricultural applications but are also very popular for many industrial applications as well. The company, with its expertise spanning over 35 years, has been the chief architect of the submersible pump revolution in India. With every new and innovative product line, it has set a benchmark for others to follow and has thus always kept one step ahead of the market.



Contact:

Darling Pumps Pvt Ltd

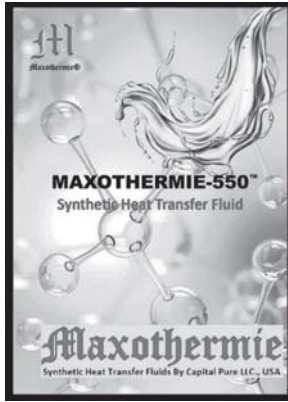
**340/2 Tigaria Badshah, Nr: Agarbatti Complex
Sanwer Road Indl Estate, Indore, Madhya Pradesh 452 015**
Mob: 99819 92833 • E-mail: dpplin@darlingpumps.in

Maxothermie® Heat Transfer Fluids

Nirmal Energy offers Maxothermie® Heat Transfer Fluids. The Power of Efficient Heat Management! Whether you are working in high-temperature or low-temperature environments, Maxothermie®-550; Maxothermie®-600; Maxothermie®-660; Maxothermie®-VPI; and Maxothermie®-FP are designed to offer exceptional thermal stability and performance. Here's why Maxothermie is the preferred choice for industries around the globe: Superior Thermal Efficiency: Maxothermie fluids are engineered to deliver optimal heat transfer efficiency, minimizing energy consumption and maximizing system performance. With Maxothermie-550 and Maxothermie-660, you can maintain precise temperature control even in the most demanding applications. Wide Operating Range: Maxothermie range of heat transfer fluids are designed to perform across a broad temperature range, ensuring stability in extreme conditions. From -40°C to 400°C, you can rely on these fluids to meet your specific process temperature requirements. Enhanced Stability: Maxothermie fluids are formulated with advanced chemical compositions that provide excellent oxidation and thermal stability. This reduces the risk of system fouling, ensuring longer fluid life and reducing the need for frequent maintenance. Varied Heating Applications: Ideal for a variety of industries such as Chemicals, Textiles, Polyester, Plastics, Pharmaceuticals, and Energy so on. Maxothermie fluids support a wide range of applications, including heating, cooling, and temperature control in both closed and open systems. Environmentally Friendly: Non-toxic, non-flammable, and free of harmful components, making them safer for both workers and the environment. Key Features and Benefits: High oxidation and thermal stability; Excellent Heat Transfer Coefficient and efficiency; Wide temperature range for versatile applications; Miscible/Mixable with any good mineral or synthetic thermic fluids; Reduced maintenance costs; Longer fluid lifespan; Eco-friendly and safe for the environment; Expert advice on systems and solutions. Upgrade your heat transfer system with Maxothermie and experience top-tier performance. Say goodbye to inefficiencies and costly maintenance – choose the fluid that powers your process efficiently and safely! Nirmal Energy is looking for experienced dealers with strong local market access, application knowledge, and strong financial capacity to stock and sell, and sales and marketing of Maxothermie range of products across industrial hubs of India.

Contact:

Nirmal Energy Limited
402 ISCON Elegance, Prahladnagar
S G Highway, Ahmedabad, Gujarat 380 015
☎ 079 – 6616 8944 • Mob: 98258 04923 / 99789 84510
E-mail: info@nirmalenergy.com/salesadmin@nirmalenergy.com



Wire Rope Hoists

Tacklers Engineering Pvt Ltd (formerly known as Techno Industries) offers Wire Rope Hoists. Features: Modular lightweight construction and compact designed hoists with very low head room; Hoisting gearbox, motor and brake is in one single compact unit eliminating coupling and alignment problems; All gear drives are made in Germany and are life time lubricated; Two speed hoisting drive in 6/1 ratio with built-in flywheel and soft start/stop feature; Extremely low noise levels during operation; All motors are pole changing crane duty with Class F insulation; DC brakes with a minimum of one million maintenance free operation; Wide, large diameter steel wheels with permanently lubricated bearings; Equipped with two upper and two lower position geared limit switches; Heavy duty wire rope guide for rope guidance; Easy to service electrical control system; All controls mounted in IP 54 panel enclosure; Variable frequency drive is available as an option on hoist as well as cross travel drives; Overload limit switches, and Remote control pendant are available as an option. Available in load range from 2 Tonnes to 25 Tonnes in different class of duties and lift and hoisting speeds.



Contact:

Tacklers Engineering Pvt Ltd
Plot No: 613, Phase-IV, GIDC, Vatva
Ahmedabad, Gujarat 382 445
☎ 079 – 4032 3330 • Mob: 93287 39901, 93770 39904
E-mail: info@technoind.com

Automotive Shafts

Kalsi Engineering Company offers Automotive Shafts, which are used in automobile industries and other related industries. Features: the shafts are manufactured using high grade raw material and advanced technology in line with industry standards; as to maintain the quality, the shafts are tested on different parameters by quality examiners; keeping in mind varied demands of clients. The Company offers these shafts in diversified sizes and shapes; and its features include: dimensional accuracy; rust free; optimum durability. Kalsi is a manufacturer, exporter, trader and supplier firm for automotive axles and gear shafts. A wide range of product offerings includes axle shafts, bevel gears and pump shafts.



Contact:

Kalsi Engineering Company
C-64, Mayapuri Industrial Area, Phase II
Mayapuri, New Delhi 110 064
☎ 011 – 2811 6427, 2811 6704
Mob: 98102 77090 • E-mail: info@jimigears.com

Chemical Dosing Pump

Abhinav Engineering is amongst the reputed organizations indulged in manufacturing, supplying and service providing a world-class collection of Chemical Dosing and Agriculture Water Pumps. Some of the products offered are Dosing Pumps, Chemical Dosing Pumps and Positive Displacement Pumps. Manufactured making uses of best grade raw material and highly sophisticated tools and technology, these offered products



are in tune with the industry set norms and quality guidelines. Known for their uses in various industries, these offered products are highly demanded. Product Details: Max Flow Rate: 0-4000 liters/hr; High Pressure: 98 kg/sq – 275 kg/sq.cm; Usage: Chemical Dosing; Head and Model: Customized. Keeping in mind the requirements of our esteemed clients, we are providing excellent quality range of Chemical Dosing Pumps. The offered ranges are manufactured utilizing quality assured raw material and modern machines. These Chemical Dosing Pumps are well known in the market for its optimum quality and flawless range. On being custom built, these easily meet with various requirements of the clients. Features: Minimal maintenance; High performance; longer service life. Focal Points: Easily Compatible with most of the fluids; High Flow rates of 0-4000 ltr/hr.; High Pressure of 98 kg/sq. - 275 kg/cm². Simplex and Multiplex arrangements of pumps with common drive available for universal use; Flow Rate is linear to stroke length variations; Flow Metering Accuracy is almost independent of back pressure of liquid; Discharge flow rate is linear to aeration of stroke length; It can achieve flow rates up to 4000 ltr/hr., and delivery pressures up to 275 kg/sq.cm. Steady state metering accuracy of $\pm 3\%$ of pump output; Plunger is in SS 316 and hard chrome plated. Specialty of the Company is sophisticated testing arrangement in every step of manufacturing; and provides after sales service and prompt supply of spares to customers.

Contact:

Abhinav Engineering Works
W-85/A, MIDC Area, Satpur, Shramik Nagar
Nashik, Maharashtra 422 007
Mob: 80489 60824 • E-mail: info@deepakengw.com

Pumps & Systems

Dharani Pumps manufactures a range of pumps such as Self-Priming pumps, Borewell Submersible pumps, Sewage and Sludge pumps, Swimming Pool pumps, Pressure Boosting pumps, Centrifugal pumps, Open well Submersible pumps, De-watering and Slurry pumps, etc.

Contact:

Dharani Pumps & Motors
S F No: 328, Kalapatti Road, Coimbatore, Tamil Nadu 641 048
Mob: 95009 79630, 77080 69630 • E-mail: enquiry@peindia.net

Eccentric Disc Pumps

Mascot Systems Private Limited offers Eccentric Disc Pumps in different Series. Eccentric movement technology is at the core of Mouvex®. Mouvex founder, Andre Petit, identified the challenges that gear pump and lobe pump users were facing in optimizing their process and invented the eccentric disc pumps as a result. Mouvex® G-FLO Seal-Less Eccentric Disc Pumps offer premium performance and complete containment for chemical and industrial applications. Key features include: High flow rates – up to 70 m³/h (300 gpm), 10 bar (145 psi). Mouvex® C Series Eccentric Disc Pumps are perfect for air and shear sensitive products. With a seal-less design and double stainless-steel bellows, they ensure durability and safety. High suction and discharge pressures enable self-priming and full line stripping for optimal product recovery. Applications: Food, Beverage, Cosmetic and Pharmaceutical. The Company also offers Seal Less Pumps H-Flo Series, S Series, and Micro C Series.



Contact:

Mascot Systems Private Limited
801 Ambience Court, 8th Floor, Plot No: 2, Sector-19D
Palm Beach Road, Vashi, Navi Mumbai 400 703
☎ 022 – 4122 6500 / 4122 6501
E-mail: sales@mascot-systems.com

Mechanical Pneumatic Level Control MPN

Machine House (India) Pvt Ltd offers Mechanical Pneumatic Level Control MPN. Bilz level control systems are significant components in the optimum function of vibration insulation using FAEBI® and FAEBI®-HD rubber or BiAir® membrane air springs. They prevent impermissible and undesired deflection of the insulators or an out-of-level condition of the machine that can be caused by load changes on an air spring mounted machine or system. Rapidly adding or venting air enables the air pressure within the air spring to be matched to the respective load, automatically controlling the height of the individual air springs. This enables the highest degree of stability and effective insulation even with changes in the centre of gravity.



Contact:

Machine House (India) Pvt Ltd
D/1/18, MIDC, Ambad, Nashik, Maharashtra 422 010
☎ 0253 – 237 0662 • Mob: 98223 95213 / 99229 94859
E-mail: bilzindia@gmail.com

Flat Submersible Cables (3-Core)

Empire Cable Industries is India's leading manufacturer of a wide range of electrical PVC insulated wires and cables, which are used by quality conscious electrical contractors and recommended by leading consultants, architects, and builders for projects, domestic, industrial and agricultural wiring for trouble free working. These connecting cables are used for submersible pump motors; and are manufactured keeping in mind the severe and difficult conditions in which they are required to perform. The individual conductors are made from bright electrolytic grade copper; and drawn, annealed and bunched properly to ensure flexibility and uniform resistance. Each of the 3 copper conductors is insulated with special PVC compound. The cores are laid up in flat parallel position. The outer sheath of the cable is made from a special grade of abrasion resistance PVC compound impervious to water, grease, oil, etc.



Contact:

Empire Cables Industries Pvt Ltd
115 Phase II, Badli Industrial Area, Delhi 110 042
☎ 011 – 2789 3424, 2386 8832
E-mail: empirecables@yahoo.co.in

Chemical & Oil Guard Gloves

Sawalka Kel Pvt Ltd offers a range of Chemical and Oil Guard Gloves like Oil Grip Gloves NITRICHEM: 18G fine seamless knitted gloves; Double dipped nitrile coated; Palm sandy finish for better grip; and EN388:2016-4121A. Oil Protection Gloves NITR1/FDL/528: 15G Nylon liner with Spandex; Fully coated with nitrile; Palm sandy finish for better gripping; EN388:2016-4132X; Chemical Protection Gloves Cut Levels 5/D NITRICUTS: 13 Gauge Seamless knitted gloves; HPPE Shell and Glass fibre liner; Sandy nitrile on Palm and fingertips; EN388:2016 – 4X43D; Chemical Reusable Gloves; Chemical and Cut Protection Glove – Level E; Disposable Gloves; etc.



Contact:

Sawalka Kel Pvt Ltd
5A, Robinson Street, 3rd Floor, Kolkata 700 017
☎ 033 – 2287 8117 • Mob: 70440 90501
E-mail: gloves@sawalka.net

Rotary Valve

Roto Tech Engineering Systems offers Rotary Valve. The basic use of the Rotary Airlock Feeder is as an airlock transition point, sealing pressurized systems against loss of air or gas while maintaining a flow of material between components with different pressure and suitable for air lock applications ranging from gravity discharge of filters, rotary valves, cyclone dust collectors, and rotary airlock storage devices to precision feeders for dilute phase and continuous dense phase pneumatic convey systems. Rotary Valve Rotary airlock feeders/rotary airlock valves are used in pneumatic conveying systems, dust control equipment, and as volumetric feed-controls. The benefits of Roto Tech Rotary Airlock Valves and Feeders: These Valves are used in a wide range of applications, where there is need to minimize system air loss while transferring material between vessels with differing pressures; They are used as feeder valves to meter the flow of material between vessels with equivalent pressures; Also doing double duty in systems where there is a need to minimize system air or gas loss while regulating the flow of material between vessels with differing pressures.



Contact:

Roto Tech Engineering Systems
D/F 57, Bhagyoday Shopping Center
Nr: Bethak, Naroda, Ahmedabad, Gujarat 382 330
Mob: 90160 75167 / 99781 01936
E-mail: rototechengg@yahoo.com

Automobile Gas Saver

S Vagadia Innovatives offers Automobile Gas Saver, which is developed using high quality raw material and adhere to quality norms; they have a wide demand and are provided in different specifications, including different sizes and as per the needs of customers; the product is precisely engineered; optimum quality; compact size; and delivered on schedule. The company is one of the leading manufacturers and suppliers of a superior range of gas saver equipment. The product range comprises gas stoves, gas conservators, gas lighters and many more.

Contact:

S Vagadia Innovatives
Plot No: 7, Survey No: 238, Malai Street
Veraval, Rajkot, Gujarat 360 024
Mob: 99251 25625
E-mail: info@svinnovatives.com

Visit us: www.industrialproductsource.com
to view our e-magazine

Pump for Corrosive & Abrasive Fluid Services

Alfa Pumps (P) Limited offers Dryrun-proof TNP Series vertical cantilever pumps, which are the solution of choice whenever it comes to pumping solids-laden acids, alkalis or chemically contaminated effluents or when there is a risk of prolonged dry running. Features: Vertical centrifugal pump with volute casing and single-entry, single-stage radial impeller; without bottom bearings; the shaft bearing is located outside the path of the fluid pumped. Impeller is positively locked to the shaft for reverse rotation protection; Circular or rectangular sole plate; special sole plate geometries and sole plates with supporting flange available on request. Duty Conditions – Capacity (Q): Up to 200 m³/hr; Head (H): Up to 60 m; Opt temperature: -30 to 125°C; Opt. pressure (p): up to 6 bar; Discharge size: DN 25 to DN 65. User-friendly design, no measurement, no adjustment, no special tools and no special skill required for installation and maintenance.



Contact:

Alfa Pumps (P) Limited
58-59 Shreenathji Estate, Bakrol (Bujrang), Daskroi
Ahmedabad, Gujarat 382 430
Mob: 95120 26134 / 951 20 26129
E-mail: contact@alfapump.com

Ball Valve, 3-Piece Flanged End

Rasaii Flow Lines offers Ball Valve, 3-Piece Flanged End. Features: Full bore and reduced bore (CI/DI/WCB/CF8/CF8M/CN7M/CF3/CF3M/Hastelloy B&C/CZ100). Design Standard: BS 5351/EN ISO 17292/ASME B16.34; Pressure Class 125, 150 and 300; Size: 15 mm to 150 mm – 3-piece design; Body: ASTM A 351 Gr CF8/CF8M; Trim: AISI 304/304L/316/316L; Seat: PTFE/Peek; Rating: ASME Class 150/300; Face to Face: ASME B16.10; End: ASME B16.5; Testing Std.: BS 6755-1/API 598; Optional: Fire Safe – API 607; Mounting Pad – ISO 5211. User areas: Refineries, Petrochemical, Fertilizers, Sugar, Paper industry, Steel, Cement, Pharma, Waste Water, Food, and Power Plants, etc.



Contact:

Rasaii Flow Lines Pvt Ltd
Ferndale, 1st Avenue, RWD Palm Layout
Nr: Gayathri Nagar, Medavakkam, Chennai 600 100
Mob: 93848 00896 / 93848 00897
E-mail: admin@rflvalves.com

Roots Vacuum Pumps

Toshniwal Instruments (Madras) offers Roots Vacuum Pumps. The Roots-type pumps belong to the group of positive displacement delivery pumps. Two symmetrical pistons having an eight feature, housed in the pump body, rotate in opposite directions with no contact neither between each other or with the pump body, meshing continuously. The pistons are driven by a set of gears with synchronized rotation, which guarantees friction free movement. During rotation, a progressively growing space is created with corresponds to the suction stage: phase 1 and 2, being gradually decreased phase 3 and 4, compressing the volume of gas. This cycle is repeated four times per each complete rotation of the drive shaft.

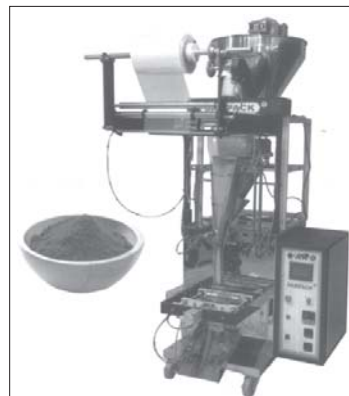


Contact:

Toshniwal Instruments (Madras) Pvt Ltd
267 Kilpauk Garden Road, Chennai 600 010
☎ 044 – 2644 8983 • Fax: 044 – 2644 1820
E-mail: sales@toshniwal.net

Pneumatic FFS Machine – Weigh Filler

Sampack India Corporation offers Pneumatic FFS Machine – Weigh Filler. This machine is Auto Weighing, Filling, Sealing, Coding, Batch Cutting, Counting all in one machine. One special feature is that in this machine you can produce the packets ranging from 10 g to 1000 g, and it is suitable for packing Rice, Sugar, Dal, Grains, Granular products, Millet, Whole Grains, Vegetable Seeds, Tea, Alfalfa, Dried Fruits, Nuts, Herbs, Spices and all kinds. Specifications –Max Capacity: 10 g to 1 kg; Filling System: Weigh Metric; Accuracy: +2 g based on products; Packing Speed: 5 to 10 packs per minute; Control Panel: PLC; Contact Parts: SS 304; Electricity Consumption: 4 kW; Power Supply: AC 220 V; Hopper Capacity: 35 kg (for Rice and Dal); and Gross Weight: 380 kg. Sampack India Corporation is a manufacturer and exporter of Automatic Packing Machines, Powder Pressing machines, Chips and Snacks Packing Machines, Granules Packing Machines, Grains and Pulses Packing machines, Liquid Packing Machines, Peanut Bar and Cake Packing Machines, Spices Packing Machine,



Contact:

Sampack India Corporation
No: 16, NGR Street, PN Palayam
Coimbatore, Tamil Nadu 641 037
☎ 0422 – 495 8111 • Mob: 94478 14433
E-mail: cbe@sampackindia.com

Goliath/Gantry Cranes

Tacklers Engineering Pvt Ltd (formerly known as Techno Industries) manufactures Goliath/Gantry Cranes. TACKLERS' heavy duty Gantry Crane is the ideal material han-



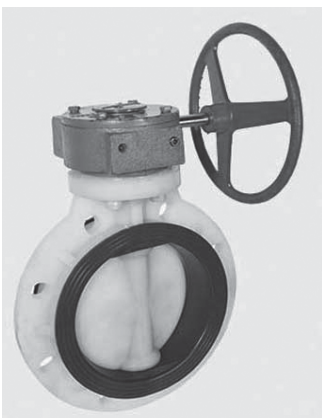
dling equipment for various industries and project like maintenance Factories, Power Stations, Large Water Works, Railway Yards, Harbours, Warehouses, Construction Sites, Transporters, Mines, Quarries, Heavy Fabrication Units, Contracting Firms, etc. It finds numerous applications such as loading and unloading trucks, heavy pipe laying in trenches, erection of bulky equipment, shifting of heavy load, etc. The Crane capacity is from 1 ton to 80 tons.

Contact:

Tacklers Engineering Pvt Ltd
Plot No: 613, Phase-IV, GIDC, Vatva
Ahmedabad, Gujarat 382 445
☎ 079 – 4032 3330 • Mob: 93287 39901, 93770 39904
E-mail: info@technoind.com

Butterfly Valve

Nirmala Pumps & Equipments offers a wide range of Butterfly Valve. The features are: butterfly valve design is an essential aspect which controls the flow of fluid through a piping system; it has a quick opening and closing quarter-turn function that controls the flow of gases or liquids. Butterfly valve typically pivots on an axis perpendicular to the direction of flow inside the flow chamber and is situated on a spindle that allows for flow in a single direction; this valve is frequently used as a throttling device which controls the level of flow in entirely closed/opened or partially opened positions; and they offer butterfly valves in various materials such as PVC, aluminum, stainless steel, ductile iron, carbon steel etc. The company established in 1989, is acclaimed for the manufacturing and supplying broad spectrum of Pump and Valve.



Contact:

Nirmala Pumps & Equipments
Shed No. 74-75, Gangotri Estate, Near Vatva Ramol Circle
Phase IV, Ahmedabad, Gujarat 382 445
Mob: 84012 62518 • E-mail: sales@nirmalapumps.com

Centrifugal Monoblock Pump

Toshio Technology Pvt Ltd offers Centrifugal Monoblock Pump. Its Features: Axial inlet and radial outlet; Single stage monoblock design; Dynamically balanced Rotor and Impeller; Pumps available with 2880 and 1450 rpm; Good quality Bearing. Technical Data – Flow Range: Up to 135 m³/min; Maximum Head: Up to 76 m; Liquid Temperature: Up to 40°C; Frequency: 50 Hz; MOC:



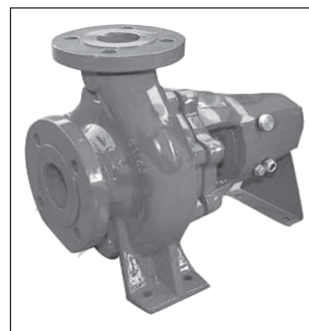
Cast Iron, SS304 and 316. Applications: Chillers, Gardening and Nurseries, Domestic Water Supply, High rise Buildings, Hotels and Hospitals, Agriculture, Irrigation, Drip and Sprinkler Systems. The Company is an STP/ETP Pumps and Aerator Specialist, and its products range includes: Submersible Vortex Sewage Pump in Different Series, Submersible Grinder Pump, Effluent Pumps, Drainage Pumps, Dredging Pumps, Submersible Mixer, etc.

Contact:

Toshio Technology Pvt Ltd
Unit 1, 601/D, Wifi Park, Road No: 1, Above Satkar Grande
Opp: Aplab Co, Wagle Indl Estate, MIDC
Thane, Maharashtra 400 604
☎ 022 – 2582 8400 • Mob: 91672 02692
E-mail: sales@toshiotechnology.com

Horizontal Pumps

Plastico Pumps offers. The features are: temp. up to 120°C; suitable with V-belt drive or direct coupled with a motor; a heavy duty shaft, sturdy construction, simple design, back pull out design; micro metric wears adjustable facility hence, works at constant head for a longer period; non-clogging and handles solids up to 10 mm, The company manufacturers of Horizontal Pumps. These are horizontal pumps: end suction, horizontal, centrifugal coupled pumps with semi open impeller.



JCP pumps are centrifugal semi open impeller type pumps smaller volume using less floor space. Horizontal Pumps Operating Range: Capacity : up to 40 m³/hr, Head : up to 48 hrs, Size : 25 mm to 65 mm, Temperature : 80°C, Speed : up to 3500 rpm, Pressure : up to 5 Kg/cm, M.O.C : C.I, C.S., SS-304/304L SS 316/316 L, Bronze, Alloy-20, CD4MCU, Hast alloy B & C, etc.

Contact:

Plastico Pumps
199/2 GIDC Estate, B/h: Bank of Baroda
Nadesari, Vadodara, Gujarat 390 010
☎ 0265 – 2840 787 • Mob: 98250 69165 / 94287 64521
E-mail: plasticopumps@gmail.com

Process Equipment

John Galt International manufactures and supplies a range of Process Equipment such as Storage Tanks and Bullets, Pressure Vessels and Reactors, Heat Exchangers, Distillation Columns, and Boilers. Products Range – Storage Tanks, which are made of aluminium, stainless steel and carbon steel. Shell and Tube Type Heat Exchangers: Material of Construction – Austenitic Stainless Steel (All 300



SS - 316L Heat Exchanger

Series); Carbon Steel, Hastelloy; Monel; Cu-Ni Alloys; Duplex; Alloy Steel; Inconel; Nickel 200; Titanium; Super Duplex. Specifications – Shell diameter: Up to 5000 mm; Shell thickness: Up to 40 mm; Overall Length: Up to 40 m; Tube Sheet Thickness: Up to 1 m; Max Pressure: 300 bar; Heat Transfer Area: 1 m – 3000 m²; Maximum weight: Up to 300 MT. Aluminium Storage Tanks – 75 kl, and 200 kl; and High Pressure Autoclave Systems. The Autoclave Systems are used to impregnate copper with graphite. End application is for creating contact points with high voltage lines on railway pantographs.

Contact:

John Galt International
Plot B-21/F-2, MIDC Industrial Estate
Badlapur, Dist: Thane, Maharashtra 421 503
☎ 0251 – 269 0120 / 269 1420 • Mob: 98203 25285
E-mail: abhay.bhatic@johngalt.in

Ball Valve, 3-Piece Flanged End

Rasaii Flow Lines offers Ball Valve, 3-Piece Flanged End. Features: Full bore and reduced bore (CI/DI/WCB/CF8/CF8M/CN7M/CF3/CF3M/Hastelloy B&C/CZ100). Design

Standard: BS 5351/EN ISO 17292/ASME B16.34; Pressure Class 125, 150 and 300; Size: 15 mm to 150 mm – 3-piece design; Body: ASTM A 351 Gr CF8/CF8M; Trim: AISI 304/304L/316/316L; Seat: PTFE/Peek; Rating:



ASME Class 150/300; Face to Face: ASME B16.10; End: ASME B16.5; Testing Std.: BS 6755-1/API 598; Optional: Fire Safe – API 607; Mounting Pad – ISO 5211. User areas: Refineries, Petrochemical, Fertilizers, Sugar, Paper industry, Steel, Cement, Pharma, Waste Water, Food, and Power Plants, etc.

Contact:

Rasaii Flow Lines Pvt Ltd
Ferndale, 1st Avenue, RWD Palm Layout
Nr: Gayathri Nagar, Medavakkam, Chennai 600 100
Mob: 93848 00896 / 93848 00897
E-mail: admin@rflvalves.com

Dual Plate Check Valves

Jayant Engineering & Marketing Pvt Ltd offers Dual Plate Check Valves. Design Features: Design by Wire; FEM Stress Analysis; CFD – Computational Fluid Dynamic Software helps to achieve Low-

Pressure Drop, High Cv Design; Retainer less Design is intrinsically Fire Safe; Stellited Lapped Seat; High Performance Spring Design; Shock Bumper Prevents Slamming with Spring and Pins; Serrated Finish 125-250 AARH or RTJ as per requirement; No Fugitive Emission. Applications: In downstream



of pump, prevents flow reverser; In wellhead injection lines, for Oil Rigs and Platforms; In Gas and Oil Processing plants and refinery on Delivery/Discharge side of pumps; For LNG and Chemical storage tank, use on discharge side of pump to prevent backflow. The Company provides services across a broad spectrum industries like Oil and Gas, Chemicals, Petrochemicals, Fertilizers, Power Plants, Paper industries, Refineries, Atomic Energy Plants, Building Equipment, Water and Waste Water industries. The products range includes: Gate valves, Globe valves, Swing Check valves, Forged Steel valves, Pressure Seal valves, Butterfly valves, Ball valves, Dual Plate Check valves, etc.

Contact:

Jayant Engineering & Marketing Pvt Ltd
Plot No: 2003/2004, Phase II, GIDC Chhatral
Tal: Kalol, Dist: Gandhinagar, Gujarat 382 729
☎ 02764 – 234 053 / 232 182
E-mail: sales@jayantvalves.com

Punches & Dies

Rukmani Industries manufactures a range of Punches and

Dies: Punches for 3D punching machine; Heavy Punches - Soenen machine; Dies of Soenen Punching machine; Punches of Hydraulic press; Punch for Angel and CNC Punching machine; Dies of different shapes; Micro Punch and Pilot, Coated; Punches of Hydraulic Press; HSS Punch; Coated Punches, Tungsten, Alcrona, Copper, etc; Pin Punch and Injector Pin, etc.



Contact:

Rukmani Industries
9 Usha Nagar, Nr: ICICI Bank, Indore, M P 452 009
Mob: 99772 17244 / 98277 77791 / 89620 59197
E-mail: sachin@rukmaniindustries.com

Submerged Sump Pumps for High Temperatures

Egger Pumps India Pvt Limited offers Submerged Sump Pumps for High Temperatures. Molten salt for heat transfer, hardening salt, liquid sulphur or hot slop must be pumped at temperatures between 150° and 450°C. These partly sluggish liquids are usually pumped from pressure-free containers. The temperature, pour point, solid matter, corrosive attack or high vapour pressures normally require sealless submerged sump pumps with customised design details. For safety reasons, a dry-installed pump is not recommended and problematic due to the sealing of the shaft. Egger's high pressure and temperature series is the solution. Egger has developed a special high temperature series for these kinds of applications. Depending on the application, the cantilever design (without bearing and without shaft sealing) or the high temperature submerged sump pumps are used. In the case of granulate media the temperature of both types can be adjusted.



Contact:

Egger Pumps India Pvt Ltd
SF No: 206, Kannampalayam (PO), Suler (Via)
Coimbatore, Tamil Nadu 641 402
☎ 0422 – 268 9855 • E-mail: info.india@eggerpumps.com

Rotary Airlock Valve

Nutshell Engineers offers Rotary Airlock Valve. The features are: the prime function of a rotary airlock (rotary valves) is to regulate the flow from one chamber to another while maintaining a good airlock condition. The product is mainly in dry powder or granular form; in the dust filtration field, a good airlock is essential on cyclone and bag filter applications in order that the manufacturers quoted high dust collection efficiencies can be maintained. Airlocks are also important in the pneumatic conveying industry, where products are regulated into a pressure or vacuum conveying line while minimising air leakage. The company is a premium manufacturer, importer, trader, and exporter of flexible connections, relief valves, safety valves, explosion vents, rupture discs, flame arrestors, etc. Manufactured in accordance with industry-set norms and regulations, these products are known for their seamless finish, dimensional accuracy, longer functional life.



Contact:

Nutshell Engineers
F-18, Basaveshwar Industrial Premises Vishweshwar Chowk
Plot No. 2, Sector 10, Thergaon, Pune, Maharashtra 411 026
Mob: 94220 17122, 77740 61105
E-mail: info@nutshelleng.in

Butterfly Valves

Maruti Industries offers Butterfly Valves with Electropneumatic Positioner, Butterfly Valve with Pneumatic Actuator, Lever Operated Butterfly Valve, and Gear Operated Butterfly Valve. Technical Data – Manufacturing Standard: ISO 5752/BS5155/API 609/IS 13095; Inspection and Testing Std: BS 6755 (Part-1)/API 598/EN 12266-1; End Connection: Wafer to suit ANSI B16.5 150#/ANSI 125#; BS to Tab D&E/IS 6392 NP 0.6/1.0/1.6; Face to face: BS 5155/ISO 5752/API 609; Top Flange Drilling: ISO 5211. The Company's products range includes: IC Knife Edge Gate Valve, Knife Edge Gate Valve with Pneumatic Operating, and Manual operating.

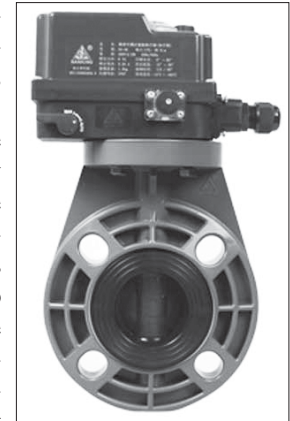


Contact:

Maruti Industries
119 Vikas Est, Nr: Municipal School, Anil Starch Mill Road
Bapunagar, Ahmedabad, Gujarat 380 024
Mob: 99044 66842 / 98983 74361
E-mail: marutivalves@yahoo.com

Electric Actuated Butterfly Valve

Trisha Engineers offers Electric Actuated Butterfly Valve. The features are: this plastic actuator body passes impaction and acid-base tests and also meets SGS. Valve position can be adjusted from 15 degrees to 90 degrees. The assembly of actuators and valves meets the EN ISO 5211 standard. Improved PP disc to enhance the performance. Thickened body and seal to extend the service life. Materials meet drinking water standards; the material has been modified by nanometers to improve the pressure resistance and impact resistance. Raw materials add anti ultraviolet absorbent and antioxidants, improving durability and aging resistance. The company is a leading supplier of quality sinking thermoplastic products, including PVC / PP / CPVC valves, pipes, and fittings. They cater to various industries like water treatment, metal finishing, chemicals, swimming pools, and spas.



Contact:

Trisha Engineers
#11, Sri Nivasam, Bull Temple A Cross, Behind Uma Theatre
6th Main, Chamrajpet, Bengaluru, Karnataka 560 018
☎ 080 – 2661 4315 • Mob: 93412 70830
E-mail: trishaengineers@yahoo.com

Hydraulic Bending Press

Hercules Roll Forming offers an extensive range of Hydraulic Presses commonly referred as Press Brakes. A press brake is a machine used for bending sheet metal and metal plate, most commonly sheet metal. It forms predetermined bends by clamping the workpiece between a matching top tool and bottom die. Two C-frames from the sides of the press brakes are connected to a table at the bottom and on a movable beam at the top. The bottom tool is mounted on the table and with the top tool mounted on the upper beam. The offered products are fabricated by making optimum utilization of premium quality raw material and components that ensure durability and uninterrupted functions at the users' end. In order to cater the evolving demands of the clients the company has made these products available in different specifications. Parameters – Strip Width: Up to 4000 mm; Strip Thickness: 2 mm; Speed Up to 5 strokes/min; Mechanism: Hydraulic.



Contact:

Hercules Roll Forming Machines
Plant-I: C-113, Bulandshar Road, Indl Area
Ghaziabad, Uttar Pradesh 201 002
Mob: 99589 43311 / 981032 86042
E-mail: rfm.hercules@gmail.com

Globe Valve

Fluidline offers Globe Valve, which is used for regulating flow in a pipeline, and consists of a movable disk-type element and a stationary ring-seat, in a spherical body. Features: Designed for the least possible obstruction to free flow by providing curvature turns in the body, thereby minimising stresses and turbulence. The plug and seating are machined and lapped very precisely to get a very tight sealing when the valve is closed. Manufactured to the highest standards of quality and durability. Features include: Pressure sealed joints/double block and bleed/cryogenic service to BS 6364/NACE specifications (MR-01-75); Regulating discs for throttling service; Double Disc; and bypass arrangement. Fluidline is a premier manufacturer of industrial valves, and has been designing high-quality valves that are used around the world in industries like Power, Steel, Oil and Natural Gas to Chemicals, Waste Water, and Potable Water, among others.



Contact:

Fluidline Valves Co Private Limited
115 Dr A B Road, Siddharth Nagar, Worli, Mumbai 400 018
☎ 022 – 2494 4057 / 2494 • E-mail: fluidline@hatway.com

Clear Water Pumps

Darling Pumps Pvt Ltd offers Clear Water Pumps. The features are: these darling openwell submersible pumps are not only unique in design but are also very compact, sturdy, and highly reliable. Offered pumps up to 120 HP and head range up to 140 mtrs.; these pumps come with mechanical seal and ball bearing designs and thus can be installed in inclined positions as well; these pumps can be customized for oil-filled motors or air-filled motors as well; their applications include: this range of darling open well submersible clear water pumps consists of S and M series pumps. These pumps are not only ideal for various agricultural applications but are also very popular for many industrial applications as well. The company, with its expertise spanning over 35 years, has been the chief architect of the submersible pump revolution in India. With every new and innovative product line, it has set a benchmark for others to follow and has thus always kept one step ahead of the market.



Contact:

Darling Pumps Pvt Ltd
340/2 Tigaria Badshah, Nr: Agarbatti Complex
Sanwer Road Indl Estate, Indore, Madhya Pradesh 452 015
Mob: 99819 92833 • E-mail: dpplin@darlingpumps.in

Truck Wheel Alignment Systems

Ampro Testing Machines offers Truck Wheel Alignment Systems. Features: the unique program for 2-post lifts, which allows full wheel alignment as well as occupying a minimal footprint in the tyre bay; an existing workstation not dedicated solely to wheel alignment; full access to all vehicle components; the wheel alignment unit moves to the vehicle; better management of the flow of vehicles in the workshop; with the new user interface, which is simpler and more user-friendly, on-screen animations help the operator when positioning or adjusting the vehicle, and combining ergonomics and aesthetics, these animations guarantee better measurement; moreover, an informative graphical printout displays the faults observed on the vehicle to clearly justify work carried out. Ampro is one of the most accomplished importers, suppliers, and manufacturers of garage equipment.

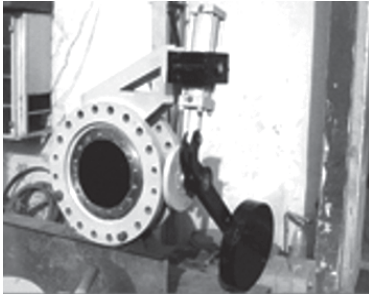


Contact:

Ampro Testing Machines
CB-152, 2nd Floor, Ring Road, Naraina, New Delhi 110 028
☎ 011 – 2577 5600 • Mob: 98118 90900 / 70606 31827
E-mail: info@amproindia.com

Turbine Inlet Valve

Baroda Flowtech Private Limited offers Turbine Inlet Valve. The inlet valve in a hydro power station is used as a safety device. The valve is located within the power house on the upstream side. The inlet valve is used for isolating the Hydro-turbine for maintenance purpose also. The inlet valve is basically a Butterfly valve having a very less head loss. The hydraulic power pack is mounted on the driving end of the valves. The non-driving end of the valve trunion is mounted with a dead weight arrangement through a lever. For small & medium turbines where grid power is not available, the valve is opened by a hand pump provided in the power pack. For Large power plants where grid power is available valve is opened with the motorized operation of the power pack. The inlet valve is provided with a by pass arrangement from the upstream side to the downstream sided, a valve provided in the bypass arrangement is opened so that the pressure in the both side of the valve is in equilibrium condition. After this the valve is opened.

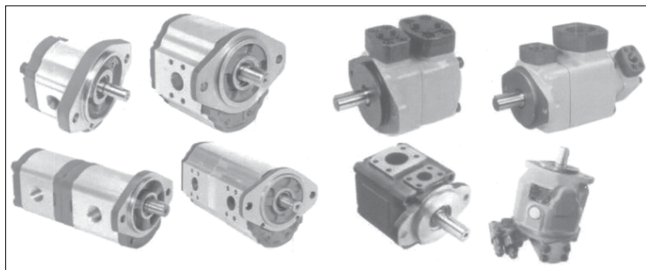


Contact:

Baroda Flowtech Private Limited
28-B, Puneet Nagar, New Sama Road, EME Post Office
Vadodara, Gujarat 390 008
☎ 0265 – 2711 141 • E-mail: deepak@barodaflowtech.com

Hydraulic Products

Deepak Ind Hydraulics manufactures a wide range of hydraulic products such as Hydraulic Cylinders, Hydraulic Power Packs, Gear Pumps, Vane Pumps, and Plunger



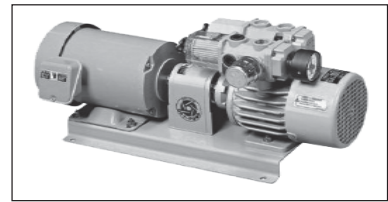
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Contact:

Deepak Ind Hydraulics
1st Kasthuribai Street, Ganapathy
Coimbatore, Tamil Nadu 641 006
Mob: 75400 75756 / 75400 75775
E-mail: marketing@deepakind.com

ORION Dry Vacuum Pump

Kumark Vacuum Systems Pvt Ltd was established in the year 2000. It started working with ORION Machinery, Japan in the year 2010 as their distributor for Industrial Dry Vacuum Pumps in India and has been offering its various products to meet industrial needs. Kumark Vacuum Systems has a very well-proven and highly rich experience of 15 years in the industry. It has been putting its efforts to continue to serve high-quality dry vacuum pumps with a diverse range of capacities. The Company offers ORION KRX Series Dry Vacuum Pumps. Features: No oil in either vacuum, blower or combination application; Quiet operation; Long life; Gauge and controller equipment standard; and Dependable and proven design. Flow Rate: 135 – 1190 L/min. Capacity: Design displacement, logic value is calculated from the cubic volume. The actual flow rate refers to the actual measurement data of performances; It is not allowable to use it at the maximum vacuum reaching point of the pump; Usable range of the degree of vacuum/blower pressure; For the intake air, use clean air of normal temperature and normal humidity whenever possible; Intake air condition: Temperature 0 to 40! and Humidity 65% RH \pm 20%; The allowable variation range of the supply voltage should be \pm 10% of rated voltage; Install an overload protector (thermal relays, etc.)



Contact:

Kumark Vacuum Systems Pvt Ltd
TC 32/1727, Sreesailam, Madathuvilakam, PO: Peroorkada
Thiruvananthapuram, Kerala 695 005
☎ 0471 – 243 4798 • Mob: 93878 91774
E-mail: info@inpresvac.com

Pressure Reducing Valve

Green Manufacturing Co Limited manufactures Pressure Reducing Valve. Features: Test Pressure: 1.6 Mpa; Working Temp from 0°C to 80°C; Screwed Female Ends as per BSP; No External Strainer required as NEU-G PRV has in-built strainers; Working medium: Water. The Company's products range include: Forged Brass Air Release Valve, Butterfly Valve, Multi-Utility Check Valve, Wafer Type Check Valve, Swing Check Valve, Dual Plate Check Valve, etc.



Contact:

Green Manufacturing Co Limited
C-20, Canal Road, Industrial Area, Jalandhar, Punjab 144 004
☎ 0181 – 506 3236 • Mob: 98881 23236
E-mail: newpipefittings@gmail.com

Power Cables

Empire Cable supplies power cables with PVC insulation for power transmission. Voltage grade 650/1100 volts (Uo/U) provided with ISI marking IS 1554 (Pt-1), with or without HR/FRLs properties. Screening can be provided if desired. The cables conform to standard specifications like IS 1554 (Pt-1), IEC 502, BS 6436/87. Configuration: Single core up to 1000 sq mm, multi-core up to 400 sq mm x 3-1/2 cores; Construction: Conductor is aluminium/copper, solid/stranded circular/compacted/sector shaped. Insulation is PVC; Mechanical protection: Galvanized steel wire/strips/double helical steel tape; aluminium wire amounting for single core cable; Inner and outer sheath – PVC black/grey or as per requirement.



Contact:

Empire Cable Industries (P) Ltd
Plot No: 115, Phase-II
Badli Industrial Area, Delhi 110 042
☎ 011 – 2387 4632 • Fax: 011 – 2386 1610
E-mail: empirecables@yahoo.co.in

Gate Valve API 6D

Jayant Engineering offers API 6D Gate Valve. Design Features – Design and Manufacturing: API 6D; Inspection and Testing: API6D; Inspection and Testing: API 6D; End Flanges dimension: ASME B 16.5; BW end Dimension: ASME B 16.25; Face to Face and End to End Dimension: API 6D ASME B 16.10; Design: SLAB Type, through conduit passage – Piggable; Anti-friction ball thrust bearing in yoke sleeve; Drain and Vent Connection, Lifting Lugs and Support Legs, Double block and bleed, fire safe design. Special Features: Gear Operation – applied force exceeds 350N; Limit switch arrangement; Electrical and Pneumatic arrangement; Position indicator; Locking arrangement; Fugitive Emission test; Resilient seal; NACE MR 0175 and MR 0103; Pneumatic Actuator. Tolerance – Face to face: ± 2.0 mm for NPS 10" and ± 3.0 mm for NPS e" 10".



Contact:

Jayant Engineering & Marketing Pvt Ltd
Plot No: 2003/2004, Phase II, GIDC Chhatral
Tal: Kalol, Dist: Gandhinagar, Gujarat 382 729
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EOT Crane

Eddycranes Engineers, manufactures Elmech make EOT cranes conforming to Class I, II, III and Class IV (M1 to M8), heavy duty application as per IS: 807-2006, IS: 3177-1999, IS: 4137-1967 wherever applicable. EOT cranes are manufactured from 0.5 ton to 150 tons capacity in single Girder design as well as in double Girder design. Elmech EOT cranes offer technologically advanced features such as box type girders for torsional rigidity and strength, tapered plate design for joining the girders to the end carriage to ensure smooth flow of stresses, duly hardened forged wheels running on spherical roller bearings in L-type housing, geared couplings, high torque, crane duty, gearboxes, etc. These cranes offer long life and minimum noise during its operation; and are supplied with safety features consisting of brakes in all motions, limit switch in all motions, overload relays and single phase preventer for all motors in control panel, etc, also with pendant push button controller for operation from floor, or master controllers for operation from driver's cabin or with radio remote control arrangement. Eddycranes Engineers also manufactures Elmech Hoists, Grabbing Cranes, Goliath Cranes, HOT Cranes, Flameproof EOT Cranes and Electric Hoists and Winches etc.



Contact:

Eddycranes Engineers Pvt Ltd
3/23 Tardeo A/C Market, Tardeo Road, Mumbai 400 034
☎ 2352 2710 / 2352 5103 / 2352 1798
E-mail: eddycranes@vsnl.com

Hydraulic & Pneumatic Products

Savantec Automation (P) Ltd supplies Hydraulic and Pneumatic Products. Their products range includes Air Gun, Air Silencers, Camlock Couplers, Solenoid Valves, Check Valves Fittings, Clamping Cylinders, Clean Fittings, Compact Fittings, Flow Control Valves, Hand Valves, High Pressure Nozzles, HP Couplers, KCC Pneumatic and Hydraulic Cylinders, KOBIA Industrial Shock Absorbers, ROTOFLUX Rotary Unions, Sang A PU Fittings and PU Hoses and Couplers, etc.

Contact:

Savantec Automation (P) Ltd
No: 3&4, First Floor, Shop No: 6, Mogappair Road
Mannurpet, Padi, Chennai 600 050
☎ 044 – 4856 8963 • Mob: 73583 12666
E-mail: sales@savantecap.com

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Breather Valves

Caliber breather valves are meant for enclosed bulk storage tanks in the petroleum and other industries. These valves are used as a safety measure to prevent the tanks rupturing or collapsing during filling in and draining out and also to take care of thermal expansion of fluids and consequent pressure build ups. These valves are constructed out of conventional materials and based on the fluids being stored, the valves can be offered in other materials like AISI 304/316, etc. Basically this valve is a combination of pressure relief valve and vacuum breaker put together in a simple and convenient pack. These valves are offered in space saving simple designs, in both flanged and screwed constructions and come in sizes from 50 mm to 150 mm NB. Breather valves can also be furnished with flame arresters and desiccators as per the requirements of the customers.



Contact:

Caliber Valves Pvt Ltd
 101, 1st Floor, 4th St, AH Block, Shanthi Colony
 Anna Nagar, Chennai, Tamil Nadu 600 040
 ☎ 044 – 4350 0192 • Mob: 89397 34853
 E-mail: info@calibervalves.com, mktg@calibervalves.com

Globe/SDNR/SDSL Angle Valve

Atam Valves Limited offers Globe/SDNR/SDSL Angle Valve. Its Design Standards: as per NES 375/BS 5354; Inspection and testing standard as per BS 6775 Part 1 for rate A; All material are asbestos free; All valves will be provided with open close indication; Flow Direction: Bi-Directional; Valves to be of non-rising and rising (Both stem design); End Connection standard as per PN6/PN10/PN16. Special Features: Rotary Actuators; Electrical Actuators; Extended Bonnet; Gear-box; Rod Gearing Arrangements. The Company's products range includes: Gate Valves, Globe Valves, Bolted Cover Swing Check Valves, Bolted Bonnet Forged Gate, Globe, and Lift Valves, etc. The products find applications in industries such as Steam Engineering, Hydrocarbon, Marine, Shipbuilding, Distillery, Brewery, Chemical, Power, Mining, Plumbing, Fire-fighting, HVAC Service and General Engineering.



Contact:

Atam Valves Limited
 1051 Outside Industrial Area, Jalandhar, Punjab 144 004
 Mob: 92161 83505 • E-mail: sales@atamfebi.com

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Syensqo and Shell Chemicals Europe BV Collaborate to advance low-carbon ethylene oxide (EO) solutions

Certified alternative EO-based ingredients enable customers to reduce Scope 3 greenhouse gas emissions while maintaining high performance standards

Syensqo and Shell Chemicals Europe B.V. have joined forces to supply mass-balanced, low-carbon EO solutions for the agricultural and industrial markets, enabling reduced product carbon footprint (PCF) without compromising performance.

Syensqo intends to introduce EO-based solutions made with Shell Chemicals' lower-carbon feedstocks, which deliver up to 51% lower carbon footprint versus conventional EO1, enabled through the use of carbon capture utilisation (CCU) credits via a mass-balance approach.

Verified under the ISCC Carbon Footprint Certification (CFC), these drop-in solutions allow customers to reduce the carbon footprint of their formulations without requalification, while maintaining performance, quality, and supply reliability.

"Customers are under increasing pressure to reduce the carbon footprint of their products without compromising performance or supply reliability," said Chloé Masselon, Sustainability Director at Syensqo. "Combining certified low-carbon feedstocks with drop-in compatibility, these solutions offer a practical and immediate way to decarbonise formulations at scale while meeting evolving regulatory and market expectations."

This initiative supports Syensqo's One Planet ambition to reduce Scope 3 GHG emissions in Focus 5 categories² by

25% by 2030 compared to 2021 levels. It also demonstrates that reducing value chain emissions requires collaboration across the ecosystem, from raw material suppliers to ingredients providers to finished goods manufacturers.



Syensqo and Shell Chemicals Europe B.V. collaborate to advance low-carbon ethylene oxide (EO) solutions

About Syensqo: Syensqo is a science company developing groundbreaking solutions that enhance the way we live, work, travel and play. Inspired by the scientific councils which Ernest Solvay initiated in 1911, we bring great minds together to push the limits of science and innovation for the benefit of our customers, with a diverse, global team of more than 13,000 associates in 30 countries.

Our solutions contribute to safer, cleaner, and more sustainable products found in homes, food and consumer goods, planes, cars, batteries, smart devices and health-care applications. Our innovation power enables us to deliver on the ambition of a circular economy and explore breakthrough technologies that advance humanity.

Contact: **Web:** www.syensqo.com

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Industrial Products Source

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Tecumseh Launches New ‘Made in India’ TC3 Premium-Efficiency Compressor Platform

At ACREX India 2026, Tecumseh introduced the new TC3 premium-efficiency compressor platform, ranging from 3 to 12 cc, delivering more than 30% energy savings compared to current platforms. The TC3 compressor is proudly “Made in India”, supporting both domestic demand and regional markets through local manufacturing.

With a strong local manufacturing footprint and a focus on environmentally responsible technologies, Tecumseh continues to deliver solutions that meet evolving regulatory requirements, environmental standards, and customer performance expectations.

“India is one of the fastest-growing refrigeration and HVAC markets in the world, driven by urbanization, food security needs, and the rapid expansion of organized retail and cold chain infrastructure,” said Ricardo Maciel, CEO of Tecumseh. “At Tecumseh, we see this growth as an opportunity to support the country’s sustainability goals with advanced refrigeration technologies that combine performance, energy efficiency, and lower environmental impact. Our presence at ACREX reflects our long-term commitment to the Indian market and to strengthening local manufacturing capabilities.”

“By combining global engineering expertise with strong local manufacturing capabilities, Tecumseh reinforces its long-term commitment to advancing India’s refrigeration and HVAC industry. “Energy efficiency is no longer just a competitive advantage — it is a market expectation, and our solutions help customers reduce operating costs while meeting stricter efficiency standards. By developing and manufacturing in India, Tecumseh can respond faster to regional market needs and support the continued growth of the HVAC ecosystem”, Ricardo Maciel further added.

Advancing Sustainable Cooling with Low-GWP Refrigerants

As global and regional regulations accelerate the transition toward lower Global Warming Potential (GWP) refrigerants, Tecumseh is leading the shift with a robust portfolio designed for both current and future compliance.

As global and regional regulations accelerate the transition toward lower Global Warming Potential (GWP) refrigerants, Tecumseh is leading the shift with a robust portfolio designed for both current and future compliance.

At ACREX, Tecumseh showcased its compressors de-



signed for R290 (propane), a natural refrigerant known for its low environmental impact and high efficiency. Engineered for performance and sustainability, Tecumseh’s R290 compressors support a wide range of commercial and light commercial refrigeration applications.

In parallel, the company continues to expand its A2L-compatible compressor portfolio, supporting the next generation of mildly flammable, low-GWP refrigerants. These solutions are developed with a strong focus on safety, reliability, and optimized system performance.

“The transition to lower-GWP refrigerants is accelerating globally, and India is playing an increasingly important role in this transformation,” said Fernando Fischer, Global Marketing Director at Tecumseh. “Customers are looking for solutions that not only meet environmental regulations but also deliver superior efficiency and reliability. Our R290 and A2L-ready compressor platforms are designed to help manufacturers and system integrators confidently move toward the next generation of sustainable refrigeration.”

Integrated Cold Chain Solutions: Systems and Condensing Units

Beyond compressors, Tecumseh presented its advanced cold chain solutions, including fully optimized systems and condensing units designed for food retail, food processing, and logistics applications.

Tecumseh is proud to introduce Orion, its new global fractional systems platform engineered to support a broad range of refrigeration applications. Designed with a compact footprint, multi-refrigerant capability, and a streamlined global supply model, Orion provides the flexibility and scalability required by refrigeration equipment manufacturers worldwide.

About Tecumseh:

For more than 90 years, Tecumseh has set the benchmark in refrigeration and air conditioning, recognized for the precision and reliability of its engineering. The company designs and manufactures robust compressors and systems for commercial refrigeration and air conditioning,

servicing customers worldwide through a global sales and distribution network.

Guided by its revitalized vision, “Empowering Everyday Life, Everywhere,” Tecumseh delivers intelligent, sustainable solutions that help protect the food chain, health, and overall well-being.

Transforming Textile Workflows with Ergonomic Vacuum Technology

India’s textile industry is a vital economic engine, yet the manual handling of heavy yarn packages continues to strain workers and slow production. Ergonomics offers the key to safer, healthier workplaces while boosting efficiency and productivity. The Schmalz Vacuum Tube Lifter Jumbo combines advanced vacuum technology with ergonomic design to revolutionize yarn handling in textile mills and weaving plants.

Yarn is the backbone of textile production, but managing cones, bobbins, and packages is demanding. Workers in spinning mills lift thousands of packages daily, each weighing 10-50 kilograms. This repetitive manual handling causes fatigue, musculoskeletal strain, and injuries. Beyond the human cost, manual lifting slows production, increases errors, and affects product quality. For an industry driven by efficiency and precision, this is a serious challenge.

Ergonomics as the Solution

Poor ergonomics in yarn handling leads to repetitive strain injuries, reduced efficiency, and high turnover. A tired workforce cannot sustain modern production de-

mands. Industry leaders now recognize that worker safety and ergonomics directly impact productivity and profitability. Schmalz emphasizes ergonomics as a strategic investment: healthier employees mean fewer absences, lower costs, and higher output.

How the Jumbo Works

The Vacuum Tube Lifter Jumbo operates on a simple principle: vacuum suction grips and lifts loads, while the vacuum tube itself serves as the lifting element. The operator moves an ergonomic control handle, adjusting the vacuum level to contract or extend the tube, smoothly lifting or lowering the load. With no motors or hydraulics, the system is reliable, low maintenance, and ideal for textile environments.

Cycle time is a major advantage. A worker who manually lifts 3-4 cones per minute can handle 8-10 cones with the Jumbo. For mills managing thousands of cones daily, this efficiency translates into significant productivity gains, reduced fatigue, and smoother workflows.

Product Range

Schmalz offers three versions of the Jumbo, each tailored to textile needs:

- JumboFlex (up to 50 kg): One handed operation, intuitive controls, and compact design make it ideal for small yarn cones or packages.
- JumboErgo (up to 85 kg): Built for heavier cones, bobbins, or cartons. Its ergonomic handle and optional swivelling feature simplify stacking in different positions.



Mr Niranjan Bhangale, (Industry Segment Manager- Handling Systems)



Efficient Yarn Handling in Textile Mills with Vacuum tube Lifters Jumbo

Company News

- JumboSprint (up to 85 kg): Optimized for compact workpieces, with an all around operator handle for dynamic control in fast paced environments.

Each system is modular, including lifting unit, operator handle, vacuum pump, and gripper. Customization allows handling of cones, bobbins, cartons, or rolls. A vacuum reservoir secures loads even during power failure, while simple controls reduce training time.

Where Can I use Jumbo in Yarn Process?

The Jumbo can be applied at multiple critical stages:

- Spinning mills: Lifting yarn cones directly from winding machines.
- Packing stage: Moving cartons from conveyors to pallets for storage or dispatch.
- Weaving/knitting plants: Handling bobbins, cones, or rolls for feeding into machines.
- Warehouse & logistics: Stacking, palletizing, and transporting yarn packages safely.

By integrating Jumbo Vacuum Tube Lifters, mills achieve:

- Faster handling: Doubling speed compared to manual lifting.
- Reduced strain: Operators work with minimal effort, lowering injury risks.
- Consistent quality: Gentle handling prevents damage to yarn cones and cartons.
- Lower costs: Fewer accidents, reduced absenteeism, and higher efficiency.
- Workforce loyalty: Demonstrating responsibility toward employees strengthens reputation.

In spinning mills, yarn packages are packed into cartons before being moved from conveyors to pallets. Traditionally done manually, this stage exposes workers to heavy loads and repetitive strain. With Jumbo, cartons can be lifted and stacked ergonomically, ensuring smooth



supply chain flow from yarn producers to fabric manufacturers.

For textile mills, adopting the Jumbo is more than a technical upgrade – it is a strategic move. Productivity rises as workers handle more packages in less time. Yarn quality is preserved through consistent handling. Workplace safety improves, reducing injuries and absenteeism. Costs fall due to fewer accidents and faster operations. Most importantly, companies show responsibility toward their workforce, strengthening loyalty and competitiveness.

From my years in the textile industry, I have seen how the Jumbo Vacuum Tube Lifter transforms operations. Mills that implement this technology not only solve immediate handling challenges but also set themselves up for sustainable growth. By focusing on ergonomics and innovation, Indian textile leaders can align future growth with worker well being, operational efficiency, and global competitiveness.

-Author

Contact:

Schmalz India Private Limited
Marketing Department

EL 38, J Block, MIDC, Bhosari, Pune, Maharashtra 411 026
☎ 020 – 6911 5500

E-mail: marketing@schmalz.co.in

Industrial Products Source

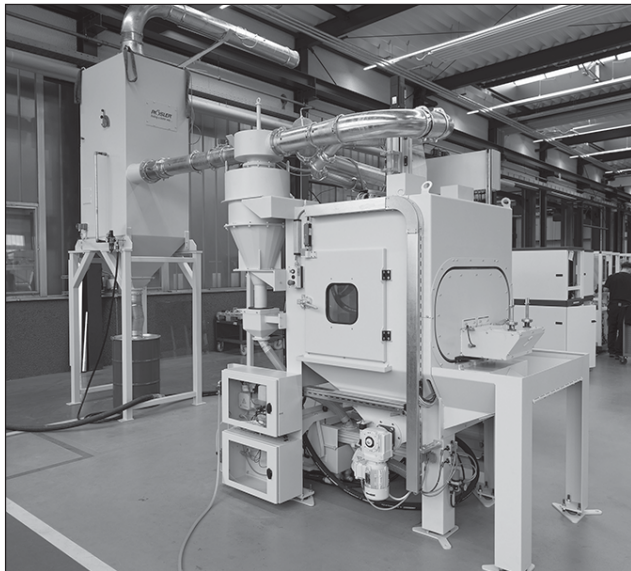
May 2026: INTEC 2026 Exhibition +

Focus: Machine Tools & Automobile Accessories

Efficient shot blasting of complex plastic components Automatic inline de-flashing of injection-molded work pieces

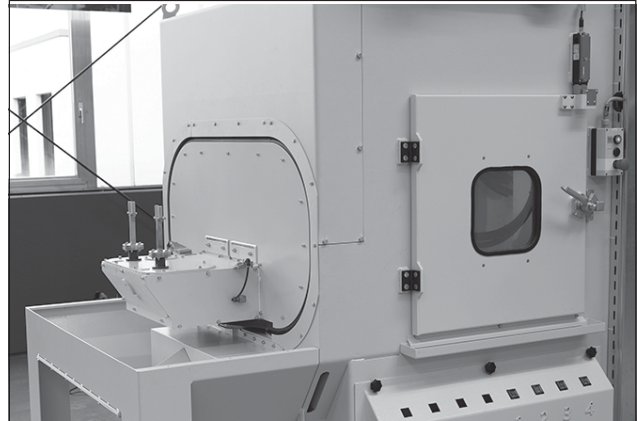
For quality reasons a globally leading manufacturer of garden implements and motorized tools established a plastic injection molding system for engine parts at its production facility in the United States. The geometrically complex work pieces are de-flashed in a swing chamber blast machine, model RWS 1200-I4-SAT2, supplied by Rösler. This system, completely integrated into the manufacturing flow, allows fully automatic de-flashing of the work pieces and their transfer to the assembly line at the precise output speed of the injection molding machine.

In forest and garden maintenance as well as landscaping and construction the tools and implements of this com-



The RWS 1200-I4-SAT2 for fully automatic de-flashing of thermoset components achieves the required results at a cycle time that is 25% lower than specified. This results in lower operational costs

pany, headquartered in Germany, enjoy a first-class reputation around the world. They are produced at various locations on several continents. To maintain the excellent international quality reputation of the motorized tools, purchased components must meet extremely high standards regarding dimensional accuracy and functionality. Two injection-molded thermoset engine components, supplied by external suppliers for the US manufacturing facility, did not consistently meet the specified quality standards. For this reason, the company decided to make these components in-house, including the removal of flashes created during the molding operation. Since in



The clever design of the RWS 1200-I4-SAT2 de-flashing system with 2 x 2 satellite stations allows de-flashing work pieces in one chamber, while finished/raw work pieces are unloaded/loaded in another chamber. This greatly minimizes unproductive, idle production times

Europe the company cooperates with suppliers, who offer excellent solutions from Rösler for the “de-flashing of plastic components”, the engineers responsible for this project contacted the Rösler US subsidiary in Battle Creek (Michigan).

Challenging quality and cycle time requirements

The specifications of the garden implement manufacturer were quite comprehensive and detailed, demanding full automation of the entire manufacturing operation. Among other things, this included supplying the injection molding machine with threaded bolts, the actual molding operation, the de-flashing and cleaning of the components - containing through-holes - at a cycle time of 60 seconds (per two parts) and, finally, the transfer of the de-flashed components to the assembly line. Based on processing trials, conducted by the sales and process management team at Rösler, an equipment concept was developed around the proven swing chamber machine RWS 1200. This system was specifically designed for gentle de-flashing of thermoset and highly filled thermoplastic components.

Consistent and efficient processing with minimal non-productive idle production times

The compact RWS 1200-I4-SAT2 system has two chambers, each containing two rotating satellite stations with integrated fixtures for holding the work pieces measuring about 55 x 80 x 80 mm (L x W x H). This clever dual chamber design ensures that while in one chamber the work

Company News



The blast nozzles, placed at the top and bottom of a vertical linear shuttle unit, can be moved up/down and individually turned on or off

pieces are de-flashed, finished and raw work pieces are unloaded, respectively, loaded in the other chamber. This practically eliminates any non-productive idle production times.

A robot handles the precise placement of the components on the workpiece-specific holding fixtures, which were designed and built by Rösler in close cooperation with the customer. In the blast chamber two (2) pairs of injection blast nozzles, positioned at the upper and lower end of a vertical linear shuttle unit, are accelerating and precisely throwing the specially developed, non-abrasive blast media onto the rotating work pieces. Since the rotational positioning of the satellite stations is extremely precise, robotic handling of non-round, random-shaped components at the load station poses no problem whatsoever.

In addition, the precise rotational positioning, in combination with the vertical linear unit and the multi-step process control, allows a temporary stop of the work piece



The digital pressure control of each individual nozzle ensures high process safety and stability

rotation. This ensures that difficult-to-reach surface areas like drilled holes can be reliably de-flashed. Depending on the work piece shape, each individual nozzle can be turned on or off during the various process steps, which guarantees a highly efficient shot blasting operation. Upon completion of the de-flashing process residual blast media and dust are removed with a compressed air blow-off system.

All process steps, such as picking up the work pieces for their precise placement on the holding fixtures, the settings of the linear shuttle unit, the defined rotation stops, the turning on/off of individual nozzles and the blow-off cycles, are stored in workpiece-specific programs and visually displayed on the operating screen of the PLC. This fulfilled another customer requirement.

Shorter processing time yields substantial cost savings

The new RWS 1200-I4-SAT2 de-flashing system works so effectively that the cycle time for de-flashing 2 work pieces is about 15 seconds below the 60 seconds specified by the customer. During this “saved” time the media and compressed air consumption is practically zero. This represents significant savings in resource and energy usage and reduces the overall operational costs.

Excellent media quality and ATEX compliant dust collection

The highly effective blast media recycling and cleaning system with air extraction from the blast chamber and screening unit, combined with automatic media replenishment, guarantees consistently high media quality for the de-flashing operation. The special Rösler antistatic additive, injected into the blast chamber and automatically replenished, significantly reduces electrostatic charges and, thus, minimizes adhesion of dust and media on the finished work pieces. Finally, the shot blast machine is equipped with an ATEX compliant dust collection system. For detailed information please go to: <https://facts.rosler.com/RWS>.

Contact:

Rösler Oberflächentechnik GmbH
Vorstadt 1, 96190 Untermerzbach, Germany
☎ +49 / 9533 / 924-802 • Fax: +49 / 9533 / 924-300
E-mail: d.hund@rosler.com
Web: www.rosler.com

Industrial Products Source

June 2026: Foundry Equipment, Casting, Forging & Shot Blasting,
Boilers & Furnaces

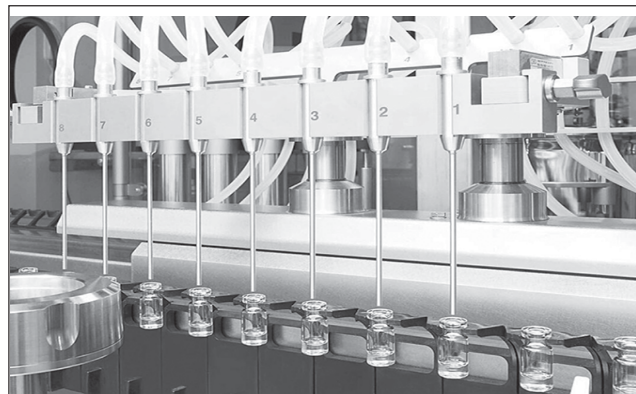
Snow Instead of Ultra-Pure Water Cleaning Pharmaceutical Packaging Reliably and Resource-Efficiently After Filling

Cleaning the exterior of pharmaceutical containers such as bottles, vials and cartridges after filling prevents any adhering product residues from becoming a danger to humans and the environment. This process, which is traditionally liquid-based, consumes enormous amounts of energy and water and incurs high costs. In order to offer a dependable but more resource-friendly solution, a leading manufacturer of fill & finish machines participated in a joint project to investigate the suitability of the quattroClean snow jet technology. The results confirm that the sustainable cleaning process meets all the requirements of the pharmaceutical industry. A basic validation carried out in parallel simplifies the approval of the process in compliance with FDA and GMP regulations.

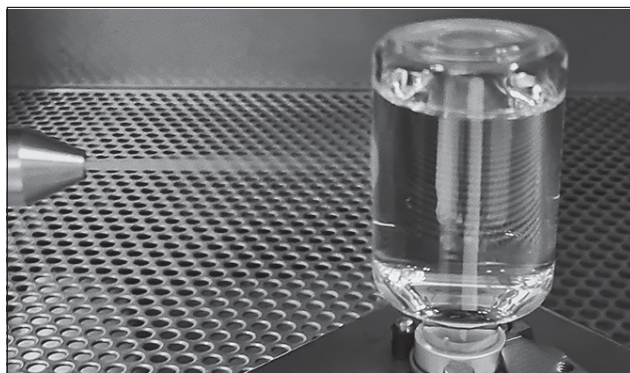
Taking on the challenges of the global market and meeting them with the best technical and most cost-effective solutions: this is the corporate goal that has guided Bausch+Ströbel SE + Co. KG since 1967 in the design, manufacture, and sale of packaging and production systems for the pharmaceutical and related industries. What started off with four employees has since grown into an international group of companies with a workforce of around 2,800 staff and an export share of over 90%, making it one of the world's market leaders in the field of pharmaceutical packaging.

High-tech packaging solutions including external cleaning after filling

High-quality pharmaceuticals in liquid and powder form are filled into vials, bottles, syringes, or cartridges on customer-specific filling and finishing lines in a fully auto-



To ensure that any substances which may have contaminated the outside of vials during filling do not pose a risk to humans or the environment, the exterior surfaces of containers are increasingly being cleaned



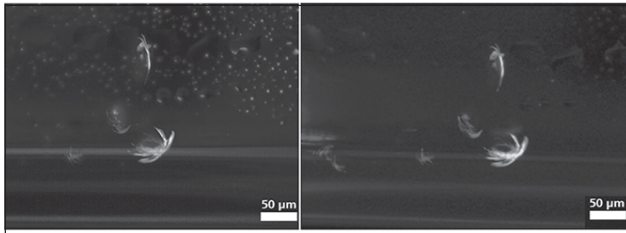
With the aim of significantly reducing resource consumption in the cleaning of medical and pharmaceutical products, the material compatibility and cytotoxicity of the dry quattroClean snow jet cleaning technology was successfully investigated in a joint project

ated process. This starts with cleaning and sterilizing the containers and continues through to labeling or syringe assembly.

“Due to the trend towards the use of increasingly potent active ingredients, there is a risk that the exterior of the containers could be contaminated with a potentially hazardous substance after filling. We are therefore seeing a growing demand for solutions to clean the outside of containers after the filling process. Not only do ever-stricter cleaning requirements have to be met, but the reliable removal of product residues must also be proved,” reports Werner Iländer, Group Manager of Research, Technology and Pharma Services at Bausch+Ströbel.

Dry snow jet technology instead of ultra-pure water

Up till now, external cleaning has generally been a liquid-based process involving spraying the containers with ultra-pure water and subsequently drying them with clean compressed air. This requires large quantities of water to be treated in an energy-intensive process and, depending on the product being filled, to be disposed of as hazardous waste. This not only results in high operating costs for customers but is also a wasteful use of drinking water, which has already become scarce in some regions of the world. “For these reasons, we looked around for an alternative cleaning method that would make this process more cost-efficient and resource-friendly, as well as having a lower CO₂ footprint. We have been working with the dry quattroClean snow jet cleaning technology from acp systems for some time and know that very high standards of cleanliness can be achieved, depending on



Microscope images of vials with existing damage show no change in the defects before (left) and after (right) worst-case cleaning with the CO₂ snow

the substance to be removed. However, we had no valid data on the material compatibility of the process,” says Werner Iländer, describing the initial situation.

QuattroClean snow jet cleaning is a dry process for full-surface and localized applications that can be easily integrated into fully-automated production lines. The cleaning medium is liquid, recycled carbon dioxide, which is a by-product of industrial processes and used, among others, in the food industry. The liquid CO₂ is guided through a wear-free two-substance ring nozzle and expands on exiting to form fine snow crystals. These are bundled by a separate jacket jet of compressed air and accelerated to supersonic speed. The easily-focused jet of compressed air and snow develops a combination of thermal, mechanical, solvent, and sublimation effects on impacting on the surface to be cleaned, which makes it highly effective. The removed contaminants are then extracted in the compact cleaning cell, thus preventing re-contamination of the product and contamination of the surroundings. Since the crystalline carbon dioxide sublimates completely during the process, the cleaned residue-free surfaces are dry, thereby eliminating the need for costly and energy-intensive rinsing and drying steps.

Joint project provides the necessary evidence

Bausch+Ströbel therefore did not hesitate to participate in a joint project funded by Invest BW involving five industrial partners as well as Fraunhofer IPA and the NMI Natural and Medical Sciences Institute at the University of Tübingen. In the project, the material compatibility and cytotoxicity of the cleaning technology was investigated on various product surfaces typically found in the medical and pharmaceutical sectors.

“This project was primarily about proving that the mechanical forces of the snow crystals do not alter, impair, or damage the surface in any way. It was also important to establish whether the thermal stress and/or the chemical properties of carbon dioxide affect the surfaces or biocompatibility of the containers, for example by releasing cytotoxic material components,” explained the group manager.

In addition to glass vials, test specimens made of stain-

less steel 1.4301 and 1.4305 with different surface finishes, as well as polyetheretherketone (PEEK), polyether (PE), polyoxymethylene (POM), nitinol, and cobalt-chromium were included in the studies.

To evaluate the test series, Fraunhofer IPA examined the surfaces of the test specimens microscopically (light and/or scanning electron microscope) in their initial state and after cleaning. The dry jet cleaning process was carried out under worst-case conditions, i.e. the middle section and edges of the test specimens were continuously irradiated with CO₂ snow at a high pressure of twelve bars for ten seconds. During the subsequent microscopic examination of the glass vials, no cracking was detected, and no propagation of existing cracks was observed. With the aid of a fluorescent penetrant, it was also possible to demonstrate that the snow crystals did not cause any additional stress in the glass. Likewise, the abrupt exposure to cold and the subsequent warming of the vials to ambient temperature did not result in the formation of any micro cracks. Furthermore, *in vitro* cytotoxicity tests in accordance with DIN EN ISO 10993-12: 2021-05 and DIN EN ISO 10993-12: 2021-08 confirmed that the CO₂ snow does not impair cell vitality in any way. The VOC and SVOC analyses carried out according to ISO 16017-1 yielded Tenax values within or below the measurement limits.

GMP- and FDA-compliant process

The process therefore meets all the requirements of the pharmaceutical industry in this field; it is also compliant with GMP and FDA in terms of material compatibility, meaning that basic validation has already been achieved. “In this project, we were able to generate the key data for our customers and develop a basic solution. The next step will be to implement this in a market-ready product that will significantly reduce operating costs and resource consumption in external cleaning for specific applications,” adds Werner Iländer.

About acp systems: The solutions from acp systems AG make it a global technology leader in advanced clean production, including process automation and system integration. The company’s core technologies include resource-saving quattroClean snow-jet cleaning, high-precision microdosing and smart handling solutions, for example flexible materials and foils. acp assists companies from the semiconductor, electronics, automotive, precision optics, medical device and pharmaceutical industries and others.

Contact:

acp systems AG
71254 Ditzingen, Germany
☎ +49 7156 480140
E-mail: info@acp-systems.com
www.acp-systems.com

Belrise Industries Announces Strategic Acquisition of Chester Hall Precision Engineering, United Kingdom

Marks strategic entry into the global aerospace, space and defence precision engineering supply chain

Belrise Industries Limited (BIL), one of India's leading integrated automotive component manufacturers with a diverse portfolio of safety-critical systems and engineering solutions announced that its step-down wholly owned subsidiary, Belrise UK Holdings Limited, has signed a definitive Share Purchase Agreement to acquire 100% of the issued share capital of Chester Hall Precision Engineering Holdings Limited (hereafter referred to as Chester Hall) - a United Kingdom based precision engineering group serving the global aerospace, space and defence sectors.

Chester Hall is a specialist in machining aero structures, aero-engine components, and satellite parts, with deep relationships across marquee global aerospace customers. It works with the world's largest aircraft and space OEM, as well as a leading French Aircraft Engine OEM, and serves as a single-source supplier for most of the programs it participates in, highlighting its criticality and high-entry barriers.

The company possesses strong expertise across a wide range of aerospace alloys and exotic materials, including titanium and high-grade aluminum, enabling it to deliver components with the high precision required in the aerospace sector. In addition to its manufacturing capabilities, Chester Hall is also a specialist in concurrent design and development of components for its customers, playing a key-role in the engineering of mission-critical components.

The acquisition was completed at an EV/EBITDA multiple of 6x and is expected to be both EPS-accretive and ROCE accretive from day one. There will be a certain deferred consideration based on Chester Hall's CY26 performance.

With revenues of ~£18.5 million GBP and an enterprise value of £13.2 million GBP, the transaction represents a defining milestone in Belrise's evolution as a diversified global engineering and manufacturing platform, marking a deliberate and strategic entry into high-value aerospace and space manufacturing.

The acquisition delivers immediate and compounding strategic value to Belrise across three dimensions:

Instant access to advanced aerospace precision manufacturing capabilities and certifications

A platform to serve global aerospace OEMs and Tier-1 suppliers at scale

A powerful integration of Belrise's large-scale manufacturing excellence in India and France, with Chester Hall's deep precision engineering expertise

Speaking on the occasion, Mr Sumedh Badve, Head of Strategy, Belrise Industries Limited, said, "This acquisition marks a defining chapter in Belrise's journey. We are expanding beyond automotive into one of the most technically demanding and fastest-growing global sectors, aerospace and defence. Chester Hall brings deep precision engineering capabilities and a sterling reputation within the aerospace supply chain, being recognized as a top supplier across all its major customers. By combining their advanced engineering expertise with Belrise's manufacturing scale, we are creating a powerful platform to participate in the rapidly expanding global as well as Indian aerospace manufacturing ecosystem. This transaction is an important step in our strategy to build a truly diversified global engineering group, and to strengthen India's role in the international aerospace supply chain"

The acquisition will create a compelling cross-border engineering platform - anchored in India's manufacturing scale and discipline and elevated by Chester Hall's precision capabilities and aerospace supply chain positioning.

About Belrise Industries Limited (BIL)

Belrise Industries Limited is a leading automotive component company providing technology led solutions based in Pune, India. BIL offers a diverse range of safety critical systems and other engineering solutions for two wheelers, three-wheelers, four-wheelers, commercial vehicles and agri-vehicles.

The Company's product portfolio includes metal chassis systems, polymer components, suspension systems, body-in-white components and exhaust systems, among others. The products are largely agnostic to vehicle powertrain types, reflecting their ability in catering to both electric vehicles and internal combustion engine vehicles. BIL specializes in precision sheet metal pressing and fabrication with 24% market share in two-wheelers metal fabrication. BIL has 21 manufacturing facilities across 9 states in India, and 1 facility in France with long standing customer relationships with over 38 OEMs. BIL le-

verages its expertise in precision engineering by diversifying into non-automotive segments like aerospace & defence and renewable energy.

About Chester Hall Precision Engineering Holdings Limited

Chester Hall Precision Engineering Holdings Limited is a

United Kingdom-based precision engineering group serving the aerospace, space, and defence industries. Through its operating subsidiary, the company specializes in the design, development and manufacture of high-precision engineered components and assemblies used in mission-critical applications — serving OEMs and Tier-1 suppliers across global aerospace programs.

Intelligent Process Control with Lab-on-a-Chip and AI-based Smart Drying

Automatic control of cleaning and drying quality, resource consumption, and costs

Consistently high process quality and savings in energy, resources, and operating costs—these are the demands that water-based cleaning processes must meet today. To meet these requirements reliably and efficiently, Ecoclean has developed the innovative Lab-on-a-Chip system. It maintains the quality of the cleaning and rinsing baths at an optimal level through automated analyses based on various measurement methods. The new Smart Drying technology enables AI-supported, intelligent control and optimization of drying processes with hot air and vacuum.



With the new Smart Drying technology, AI enables intelligent control of drying processes using warm air and vacuum with the aim of minimizing energy consumption and cycle times. The next step is to use AI to control and optimize cleaning and rinsing processes.

Increasing demands on component quality are leading to more complex cleaning processes. Specified cleanliness specifications must be maintained in a stable and reproducible manner. This is increasingly associated with higher documentation requirements for process parameters. At the same time, there is a demand for more energy- and resource-efficient cleaning in order to reduce the CO₂ footprint and costs. This is offset by a shortage of skilled personnel with the appropriate training and cleaning expertise.

Ecoclean is responding to this situation with innovative developments such as the Lab-on-a-Chip (LOC) system and Smart Drying technology for automated monitoring

and intelligent control of cleaning quality. These solutions ensure that cleaning and drying processes run optimally and also meet documentation requirements through constant recording of parameters.

LOC – comprehensive cleaner and bath analyses with just one system

Until now, a wide variety of sensors have been required to analyze the concentration of cleaning or passivation media and bath contamination, which are used in the baths in accordance with the respective medium or process. The measurements also usually require numerous manual interventions. The time-consuming determination of bath quality often leads to cleaning media being added regardless of consumption. Likewise, bath changes are still sometimes carried out on a time-dependent basis. Both can lead to suboptimal bath and thus cleaning quality, as well as a waste of resources.

This changes with the new LOC system, which can be integrated into both multi-bath immersion and chamber systems. The combination of different measurement methods in a single system opens up an enormous range of possibilities for cleaner and bath analysis. And this without having to equip each bath with different sensors and regardless of the cleaning or passivation medium and process used. With the system-integrated systems, sampling is carried out automatically from the respective stations connected to the evaluation unit.

Titration, pH value, conductivity, and, for the first time, surface tension measurement are available for determining the cleaner concentration. In modular cleaning systems, the latter allows the surfactant content in the bath to be determined separately, enabling targeted re-dosing



Ecoclean LOC 1

When it comes to consistently high process quality and savings in energy, resources, and operating costs, the innovative LOC system opens up completely new perspectives through automated analysis of cleaning and rinsing baths based on various measurement methods.

the results are displayed accurately on the display and, if necessary, appropriate actions are initiated, such as the addition of medium or water or a bath change.

With the standalone version, which is also available, the samples are taken manually from the baths to be tested, and the rest of the procedure is also automatic. With both alternatives, the measurement methods can be combined as required, and additional functions or new measurement methods can be easily integrated.

Smart Drying – optimal drying with minimal time and energy consumption

Drying is not only one of the most energy-intensive processes, but also the bottleneck in parts cleaning due to the time required. Nevertheless, problems often arise – especially when different components need to be cleaned and dried. To be on the safe side, drying processes are often designed to be too long based on a worst-case scenario, which results in increased energy consumption with correspondingly high costs and reduced productivity.

The goal is therefore to obtain optimally dried parts from the system with minimized energy and time requirements. Ecoclean has implemented this with its AI-supported, intelligent Smart Drying technology for combined hot air vacuum drying processes. The basis for this is a humidity and temperature sensor specially developed for this application, which is now standard in various types of the manufacturer's systems.

In order to control the drying process in a time- and energy-optimized manner, the AI model of the Smart Drying technology was first trained with data from thousands of

of this component. The contamination of the baths can be determined by means of fluorescence and conductivity measurements. In the future, these measurement methods will be supplemented by methods for determining total organic contamination (TOC) and particle measurement. The measurements to be performed on the sample taken from the bath can be entered via the system control. Between sampling from the baths, an automatic rinsing system ensures that

drying tests with a wide variety of components and target parameters. Based on this know-how, the AI evaluates the quality of the respective drying process by analyzing the parameters of humidity, temperature, and pressure in the process chamber. It then decides which action is most appropriate for optimal drying. For thin-walled parts or plastic workpieces, for example, this may be the supply of warm air. Essential for the use of Smart Drying technology are process-stable, reproducible processes that ensure consistent conditions in the process chamber. Worn seals or sensors that are not calibrated regularly, for example, lead to changes here.

One of the next development steps at Ecoclean is to transfer the findings from machine learning to the use of AI for the control and optimization of cleaning and rinsing processes.

The SBS Ecoclean Group develops, produces, and distributes future-oriented equipment, systems, and services for industrial component cleaning and surface treatment, as well as customized automation solutions. Another business area is the development and series production of efficient alkaline electrolysis systems for the decentralized production of green hydrogen. Innovation is driven by the two competence centers based in Germany, which support the global group companies with technical expertise, research, and pioneering developments. The cleaning solutions, which are world leaders, help companies from a wide range of industries, such as mechanical engineering, semiconductor supply, precision optics, medical technology, automotive and supply, micro and precision engineering, aerospace, and connection technology around the globe to produce efficiently and sustainably with high quality.

Contact:

Ecoclean GmbH

52156 Monschau, Germany

+49 2472 830

Web: www.ecoclean-group.net



Ecoclean LOC

The methods available for determining the actual cleaner concentration are titration, pH value, conductivity, and surface tension measurement, while bath contamination can be detected by means of fluorescence and conductivity measurement. The measurement methods can be combined as required, and additional functions or new measurement methods can be easily integrated.

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Email: sales@venturasteels.com
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GST No.: 27AAPCM6724K1ZV | Contact : +91 91527 65361, +91 97695 81553, +91 (022) 2847 2222
Email : sales@mconconnectors.com | www.mconconnectors.com

