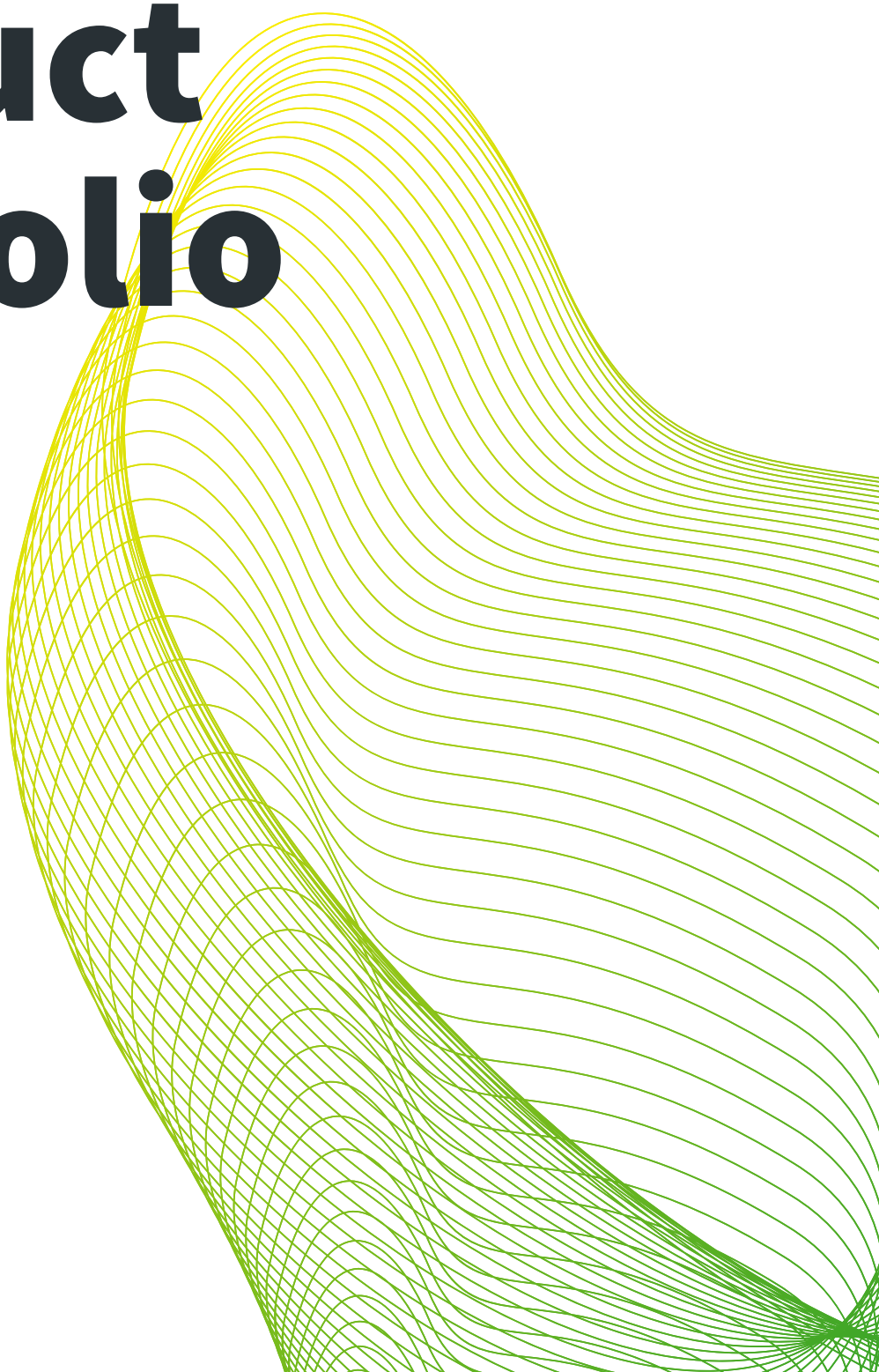
CRAB & TAUR FLOWSERVE

Product Portfolio



CRAB & TAUR

Crab & Taur Engineers Pvt. Ltd. is a leading provider of comprehensive flow solutions, specializing in end-to-end services for fluid motion. As the official representative of Flowserve (centrifugal pumps), Trucent (filtration and separation systems), and Katzen (bio-fuel and potable alcohol technology), we bring cutting-edge products and expertise to various industries.

Founded in 1995 by CEO & MD Yogesh Joshi, Crab & Taur has built a strong reputation as a trusted industry partner. Our dedicated team of professionals is committed to delivering innovative engineering solutions, EPC services, turnkey projects, and reliable after-sales support to meet the evolving needs of our clients.

Our Expertise At Crab & Taur Engineers, we specialize in delivering custom-made flow solutions for a wide range of industries, addressing unique challenges with high-performance products and services:

- Biofuel & Potable Alcohol, Oil & Gas
- Chemical
- Power
- Industrial Applications
- Water & Mining
- Pulp & Paper
- Pharmaceuticals
- Fertilizer
- Food & Dairy

Commitment to Excellence At Crab & Taur, we are driven by innovation, quality, and customer satisfaction. Our approach combines stringent quality control, expert technical support, and continuous training to deliver top-tier solutions. We empower our clients to succeed in a dynamic market by staying ahead of industry trends and embracing emerging technologies. Our commitment is to redefine fluid motion solutions while building a sustainable future.

CRAB & TAUR

CHEMICAL PROCESS – ASME, ISO

Mark 3 ISO

ISO 2858/5199 compliant pump for corrosive applications in chemical, hydrocarbon and pharmaceutical processing requiring unmatched reliability, outstanding hydraulic performance and increased pump availability.

- Lower total cost of pump ownership resulting from simplified maintenance and extended bearing and seal life associated with reverse vane impeller
- Increased reliability and mechanical seal life due to the ideal seal environment created by the SealSentry™ seal chamber
- Simplified maintenance with two-piece power end featuring self-contained bearing. housing and external impeller adjustment mechanism
- Optimal, predictable seal chamber pressure that is established after every impeller setting

SPECIFICATIONS

Flows to:	Heads to:	Press. to:	Temp:
1400 m3/h (6160 gpm)	220 m (720 ft)	25 bar (362 psi)	-80°C to 400°C (-110°F to 750°F)

API PROCESS

HPX

Fully compliant with ISO 13709/API 610 (OH2) design criteria, the HPX pump is the workhorse of the oil and gas and hydrocarbon processing industries, boasting unequaled versatility, reliability and safety.

- Lower operating costs due to comprehensive hydraulic coverage and numerous specialty configurations that permit precise selection for best operating efficiency
- Longer service life enabled by centerline-supported casing that withstands nozzle loads beyond ISO 13709/API 610 requirements and minimizes shaft misalignment, thereby extending rotor, bearing and seal life
- Stringent emissions containment with ISO 21049/API 682 seal chamber
- Easier maintenance thanks to back pullout design, enabling service without disturbing motor or casing connections

SPECIFICATIONS

Flows to:	Heads to:	Press. to:	Temp:
2000 m^3/h (8800 gpm)	350 m (1100 ft)	80 bar (1160 psi)	-160°C to 450°C (-250°F to 842°F)

LIQUID RING VACUUM PUMP

LPH

One- or two-stage vacuum pumps for the handling and exhausting of dry and humid gases. Entrained liquid can be handled during normal duty.

- Lower maintenance and more reliable operation thanks to standard O-ring sealing and oil-free design with no lubrication in working chamber
- Longer service life and minimized wear made possible by non-contacting parts, plus incorporated dirt and central drains
- Broad application versatility from wide range of available materials, including use as a compressor with little or no modification (depending on model)

SPECIFICATIONS	
Suct. Cap. to:	**Suct. Press:**
12 000 m^3/h (7063 cfm)	33 to 1013 mbar(24.7 to 760 torr)

VACUUM SYSTEM

PL

These tailor-made vacuum systems are individually designed for trouble-free operation in almost any application, including heavy-duty and critical applications.

- Plant and personnel safety in explosive atmospheres ensured by compliance with ATEX equipment directives and other explosion protection directives
- Broad application flexibility enabled by different pump sizes and design of multistage systems, including ejectors and roots blowers
- Design in accordance with European or American standards as well as customer specifications
- Lower maintenance costs and time owing to extremely robust, corrosion-resistant design

SPECIFICATIONS	
Suct. Cap. to:	**Suct. Press:**
10 000 m^3/h(5886 cfm)	5 mbar (4 torr) to atmospheric

LIQUID RING VACUUM PUMP

LEH

Single-stage liquid ring vacuum pump with a bare shaft design. Often applied in distilling and degassing operations in the chemical, pharmaceutical and plastics industries.

- Easy maintenance and reliable operation with only one moving part and no internal lubrication required
- Increased personnel safety ensured by quiet, nearly vibration-free operation and liquid ring principle, ensuring the safest compression of hazardous and explosive vapors
- Broad application flexibility provided by ability to handle nearly all gases and vapors plus small quantities of entrained liquid

SPECIFICATIONS	
Suct. Cap. to:	**Suct. Press:**
5150 m^3/h (3030.cfm)	33 to 1013 mbar (24.7 to 760 torr)

SIDE CHANNEL

CEH

A centrifugal combined system, the CEH is self-priming and provides reliable pumping under unfavorable suction conditions. It is ideal for pumping liquids under vapor pressure, such as condensates, refrigerants and liquefied gases.

- Problem-free pumping in applications with NPSHA below 0.5 m (1.64 ft) due to centrifugal-combined system construction, which employs a centrifugal inducer stage before the side channel stages to lower NPSHR
- Excellent hydraulic efficiency assured by modular side-channel system with one to eight stages which permits precise configuration for operating parameters
- Low inventory carrying costs and simplified maintenance enabled by high degree of parts interchangeability between stages

SPECIFICATIONS			
Flows to:	**Heads to:**	**Press. to:**	**Temp:**
35 m^3/h (154 gpm)	354 m (1161 ft)	40 bar (580 psi)	180°C (356°F)

SUMP

CPXV

Compliant with ISO 5199, the CPXV chemical sump pump offers efficient and reliable service in a broad range of applications. Available with many ISO 13709/API 610 compliant features for oil and gas installations.

- Highly customizable, with more than 40 hydraulic wet-ends, numerous materials, multiple mechanical seal options and column lengths to 10 m (32 ft)
- High-efficiency performance delivered by standard front vane open-style impeller
- Ease of maintenance with axial adjustment of the heavy-duty thrust bearings made above sole plate level
- Fully jacketed molten sulfur configuration available
- Increased safety with Category 1 (Zone 0) ATEX configuration for explosive atmospheres beneath the sole plate

SPECIFICATIONS

Flows to:	Heads to:	Press. to:	Temp:
1400 m^3/h (6160 gpm)	250 m (820 ft)	25 bar (365 psi)	-40°C to 400°C (-40°F to 752°F)

DOUBLE-CASE

VPC

Diffuser-type, vertical turbine pump well-suited for closed system and low NPSH applications. Available in single or multistage units, as well as standard and ISO 13709/API 610 (VS6) compliant designs.

- Broad application versatility due to extensive hydraulic coverage plus wide variety of configurations, constructions and materials to suit application requirements
- Lower installation costs with low NPSH first-stage impeller that reduces suction can length
- Lower operating costs from available aftermarket rebowl services that revitalize aged VPCs including competitor models to reduce power consumption, downtime and maintenance costs

SPECIFICATIONS

Flows to:	Heads to:	Press. to:	Temp:
13 600 m^3/h (60 000 gpm)	1070 m (3500 ft)	100 bar (1450 psi)	-73°C to 230°C (-100°F to 450°F)

WET-PIT

VTP

Diffuser-type, single or multistage vertical turbine pump for use in wet-pit or deep well applications in a variety of industries, including oil and gas, power, water, chemical, mining and metals.

- Unsurpassed hydraulic coverage with more than 300 bowl and impeller designs to ensure optimum pump selection
- Design flexibility arising from a wide variety of configurations, constructions and materials to suit application requirements; standard and ISO 13709/API 610 (VS1) units available
- Lower operating costs from available aftermarket rebowl services that revitalize aged VTPs including competitor models to reduce power consumption, downtime and maintenance costs

SPECIFICATIONS

Flows to:	Heads to:	Press. to:	Temp:
1400 m^3/h (6160 gpm)	250 m (820 ft)	25 bar (365 psi)	-40°C to 400°C (-40°F to 752°F)

HORIZONTAL MULTISTAGE DOUBLE-CASE

WXB and WXB-B

Based on ISO 13709/API 610 design requirements, this diffuser-casing barrel pump is the first choice for demanding applications in refineries, chemical and petrochemical plants, liquefied gas stations and boiler feed service.

- Space-saving design with minimal maintenance downtime due to compact and convenient cartridge-style construction
- Longer service life via a generous shaft diameter that results in low shaft deflection to increase bearing, mechanical seal and wear ring life
- Lower maintenance costs resulting from renewable wear rings on all casings and impellers to permit economical restoration of running clearances
- Emissions control with ISO 21049/API 682 seal chambers
- Low-flow, high head stability with Barske-style impeller (WXB-B)

SPECIFICATIONS

Flows to:	Heads to:	Press. to:	Temp:
300 m^3/h (1320 gpm)	1200 m (3940 ft)	150 bar (2175 psi)	-50°C to 200°C (-58°F to 400°F)

WET-PIT

WUJ

Highly engineered heavy-duty, multistage vertical pump for wet-pit or deep well applications requiring continuous, unspared duty in a variety of severe services. Meets or exceeds ISO 13709/API 610 (VS1).

- Maximum design and operating flexibility enabled by modular design system along with mixed or radial flow hydraulics, which enable precise configuration
- Unspared reliability owing to under-critical stiff shaft design, separate axial thrust bearing assembly and pressure-containing parts certified to international standards
- Economical retention of operating efficiency and mechanical stability with casing and impeller wear rings
- Reduced maintenance with flanged spacer-type coupling that permits easy access to the thrust bearings and mechanical seals without disturbing the motor

SPECIFICATIONS

Flows to:	Heads to:	Press. to:	Temp:
3000 m^3/h (13 200 gpm)	2000 m (6560 ft)	200 bar (2900 psi)	-200°C to 350°C(-328°F to 660°F)

SINGLE-CASE AXIALLY SPLIT MULTISTAGE

DMX

With more than 10 000 units supplied, this highly reliable pump is ideal for high-flow, high-pressure applications across the gamut of industries, including oil and gas, chemical and desalination. Designed to ISO 13709/API 610 (BB3) criteria.

- Increased uptime enabled by opposed mounted impellers operating in a double volute casing, which provide inherent hydraulic balance over the full operating range
- Broad application versatility provided by numerous options that permit the pump to be precisely configured for service requirements
- Superior performance at elevated temperatures with near-centerline mounting
- Ease of maintenance facilitated by cap nuts on top half casing parting flange
- Emissions control with ISO 21049/API 682 seal chambers

SPECIFICATIONS

Flows to:	Heads to:	Press. to:	Temp:
5621 m^3/h (24 750 gpm)	2620 m (8600 ft)	275 bar (4000 psi	to 204°C (400°F)

HORIZONTAL MULTISTAGE SINGLE-CASE

WXH and WXM

These high- (WXH) and medium-pressure (WXM), utility-grade, ring section pumps are particularly well-suited for feedwater on industrial boilers from small to large sizes and in combined cycle where severe cycling is common.

- Greater reliability from radially split pressure casings, ensuring overall pump concentricity and rotor alignment
- Improved service life and tolerance to changing conditions due to precision-cast diffusers that equalize radial loads and increase bearing, wear ring and seal life
- Decreased maintenance costs and longer service intervals enabled by heavy-duty rotor with short bearing spans, which minimizes deflection
- Precise hydraulic configuration made possible by the modular segmental ring diffuser design plus numerous options

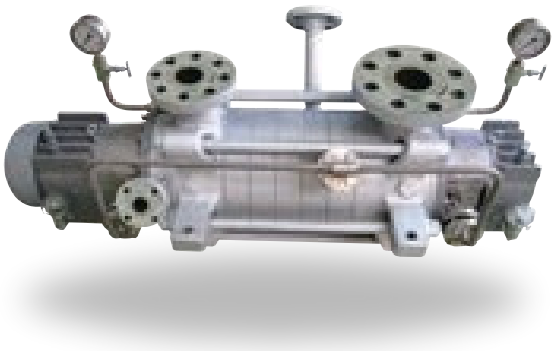
SPECIFICATIONS

Flows to:	Heads to:	Press. to:	Temp:
1000 m^3/h (4500 gpm)	2750 m (9000 ft)	310 bar (4500 psi)	to 250°C (480°F)

HORIZONTAL MULTISTAGE SINGLE-CASE

WX

A radially split, centerline mounted ring section pump, the WX is available in various API 610 material combinations to suit application needs. It provides reliable, efficient performance with total lifecycle cost economy.



- Greater hydraulic performance made possible by separate cast diffusers and channel rings, investment cast for optimum efficiency and repeatability
- Stable high-temperature operation with proper alignment due to centerline mounted, self-venting casing, which resists distortion from thermal expansion
- Improved efficiency at all operating conditions from balanced axial thrust loads enabled by a unique balance drum

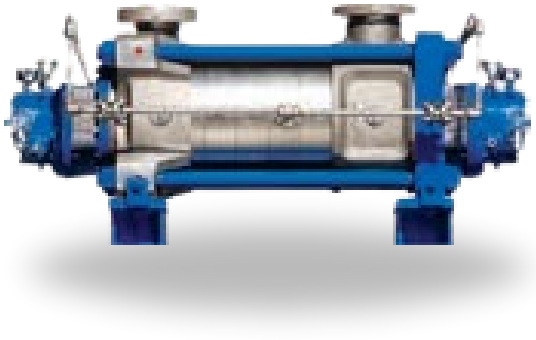
SPECIFICATIONS

Flows to:	Heads to:	Press. to:	Temp:
300 m^3/h (1320 gpm)	1200 m (3940 ft)	150 bar (2175 psi)	50°C to 200°C (-58°F to 400°F)

HORIZONTAL MULTISTAGE-SINGLE-CASE

CSX

The CSX represents the next generation of segmental ring, diffuser-style pumps. Particularly well-suited for reverse osmosis desalination systems, it provides long-term, high-efficiency operation with low lifecycle costs.



- Low energy consumption ensured by advanced hydraulic, precision-cast diffusers and channel rings, high-efficiency impellers and renewable case wear rings
- Prolonged operating life made possible by corrosion-resistant materials of construction (including proprietary Alloy 885) for wetted components
- Easy installation due to symmetrical suction and discharge heads that enable the pump nozzles to be rotated and positioned to suit a variety of piping layouts

SPECIFICATIONS		
Flows to:	**Heads to:**	**Press. to:**
1200 m^3/h (5300 gpm)	900 m (2950 ft)	100 bar (1450 psi)

SINGLE-CASE RADIALLY SPLIT

HDX

In full compliance with ISO 13709/API 610 (BB2) standards, the HDX centerline mounted pump with single- stage, double-suction impeller and double volute casing with top nozzles is engineered for heavy process services.

- Increased uptime enabled by double suction impeller that minimizes thrust problems, reduces NPSHR, and allows mechanical seals to operate at equal and low pressure
- Excellent high-temperature performance provided by centerline mounting plus gasketing with metal-to-metal fit to ensure proper sealing and alignment
- Installation ease with top-top, side-top and side-side nozzle configurations available to meet any customer piping layout
- Safety and environmental compliance with ISO 21049/API 682 seal chambers
- Power recovery turbine configuration (HDX-TT) available

SPECIFICATIONS			
Flows to:	**Heads to:**	**Press. to:**	**Temp:**
5000 m^3/h (22 000 gpm)	450 m (1500 ft)	100 bar (1450 psi)	to 450°C (842°F)

SINGLE-CASE AXIALLY SPLIT

LNN

The LNN boasts a broad hydraulic range with more than 200 impeller and volute combinations, resulting in quiet operation, low NPSH requirements, and high efficiency operation in all water applications.

- Optimal hydraulic balance and efficiency over its full operating range provided by double suction impeller operating in a double volute, axially split casing
- Low inventory carrying cost provided by a high degree of parts interchangeability among sizes and configurations
- Application flexibility enabled by ability to modify pump performance to meet future service conditions by changing impeller designs
- Increased uptime from double-volute design, ample shaft and 360° bearing housings, all of which minimize shaft deflection and vibration to extend bearing and seal life.

SPECIFICATIONS

Flows to:	**Heads to:**	**Press. to:**	**Temp:**
30 000 m^3/h (132 000 gpm)	300 m (985 ft)	40 bar (580 psi)	-20°C to 140°C (-4°F to 285°F)

CRAB & TAUR

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