No noise hydraulic pumps
Applications presentation
Energy Saving Systems

Hydraulic press servo drives have been on the market since many years. In Asia most of the market of plastic injection molding machines is using variable servo drive motors and fixed displacement pumps, like external gear, vane or internal gear pumps. The usage of this type of systems enables energy savings up to 65% when compared to conventional drive systems (fixed speed motor and variable displacement hydraulic pumps).

Today, more than 100,000 servo drive systems are used in the manufacturing process of hydraulic presses. This kind of systems, while reaching real energy savings, also enables huge simplifications of the hydraulic circuits: no more proportional valves or complicated hydraulic pressure feedback are needed to control the press actions and cycles.

Servo pump systems use motor speed between nearly 0 and 3,000 RPM, to enable very fast movement of the molds and a high cycle dynamics.

Settima package is suitable for press modernization and revamping. It’s possible to remove all of the old and noisy hydraulic components and to replace them with our system, making the old machines more flexible and quieter than ever.

The SMT pump can manage high and low viscosity fluids and coolant oils. It is profitably used in any oil circulation activity and industrial applications up to 100 bar. A model for USA market (SMAT) is available.

The CONTINUUM® no-noise low-pulsations helical rotor pump, with its internationally patented design, is perfect for a wide range of high-pressure applications (ranging from industrial to mobile and marine), up to 300 bar.

The PID control variable-flow frequency inverter system has been designed with the goal of save energy, thus lower costs while being eco-friendly. This system can be installed on any tool machine without modifying the machine itself.

The Continuum® servo pump is used in the market of presses since 2008. Easy to install, it enables the press designers to reach wide speed dynamics in heavy duty pressing cycles without noise, and with real energy savings.

Did you know? Settima energy saving systems are designed to be extremely easy to install on a system. They can be mounted on any tool machine or system, without any re-engineering or modification needed!
Plastic Injection Molding Machine

Settima, for use in Plastic Injection Molding Machines (PIMs), proposes several pumps, in order to meet all the machines’ needs: the SMT16B and SMT8B screw pumps, for the cooling and filtration systems, and the Continuum® helical rotor pump, for the power hydraulic systems.

The SMT8B pump, designed for low-pressure applications, due to an extremely compact body is perfect for closed-loop circuit chiller units as well as low-pressure filtration units. The SMT16B, for medium-pressures, up to 40 bar, is fit to be used both on bigger filtration systems and on more powerful chiller units, pumping the low-temperature coolant oil from the reservoir tank to the connected machine, and due to its greater pressure is able to manage multiple coolant nozzles.

The Continuum® pump, able to manage pressures up to 300 bar, due to the patented no-noise low-pulsations helical rotor, it drastically lowers the noise pollution. Thus, it is perfect for applications where noise pollution abatement is an irreplaceable quality, such in an industrial environment, where lower noise means better quality of work.

Additionally, a Magnetic Coupling assembly option can be provided for every Settima pump, ensuring that no leakage of fluid will ever happen, thus increasing the lifespan of the machine and minimizing the chance of a failure.

The SMT16B pump has the widest range of applications, including cooling, filtration, mineral and synthetic oil plants, and industrial applications up to 40 bar. A model for USA market (SMAT16B) is available.

The SMT8B pump is mainly utilized in compact cooling and filtrations plants and industrial applications up to 15 bar. A model for USA market (SMAT8B) is available.

A hermetically sealed magnetic coupling is available (as option) for all pump models to replace standard seals. In case of critical media the magnetic coupling is a reliable seal and prevents any serious leaking.

The CONTINUUM® no-noise low-pulsations helical rotor pump, with its internationally patented design, is perfect for a wide range of high-pressure applications (ranging from industrial to mobile and marine), up to 300 bar.

Did you know? Settima SEAL-LESS MAGNETIC COUPLINGS PUMPS have been chosen by one of the world’s leader in plastic injection molding machines as the safety measure of choice. Settima MAGNETIC COUPLINGS PUMPS are installed over the PIM machines used to produce one of the most loved toys for children all over the world, the LEGO® blocks, to prevent any fluid leakage that could possibly contaminate the products. Settima scores another point in ensuring safer conditions at work and home, and a cleaner world!

(LEGO® is a registered trademark of LEGO Group, and it is reported here for information purposes only)
**Tool Machines**

**Settima** three-screw and gear pumps for tool machines are perfectly suited to manage the various operations of cooling, lubrication and cleaning. **Settima** pumps can easily support **coolant fluids up to 4 cSt at 100 bar**, water/glycol emulsions, mineral and synthetic oils and cutting fluids, to serve all the needs of the tool machines.

For the specific cooling, lubrication and cleaning services, **Settima** offers:

- For **Cutting/Grinding/Milling Tool Cooling** and **BurrS Cleaning**, the **SMT HA G TMK**, suited for dirty water/glycol emulsions and cutting oil.
- For **Mandrel Cooling**, the **SMT8B, SMT16B** and the **Continuum®** pumps, able to manage very clean water/glycol emulsions in a pressure range from 0 up to 300 bar.
- For **Linear Guides Lubrication** and **Cooling**, the **SMT8B, SMT16B** and the **Continuum®** pumps, suited for clean hydraulics oils and emulsions at a wide range of pressure.
- For **Pedestal Cooling**, the **SMT8B** and **SMT16B** pumps, perfect for handling cutting oils and water/glycol emulsions, both clean and dirty.
- For **Hydraulic Power Jaws**, the **SMT** and the **Continuum®** pumps, able to manage clean hydraulic oils and sustain the high pressures needed.

Choose the products that meet your needs.

---

Did you know? Noise emission in a tool machine is the by-product of vibration. Vibration poses its own issues to be solved, starting with the fact that a vibrating tool machine can be less accurate in manufacturing and/or grinding metal parts. With **Settima Continuum®** two issues are solved. The first one, a no-pulsation pump generates trascubably low levels of vibration, thus magnifying the precision of the work processes. The second one, a silent pump can reduce noise emission by an average of 15 dB less than standard gear pumps, and provide a more silent, more comfortable work environment, thus maximizing productivity!
Applications

Presses

For the Presses application, Settima propose its most advanced and revolutionary product: the Continuum® pump.

For its unique nature, presses need to operate at very high pressures and possibly high flows, in large places without noise barriers. It is therefore of the utmost importance to have pumps that not only provide adequate performances, but also that reduce noise emissions to a minimum, to ensure a safer, less chaotic and more comfortable workplace, thus magnifying efficiency and productivity.

The technical features of Continuum® pump, high pressure, low noise, compact design, are extremely well suited for application in presses. The revolutionary no-noise low-pulsations helical rotor is ideal where noise pollution abatement is of critical importance. Furthermore, if there should be the need to heighten the flow, or of a more accurate control of the flows in certain operations, multiple Continuum® pumps can be combined in a single group.

With Continuum® pump, industrial workplaces can be no more synonymous of dangerously high noise levels.

The SMT pump can manage high viscosity fluids and is profitably used in windmill application as well as in any oil circulation activity and industrial applications up to 100 bar. A model for USA market (SMAT) is available.

Settima Flowmeter is especially designed for the metering of viscous fluids. The unit works volumetrically according to the principle of screw transmitters with high accuracy. It can operate up to a viscosity of 40.000 cSt.

The CONTINUUM® no-noise low-pulsations helical rotor pump, with its internationally patented design, is perfect for a wide range of high-pressure applications (ranging from industrial to mobile and marine), up to 300 bar.

A hermetically sealed magnetic coupling is available (as option) for all pump models to replace standard seals. In case of critical media the magnetic coupling is a reliable seal and prevents any serious leaking.

The CONTINUUM® pump can be combined in a multiple configuration system (managing fluids from different tanks if needed), to be used in closed loop circuits, when there's need to drastically heighten the flow or to save space.

Did you know? Settima CONTINUUM® NO-NOISE PUMP has become the pump of choice for many industrial presses producers. Presses applications are widely used in all manufacturing plants, and they represent a very large portion of CONTINUUM® customers!
Mobile

For the Mobile industry, Settima has developed two concepts among the most innovative and revolutionary on the market: SMT8B and Continuum®.

The operations of cooling, filtration and low-pressure recirculation of earthmoving machinery, are entrusted to a pump, which is unique both for its compact size and for the efficiency of performance: the series SMT8B.

The technical features of Continuum® pump, high pressure, low noise, compact design, are ideally suited for application in power units, mobile compactors, and steering units. The Continuum® pump is also fully interchangeable with gear or vane pumps, and particularly suited for applications where noise pollution abatement is an irreplaceable quality, especially taking into account that protecting the quality of the work has become increasingly synonymous of cost control and productivity improvement.

Choose the products that meet your needs.

Did you know? Settima CONTINUUM® NO-NOISE PUMP has been chosen by an important Italian waste compactor vehicles manufacturer. Several municipalities of the Trentino Alto Adige, a mountainous region renowned for eco-sensitivity and attention to the quality of life of both its citizens and its tourists, needed a reasonably quiet and extremely efficient service of garbage disposal, and Continuum®-equipped compactors, keeping noise emission to a minimum level, were the only satisfying solution!
Material Handling

In the Material Handling equipment sector, there are two main issues to solve: the need of high pressure pumps to face the problems of movement, storage, control and protection of materials, goods and products, and the need to keep the workplace as safe and as comfortable as possible, especially considering that bettering the conditions of work environments has become increasingly synonymous of cost control and productivity improvement.

Settima, first all over the world, has developed an innovative and revolutionary pump, internationally patented: the Continuum®.

The technical features of Continuum® pump are: high pressure, low noise, compact design, full interchangeability with gear or vane pumps. They are perfectly suited for application in forklifts. The Continuum® pump has the high-pressure capabilities of a gear pump, but thanks to the patented no-noise low-pulsations helical rotor, it drastically lowers the noise pollution. Thus, it is perfect for applications where noise pollution abatement is an irreplaceable quality.

Choose the products that meet your needs.

Did you know? Settima CONTINUUM® NO-NOISE PUMP has been adopted by a material handling equipment manufacturer for a low-noise forklift model series. The company, with offices and production facilities in both Italy and Ireland, received a specific request by some of its clients. They had to manage very large warehouses, with many forklifts operating in closed spaces, and the noise level was a serious issue. The Continuum® pump on a specifically designed forklift series solved their problems!
Industrial

**Settima** is constantly involved in research and development of innovative solutions to be applied to hydraulic systems used in industrial applications.

After thirty years of activity, **Settima** offers a very wide range of products, in order to meet industrial requirements. **Settima** makes available various models of screw pumps for hydraulic power, usable in presses, machines for sheet metal working, hydraulic winches, and also for Hydro Power, in particular for the lubrication of turbines and compressors, the industries of paper and sugar.

**Settima** is the only company able to provide the industry a product, the **Continuum®** pump, which, while working at high pressure, is able to eliminate one of the largest and seemingly unsolvable problems, the **noise level**. Unlike the traditional hydraulic pumps such as gear and vane pumps, the noise of **Continuum®** is **almost inaudible**. With **Continuum®**, for the first time, the hydraulic pumps are no longer synonymous of noise.

In the industrial machines sector, **Settima** is, thanks to the **Continuum®** pump, an important reference point, with excellent results, especially in the development of servo drives and power circuits of machines for plastic injection. **Continuum®** is also used in high pressure filtration and cooling of machines for milling, grinding, multitasking machining centers, drilling, metal processing machinery and saws.

Choose the products that meet your needs.

---

Did you know? **Settima CONTINUUM® NO-NOISE PUMP** has been installed in a dark ride present in several DISNEY amusement parks, in Los Angeles, Orlando and Hong Kong. The rail of the dark ride was running along the control unit, in which was installed a common, very noisy gear pump. The operators tried to solve the problem by raising the background music volume, to cover the noise, but when it failed, they went for the **most silent gear pump in the world**, the **Settima CONTINUUM®**, solving the issue!
Settima has addressed the needs of the Cooling applications market, by developing two three-screws pumps, the SMT8B pump and the SMT16B pump. Both of these pumps are specifically designed with the high-technology, high-efficiency, low noise capabilities typical of Settima products, to be used in fan cooler units and in more complex coolant oil refrigeration systems.

The SMT8B pump, designed for low-pressure applications, due to an extremely compact body is perfect for small fan cooling units as well as for closed-loop circuit chiller units, pumping the coolant oil from the reservoir tank to the refrigerator unit and then, when the liquid had lost heat, back to the coolant reservoir tank.

The SMT16B, for medium-pressures, up to 40 bar, is fit to be used both on bigger and more powerful fan cooling units, and on chiller units, pumping the low-temperature coolant oil from the reservoir tank to the connected machine, and due to its greater pressure is able to manage multiple coolant nozzles.

Choose the products that meet your needs.

The SMT16B pump has the widest range of applications, including cooling, filtration, mineral and synthetic oil plants, and industrial applications up to 40 bar. A model for USA market (SMAT16B) is available.

The 2VHL CONTINUUM® no-noise low-pulsation helical rotor pump is especially designed for use in extreme environments, for windmill plants, marine and industrial low-pressure applications up to 40 bar.

The SMT8B pump is mainly utilized in compact cooling and filtrations plants and industrial applications up to 15 bar. A model for USA market (SMAT8B) is available.

Settima Flowmeter is especially designed for the metering of viscous fluids. The unit works volumetrically according to the principle of screw transmitters with high accuracy. It can operate up to a viscosity of 40,000 cSt.

Did you know? Settima designed and built, for an Australian company specialized in refrigeration units, four custom pumps for a cooling service able to manage an inlet pressure up to 20 bar. The pumps were installed in a propane-compressor lube oil cooling system.

The SM pump has been produced since 1978. These pumps are used in lift and elevators applications up to 80 bar and with VF motors in energy saving systems. A model for USA market (SMU) is available.

A hermetically sealed magnetic coupling is available (as option) for all pump models to replace standard seals. In case of critical media the magnetic coupling is a reliable seal and prevents any serious leaking.
Applications

Filtration

Settima in the filtration applications proposes a three-screws pumps range of products: the SMT pump, the SMT16B pump and the SMT8B pump.

The SMT pump is able to manage high pressures, the SMT16B is perfect for medium pressures, and the SMT8B, with is extremely compact design, is perfect for low pressures and small plants.

The three pumps also offer a range of flow capacity so wide to meet any request for any type and dimension of filtration plant.

Choose the products that meet your needs.

Did you know? Settima three-screw pumps are ideal for filtration systems. A standard gear pump generates a certain level of pulsation. Those pulsations push repeatedly the impurities against the filter, thus slowly widening its mesh, until they will be able to slip off. A continuous, non-pulsating flow, like the one generated by three-screw pumps, creates the right conditions for the filter to function at optimal capacity.
Applications

Oil & Gas

For the Oil & Gas applications Settima offers several three screw pumps series designed in compliance with the latest API676 regulations, with the abitual high efficiency and quality of all Settima products.

Settima three screw pumps are suitable for transfer, circulation and mixing of clean fluids with lubricating power, at low and high viscosity, such as oil, crude oil and fuel oil, but also for the lubrication at medium viscosity, with lubricating oil, fuel or paraffin.

Choose the products that meet your needs.

Did you know? Settima pumps aided a project of an Italian society in the top ten Oil & Gas producers worldwide: Settima SMAPI API676 pumps were utilized for diesel oil transfer during to only voyage of the FSRU Toscana, the colossal floating gas storage/production facility offshore Livorno. All the previous pumps were unable to manage the extreme stress of fuel injection and power generation onboard, and they failed.
API614 Lube Oil & Gas Seal Control

API614, Fourth Edition, chapter 3 (1999), defines the requirements of components for general purpose lube oil systems. It also, for the first time, sets an industry accepted standard for oil-type shaft-sealing systems and dry gas face-type shaft-sealing systems. These systems may serve equipment such as compressors, gears, pumps, and drivers, and this standard is intended to be used for petroleum, chemical, gas and other industries.

The latest edition of the API requirements states that in order to be compliant with API614 norms, positive displacement screw pumps must be designed to follow the API676 standards.

Settima SMAPI for API676 has been designed to be fully compliant with those rigid standards. The pump is available in several sizes, from the compact GR 20 to the huge and incredibly powerful GR 180, to cover all possible applications.

SMAPI for API676 has become the pump of choice for difficult and demanding naval and industrial installation.

The SMAPI pumps are manufactured according to API 676 3rd edition. They are used in marine applications for boiler ignition / feeding and fuel transfer up to 60 bar.

Settima Flowmeter is especially designed for the metering of viscous fluids. The unit works volumetrically according to the principle of screw transmitters with high accuracy. It can operate up to a viscosity of 40,000 cSt.

A hermetically sealed magnetic coupling is available (as option) for all pump models to replace standard seals. In case of critical media, the magnetic coupling is a reliable seal and prevents any serious leaking.

Did you know? Settima Meccanica is the only European pump manufacturing company (and one of the very few worldwide) which is able to design and manufacture a 100% API676 compliant pump. Settima can provide the clients with the pumps and all the necessary documentation and certifications to meet the severe American Petroleum Institute standards. Ask Settima for the SMAPI676 100%!
Power Generation

The success of Settima in the Power generation sector is the result of a technological design that is renewed every day, to provide quality products and high energy savings.

Settima has developed pumps for the transfer and loading of various types of oils and all the lubricant fluids, covering the requirements of lubrication, filtration and cooling of turbines and compressors. In particular, Settima products are used in Lube Oil cooling services and applications, and in Oil Jacking systems, where the jacking oil pumps ensure there is no direct metal contact between a journal and the bearing of the huge shafts of steam turbines, thus greatly reducing friction and bearing wear.

Settima pumps are widely used in tandem solutions for feeding and injection systems for burners, for corrosive liquids and oil at high temperature, or in Seal Oil systems, diverting a portion of lubrication oil to hermetically close the seals ensuring no gas leakage.

Settima is the partner of many leading engineering firms, major equipment manufacturers (OEMs) and end-users, so it is now a well-known name in the industry.

Choose the products that meet your needs.

Did you know? Settima SMAP1 (API676) GR180, the largest three-screws pump ever built in Settima, with a total motor pump unit length of 3 meters and a weight just short of 2 tons, able to manage a flow of 250L m3/hour at 1.800 rpm, has been specifically designed and manufactured to be used in a very large power plant in South Korea!

www.dmliefer.ru
Windmill

The Windmill application is a very demanding one for the hydraulic pumps industry. Nearly half of the utility grade wind turbines currently in service depend on hydraulic pitch and yaw controls. Many of the others may incorporate the use of hydraulics for braking or utilize a forced lubrication system.

Since maintenance costs are very high and turbines can be quite difficult to reach, they must run unattended for more than 5 years of continuous operations. Thus, it is expected from all parts to run without maintenance, all year round, with a Medium Time Before Failure (MTBF) in excess of 100,000 hours. To this end, all parts and components manufacturers must guarantee a lifetime of more than 20 years in extremely harsh conditions.

For the Windmill application Settima has faced the many challenges posed by these difficult parameters by developing a range of pumps particularly able to withstand the rigors of windmill installation, both on the ground and in open sea: the SMT SN pump, the SMT16B pump, and the 2VHL Continuum® pump.

Settima pumps are of the highest quality: they can manage a viscosity of up to 100,000 cSt, all parts are sourced from first class certified suppliers, built with stainless steel fixing screws and hard anodic oxidation (MIL A-8625F and UNI 7796 compliant) to avoid corrosion damage. Additionally, a Magnetic Coupling assembly option can be provided for every Settima pump, ensuring that no leakage of fluid will ever happen, thus increasing the lifespan of the windmill and minimizing the chance of a failure.

Choose the products that meet your needs.

The SMT pump can manage high viscosity fluids and is profitably used in windmill application as well as in any oil circulation activity and industrial applications up to 100 bar. A model for USA market (SMAT) is available.

A hermetically sealed magnetic coupling is available (as option) for all pump models to replace standard seals. In case of critical media, the magnetic coupling is a reliable seal and prevents any serious leaking.

The SMT16B pump has the widest range of applications, including cooling, filtration, mineral and synthetic oil plants, and industrial applications up to 40 bar. A model for USA market (SMAT16B) is available.

The 2VHL CONTINUUM® no-noise low-pulsation helical rotor pump is especially designed for use in extreme environments, for windmill plants, marine and industrial low-pressure applications up to 40 bar.

Did you know? Settima 2VHL CONTINUUM® is one of the most durable pumps on the market. With its body made of cast iron, and its helical rotors manufactured with high-strength hardened steel, the 2VHL CONTINUUM® can easily manage a fluid viscosity of 100,000 cSt and remain fully operational from -50°C up to 150°C, in the most extreme conditions, without shortening its lifespan. The 2VHL CONTINUUM® has therefore become the pump of choice for difficult and demanding installations, like inside windmills on the open sea, where its reliability and resistance to stress can truly be taken advantage of to a full extent!
Lube

Lubrication systems are a critical part of all industrial machinery, to protect the gears from wear and corrosion, to reduce friction and to transfer heat from the moving parts of the machines.

Settima offers both three-screw and helical rotor pumps. The three-screw traditional ones are the SMT pump and the SMT16B pump, while the helical rotor is the Continuum® pump.

The Continuum® helical rotor pumps are designed for loading, stripping, moving and transferring fluids with good lubrication properties, medium and high viscosity fluids such as lubricating oils, at high pressures, and all of this with the lowest noise emissions on the market.

With Continuum® noise pollution on the workplace is a problem no more, thus increasing the safety, comfort and productivity.

Choose the products that meet your needs.

Did you know? Settima built several SMAPI 100% API676 compliant and supplied them to the Shin Nippon Project. Those SMAPI, thanks to a high-reliability mechanical seal, were fully complying with the API 682 requirements, and so they were certified by the American Petroleum Institute!
Settima is able to offer a full solution for engine rooms, a plant perfect for fuel oil handling (low and high temperature, low and high viscosity). Settima is also able to cover the needs of ships of different types and sizes, up to the biggest cargo container ship, with products tested for a long life cycle, with low running costs and maintenance. For the marine sector Settima offers a wide range of three screw pumps (fully compliant with API676 and ISO8217 international regulations), and helical rotor pumps.

Settima also ensures the ready availability of spare parts as the sector requires, by maintaining a constant availability of products in stock to guarantee prompt and fast deliveries with the lowest delay.

Settima pumps are widely used in the transfer, filtration, cooling, control and movement of the oil for diesel engines, gas turbines and reducers. They are used in tandem solutions (usually, the FOTP) for marine boilers, in the filtration and feeding of fuel of engines, in the feeding systems of burners, in the injection and feeding of diesel engines, for biodiesel plants and applications and systems for off-line filtration.

Settima pumps are also used in the yacht building industry for lifting equipment, walkways, automatic dive stairs, automatic boarding ladders. Pumps are also available for in-vehicle systems, as rudder actuators, propeller pitch controls, propeller drive, mini power packs, and in many other possible applications.

Did you know? Settima range of specialized Marine pump has been quite successful: Settima SFO has been designed with the precise purpose of being compatible with most installation specifics on the marine market, and Settima managed to build the SFO with an eye on the final price of the product, lower than most of its competitors, keeping an high quality of materials and performance. Settima FOTP has been adopted by one of the largest marine boiler manufacturer in the world, to be used on its installations!
Lif ts

Set t ima was born in 1978 with the production of three screw hydraulic pumps for hydraulic/oleodynamic lifts and over the years has grown to become the undisputed European leader in this field. The intent was to develop a type of pump that, in addition to having characteristics of durability, low cost and high quality, could also eliminate vibration and reduce noise pollution as much as possible during operation.

The result of years of experience is the SM series, volumetric pumps designed with axial transfer of the pressure, for both external and submerged use. Besides to the SM series, Set t ima produces the SMU series, designed to meet the regulations of the United States.

The SM and SMU are used in control units for lifts and elevators.

Choose the products that meet your needs.

Did you know? Set t ima SM is the oldest pump designed by Set t ima, on the market since 1978. As a statement of its sound and reliable design, the SM pump has changed little over its almost 40 years of service, except obviously for the many technical innovations adopted and the use of new, more advanced, reliable and durable materials. In 2013 Set t ima received a request for a new SM pump to replace the old one, which just broke up. The original SM pump was installed in 1982, and worked perfectly for more than 30 years before malfunctioning!

The SM pump has been produced since 1978. These pumps are used in lift and elevators applications up to 80 bar and with VF motors in energy saving systems. A model for USA market (SMU) is available.

The CONTINUUM® no-noise low-pulsations helical rotor pump, with its internationally patented design, is perfect for a wide range of high-pressure applications (ranging from industrial to mobile and marine), up to 300 bar.

The SM AC pump is a model of the SM pump with an hollow shaft. A model for USA market (SMU) is available.

Sett ima MicroLiv is a micro-leveling motor pump unit that is compact and with very low noise emissions. The system integrates a safety bypass and can be installed in any place due to its very compact size designed to save space.

The SMTU pump is designed for the USA market only and it’s used in lift and elevators applications up to 1160 PSI.
Settima was born with the production of three screw hydraulic pumps for hydraulic/oleodynamic lifts. It was only a natural step further to provide the same high power, high-reliability, energy saving and no-noise services to elevators & parking systems.

Due to its many years of research and development, Settima, now the undisputed European leader in this field, proposes for this application his innovative and revolutionary pump, internationally patented: the Continuum®.

The technical features of Continuum® pump are: high pressure, low noise, compact design, full interchangeability with gear or vane pumps. They are perfectly suited for application in elevators & parking systems. The Continuum® pump has the high-pressure capabilities of a gear pump, but thanks to the patented no-noise low-pulsations helical rotor, it drastically lowers the noise pollution. Thus, it is perfect for applications where noise pollution abatement is an irreplaceable quality, such as parking systems in hotels or in densely-populated areas, in particular during the night time.

Did you know? Settima CONTINUUM® NO-NOISE PUMP can ensure drastically lower noise emission than its competitors, up to 15 d(B)A less. This advantage has been widely appreciated, in particular when used in hotels’ parking systems. A difference of 15 d(B)A means the difference between an happy, well-rested customer and an upset customer who didn’t manage to sleep due to outside noise!
Settima full complement of products:

- **SMT** – high-pressure industrial, lube and tool machines
- **SMT16B** – cooling, filtration and lube oil
- **SMT8B** – compact cooling and filtration
- **SFO** – shipyards diesel oil handling
- **SMAPI (API676)** – wide range of marine and industrial applications
- **FOTP** – high-reliability boiler ignition/feeding marine application
- **SLN** – in-line plants for cooling, filtration, lube and fuel oil
- **CONTINUUM®** – high-pressure, no-noise fluid power applications
- **2VHL CONTINUUM®** – low-pressure no-noise lube oil services
- **SM** – lifts and freight elevators
- **FOTU** – USA lifts and freight elevators
- **FLOWMETERS** – high-pressure, high-precision flow measurement
- **MAGNETIC COUPLING** – seal-less option for no medium leakage
- **TWO-SCREW PUMP** – innovative project currently in R&D!
- **ENERGY SAVING SYSTEMS** – currently in R&D, available soon!

Engineering and certification are a resource for our customers. If some certification is not available today, it could be available soon: ask Settima and we will answer.