

Creator of motorized solutions for 90 years



Swimming pool cover motors



Counter-current turbines



Wellness solutions



Agitation for food industry



Industry



Custom solutions

General catalogue





SUMMARY

\$	SIREM historyPage 1
***	Coveo Swimming pool cover motors
	Swimeo Counter-current turbinesPage 7
	Aquafit Wellness and fitness solutions
• • • • • • • • • • • • • • • • • • •	Our solutions for the food industryPage 15
₩	Our solutions for industrial applications
համաման համահան համահան	Our custom solutions Page 23



SIREM'S HISTORY

SIREM designs, manufactures and sells gear motors and electric pumps for industrial and logistics applications, as well as swimming pools. We also supply complete systems such as counter-current swimming jets and Aquabike booths.

In 2021, SIREM has 100 employees on its Saint-Maurice-de-Beynost site near Lyon, with a turnover of around 18 M€, 35% of which is export business.

SIREM is today the world leader in its milk tank motors and pumps business and automated swimming pool cover motors. In Europe, SIREM's products can be found in 80% of the 500,000 dairy farms and in over 100,000 private swimming pools.

Innovation, quality control, the constant search for new markets and the industrialization of small and medium-sized series are what best describe SIREM's DNA for the last 90 years. 3% of our turnover is invested in R&D and we use our expertise in motorized systems for humid and immersed environments to develop new products every year.

3 TYPES OF OFFER

- 1 SIREM offers products from its catalogue, available for guick delivery.
- **2** These products can be customized. We can change the type of attachment, the torque or power rating, the length of the cable.
- **3** SIREM takes the specific requirements and creates a custom product for the customer. We can design and manufacture such products repeatedly over several years and control the cost and quality.

Key figures

Withalmost 100 years' experience and history, at SIREM we have developed our expertise and reputation by integrating all of the key skills required to develop our products in-house, which allows us to control the entire value chain of our products (design, choice of suppliers, manufacturing, distribution and After-Sales).



100 Employees



products
manufactured
per year



~18M€ turnover in 2020



25 000 spare parts shipped per year



100% of our products are repairable



Over 300 customers



65
countries to which
we ship our
solutions



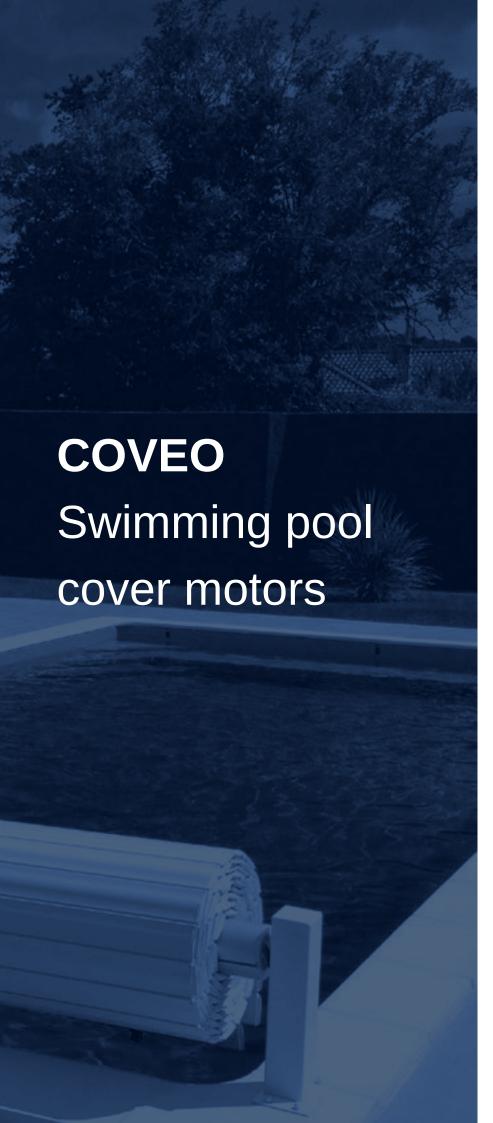
100% of our products are manufactured in France



<1% Product returns

Founded in Lyon in 1928, SIREM's first activity was making wireless radios before progressively switching to the manufacture of electric motors, from 1946. After first gaining a foothold in the market of small electrical appliances, the company launched into industrial applications, especially for the food industry, advertising displays, logistics and swimming pools and access security.

Our current range of products is made up of gear motors for the food industry, pumps for swimming pools and balneotherapy, tubular motors for swimming pool covers (Coveo range), counter-current swimming turbines (Swimeo range) and aquabikes in cabins for wellness and fitness (Aquafit Technology range).





Since 2004, SIREM has been one of the leaders of automatic swimming pool cover motors.

The dedicated SIREM range offers is the most reliable in the market.



Coveo range

Automatic swimming pool cover motors

SIREM has been one of the European leaders in motorizations for swimming pool covers since 2004, and works exclusively with manufacturers of automatic swimming pool covers. COVEO is a complete range of tubular motors and electronic control boxes for above-ground, immersed and solar covers:

- Above-ground covers: 80, 120 and 200 Nm 24V DC motors fitted with mechanical or electronic limit switches.
- Immersed covers: 120, 200, 300 and 600 Nm 24V DC motors fitted with electronic limit switches.
- Above-ground solar covers: 150 Nm 12V DC motor fitted with electronic limit switches.

100% of the products manufactured by SIREM are certified to the NF P 90-308 French standard and are individually tested before shipment.

COVEO is also a technical expertise service, which handles the after-sales enquiries of its manufacturer customers.





Power supply



Bearing



Technical expertise & service



The COVEO range incorporates the motors for above-ground covers (HS range), immersed covers (IM range) and solar covers (HS-solar range):

- Above-ground covers: 80, 120 and 200 Nm 24V DC motors
- Immersed covers: 120, 300 and 600Nm 24V DC motors
- Above-ground solar covers: 150Nm 12V DC motors

All of our motors can be repaired by qualified technicians.

	HS Group			IM Group		
MOTORS	HS 80	HS 120	HS 200	IM 120	IM 300	IM 600
DIAMETER (No bearing)	60 mm	106	mm	106 mm		
TORQUE Nm	80	120	200	120	300	600
VOLTAGE	24V	24V	24V	24V	24V	24V
LIMIT SWITCH	Mechani- cal	Electronic	Electronic	Electronic	Electronic	Electronic
SPEED	9 (no load)	5,5 (no load)	6,5 (no load)	9 (no load)	5 (no load)	3,5 (no load)
RPM	7 (under load)	3 (under load)	4 (under load)	5,5 (under load)	3 (under load)	2 (under load)
POOL SURFACE m ²	32	72	150	50	120	160

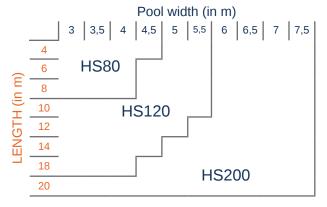
Above-ground (HS) range

SIREM offers a range of above-ground motors from 80Nm to 200Nm for pools of up to 7.5x20m. The above-ground motors can be supplied with their control box (see next page).









Immersed (IM) range

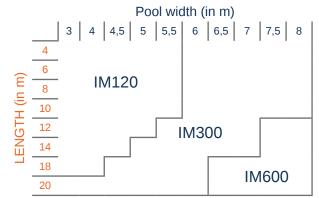
SIREM offers a range of motors from 120Nm to 600Nm for pools of up to 8x20m.

The immersed motors can be supplied with their control box.









Pool width (in m)

		1 ooi watii (iii iii)								
		3	4	4,5	5	5,5	6	6,5	7	7,5
	0,5	L : 14m 120Nm	L : 14m 120Nm	L : 11m 120Nm	L : 9m 120Nm	L : 2m 120Nm	L : 20m 300Nm	L : 17m 300Nm	L : 15m 300Nm	L : 12m 300Nm
Œ	1	L : 20m 300Nm	L : 20m 300Nm	L : 20m 300Nm	L : 15m 300Nm	L : 12m 300Nm	L : 14m 300Nm	L : 12m 300Nm	L : 10m 300Nm	L : 8,5m 300Nm
ı (in n	1,5	L : 18m 300Nm	L : 18m 300Nm	L : 13m 300Nm	L: 10m 300Nm	L : 8m 300Nm	L : 8,5m 300Nm	L : 15m 600Nm	L : 15m 600Nm	
DEPTH	2		L : 12m 300Nm	L : 8m 300Nm	L : 20m 600Nm	L : 15m 600Nm	L : 15m 600Nm	L : 12m 600Nm	L : 12m 600Nm	
	2,5				L : 15m 600Nm	L : 12m 600Nm	L : 12m 600Nm			
	3				L : 12m 600Nm					

Coveo range

Control boxes

Standard box for above-ground motors





Standard box for immersed motors

Description	Standard box	PLUS box	V2.2 box	4020 box
Range	HS	HS	IM	IM
Compatible motors	HS80 HS120 HS200	HS80 HS120 HS200	IM120 IM200 IM600	IM120 to IM600
Amperage	-	-	10A	20A
Electrolyser contact	-	Yes	Yes	Yes
Pump contact	-	-	Yes	Yes
Control				
Manual/Manua	Yes	Yes	Yes	Yes
Auto/Manual	-	-	Oui	Oui
Auto/Auto	-	-	Oui	Oui
Solar option	Yes	Yes	-	-
Compatible with Coveo Link	Yes	Yes	Yes	Yes
Dimensions mm	245x185x100	241x180x100	315x235x128	315x235x128

Bearings



Bearings for immersed motors SIREM designs, manufactures and fits your bearings to suit your technical constraints.

Customization



Our products can be customized to suit your requirements.

The SIREM teams can also study any needs you may have for specific developments to your specifications.

Technical assistance & expertise



A team of 7 people
For all your After-Sales
requirements

Reactivity: Sirem offers its technical expertise to identify technical problems and also troubleshooting guides. Rate of returns: 1% Warranty period: 2 years minimum





SWIMEO gives the freedom of swimming without limit with its range of turbines, offering the best swimming comfort/flow power ratio.



SWIMEO range

COUNTER-CURRENT TURBINES

SWIMEO is a range of counter-current turbines for novice and experienced swimmers.

Unlike counter-current swimming jet pumps that offer limited power and uncertain reliability, Swimeo is a fully immersed counter-current swimming turbine that is both silent and reliable.

SWIMEO turbines are recommended for competitive and amateur swimmers looking for a solution to swim in a private pool to complete their regular

training in large pools or open water. The maximum power of SWIMEO is the equivalent of swimming at a speed of 100m in 1'50".

All of the SWIMEO turbines are controlled either by a wireless remotecontrolor via the smartphone application, that also allows you to create training programmes.





An output flow of 300m3/h



Easy to connect to your domestic electrical power supply.



A "river" flow that is 1m wide, 2m from the edge.



SWIMEO range



SWIMEO A2

The A2 model is designed for swimming pool manufacturers that wish to include the Swimeo turbine in their offer. The manufacturer guarantees the protection of the users with the built-in safety equipment.



SWIMEO S1

The S1 model has a futuristic, functional design. The position of the inlet grills and the hydrodynamically shaped fittings have been designed to offer the optimum performance comfort/price ratio.



SWIMEO APP

The smartphone application controls the Swimeo turbines and enables you to create training programmes. This allows you to vary the intensity of the flow during the programme.

SWIMEO advantage



ULTRA-SILENT

The swimmer hears no noise.



PROGRAMMABLE

Using the smartphone application that allows you to create custom training programmes



PEACE OF MIND

No walls to drill and no maintenance required.



COMPACT

The A model is just 30cm thick, the S model just 35cm.

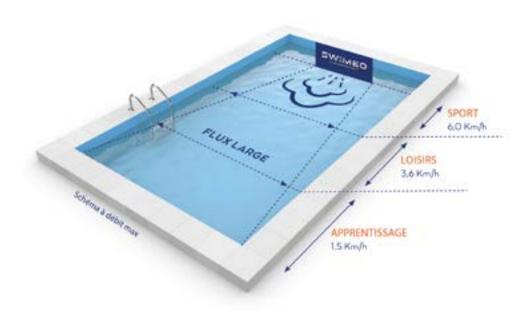




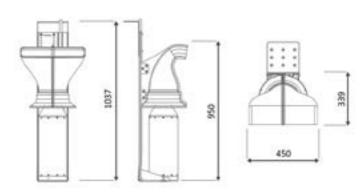
integration into a pool of 8x4m

COMFORT AND PERFORMANCE

Swimeo offers the best flow power / comfort ratio. The wide flow improves body stability in the water and provides more tolerance for lateral movements. Swimeo allows the swimmer to move around inside the flow without any feeling of a lower flow power.

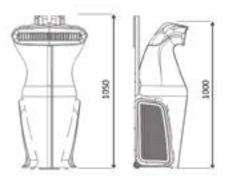


TECHNICAL DATA



SWIMEO A2

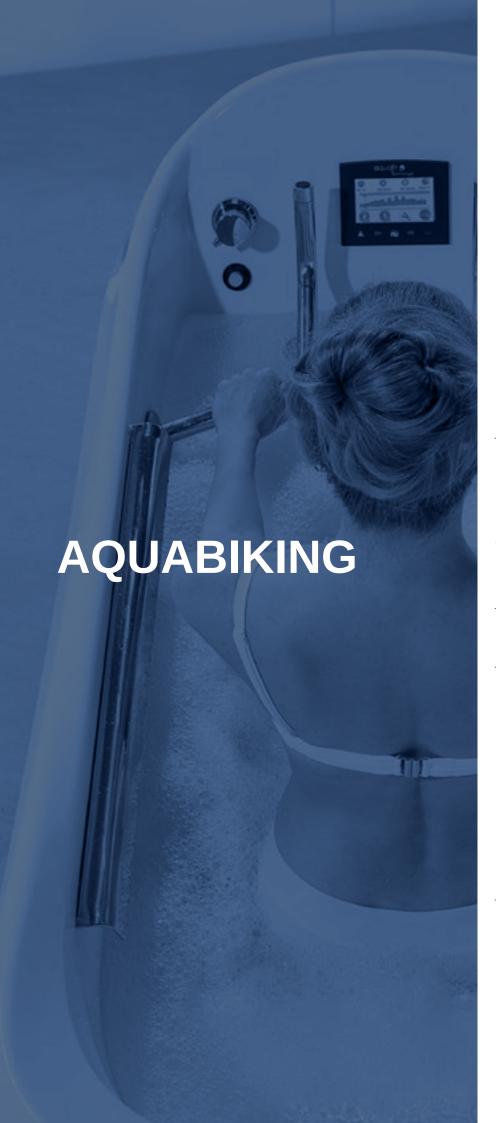
FLOW POWER	250m3/h at 50 cm from the outlet 300m3/h at the outlet	
POWER SUPPLY	230V via the control box	
ELECTRICAL POWER	1100W	
CONTROL	2 waterproof remote-control units Android & IOS smartphone application	
DIMENSIONS in mm	(H)950 x (l)450 x (L)339	





SWIMEO S1

FLOW POWER	250m3/h at 50 cm from the outlet 300m3/h at the outlet
POWER SUPPLY	230V via the control box
PUISSANCE ÉLECTRIQUE	1100W
CONTROL	2 waterproof remote-control units Android & IOS smartphone application
DIMENSIONS in mm	(H)1000 x (l)518 x (L)382





AQUAFIT TECHNOLOGIE by SIREM brings together all of the expertise of our French industrial group, that has been manufacturing pumps and watertight motors for over 90 years. **AQUAFIT TECHNOLOGIE** is a brand SIREM developed a few years ago, which is used for its range of weightloss and fitness solutions including hydromassage, variable resistance pedalling and infratherapy.



Aquafit Technologie

The aquabiking hydro-massage cabin is the result of several years of R&D. Its technology and design showcase SIREM's expertise in motors and balneotherapy pumps.

The combination of Aquafit EASY and Aquafit DOME, the AQUAFIT TECHNOLOGIE Japanese sauna, is the perfect association to accentuate the desired wellness, fitness and weight-loss benefits and results.

Indeed, an aquabiking session in an Aquafit EASY hydro-massage cabin activates the cardiovascular system and burns calories. A relaxing session in our Aquafit DOME Japanese sauna then allows you to complete the cardio workout by relaxation and detoxification through perspiration.

Aquafit-Technologie has sold over 400 machines in 15 countries.



Aquafit Easy

Discover hydroactivity

- A powerful hydromassage with variable resistance pedalling.
- You can choose the temperature, the type of training, the chromotherapy, and the possibility of activating the ozone generator

How does AQUAFIT EASY work?

- Once you have switched on the cabin, it fills itself with water.
- Select the programme you want.
- · Adjust the pedals to suit your height.
- Once you have made these adjustments, you can start your session with 26 jets (10 lateral jets, 6 at the front and 10 at the rear) that start operating (you can also modify the pressure of the jets)
- Hydroactivity combines the benefits of balneotherapy and the pedalling action in an unrestricted environment.



THE BENEFITS OF HYDROACTIVITY

Visible results

- Improves venous return and makes legs feel lighter.
- Trims the figure and has an anti-cellulite action thanks to aquadraining of the lymphatic system.
- Burns calories faster, causes no traumas to joints or aches and pains.
- Your skin is visibly smoother, and the orange peel effect is reduced



For you

- This is a profitable activity that will differentiate your business from others and increase its visibility.
- Happy users: weight reduction, lighter legs, smooth skin, wellness...
- A hands-free solution, to free up time for your other treatments.
- Complementary to your other treatments (easy to combine them).



Personalized programmes Connected cabin

Upgradeable programming that will suit all customer profiles, a connected cabin to ensure performance monitoring.





Aquafit Dome

Discover INFRATHERAPY

The infra-red light produces the warmth you feel on a beautiful summer's day. The DOME emits the same rays, which penetrate into body tissue. Highly beneficial, they bring energy, detoxify cells, help them grow, reinforce immunity and contribute to the prevention and treatment of diseases. Infratherapy is the solution for detoxifying your body. It brings genuine relief from stress, tiredness and chronic pain.





How does AQUAFIT DOME work?

- Infra-red heat from a carbon panel that provides deep heat to the body withoutn raising the surface temperature.
- Long infra-red rays penetrate beneath the skin, which is then purified and its appearance improved.
- Perspiration that is equivalent to that generated during sustained physical effort and up to three times more than a traditional sauna. This perspiration is loaded with toxins, so it purifies the body and burns a considerable number of calories effortlessly. It also aids in cell regeneration.

THE BENEFITS OF HYDROTHERAPY

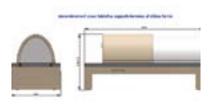
Visible results

- Stimulates cell regeneration.
- · Promotes detoxification.
- Acts against stress, improves sleep quality.
- Tones and improves the appearance of skin.

For you

- A hands-free solution to free up time for your other treatments
- · Combine this activity with your existing treatments for better results!
- Installation is quick and easy.





Personalized programmes

Upgradeable programming that will suit all customer profiles.







In addition to our experience in milk tanks,
Sirem works with all tank manufacturers that need agitation in their process: wineblending tanks, brewing vats or even pasteurising tanks.



Foodindustry

When milk is stored, it needs first to be cooled down evenly without modifying its qualities, then kept at a constant temperature of 3°C in a milk tank.

With 60 years of experience in milk agitation, SIREM has developed a wide range of strong and reliable motors.

We have adapted these motors to a multitude of agitation tanks for all sorts of liquids. Regardless of the constraints in terms of the volume the shape of the tank or a specific stirring blade, SIREM has the solution. Furthermore, any applications with specific hygiene constraints can be equipped with a SIREM washing pump.

The integration of SIREM products in the milk tank application

Gear motor for milk agitation

The cooled milk requires the use of one or several agitators driven at low speed.

The choice of the motor depends on the volume of milk to be agitated, the shape of the tank and the characteristics of the agitator blades.



Centrifugal pump to clean the tank

Integration of SIREM products in the milk tank application.
A pump sprays the washing product through a diffuser onto the inside walls followed by the rinsingwater.

The pump body must be able to withstand the use of highly acidic and or very aggressive products.

Gear motors

	GEAR MOTORS	Characteristics	250L	1 000L	3 000L	6 000L	8 000L	20 000L
	Type D	Speed 2,3 à 200 tr/min Torque 1,4 à 35 N.m Solid shaft Dimensions L 250 mm Ø 120 mm		•	•			
	Type F	Speed10 à 300 tr/minTorque0,5 à 12 N.m.SolidshaftDimensionsL 155 mmØ 120 mm	•	•				
S	Type H	Speed 2,3 à 200 tr/min Torque 1,4 à 35 N.m Solid shaft Dimensions L 220 mm Ø 120 mm		•	•			
Asynchronous	Type L	Speed 10 à 340 tr/min Torque 1,7 à 53 N.m Solid shaft Dimensions L 210 mm Ø 140 mm			•	•		
4	Type M	Speed 10 à 340 tr/min Torque 1,7 à 53 N.m Solid shaft Dimensions L 200 mm Ø 125 mm			•	•		
	Type N	Speed 2,2 à 67 tr/min Torque 8,1 à 100 N.m Solid shaft or hollow Dimensions L 225 mm H 200 mm max			•	•	•	
	Type P	Speed 6,6 à 130 tr/min Torque 28 à 170 N.m Solid shaft or hollow Dimensions L 250 mm H 250 mm					•	•

Centrifugal pumps

	CEN	TRIFUGAL PUMPS	Characteristics		
			Q max	10 m ³ /h	
			H max	22 m	
	工	A 100 CO	T°	-5 à +90°C	
	Type		Material	PP	
			impeller	Closed	
al			Dimensions	L max : 290	
ont				Ø : 180	
Horizontal			Q max	20 m ³ /h	
łor			H max	17 m	
	\checkmark		T°	-5 à +90°C	
	e	(D)	Material	PP	
	Type K		impeller	Semi-open	
		003	Dimensions	 L max : 325	
		-		Ø : 180	
			1		





With 90 years of experience in industrial applications, over the years SIREM has developed a range of gear motors and pumps suited to various applications: industrial agitation, doors and gates, special machines and packaging or labelling machines... For over 20 years now, following the development of specialized products for swimming pools, SIREM has acquired a considerable expertise in motors that are immersed or subject to heavy environmental constraints.



Industrial

100% designed and manufactured in France, the products of the industrial range benefit from all the SIREM commitments, both in terms of reliability and reparability.

Tubular, planetary or spur gear motors, immersed motors with or without built-in electronics, horizontal or vertical pumps with immersed bodies, SIREM's industrial range has been adapted to suit the needs of the market. SIREM offers not only its standard range, but also customization to make your products unique and perfectly suited to your application.

The integration of fail-safe or inrush brakes, power supplies with special voltages or frequencies, improved insulation class or protection class, based around its standard range, SIREM offers a catalogue of adaptations to enable you to configure your product specifically for your application.

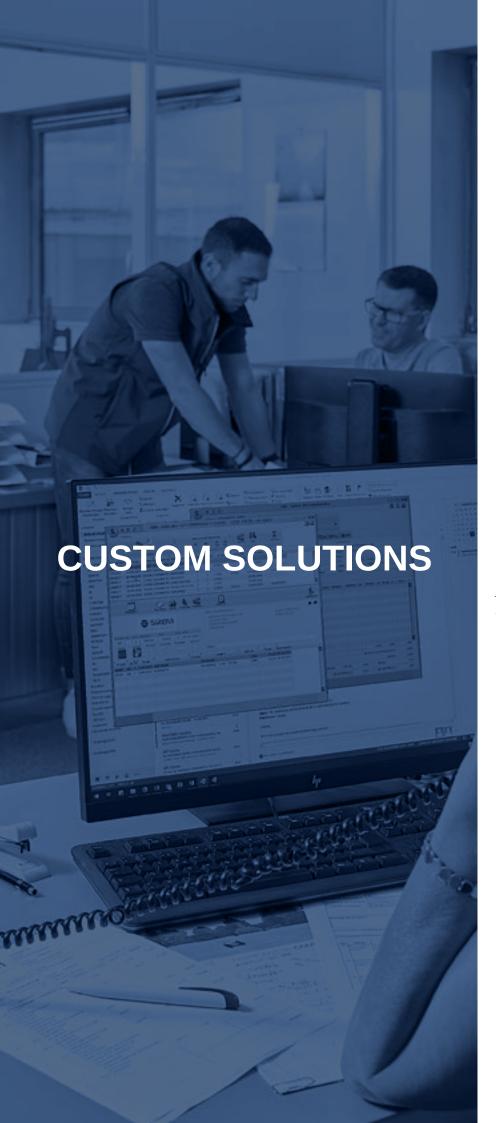
If your application has requirements that are not covered by our range, our design office is specialized in the development, integration and industrialization of gear motors and will be only too happy to help you find the ideal solution. From the concept of your requirement through to its manufacture, SIREM wil be your unique and special partner right through the development of your product.

	GEAR MOTORS		С	haracteristics	Examples of applications
			Speed	2,3 à 200 tr/min	- Beaters
			Torque	1,4 à 35 N.m	- Mixers
	Type	A TOTAL STREET	Solid	plein	- Rotary presses for tablets
			Dimensions	L 250 mm	- Crimping machines
				Ø 120 mm	- Laboratory equipment
			Speed	10 à 300 tr/min	- Shoemakers' machines
	山		Torque	0,5 à 12 N.m.	- Drum shakers
	Гуре	411-34	Solid	plein	- Joint cutters
		1	Dimensions	L 155 mm	- Flocculant dosing machines
				Ø 120 mm	- Shooting equipment
		The same	Speed	2,3 à 200 tr/min	- Roasters
	工		Torque	1,4 à 35 N.m	- Water treatment
	Type		Solid	plein	- Voltage adjusters (transformers)
			Dimensions	L 220 mm	- Industrial bakeries
S				Ø 120 mm	- Rotary tables
Asynchronous			Speed	10 à 340 tr/min	- Sterilisers
O.	7	9-3	Torque	1,7 à 53 N.m	- Pallet wrappers
h	Гуре		Solid	plein	- Glass polishers
Ž			Dimensions	L 210 mm	- Reclining chairs / stair-lifts
AS				Ø 140 mm	- Coffee roasters
			Speed	10 à 340 tr/min	- Motorised barriers
	≥		Torque	1,7 à 53 N.m	- Peristaltic pumps
	Type M		Solid	plein	- Packaging machines
		-	Dimensions	L 200 mm	- Tables for opticians
				Ø 125 mm	- Family kneading machines
		7000	Speed	2,2 à 67 tr/min	- Automatic gates
	Type N	TTT IN	Torque	8,1 à 100 N.m	- Bending rolls
	/pe	4	Solid	plein ou creux	- Laboratory mixers
			Dimensions	L 225 mm	- Rotating filters
		-		H 200 mm max	- Rotary furnaces
			Speed	6,6 à 130 tr/min	- Automatic gates
	<u> </u>	DESCRIPTION.	Torque	28 à 170 N.m	- Agitators
	Type P		Solid	plein ou creux	- Textile machines
			Dimensions	L 250 mm	- Retractable bollards
				H 250 mm	- Solar trackers

Tubular motors

	TUBULAR MOTORS		Characteristics		
	þ		Speed	de 2,5 à 6 tr/min	
	Standard	1	Torque	de 80 à 200 N.m	
Tubular	0,		Dimensions	L 600	
Tuk	<u>e</u>		Speed	3 et 5 tr/min	
	ımmersible		Torque	120,300 et 600N.m	
	Ш		Dimensions	L 467	

	PUMPS	Characteristics	Examples of applications
	Type A	Q max 8 m3/h H max 3 m T° -5 à +90°C Material PP impeller Semi-open Dimensions L max: 210 Ø: 125	 Industrial washing machines Sanitary water Denatured alcohol Beverages (wine, fruit juice, beer) Chemicals (acid, soda, lime) Distilled water
ontal	Type E	Q max 5 m3/h H max 8 m T°: -20 à +150°C Material AS13 impeller open Dimensions L max: 200 Ø: 125	 - Hot food oils - Chemicals - Pharmaceutical products - Hydrocarbons (kerosene, diesel) - Solvents (white spirit, turpentine) - Beverages (beer, whisky, milk)
Horizontal	Type H	Q max 10 m3/h H max 22 m T° -5 à +90°C Material PP impeller Closed Dimensions L max : 290 Ø : 180	 Surface treatment liquids Detergents Beverages (wine, fruit juice, beer) Chemicals (acid, base, lime) Salt water Water disinfection
	Type K	Q max 20 m3/h H max 17 m T° -5 à +90°C Material PP impeller Semi-open Dimensions L max : 325 Ø : 180	 Food products (oil, vinegar) Chemicals, pharmaceuticals Electroplating Hospital dishwashers Water treatment Waste water
Vertical	Type F	Q max 3,2 m3/h H max 5 m T° 20 à +150°C Material AS13 impeller open H immergée 170 mm Dimensions L : 319 Ø : 118 Can operate dry	 - Hot food oils (large kitchens) - Hydraulic oils - Printing press ink - Cutting oils - Hydrocarbons - Anti-freeze
	Type J	Q max 3,5 m3/h H max 3,3 m T° -5 à +90°C Material PP impeller Semi-open H immergée 153 mm Dimensions L : 274 Ø : 118 Can operate dry	 Laboratories Ice machines Photography baths Dental equipment Surface treatment liquids Industrial air conditioning units



Landandand Landandand Landandand

Our skills serving your ideas: the historical expertise of SIREM makes us your ideal partner to complete all your projects successfully. From defining specifications to the industrialization of small or medium sized batches, SIREM can assist you at all stages of your development



Custom solutions

SIREM is specialized in custom motor solutions for demanding (especially humid or immersed) environments and can assist you in all phases of your project upstream: drafting functional specifications, carrying out initial feasibility studies, design and production of first concept tests and prototypes.

Once the design of the product has been determined, SIREM can assist you right up to industrialization: re-designing of mechanical parts by our Design office, the selection of suppliers with the help of our Purchasing department, and the use of special production tools. SIREM's Design office and its Quality department can also help you to draw up and define qualification plans to meet your requirements. Our production facilities, experienced operators and efficient supplier network makes SIREM the perfect partner for the industrialization of small and medium sized series.

A high level of quality

Quality is the second essential element of SIREM's industrial approach. All products can be individually traced. These quality filters are essential as the products SIREM develops can have a crucial impact on its customers' installations. This quality commitment especially includes the identification and automatic testing of all products prior to shipment. Consequently, we have complete and precise data on the products we supply at all times. We openly share this quality data with our customers, as this allows us to make intelligent and rapid decisions.



Design and mechanical integration

These skills are truly part of SIREM's historical expertise, and allow us to offer you sturdy products that are perfectly adapted to all types of environments, even the most demanding.

Motor sizing

Whether for pumps or motorized systems, SIREM offers you its know-how in terms of motor sizing, in order to produce a product suited to your requirements.



Electronics

Over the years, SIREM has developed special partnerships and expertise in electronics so that we can today offer you complete mechatronic assemblies.

Hydraulics

Massage or filter pumps, counter-current turbines...For years, SIREM has been helping its customers determine their hydraulic constraints and define their applications.





Connectivity

Just like its Aquafit range of connected machines or the SWIMEO smartphone application, SIREM also provides you with its expertise in connectivity.

Design

Today, product design is a key factor that enables you to stand out from the crowd of your competitors. SWIMEO and AQUAFIT TECHNOLOGIE are perfect examples of SIREM's expert design capacities.







Chemin du Pillon 01700 Saint-Maurice-de-Beynost Tel : +33 (0)4 78 55 83 00