



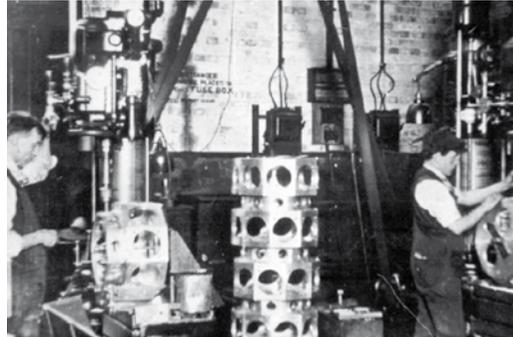
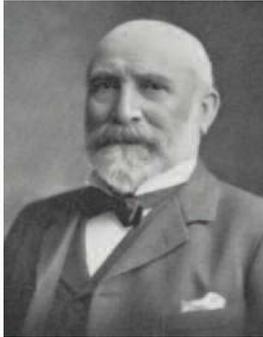
Innovation, Design, Manufacture & Aftermarket Services:
Pumping solutions for a better world

water & industrial



Generations of experience

While the name is comparatively recent CLYDEUNION Pumps is one of the most experienced specialised engineering companies in the world. Formed through the acquisition and integration of a series of highly respected pump manufacturers and designers on both sides of the Atlantic, CLYDEUNION Pumps incorporates an accumulation of over 300 years of engineering expertise.



George Weir: The eldest of the brothers, George trained as a ships engineer.

James Weir: The second eldest, James began work at 15 in a consulting engineers in Glasgow. He was the inventor of the celebrated direct-acting feed pump.

Assembly of industrial pumps in our Glasgow facility at the beginning of the 20th Century.

The history of CLYDEUNION Pumps begins with the formation, in 1871, of the engineering firm of G&J Weir. Founded by brothers George and James Weir in Glasgow, the company quickly prospered as a result of the improvements they introduced to pump machinery and valve technologies. Their work found applications across the world, from marine engines and power stations to desalination plants.

By the end of the twentieth century G&J Weir had acquired Drysdale Pumps, Harland, Mather and Platt, and WH Allen. They had also, under

the name Weir Pumps, grown into one of the most respected and iconic engineering enterprises in Scotland.

Meanwhile just 14 years after the establishment of G&J Weir, the Union Manufacturing Pump Company was incorporated in 1885 in Michigan USA. Specialising in the design and manufacturing of steam pumps they grew prosperous, adopted the name Union Pump and established a Canadian sister company.

In 2006, two other highly respected specialist companies, David Brown Pumps of England and DB Guinard

Pumps of France, were bought under the Union Pump umbrella.

A new chapter in the development of both companies began in 2007, when Weir Pumps was bought by Clyde Blowers, a company owned and run by Jim McColl (who had started his working life as an apprentice with Weir Pumps). At this time the name changed to Clyde Pumps. In 2008, Clyde Blowers bought Union Pump and amalgamated the two specialist engineering companies into CLYDEUNION Pumps.



*Weir Pumps, Mather & Platt, Drysdale, WH Allen, Girdlestone, Allen Gwynnes and Harland



Union Pump, David Brown Pumps, DB Guinard Pumps, American Pump and Pumline



**This is a heritage product acquired when the Weir Pumps business transferred to Clyde Pumps in May 2007.*



Today, CLYDEUNION Pumps is recognised as a world-leading centre of excellence in pump technology and bespoke pumping solutions. We are active across many market sectors, with our main operations relating to highly critical areas throughout water treatment, desalination, industrial applications, oil extraction and processing, nuclear power and conventional power.



Water & Industrial - driven by customer service

At CLYDEUNION Pumps we understand the needs of the desalination market. Soon after our formation in 2008, we brought together engineering expertise and experience from throughout our global organisation to create a specialist team focused solely on serving the desalination industry and meeting its specific requirements. We deliver best efficiency, performance and quality at market leading pricing.

This team forms a key part of our dedicated business unit, strategically aligned with customers' requirements and fully committed to the working practices, and the demands of scheduling, efficiency and reliability, that prevail within the industry. This allows us to build considerable advantages into the service we offer.

We understand the paramount importance of efficiency and reliability, and the only path to robust, continuous long-term performance is engineering of the highest standard. Our engineering sets the benchmark for the industry, and our products are quality assured by our comprehensive quality system and pump test facilities.

Through a culture of engineering excellence and a customer-centred

approach we have positioned ourselves at the leading edge of pump design, and we stay there by constant investment in research and development, and the use of the most modern design techniques. This is clearly demonstrated by our industry specific, 'sole purposely designed' and innovative High Pressure RO pump

Within the desalination market we offer a comprehensive range of products to cover all applications from intake pumps through to product distribution and pipeline pumps. We are the complete 'one stop shop' pump provider for all your needs.

For specific application and pump coverage please refer to pages 12 - 13.

*Main Right: High Pressure Reverse Osmosis Pump
Below L to R: BB3, In-Line & Uniglide Pumps*



desalination



water

CLYDEUNION Pumps has been supplying pumps to the Water Industry for almost three quarters of a century and our recently formed Water & Industrial Business Unit team fully understands the needs and demands of this market, worldwide. This team comprises industry specialists, focused on customers requirements and is dedicated to providing best solutions in all cases.

Our robust product ranges, which includes well known heritage brand names such as Weir, Harland, Mather & Platt and Allen Gwynnes, are extensive and designs have been honed and developed over many years, resulting in today's highly efficient and reliable equipment. These include vertical turbine, end suction and multistage pump frames but in particular the "UNIGLIDE" axially split casing range. This range is the most extensive of any supplier worldwide, allowing us

to optimise on efficiency for virtually every pump selection from 50 mm to 1800 mm branch sizes.

We understand the principal of Life Cycle Cost and the importance pump efficiency and minimising spare parts play in this particular role. As a consequence our products are purposely designed with these features very much to the forefront. We are also familiar with the role that variable speed applications can play in pumping and our engineers

are highly experienced in selecting pump, motor and drive equipment for these applications.

For details of specific applications and range coverage please refer to pages 12 - 13.



Isoglide Technical Data

Isoglide pumps are available in a wide range of materials with various seal options, and are suitable for handling corrosive and non-corrosive liquids in a variety of applications.

Capacity: up to 1,000 m³/hr / 4,400 usgpm
 Delivery head: up to 200 m / 670 feet
 Temperature: up to 180 °C / 350 °F
 Speeds: up to 3,600 rpm
 Flange drilling: BS or ANSI



Aquaglide Technical Data

The Aquaglide range of high efficiency large end suction pumps has been developed for high capacity water pumping applications.

Capacity: up to 10,000 m³/hr / 44,000 usgpm
 Delivery head: up to 200 m / 670 feet
 Temperature: up to 60 °C / 140 °F
 Speeds: up to 1,500 rpm
 Flange drilling: BS or ANSI



SBWM Technical Data

This pump is designed such that the net positive suction head allows the pump to function successfully.

Capacity: up to 40,000 m³/hr / 176,000 usgpm
 Delivery head: up to 100 m / 320 feet
 Temperature: up to 80 °C / 180 °F
 Speeds: up to 1,760 rpm
 Flange drilling: BS or ANSI



Uniglide Technical Data

The Uniglide range is a new generation of axially split double entry pumps. This new range has been developed by CLYDEUNION Pumps following an extensive consultation of major users.

Capacity: up to 4,000 m³/hr / 17,600 usgpm
 Delivery head: up to 200 m / 670 feet
 Temperature: up to 80 °C / 180 °F
 Speeds: up to 1,760 rpm
 Flange drilling: BS or ANSI

wastewater



Swallowglide Technical Data

The Swallowglide is a solids handling end suction pump, specifically designed for sewage, effluent and screened sewage. Robust design and features developed over years of running experience make the CLYDEUNION Pumps Swallowglide a highly reliable pump with hundreds of installations globally.

Capacity:	up to 30,000 m ³ /hr /130,000 usgpm
Delivery head:	up to 130 m / 430 feet
Temperature:	up to 60 °C / 140 °F
Speeds:	up to 1,500 rpm
Flange drilling:	BS or ANSI

Our standard solids handling Swallowglide product lines, both vertical and horizontal configurations, are available in a range of materials from cast iron through to duplex stainless steel to suit all environmental situations throughout the world.

For specific applications and pump coverage please refer to pages 12 & 13.

At CLYDEUNION Pumps, through our heritage Weir Pumps designs, we have products with market leading levels of reliability and robustness installed in wastewater plants throughout the world. These proven designs, supported by our state of the art hydraulic and mechanical design capabilities, enable us to provide “engineered to order” solutions for major large capacity installations. This allows us to offer customised solutions offering optimised levels of hydraulic performance coupled with robust mechanical integrity and operational reliability in these arduous pumping environments.



general industrial

In addition to particular duties for individual industries listed below, the CLYDEUNION Pumps product range covers applications which are common to all industries, including general service water supply, whether seawater, raw water or fresh water and the pumping of slurries, sludges and effluents.

A comprehensive range of frame sizes in each pump type means that CLYDEUNION Pumps can meet *virtually every duty* with a pump or combination of pumps exactly

suitable for the application

- Metal Production
- Mining & Quarrying
- Factories & Offices
- Pulp & Paper
- Brewing & Distilling
- Sugar
- Agriculture & Irrigation
- Water Supply / Water Treatment

For specific applications and pump coverage please refer to pages 12-13.

*Main Right: Steel Mill
Below L to R: Hard Metal Slurry Pump, Liquid Ring Vacuum Pump, Diesel Engine Skid Packages & Self Priming Pump*





coverage

KEY INDUSTRIAL PRODUCT TYPES	CUP DESIGNATION	FLOWS UP TO		HEADS UP TO												
		M ³ /HR	USGPM	M	FT	Chemical Extraction	Coal Processing	Electronics	Food & Beverages	Gas/LNG Plants	General Industry	Marine	Mining	Pulp & Paper	Petrochemical	Steel Production
SINGLE & TWO STAGE PUMPS																
Single Stage End Suction Pump	Isoglide	1,000	4,400	200	670											
Single Stage Large End Suction Pump	Aquaglide	10,000	44,000	200	670											
Single Stage End Solids Handling Pump	Swallowglide	30,000	130,000	130	430											
Single Stage Axially Split Between Bearings Pump	Uniglide	4,000	17,600	200	670											
Two Stage Axially Split Between Bearings Pump	Duoglide	1,350	5,950	275	910											
Single Stage API End Suction Pump	CUP-OH2	1,635	7,200	400	1,310											
Single Stage API Vertical In-line Pump	OH3	1,365	6,000	305	1,000											
Single Stage API Vertical In-line Pump	OH4	1,365	6,000	335	1,100											
Single Stage API Vertical In-line Pump	OH5	2,000	8,800	230	770											
Single / Two Stage API Axially Split Between Bearings Pump	BB1	20,000	88,000	1,000	3,300											
Single Stage Sump Pump	CUP-VS4	900	4,000	150	500											
Single / Two Stage Vertical Bowl / Turbine Pump	CW	40,000	176,000	100	330											
Single Stage Vertical In-line Pump	VCM	410	1,800	150	500											
MULTISTAGE PUMPS																
Multi Stage Vertical Bowl / Turbine Pump	SBWM	40,000	176,000	100	320											
Multi Stage Through Bolt Radially Split Pump	FT	1,800	7,950	3,500	11,600											
Multi Stage Barrel Radially Split Pump	FK	2,500	11,000	4,000	13,300											
Multi Stage API Axially Split	CUP-BB3	2,500	11,000	3,000	9,960											
Multi Stage API Vertical Diffuser / Turbine Single Case Pump	VS1	7,000	31,000	600	1,900											
Multi Stage API Vertical Diffuser / Turbine Double Case Pump	VS6	7,000	31,000	600	1,900											
RECIPROCATING PUMPS																
Power Driven Small (Single Acting Plunger) - Simplex/Duplex/Triplex	Small Power	17	75	6,900	23,00											
Power Driven Medium (Single Acting Plunger) - Triplex/Quintex	Medium Power	87	385	6,900	23,00											
Power Driven Large (Single Acting) - Triplex/Quintex	Large Power	146	645	6,900	23,00											
Power Driven Geared (Internally Geared)	Geared Power	142	325	5,200	17,300											
Power Driven High HP (Single Acting Plunger) - Triplex/Quintex	High Horse Power	155	680	13,800	20,000											
Steam Driven Simplex (Direct Acting)	Simplex Direct Acting	160	705	6,900	23,000											
Steam Driven Duplex (Direct Acting)	Duplex Direct Acting	173	760	6,900	23,000											
SPECIALIST PUMPS																
Positive Displacement Crew Pump	IMO	1,800	7,950	3,500	11,600											
Multi Stage Radially Split Diffuser Pump	HPRO	2,500	11,000	800	2,660											
Cryogenic Multi Stage Vertical Pump	Cryogenic DB62 C	2,500	11,000	400	1,310											
Submersible Motor Driven Pump	Ulectriglide	3,400	15,000	200	670											
Concrete Volute Pump	CR	120,000	530,000	70	230											
Integral Steam Turbine Water Lubricated Pump	TWL	350	1,550	1,200	3,990											



Lifetime worldwide support



Parts: Any brand, any material, anytime. We supply parts for all of our heritage brands as well as upgrades and improvements.



Installation and commissioning: Trouble free commissioning anywhere in the world.



Every product we supply is supported by a full lifetime commitment. We will provide a full aftermarket service, drawing on either our own engineers or our fully trained and highly experienced service partners, depending on the location of the installation. We have service facilities in over 40 countries spread throughout Europe, America, Asia, the Middle East and Africa.



Our after sales support extends across all of our legacy brands as well as new equipment, and we provide full backup for obsolete products and for third party equipment. The parts we supply meet the original specification, or are upgraded where appropriate, and many components can be covered by our Rapid Response option which can have parts on site within 24 hours.

CLYDEUNION Pumps are subject to the same supply chain management as our pump manufacturing, to provide customers with the lowest lead times and costs while meeting the highest standards of quality assurance.

In addition to spare parts, routine servicing and overhauls and inventory control, our aftermarket support covers upgrades and comprehensive technical advice about the potential refitting of existing installations for greater efficiency and reliability. We can work with your own engineers to carry out meticulous inspections and advise on maintenance schedules, carry out full vibration analysis, pressure and pulsation testing, and train your service personnel.

Our history and breadth of experience, and our geographical coverage and expertise, make us the natural first choice for any pump related problem or enquiry, no matter what the location, the scale of the task or the original manufacturer.

*water &
industrial*





SALES AFTERMARKET MANUFACTURING

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CLYDEPUMPS
Incorporating WEIR PUMPS Glasgow

*Weir Pumps, Mather & Platt,
 Drysdale, WH Allen, Girdlestone,
 Allen Gwynnes and Harland

UNION Pump

Union Pump, David Brown Pumps,
 DB Guinard Pumps, American
 Pump and Pumpline



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*This is a heritage product acquired when the Weir Pumps business transferred to Clyde Pumps in May 2007.

We are constantly endeavouring to improve the performance of our equipment and as a result, we reserve the right to make alterations from time to time, and equipment may differ from that detailed in this brochure.