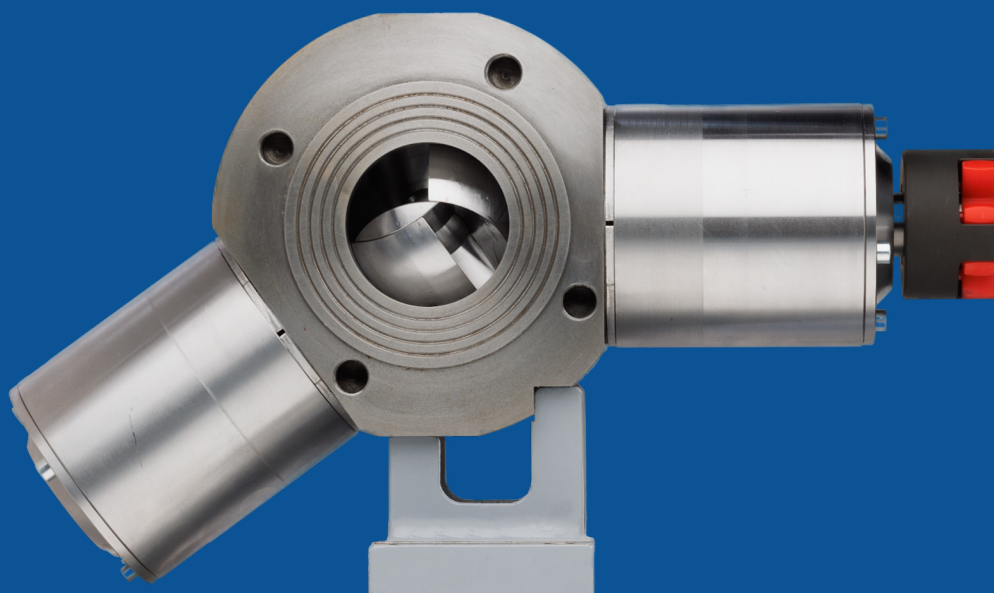




TWISTERPUMP

High efficiency, compact size, low maintenance cost,
low Total Cost of Ownership

A COMPLETELY NEW TYPE OF INDUSTRIAL PUMP BASED ON REVOLUTIONARY TECHNOLOGY



- High efficiency
- Low maintenance costs
- Compact size
- In-line installing
- Minimal backflow
- Self-priming capability
- Bidirectional operation
- High resistance to wear
- High resistance to abrasive products
- Gentle handling of shear-sensitive media
- Effective handling of highly viscous media
- Versatile mounting
- High pressure handling
- Ease of repair and maintenance

TWISTERPUMP STANDARD RANGE

Capacity: **up to 250 m³/h** Fluid temp: **up to 180°C ***
Design pressure: **16 bar *** Ambient temp: **-30 to 70°C ***
Vacuum: **- 0.92 bar** Particle size: **max. 2.5 mm**
Rotational speed: **30-1,000 RPM** Viscosity: **max. 250,000 mPa·s**

* TwisterPump can also be customized to accommodate pressure up to 40 bar and fluid temperatures up to 450°C. Additionally, the ambient temperature range can be extended by applying additional heating or cooling solutions.

TwisterPump by Scandic Industries

Scandic Industries is a private EU-based company specializing in the development and production of **high-quality, cost-efficient TwisterPump positive displacement pumps**. TwisterPump is based on a **unique patented rotary type technology** that offers **major advantages over conventional pump designs**. TwisterPump has been used successfully in **hundreds of installations**.

TwisterPump's **low energy consumption and strong wear resistance** make it a **smart and reliable choice** for various industries, including oil & gas, maritime services, chemical as well as food processing and sewage & wastewater management. Its versatility also makes it a suitable option for paper and pulp production, ceramics, heating systems, and cleaning processes.

The TwisterPump product range is designed and manufactured according to **API 676** and is available with single and double mechanical seals according to **API 682**. Our **ATEX** certification confirms that TwisterPump can be installed in hazardous environments while also being compliant with the **3-A SSI** food hygiene requirements. We carry **CE** marking, whereas our **ISO 9001:2015** Quality Management System assures the reliability and quality of our products.

Oil & Gas Industry

- Fuel oils
- Lubricants
- Bitumen slack
- Resins additives

Port & Maritime Services

- Fuel handling
- Ballast water
- Bilge water

Chemical Industry

- Petrochemicals
- Fertilizers
- Paints

Food processing

- Edible oils
- Dairy products
- Preserved foods

Sewage & Wastewater Management

- Flocculants
- Sludge

Thanks to its low energy consumption and minimal maintenance requirements, TwisterPump offers highly competitive
Total Cost of Ownership



Features & Benefits

REVOLUTIONARY DESIGN

TwisterPump's **unique mechanism** consists of two halves of housing and a rotary piston group. The housing forms a cavity which is overlapped by the mobile parts of the rotary piston group. The rotary piston group is comprised of a central rotor and two pistons, forming four chambers which change their volume during rotation, being larger on the intake side, and smaller on the outlet side. The pumping action is achieved on the account of volume differences.

HIGH EFFICIENCY

TwisterPump's unprecedented and proven high efficiency means **substantially smaller electricity bills**.

COMPACT SIZE AND WEIGHT

TwisterPumps **compact size** makes its **footprint smaller**, which enables its installation into **tight-fit locations**.

IN-LINE INSTALLING CAPABILITY

TwisterPump's **small footprint** enables mounting it **into existing pipelines and systems**, making it a **perfect replacement pump**.

MINIMAL BACKFLOW

Twisterpump's **flow rate does not decrease sharply in higher pressure** operating sections unlike with other pumps.

SELF-PRIMING CAPABILITY

Due to the rigid bearing assemblies and very small clearance between the rotary piston group and the housing, Twisterpump is able to create **over 0.9 bar of negative pressure on the intake**. This ensures **excellent self-priming capability**.

LOW MAINTENANCE COSTS

TwisterPump's innovative design involving less moving components as well as the use of advanced materials and special surface protection processes lead to **minimal maintenance costs**.

EASE OF REPAIR AND MAINTENANCE

TwisterPump's construction allows replacement of bearings and seals without disconnecting the pump from the pipeline which means **all maintenance operations** can be performed **quickly and with ease**. Long service intervals and ease of maintenance also help to keep the overall operating costs low.

BIDIRECTIONAL PUMPING

TwisterPump's unique design allows it to be **operated in either direction** without loss of performance, eliminating the need for complex pipe/valve systems needed for reverse pumping with unidirectional pumps.

LOWER GEAR AND HIGH RESISTANCE TO WEAR

With TwisterPump the movement of working surfaces is sliding rather than opening and closing. Thanks to this unique construction, TwisterPump operates at significantly **lower gears** compared to conventional pumps, and the **wear resistance** of the rotating elements and housings **is considerably higher** than by any other existing pump technology even in demanding environments with abrasive materials. This leads to **longer life, lower maintenance costs and exceptional reliability**.

HIGH ABRASION RESISTANCE

Due to the **advanced materials** used and **latest surface treatment technologies** applied, TwisterPump is capable of handling a wide range of **abrasive products and environments**.

EFFECTIVE HANDLING OF HIGHLY VISCOUS MEDIA

TwisterPump's unique construction allows **effective pumping of highly viscous substances** which many conventional pump types are either unable to handle at all, or handle with low efficiency. This difference becomes more pronounced as viscosity increases.

GENTLE HANDLING OF SHEAR-SENSITIVE MEDIA

TwisterPump is capable of **handling sensitive products** at low rotation speeds **without transforming their viscosity**.

HIGH PRESSURE HANDLING

Because of its innovative construction, TwisterPump is capable of managing elevated pressure conditions with ease.

VERSATILE MOUNTING OPTIONS

TwisterPump can be mounted either **vertically or horizontally**.

DIRECT DRIVE

TwisterPump is **directly connected to the driving electric motor**. This increases efficiency and reduces both the cost and time for maintenance. Direct drive also reduces the space needed for installing one of our pumps, thus making it easy to fit it into both new and existing installations.

GUARANTEED DELIVERY QUALITY

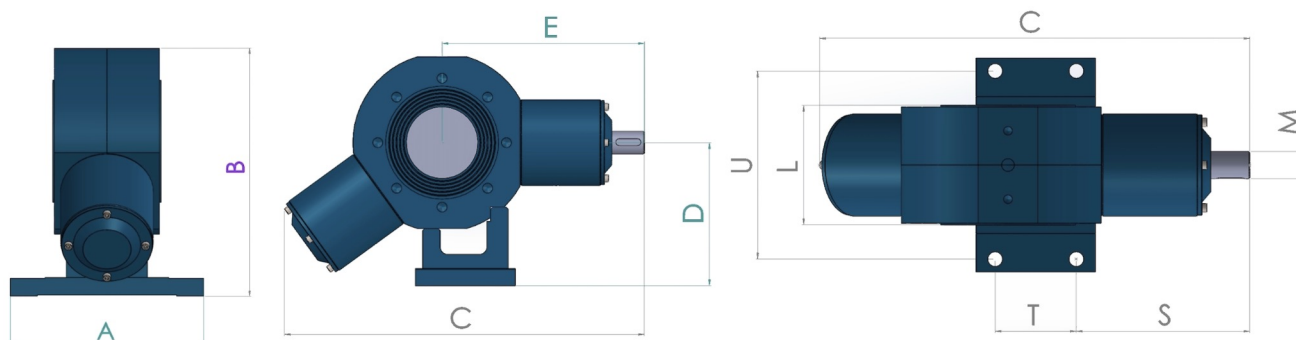
All produced **pumps are factory tested**.

SUSTAINABLE CONSTRUCTION

Designed to allow **reusing or retrofitting of over 50%** of its components, supporting environmentally conscious practices

Technical specifications

TwisterPump Standard Models



Parameter	TP 065	TP 092	TP 116	TP 130	TP 195	TP 260	TP 360
Capacity [m³/h]	3	10	20	30	60	120	250
Design pressure [bar]:	16	16	16	16	16	16	16
Rotational speed [RPM] min. / max.:	30 / 1,000	50 / 1,000	50 / 1,000	50 / 1,000	50 / 600	50 / 500	50 / 300
Volume [l] per revolution circle:	0.05	0.17	0.33	0.50	1.67	4.00	13.89
Port size:	2" BSP	DN 65 PN16	DN 100 PN16	DN 100 PN16	DN 150 PN16	DN 200 PN16	DN 250 PN16
Weight [kg]:	25	33	64	65	159	315	520
A [mm]:	175	175	250	250	250	390	368
B [mm] - Height:	220	248	320	320	426	517	625
C [mm] - Length:	383	426	512	512	712	931	1,113
D [mm] - Port/shaft centre height:	140	158	200	200	265	327	385
E [mm]:	221	242.5	288	288	394	530	631.5
L [mm] - Width:	100	106	140	140	200	270	368
M [mm]:	22	28	32	32	40	60	75
S [mm]:	166	184	208	208	300	423	493
T [mm]:	65	65	95	95	120	165	242
U [mm]:	150	150	220	220	220	340	300

TwisterPump can be delivered as a bare shaft pump or as a full pumping solution. TwisterPump can be customized to accommodate pressure up to 40 bar and fluid temperatures up to 450°C. Additionally, the ambient temperature range can be extended by applying additional heating or cooling solutions.

The standard solution comes with single-stage component seals. Cartridge single and double seal versions are also available. TwisterPump casings can be made of ductile cast iron, steel or stainless steel case.