

Chemical Injection for Oil & Gas



For more than 75 years, Bran+Luebbe has been providing customers with high-quality metering, processing, and analyzing equipment.

As part of the global SPX Corporation, we are one of the world's most reputable manufacturers of metering and process pumps and process systems, as well as analyzing technologies. Our engineers have comprehensive process and applications knowledge across a wide range of markets. This has resulted in product innovations and developments that harness the latest technology while meeting the highest quality standards.

SPX Corporation (NYSE: SPW) is a global, multi-industry manufacturing leader with approximately \$5 billion in annual revenue, operations in more than 35 countries and over 14,000 employees. The company's highly-specialized, engineered products and technologies are concentrated in Flow Technology and energy infrastructure. Many of SPX's innovative solutions are playing a role in helping to meet rising global demand for electricity and processed foods and beverages, particularly in emerging markets. The company's products include food processing systems for the food and beverage industry, critical Flow components for oil and gas processing, power transformers for utility companies, and cooling systems for power plants. For more information, please visit www.spx.com.

Chemical Injection Units

Within the oil & gas industry, the requirements for Chemical Injection Packages are very diverse depending on the application and location, the number of chemicals and injection points, and changes to production conditions and output.

Utilizing our wealth of experience and expertise, Bran+Luebbe Chemical Injection Systems are consistently designed, manufactured, tested, and certified to meet the specific customer and industry needs.

Our clients include major engineering contractors and major end users/operators world-wide.

EXAMPLES OF THE TYPES OF PACKAGES THAT DEMONSTRATE THE FLEXIBILITY AND VERSATILITY OF BRAN+LUEBBE EQUIPMENT ARE :



Basic injection pump packages

Mobile injection packages for remote locations



Compact duty/standby pump packages

Similar to multi-pumphead skids, with facility of one or more additional pumps



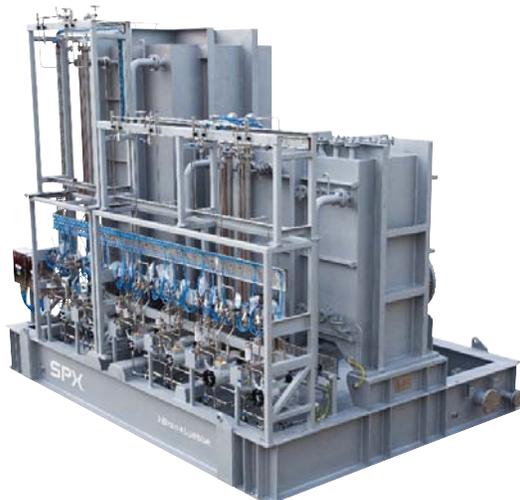
Multi-pumphead packages

Manifolded together to achieve higher flowrates



Multi-compartment chemical storage and pumping packages

More than one chemical/injection point



Typical product applications

Exploration and drilling

- Enhance drill cutting removal and formation protection (drilling fluid additives)



Oil & gas production (primary recovery)

- Three-phase separation (oil, water, gas)



Oil & gas production (secondary/tertiary recovery)

- Produced water, seawater, gas injection



Transport/storage

- Transmission and storage



Terminals/refineries

- Refining and processing

Chemicals/fluids

Antifoam

Methanol

Biocides

Oxygen scavenging

Condensates

Polyelectrolytes

Corrosion inhibitors

Polymers

Demulsifiers

Pour point depressants

Flow improvers

Scale inhibitors

Glycol

Wax inhibitors

Hypochlorite

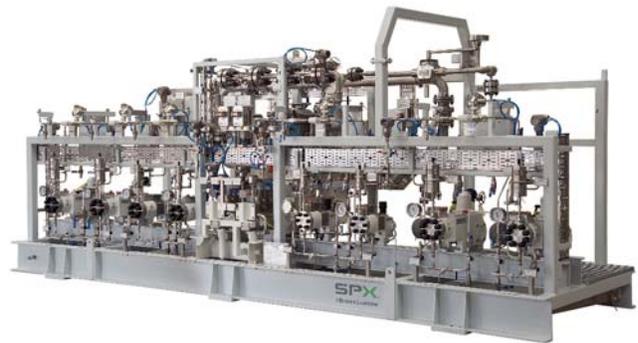
Duty standby chemical injection package for offshore installation



Corrosion inhibitor skid for onshore gas plant



Norsok compliant multi-pump chemical injection package for offshore platform



Multi-compartment chemical storage and injection package for offshore installation



Compact two-tier package designed to provide storage and injection of wax inhibitor and scale inhibitor, on a bunded base frame, within a very tight space constraint, on an existing platform



Glycol and corrosion inhibitor package for onshore use at a gas storage plant. Package incorporates a double wall tank with leak detection system, IBC laydown area, injection pumps system, and rain shelter



Flocculant multi-headed pump package for offshore platform



Chemical dosing skid for sulphate removal module on Floating Production Unit (FPU)



Chemical injection package for offshore production platform



Corrosion inhibitor package for harsh desert environment



Methanol injection package incorporating Bran+Luebbe double diaphragm, double-acting pumps for offshore platform



Chemical dosing and pH control system for polyethylene facilities



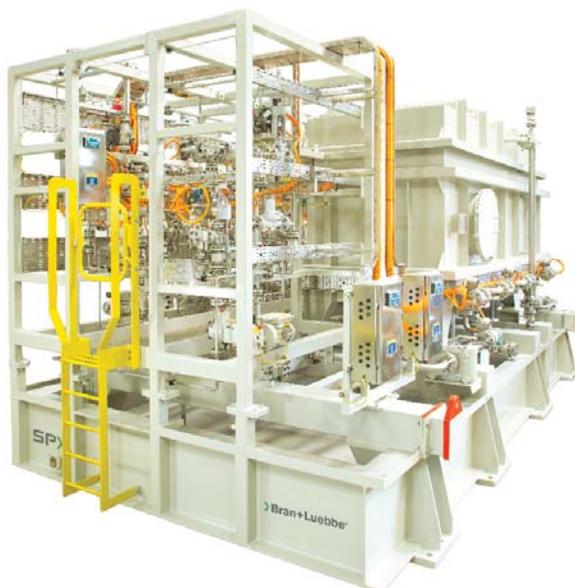
Highly reliable Chemical Injection Packages for harsh environment offshore production platforms

Packages supplied:

- Production water chemical injection
- Water chemical injection
- Lo-sal (low salinity) chemical injection for enhanced oil recovery (EOR)
- H₂S scavenger chemical injection
- Calcium nitrate injection

Materials used:

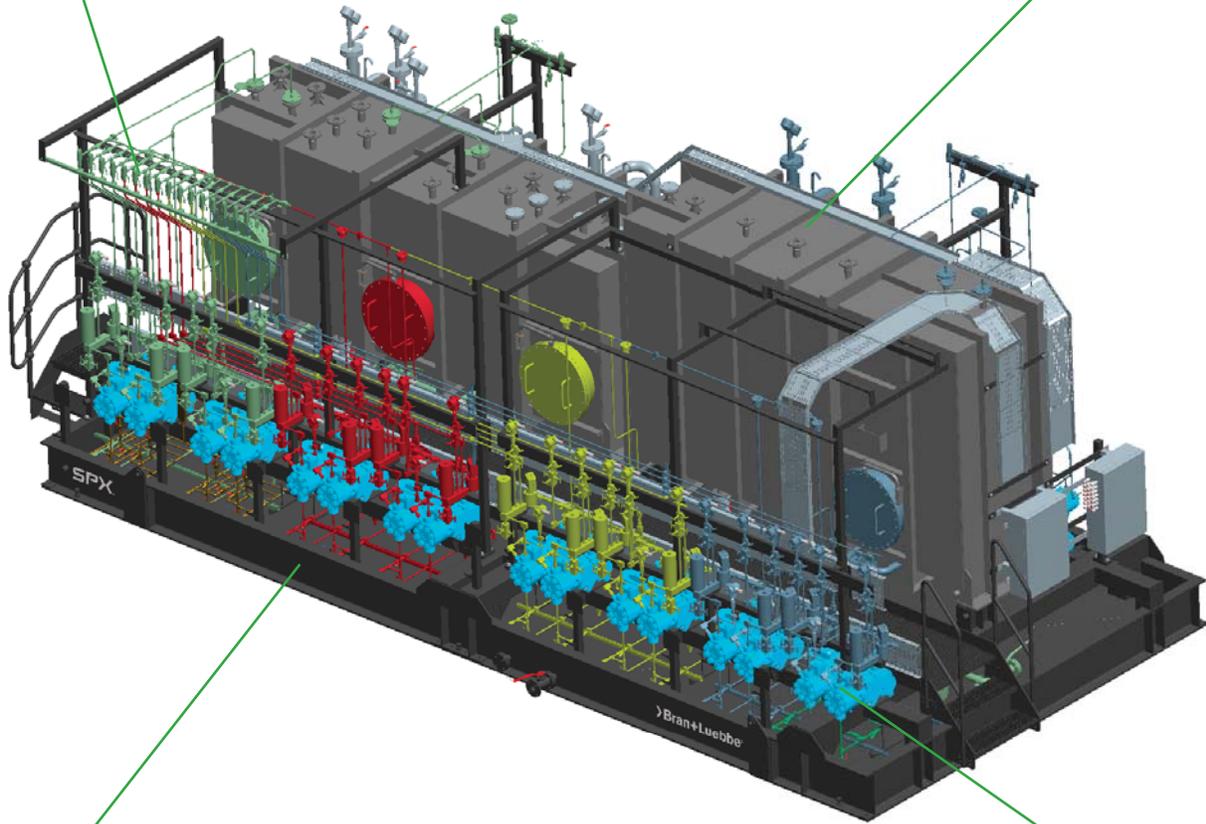
- 316L/316 ss
- 904L ss
- 6Mo
- Titanium



3D Design

Pipework neatly designed and fabricated with termination points all at one end of the package

Multi-compartment stainless steel storage tank



Base frame c/w drip tray designed to accommodate all the equipment

Bran+Luebbe double diaphragm two-headed metering pumps

Complete package designed and fabricated to withstand all environmental conditions, transportation, and operational loads



Solar Powered Packages

- Compact 24V DC ExD packages
- Completely self-contained, including solar panels and battery back-up
- No external power supply required
- Local and remote diagnostic pump monitoring system available
- Leak-free double diaphragm technology
- Typical applications :
 - Remote wellhead locations (onshore and offshore)
 - Water treatment plants



Flow Control Valve Panels

- Flow distribution panels using self-regulating injection metering valves
- Multi-injection points, each individually adjustable with either a dedicated or common flow meter
- More than one chemical can be accommodated
- Duty/standby pumps typically recommended per chemical on main package
- Panels supplied as stand-alone or incorporated onto the main injection package
- Ideal for FPSO Turret installation to limit flexibles to one per chemical
- Design provides space, weight, and cost savings



The Benefits of Bran+Luebbe's Package Approach

- Single source — single accountability
- Purpose designed and built to specifications
- Space efficient
- Minimize on-site installation
- Fast and easy to operate and maintain
- Fully tested, proven, and certified before installation
- Long-term service support
- Peace of mind, dealing with a highly professional company
- Certified to ISO 9001:2008 quality management systems and OHSAS 18001:2007 health and safety systems

Metering & Process Pumps

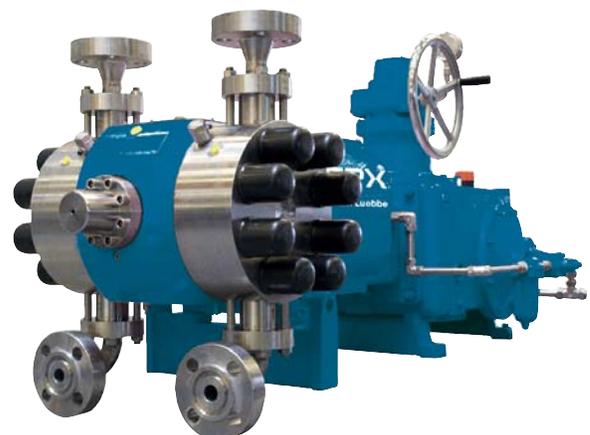
SPX is a leading supplier of chemical dosing pumps and systems to aid the recovery of oil & gas, both offshore and onshore.

With over 80 years of experience in the supply, installation, and maintenance of these systems, SPX offers a high level of expertise to the industry.

BRAN+LUEBBE METERING PUMPS

SPX can offer Bran+Luebbe brand metering pumps in a wide variety of design configurations and operating features such as :

- Standard plunger pumps
- Leak-free double diaphragm pumps
- Double-acting double diaphragm pumps
- Fixed or variable speed drive
- Manual, electric, or pneumatic flowrate control options
- Horizontal and vertical combinations
- Simplex and multiplex range
- Modular design concept permits future expansion
- High accuracy
- High repeatability
- Robustness and durability
- Space efficiency
- Low and high pressure capability up to 1000 bar (14,500 PSI)



Bran+Luebbe NOVAPLEX Process Pumps

- Flexible high-performance double diaphragm fixed stroke length process pumps
- Technology offers leak-free operation whilst providing benefits of high reliability, operating integrity, and easy maintenance
- Modular construction, allowing a combination of up to seven pumpheads on a single unit
- Ideal for toxic or chemically aggressive liquids and slurries
- Exclusive use of anti-friction bearings reduces energy consumption to almost theoretical minimum, giving minimised life-cycle costs
- Low and high pressure capability up to 1000 bar (14,500 PSI)
- Wide operating capacity 70 m³/hr (308 gpm)





ACHILLES FIRST POINT ASSESSMENT

SPX is proud to highlight the registration of its Bran+Luebbe industry approved products and services on the Achilles First Point Assessment database.

SPX's Bran+Luebbe Oil and Gas Department has an established system that has been providing Achilles FPAL with performance feedback for several years.

In addition to this, SPX has a completed capability profile that is available to all buyers on the Achilles FPAL website.



AFTER-SALES SUPPORT

- Original spare parts – Simple to order by telephone, email, or fax
- Service contract – Annual planned maintenance with pre-ordered parts required for service
- Field service – On-site repairs both onshore and offshore with support usually available in 1 to 3 days
- Return and repair – Complete in-house repair with test and certification as required
- Technical support – Telephone contact for technical advice, installation and start-up assistance, equipment inspection and assessment, and modification of existing equipment
- Training – Maintenance, operator, and repair training
- Commissioning – Installation and start-up service

Global locations

EMEA

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