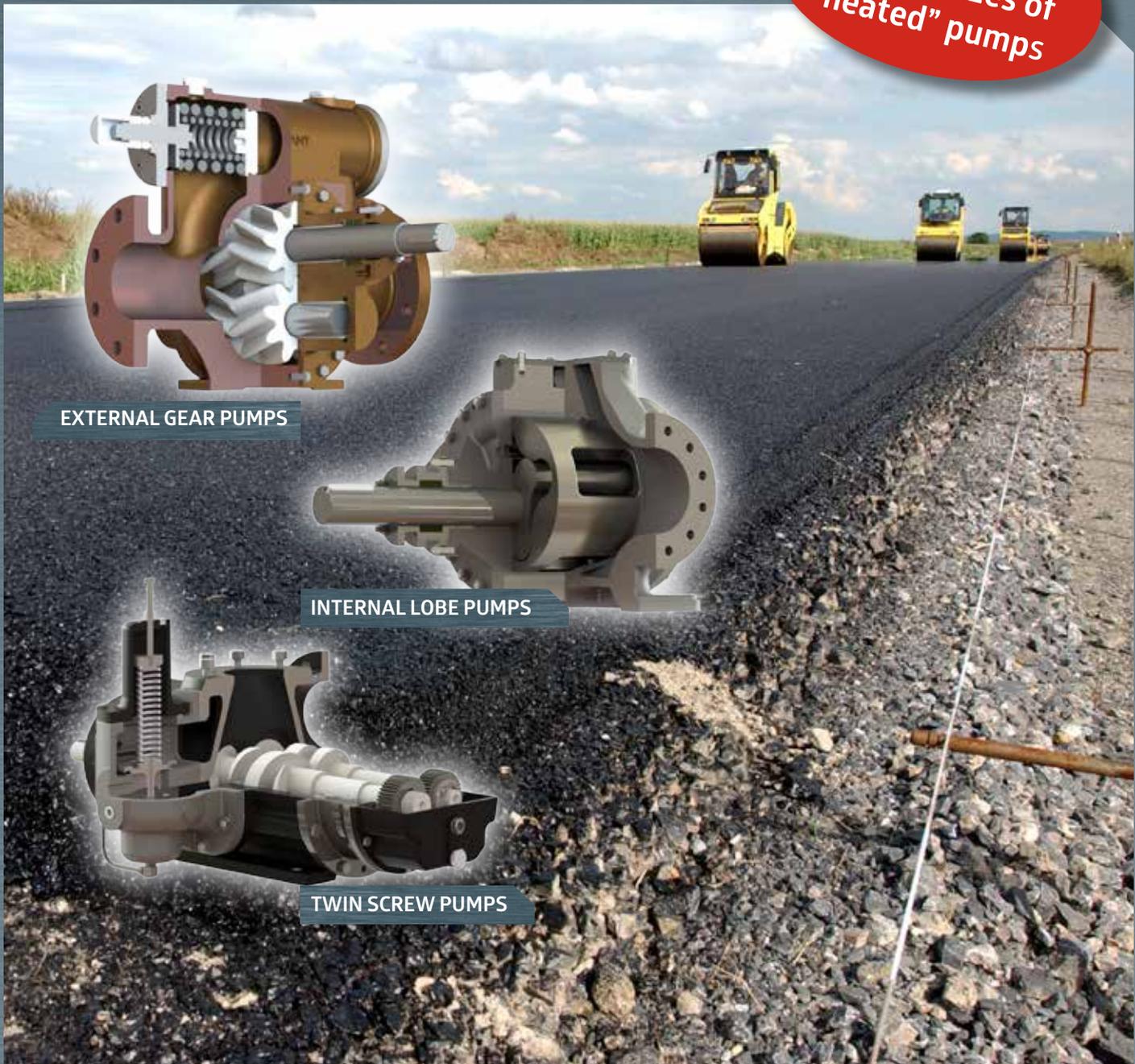


A fresh approach to bitumen pumping from a secure foundation

**PUMPS FOR THE  
BITUMEN INDUSTRY**

Ex-stock delivery  
on most sizes of  
"heated" pumps



EXTERNAL GEAR PUMPS

INTERNAL LOBE PUMPS

TWIN SCREW PUMPS



# Introduction

Albany Pumps makes a wide range of standard, customised and specialised positive displacement pumps in the UK. If you require an external gear pump, a twin screw pump or an internal lobe pump, we think you've found the right place:

- 100+ years of experience and British manufacture
- Employee ownership with a Trust to guarantee longevity
- CNC production plant in Lydney, Gloucestershire
- Service and repair centre in Bradford, West Yorkshire
- Standards for every industry ATEX, CE, BSI, VdS and API.
- 100+ countries sold to
- Over 5,000 proven application stories
- We own, manufacture and can support all of these brands:
  - Stothert & Pitt
  - Crown
  - Stanhope
  - Stanwin
  - Brooke
  - Handoll
  - Barclay Kellett

## How to use this guide

This Guide is designed to assist you in the understanding of our Gear, Screw or Lobe pump ranges and therefore help in the specification and order of pumps.

We often have more than one range or even type of pump that we have used in your industry and therefore offer a choice wherever possible. This choice may be an economy range or a lifelong range depending upon your capital expenditure requirements or could be industry-led by need for specification/certification.

We have applications engineers across the UK and worldwide who can assist you in pump selection against process data given and your own individual needs.

Each product featured throughout these pages has its own downloadable technical brochure. See our website.



Your local agent:

## Global Sales and Service from two British centres

### Head Office and Manufacturing Centre

Albany Engineering Company Ltd  
Church Road, Lydney  
Gloucestershire, GL15 5EQ  
United Kingdom

t: +44 (0) 1594 842 275  
Head Office (Option 1)

e: sales@albany-pumps.co.uk

@albanypumps

albany-pumps

### Service and Repair Centre

Albany Engineering Company Ltd  
Richter Works, Garnett Street  
Bradford BD3 9HB  
United Kingdom

t: +44 (0) 1594 842 275  
Service and Repair (Option 2).

e: service@albany-pumps.co.uk



# Pumping solutions for the BITUMEN industry

## Experience

At Albany Pumps we have over 100 year's expertise serving your industry. Our positive displacement pumps can be found in a wide variety of industries the world over. If you require a Gear Pump, a Twin Screw Pump or a Lobe Pump, we have more than 1000 years of collective experience within our Employee Owners and we are experts in your industry. Get in contact with us for more information about these particular industry solutions and we will be pleased to assist you.

With our ranges of gear, lobe and twin screw pumps, Albany are sure to be able to satisfy your positive displacement pump needs.

We understand how important reliability is for plant operators utilising bitumen pumps. We are the leading manufacturer of these pumps for the UK market with a proven track record of supply. Pumps are also widely exported. Albany has developed a simple leak free seal cartridge system which eliminates wasted product and has environmental benefits. Correctly maintained seals have been known to exceed five years life. We have good after sales back up with parts readily available from our UK factory.



## STOP YOUR BITUMEN GLANDS LEAKING!

Packed glands are designed to weep to provide cooling and lubrication. After time and perhaps cold starts they leak.

Albany have developed a Bitumen seal cartridge which really works to stop bitumen leaks. More robust than a mechanical seal, more effective and longer lasting than packed glands. We now fit our Eezi grease lubricator which will be outside your insulation.

The new kit comprises:

- a seal cartridge with hard shaft sleeve
- a greaser and relief valve located above your lagging

Contact us for pump service and new seals.



Download pump size and  
flow rate data from our website.  
[www.albany-pumps.co.uk](http://www.albany-pumps.co.uk)



# 100 years of applications all in one database

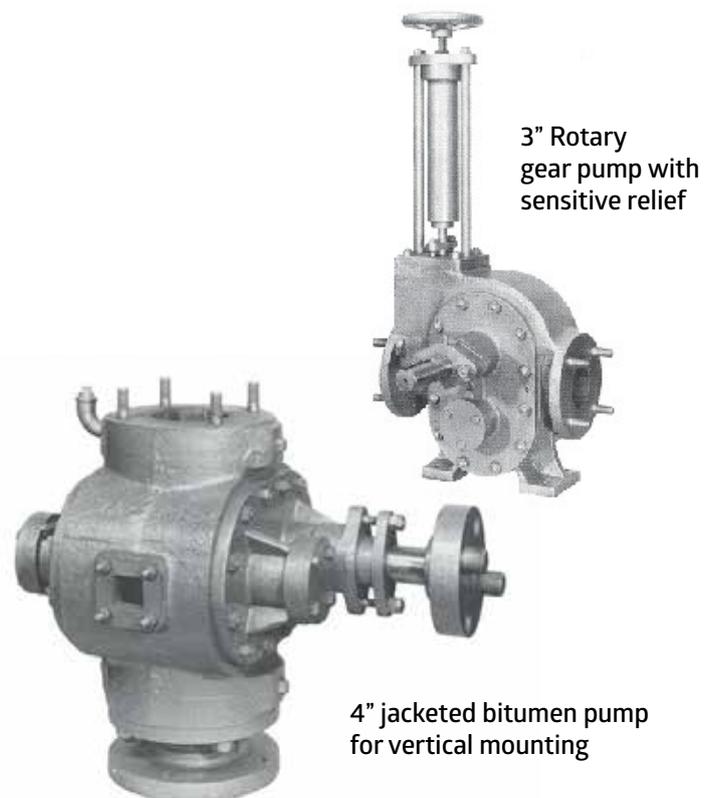
Albany Pumps has been leading the way in pump solutions for bitumen processes for decades. Our experience spans a wide variety of applications and we have examples of case studies in the bitumen market to draw upon, creating an enviable resource for our clients.

We have unsurpassed experience across a wide range of industries, we have successfully developed a database of over 30,000 projects. Our team of expert technical engineers is able to offer advice based on these successful projects. Below is a selection and we have many more. To discuss your particular needs and to find out about our relevant experience, please feel free to contact our sales team and look on our website for the full database.



## We can help you design a pump for your particular requirement.

Get started with our handy configurator tool on our website – our trained engineers will then be able to assist in fine-tuning your solution.



3" Rotary gear pump with sensitive relief

4" jacketed bitumen pump for vertical mounting

MARKET SECTOR	LIQUID BEING PUMPED	Customer Name	NUMBER	Pump Range & Style	Frame Size	Q/FLOW (l/min)	RPM	ROTATION	TEMPERATURE	SG	VISCOSITY
BITUMEN	BITUMEN	Confidential	M12/769	GB	H0090	1	5	720	TOP DRIVE / ANTI-CLOCKWISE		325 CST
BITUMEN	BITUMEN	Confidential	M12/768	GB	H0090	1	662	720	TOP DRIVE / A.C.W.		325 CST
BITUMEN	BITUMEN EMULSION CONTAINING TRACES OF HYDROCHLORIC	Confidential	M13/790	GB	SMC03	1	455	270	TOP DRIVE / CLOCKWISE		UP TO 200°C
BITUMEN	BITUMEN	Confidential	M13/801	GB	SMC03	1	455	254	TOP DRIVE / CLOCKWISE		
BITUMEN	BITUMEN	Confidential	M13/704	GB	H0090	1	8	250			125 CST
BITUMEN	BITUMEN	Confidential	M13/323	GB	H0090	1	400	960	TOP DRIVE / ANTI-CLOCKWISE		LESS THAN 150°C
BITUMEN	BITUMEN	Confidential	M13/327	GB	H0100	1	947	720	TOP DRIVE / ANTI-CLOCKWISE		325 CST
BITUMEN	BITUMEN	Confidential	M13/330	GB	H0090	1	111	720	TOP DRIVE / ANTI-CLOCKWISE		280°F TO 400°F
BITUMEN	BITUMEN	Confidential	M13/333	GB	H0090	1	479	720	TOP DRIVE / ANTI-CLOCKWISE		325 CST
BITUMEN	BITUMEN	Confidential	M13/426	GB	H0090	1	717	720	TOP DRIVE / ANTI-CLOCKWISE		325 CST
BITUMEN	BITUMEN	Confidential	M13/429	GB	H0090	2	435	720	TOP DRIVE / ANTI-CLOCKWISE		325 CST
BITUMEN	BITUMEN	Confidential	M13/443	GB	H0079	2	700	960	TOP DRIVE / CLOCKWISE		UP TO 150°C
BITUMEN	BITUMEN	Confidential	M13/444	GB	H0090	1	379	960			280°F TO 400°F
BITUMEN	BITUMEN	Confidential	M13/445	GB	H0079	2	606	720	TOP DRIVE / CLOCKWISE		280°F TO 400°F
BITUMEN	BITUMEN	Confidential	M13/506	GB	H0090	2	630	720	TOP DRIVE / ANTI-CLOCKWISE		325 CST
BITUMEN	BITUMEN	Confidential	M13/508	GB	H0090	1	288	720	TOP DRIVE / ANTI-CLOCKWISE		280°F TO 400°F
BITUMEN	HOT BITUMEN	Confidential	M13/409	GB	AP040	5	6		TOP DRIVE / CLOCKWISE		325 CST
BITUMEN	BITUMEN	Confidential	M13/478	GB	H0040	2	6	960			325 CST
BITUMEN	BITUMEN	Confidential	M13/486	GB	H0090	1	717	720	TOP DRIVE / CLOCKWISE		280°F TO 400°F
BITUMEN	BITUMEN	Confidential	M13/487	GB	H0040	1	379	960			325 CST
BITUMEN	BITUMEN	Confidential	M13/502	GB	H0100	3	947	720	TOP DRIVE / ANTI-CLOCKWISE		325 CST
BITUMEN	BITUMEN	Confidential	M13/517	GB	H0090	2	435	720	TOP DRIVE / ANTI-CLOCKWISE		325 CST
BITUMEN	BITUMEN	Confidential	M13/518	GB	H0090	1	717	720	TOP DRIVE / ANTI-CLOCKWISE		325 CST
BITUMEN	BITUMEN	Confidential	M13/520	GB	H0090	1	371	720	TOP DRIVE / ANTI-CLOCKWISE		325 CST
BITUMEN	BITUMEN	Confidential	M13/532	GB	H0090	1	717	720	TOP DRIVE / ANTI-CLOCKWISE		325 CST
BITUMEN	BITUMEN	Confidential	M13/545	GB	H0090	1	322	720	TOP DRIVE / ANTI-CLOCKWISE		360 TO 400°F

A small snapshot of our bitumen industry application database to help evaluate your next project. The full range database can be found on our website: [www.albany-pumps.co.uk](http://www.albany-pumps.co.uk)

## G: External gear type pump range for the BITUMEN industry

The G range is Albany's family of external gear pumps. And what a family – we have a large number of different styles to accommodate numerous different applications and markets for gear pumps:

### G: A Style: General purpose pumps

Materials: CI | CS

The GA range is Albany's general purpose pump, the origins of which can be traced back to 1901 when the company first started. It is capable of handling the widest variety of liquids, including extremely viscous. These pumps offer a durable, robust design ensuring ease of use and maintenance.

With a large choice of pump sizes, materials and sealing options to suit all applications, the GA range can be adapted to suit any customer or OEM application. Bespoke mountings and additional components and pipework allow simplified fitment to the final application. Use CEFG pumps for 3.1 certification.



Maximum working pressure <b>25 BARg</b>	Pump size range <b>1/2" - 4"</b>	Maximum temperature <b>200°C</b>	Flow rate <b>9.5-2273 L/min</b>
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### G: B Style: Heated and unheated pumps

Material: CI

The GB range is a heated gear pump (unheated option available) designed for pumping products that have to be heated to be pumpable. The design can incorporate heating by thermostatically controlled electricity, thermal oil or steam. Heated gear pumps are typically used for Bitumen, Crude Oil or Refined Tar among other generally viscous fluids. Our pumps are often supplied with a greaser which can be mounted remotely to allow easy greasing of the seal cartridge and giving the best possible service life.

The GB style features a seal cartridge to avoid leakage normally associated with bitumen pumps.



**Ask for our Eezi Grease leak-free bitumen pump**

Maximum working pressure <b>10 BARg</b>	Pump size range <b>1 1/2" - 6"</b>	Maximum temperature <b>220°C</b>	Flow rate <b>130-1600 L/min</b>
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### G: O Style: Vehicle pumps

Materials: AL | CI

The GO range is a series of pumps that are lightweight and have double helical gears for quiet operation. They are not suitable for hazardous materials.



Maximum working pressure <b>10 BARg</b>	Pump size range <b>2" - 4"</b>	Maximum temperature <b>180°C</b>	Flow rate <b>230-960 L/min</b>
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### G: S Style: Vertical pumps

Materials: AL | CI | GM | HY | SS

The GS range is a vertical pump derived from the GA range and can incorporate pipework of up to 4 metres. This is a highly customisable range, as we can supply a wide range of pumps in a choice of mounting plates with columns in different lengths and styles.

The ability to submerge the pump in the fluid is popular in various industries including bitumen and liquid sulphur. Grease is available for intermediate bearings as required.



Maximum working pressure <b>15 BARg</b>	Pump size range <b>1/2" - 3"</b>	Maximum temperature <b>200°C</b>	Flow rate <b>25-1400 L/min</b>
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Individual technical brochures for each pump style can be downloaded from our website



AL Aluminium | CS Cast Steel | CI Cast Iron | GM Gunmetal | HY Hastelloy | NR Ni-resist | NY Nylon | PP Polypropylene | SD Super Duplex | SS Stainless Steel

**Albany Pumps: British made, positive displacement pump solutions**

## G: External gear type pump range for the BITUMEN industry

### G: X Style: Customised pumps

All materials

Special pumps. How do you define a range of pumps which is only constrained by our customer's requirements? At Albany, we are always willing to speak to you about producing a special product to meet your needs and many diverse pumps have been produced within the GX range.

We are also able to manufacture customised Twin screw pumps (S: X Style) for special requirements.



Maximum working pressure 40 BARg	Pump size range 1/2" - 6"	Maximum temperature 220°C	Flow rate 25-1900 L/M
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## S: Twin screw type pump range for the BITUMEN industry

Albany Pump's S range is a versatile series of Screw pumps that can handle fluctuating flow rates and pressures without losing efficiency. This range is renowned for their low noise levels, high reliability and long life.

### S: B Style: External bearing pumps

Materials: CI | CS | SD | SS

This is similar to the SA style but allows a greater choice of sealing arrangements including API676 types and higher temperature and pressure operation. Again with various heating options and internal relief valve choice. (Original model SH2)



Maximum working pressure 30 BARg	Pump size range 3" - 10"	Maximum temperature 300°C	Flow rate 10-600 M <sup>3</sup> /HR
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### S: C Style: Internal bearing pumps

Materials: CI | CS | SD | SS

The SC style is only suitable for non-abrasive lubricating liquids. The bearings and timing gears are lubricated by the pumped liquid. It has only one mechanical seal making it a lower cost option with clean lubricating liquids. Heating and relief valve options are available. (Original model SH1)



Maximum working pressure 30 BARg	Pump size range 3" - 10"	Maximum temperature 200°C	Flow rate 10-600 M <sup>3</sup> /hr
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## L: Internal lobe type pump range for the BITUMEN industry

Albany Pumps is well-known for its design and manufacture of lobe pumps for over 100 years. Albany Pumps specialise in high and low viscosity pump models that are ideal for the gentle handling of sensitive process fluids.

### L: A Style: High viscosity pumps

Materials: CI | CS | GM | SS

The LA range is the 3:4 rotor pump which is typically used for higher viscosity fluids running at reduced speed through gearboxes. These pumps are classically used in the bitumen industry, but have many other applications. These pumps have a replaceable liner and all other components are designed for maximum efficiency and total life cost. There are versions of these pumps available that work on a faster running concept that gives better flow rates. The pumps can be partially cleaned via an inspection cover. Internal or external bearing options are available for this range.



Maximum working pressure 25 BARg	Pump size range 1" - 8"	Maximum temperature 200°C	Flow rate 2-1200 L/M
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We can supply direct replacements for all of the Stothert & Pitt, Handoll and Barclay Kellett pumps made, using our library of their original drawings dating back to the 1930s.

Individual technical brochures for each pump style can be downloaded from our website



AL Aluminium | CS Cast Steel | CI Cast Iron | GM Gunmetal | HY Hastelloy | NR Ni-resist | NY Nylon | PP Polypropylene | SD Super Duplex | SS Stainless Steel