



HUGHES
PUMPS LIMITED

High & Ultra High Pressure Technology

UDOR Group



Bareshaft Pumps



Diesel & Electric Units



Spares & Accessories



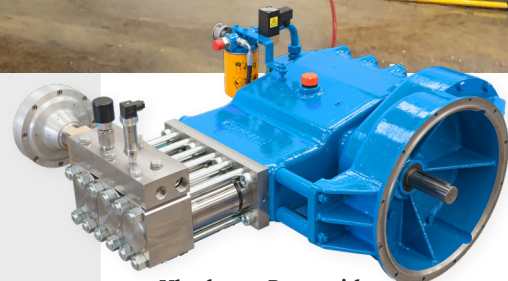
HP & UHP water jetting equipment manufactured in the UK since 1970



With extensive experience in the design & manufacture of High Pressure (HP) & Ultra High Pressure (UHP) plunger pumps and Water Jetting equipment since 1970, Hughes Pumps is justifiably proud of its product range and offers a flexible approach to the changing needs of a worldwide customer base.

Every pump & unit we manufacture is function tested and certificated for performance prior to despatch from our UK works.

Manufactured in the UK Since 1970



Ultrabar 30 Pump with optional SAE adaptor

Our Pump Range

Our range of pumps operate at pressures from 70 to 2800bar (1,000 to 40,000 psi) and flow rates to 806 lpm (213 usgpm) with ratings from 30 to 375 kW (40 to 500 hp). The pumps are ruggedly constructed, each including a range of plunger sizes. This allows selection of the ideal pump for the job. Close-coupled reduction gearbox drives are standard, with a choice of gear ratio to suit most prime mover

speeds. Also available are SAE engine adaptor housings allowing the pumps to be flange mounted to diesel engines, ensuring perfect alignment and making installation simple. The power end of the pump features cast iron casings with splash or pressure lubrication and oil cooling. Pump heads are manufactured from stainless steel as standard. The in-line valve arrangement prevents the

adverse effects of cyclic stress within the head block, while allowing all working components to be easily removed on site for service. Solid ceramic or tungsten carbide plungers extend the life of the self adjusting plunger seals. The Ultrabar range of UHP pumps include design features that allows seals and valves to be monitored without tools and maintenance on individual cylinders.

HP220/UB30 10' DNV Offshore Container

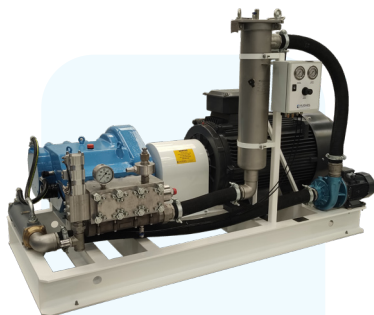


Water Jetting Units

Skid, site trailer or road trailer mounted units are available with or without sound reduction enclosures, driven by a choice of diesel engines (to suit all regions of the world) or electric motors for use in safe or hazardous areas (ATEX compliant where required). All fabrications are grit blasted and high quality powder coated for a durable finish. For offshore applications fully certified crashframes or containers are available with paint finishes to customer specification. Every unit manufactured by Hughes is robust, simple to operate and maintain, and designed for longevity.

Diesel engines and electric motors are sourced from world leading manufacturers. Simple control panels are used throughout the product range avoiding the need for PLC systems, ensuring reliability & easy trouble shooting. High capacity water filters and stainless steel suction line fittings are used as standard and boost pumps fitted for higher pressure applications. Shutdown switches are fitted where necessary to monitor various pump and prime mover functions.

HP300 Electric Skid



HP220/UB30 Diesel Base Skid



HP220/UB30 Diesel Road Trailer



Accessories

To complement the pump sets, a comprehensive range of water jetting accessories is available to cover every application:

- Hand held jetting guns - land and underwater
- Foot control valves
- Unloader and diverter valves
- Surface cleaning jets - pencil, fan and rotating
- Pipe and tube cleaning jets - fixed and rotating
- Heat exchanger cleaning - manual and automatic
- Tank cleaning heads
- Floor, road and runway cleaning
- Water abrasive blasting
- High pressure hoses, flexible and rigid lances
- Robots for surface preparation

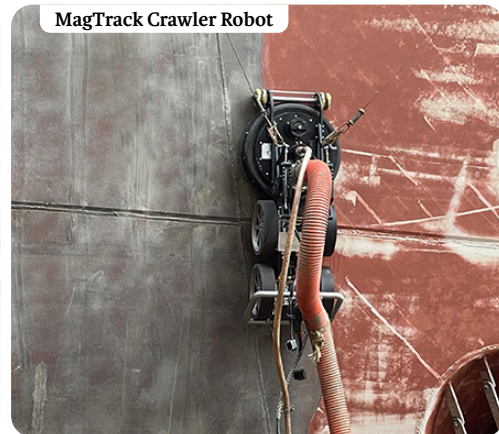
Abrasive Cutting System



Rotocar Cleaning System



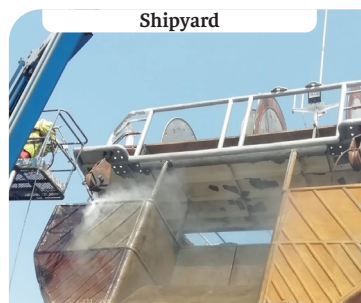
MagTrack Crawler Robot



Worldwide Support

Backed by a comprehensive spares stockholding, we have dedicated Service Engineers who travel nationally and internationally keeping our pumps running round the clock. We also work closely with our overseas dealers who have been trained in the selection, operation and maintenance of our product range ensuring they can provide the vital after sales service demanded by today's fast moving industry.

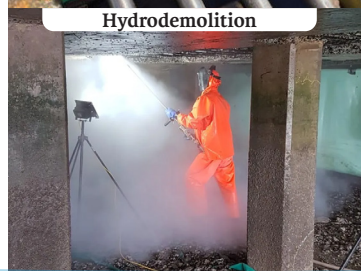
Shipyards



Heat Exchanger Cleaning



Hydrodemolition



Runway Line Removal - APEX Stripe Blaster™



Applications

- Heat exchanger tube cleaning
- Water & abrasive blasting
- Surface preparation (coatings & corrosion removal)
- Pipe cleaning & de-scaling
- Tank & vessel cleaning
- Hydrodemolition
- Sub-sea cleaning & cutting
- Pressure Testing
- Cold cutting
- Floor, road & runway cleaning
- Road re-texturing & white line removal

Made In The UK
Since 1970

Hughes Pumps Limited
Spring Gardens,
Washington,
West Sussex, RH20 3BS
United Kingdom

Pump Model	Plunger Dia [mm]	Power Rating		Flow rate		Max Pressure	
		kW	HP	lpm	gpm	bar	psi
HP40	14	30	40	16	4.3	1000	14,500
	35			103	27.2	160	2,320
HP60	18	48	65	27	7.2	1000	14,500
	35			103	27.2	250	3,625
HP120	22	90	120	35	9.3	1400	20,300
	55			277	73.4	175	2,538
HP220	26	160	220	62	16.4	1400	20,300
	55			277	73.4	310	4,495
HP300	30	225	300	77	20.5	1400	20,300
	75			484	128.2	250	3,625
HP500	30	375	500	129	34.2	1400	20,300
	75			806	213.7	250	3,625
UB30	14	85	114	18	4.8	2800	40,600
	18	140	188	30	7.9	2800	40,600
	22	150	201	44	11.7	2000	29,000

The chart above shows extreme flow/pressure combinations with smallest and largest plungers fitted. All pumps have a range of plunger sizes available.



Machine Shop

We are the only UK manufacturer of HP/UHP pumps rated to 375kW & 2800bar (500HP & 40,000psi).

All the pump components are manufactured in our state-of-the-art machine shop, equipped with a range of CNC machine tools.



Test Bay

The specialist testing facility within our factory allows us to fully test & certify our pumps. All pumps undergo a 3-hour test where around 20 different functions are monitored and logged.



Machine Tending Robots

Machine tending robots allow us to run unmanned, overnight and weekend work to reduce lead times.



Certification number 4257



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