



exakta

Solutions for
Industrial Processes

Exakta

Industry Sectors

Exakta is present across all major industry sectors, delivering heavy-duty pump systems to some of the world's most challenging processes.

From chemical dosing to liquid transfer, Exakta's broad product range means we're able to offer application-specific solutions that provide precision, consistency and sustainability.



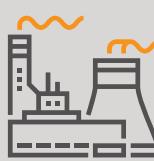
Oil & Gas

From onshore to offshore, dosing solutions in the oil and gas industry must cope with stringent technical specifications and harsh environmental conditions while maintaining consistent performance and high durability.



Chemical & Petrochemical

The chemical and petrochemical sectors present some of industry's most complex dosing challenges, including processes such as refining crude oil into lubricating or fuel oil and the chemical conversion of feedstock into a wide range of chemicals.



Power Generation

Metering pumps are an essential aid to water treatment processes in thermal power plants, with their capacity for achieving highly-accurate dosage and flow rates making them ideal for injecting water-treatment chemicals into make-up water under pressure.



Industrial Effluent Treatment

Industrial operations invariably generate some wastewater including toxic materials, steam condensate and non-biodegradable components. Therefore, proper treatment of this effluent is crucial for both environmental and economic reasons.



Oleochemicals

The oleochemicals industry – the extraction of products such as fatty acids, fatty alcohols, methyl esters and fatty amines – offers a sustainable alternative in the production of toiletries, soaps, food additives, surfactants, detergents and biofuels.



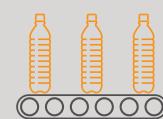
Fertilizers

With their high precision, range of flow rates and robustness, metering pumps enable fertilizer manufacturers to safely and sustainably produce primary and multicomponent fertilizers that can have a significant effect on yield and crop quality.



Desalination

Seawater desalination is an essential process in the supply of potable and irrigation water, where thermal (MSF/MED) and membrane (RO) systems rely on precise and effective chemical dosing in order to prevent biofouling, scaling, foaming and corrosion.



Plastic Production

Metering pumps used for additive injection during manufacture of foam, insulation, protective coatings, adhesives, packaging and countless other plastic-based products must be able to run continuously and withstand toxic and flammable chemicals.



Metal & Mining

In modern steel mills, high temperatures and continuous duty are just some of the challenging conditions faced by pumping systems in the extraction and refining of metal from the ore where versatility is a key asset.



Cement Production

The dosing of chemical additives, treatment of process water and other key applications in cement manufacture require specialist process and metering pumps that can deliver a consistently high product standard.

A key partner to heavy industry

Beginning life as Bono Exacta in 1963, Exakta has become one of the world's leading manufacturers of process and metering pumps for heavy-duty applications.

With vast experience providing integrated and customized dosing solutions across the oil and gas sector, Exakta's expertise means we're a trusted partner of the major players worldwide.



Committed to Customer Satisfaction

At Exakta we work alongside our customers to deliver a bespoke advisory service at every stage. From early project development to on-site installation, we assist in selecting the most suitable accessories, drafting ad-hoc reports, providing technical analysis and issuing predictive maintenance guidance for a complete turnkey service.

Working with sophisticated CAD stations, 3D modelling and FE software, skilled engineers provide design and solution engineering to meet the most demanding international standards including ASME, ANSI, BS and API, tailored to individual project specification.



Certified Manufacturing Processes

Since 1994 Exakta has operated in accordance with ISO 9001 quality management standards, today audited and certified by DET NORSKE VERITAS (DNV). This globally-recognized system ensures customer satisfaction through effective application of processes including:

- Sales process controls to ensure superior customer support
- Design innovation processes that deliver state-of-the-art products for specific applications
- Centralized supply chain controls to minimize delivery times
- Strict quality controls on received and delivered materials

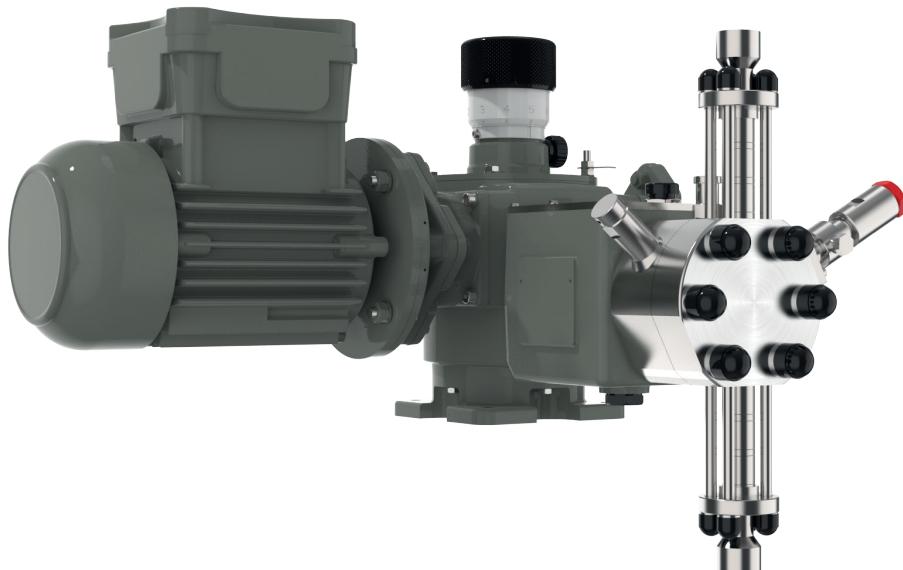
Lean manufacturing processes enable us to be highly flexible and responsive to customer demand and market changes while achieving outstanding environmental performance acknowledged by ISO 14001 certification.

Exakta's dedication to protecting the wellbeing of our employees has been recognised with ISO 45001 certification for occupational health and safety management, confirming an ongoing commitment to reducing workplace risks and creating healthy, safe working conditions for every member of the Exakta team.

Nexa Series

Hydraulic double-diaphragm and packed plunger pumps with full-motion mechanisms

Capable of superior performance in even the most severe operating conditions, the Nexa Series packed-plunger and hydraulic double-diaphragm metering pumps represent one of heavy industry's most versatile, robust and reliable fluid metering and dosing solutions.



Designed to meet API 675 3rd edition standard, compliant to ATEX2014/34/EU, TR CU 004-010-020-012/2011 and alignable with Shell DEP (various), Norsok M-501 & M-630, NACE 0175 specifications, Nexa can be safely operated in hazardous processes, reassuring operators of the pump's suitability regardless of the application.

Compliant to Norsok M-501 & M-630, NACE 0175, ATEX94/9/CE, TR CU 004-010-020-012/2011 and Shell DEP (various), Nexa can be safely operated in hazardous processes, reassuring operators of the pump's suitability regardless of the application.

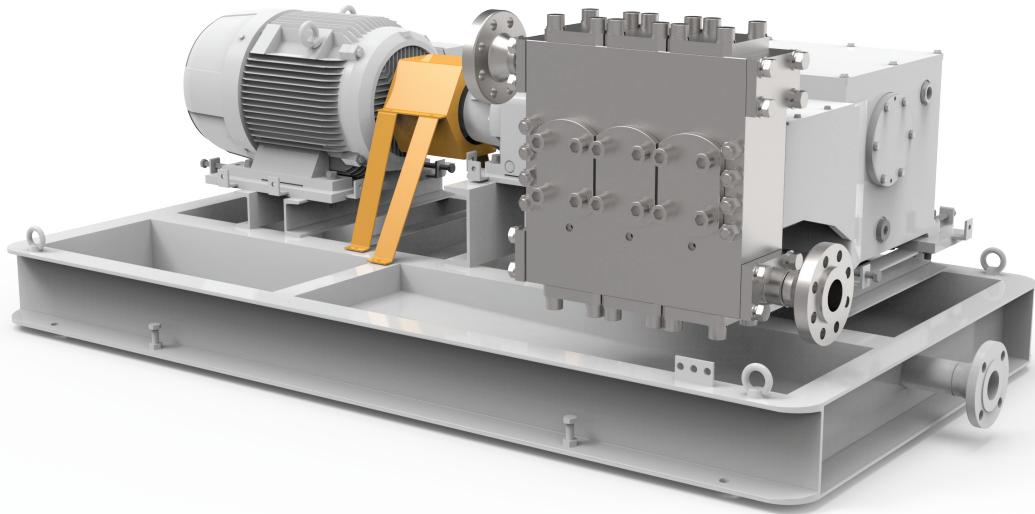
Technical Features

Pressure:	up to 600 barg for hydraulic diaphragm and 650 for packed plunger
Flow rate:	up to 10,000 l/h with a single head
Fluid Temperature:	from -20°C to 80°C (from -40°C to 150°C on request)
Wetted parts:	SS 316L, PP, PVDF and PTFE (exotic alloys available on request)

3C Triplex Pumps Series

Process pumps for high-pressure duties

A flexible, robust and reliable solution to pumping high-temperature, abrasive and viscous liquids in a multitude of industrial applications, the 3C Triplex pump series offers the best total cost of ownership available on the market.



3C Triplex pumps achieve special operating requirements, allowing customers to build the ideal system for the unique demands of their application.

The distinctive design of the 3C Triplex mechanism allows low-speed operation, resulting in reduced wear of moving parts and high reliability.

These pumps are built in accordance with API 674 standards, compliant to ATEX2014/34/EU, TR CU 004-010-020-012/2011 and alignable with Shell DEP (various), Norsok M-501 & M-630, NACE 0175 specifications.

Mechanism

The unique design of the 3C Triplex mechanism allows the pump to operate at a very low speed without forced lubrication, making it ideal for applications requiring a slow plunger motion to avoid cavitation when pumping hot or viscous liquids or fluids with high vapour pressure. The range features:

- Silent and vibration-free operation due to proper mass balancing and sizing. The integral crankshaft and crossheads are supported at both ends, giving precise alignment of the plunger rods for a longer sealing life
- A compact and robust assembly, providing high performance within a minimal footprint
- Low-speed operation without forced lubrication, resulting in reduced wear of moving parts and high reliability, ideal for applications requiring a slow plunger motion to avoid cavitation.

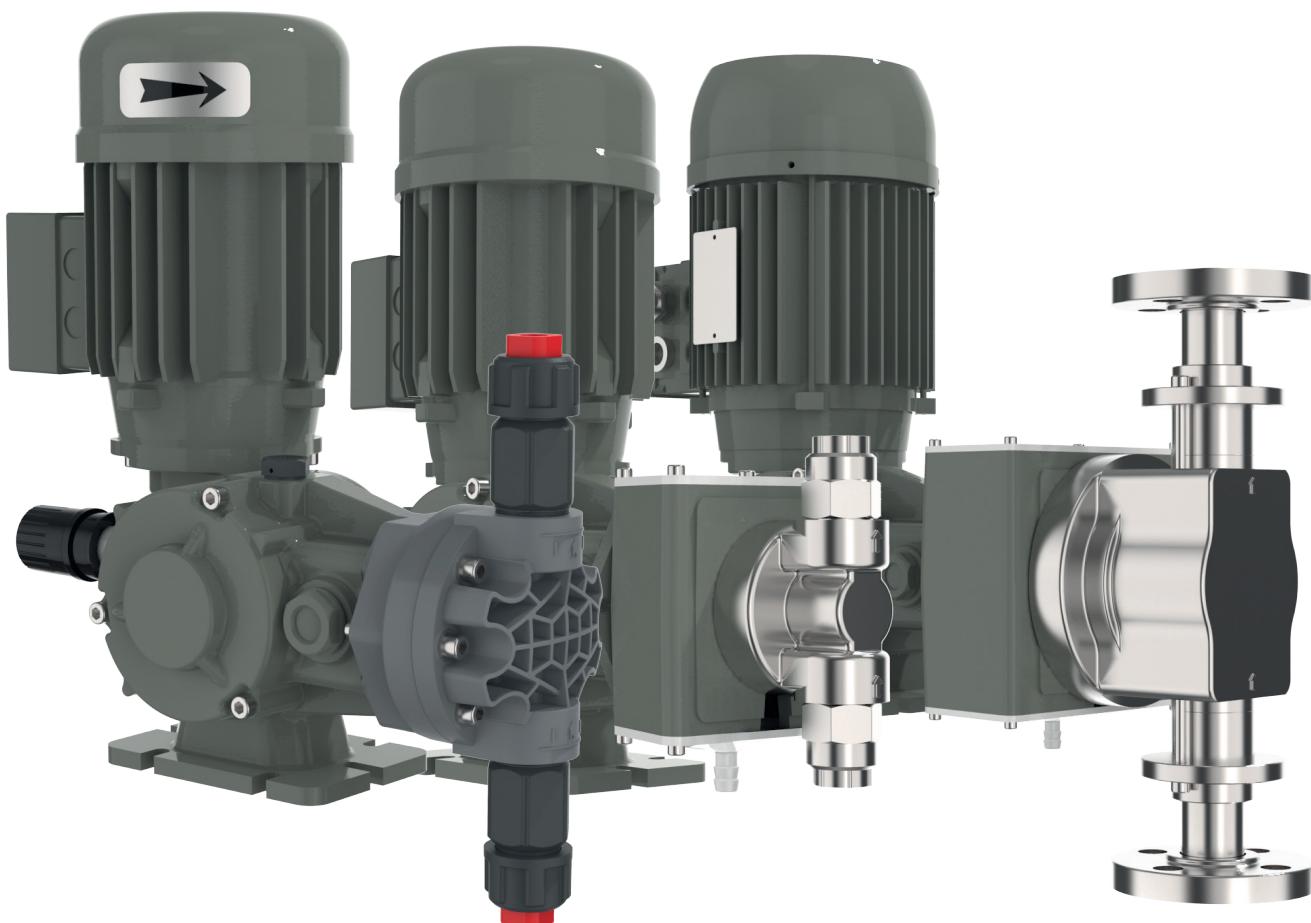
Technical Features

Capacity range:	up to 65000 l/h, up to 1150 bar
Wetted parts:	SS 316 L, LTCS, Super Duplex, different material (on request)
Flow rate adjustment:	by frequency converter
Compliance:	with international standard approvals as API 674, ASME, TR CU 012/2011

Radix Series

Mechanical diaphragm and plunger spring return pumps

Consistent, economical and robust, the Radix series offers the ideal solution for the high-precision injection and metering of industrial chemicals in multiple application fields including water and wastewater treatment, desalination and cement production.



Technical Features

Pressure:	up to 20 bar for plunger head configuration, up to 10 bar for diaphragm configuration
Flow rate:	up to 1000 l/h
Mechanical diaphragm:	PTFE
Piston:	available as standard in SS 316 or ceramic
Wetted parts:	SS 316L, PVC, PP and PVDF



www.exakta.com
www.exaktasaudi.com

Exakta reserves the right to amend and change specifications without prior notice. All pictures shown are for illustration purpose only. Actual product may vary due to product enhancement. Published data may be subject to change.

© 2024 EXAKTA, Layout and origin: UK, 850001 SIPFLY EN V01