

Yellowpumps offer a comprehensive range of high quality heavy duty slurry, sludge and water pumps. Available for immediate sale, with sizes available from a stock range from 25mm up to 200mm. The Yellowpump range provides total versatility when it comes to materials of selection,

interchangeability of components and variations to extend the life of components. Wear and overall reliability will be limited to the weakest part of the pump. The flexible design of these pump units combined with the appropriate selection of material of construction ensure the lowest operating costs.



A wide range of high quality Pumps and Pumpsets available from Yellowpumps

Standard Slurry pump



Designed for the continuous pumping of highly abrasive, high density slurries with minimal maintenance requirements, the Yellowpump horizontal centrifugal pumps maintains high efficiencies over the wear life of its components.

All Yellowpumps offered come with Timken bearings fitted as standard. We offer a choice of either high chrome metal or durable rubber pump liners; we also offer full spare sets backup to support everything that we sell.

Yellowpump rubber and metal lined pumps feature casings which are radially split into two halves with minimum casing bolts reducing maintenance and minimise downtime.

Benefits and options include:

- Yellow pumps are simple to maintain
- Yellow pumps are simple to strip and rebuild
- Yellow pumps require a flooded section to WORK EFFICIENTLY, they are not self priming.
- Yellow pumps offer a number of impeller options.
- Removable cartridge type grease lubricated bearing assembly can be replaced with the pump base in-situ, facilitating easy maintenance.
- Optional centrifugal shaft seal eliminates the need for gland sealing water.
- Configurations of metal and rubber lined pumps of the same frame size use the same base, bearing assembly, stuffing box and shaft sleeve, reducing stockholding to a minimum.



Typical Applications:

- Process Plant Transfers
- Wet Waste Processes
- Recycling - Washing Plants
- Sand Plant Duties
- Heavy Minerals (Processing)
- Mineral Recovery Applications
- Chemical Process Plant Duties.

Ground Sump pump



Typical Applications:

- Ground Sump Drainage/Washdown
- Floor Drainage
- Mill Sumps
- Carbon Transfer
- Level Monitoring
- Magnetite Mixing

The Yellow ground sump pump type SP-metal lined and SPR - Rubber lined are manufactured in popular metric sizes, they provide a simple yet rugged range of sump pumps specially devised for:

- Abrasive and/or corrosive slurries
- Large particle size
- High slurry densities
- Continuous or "snore" operations
- Heavy duties demanding cantilevered shafts

Offering many features and benefits:

- Bearings, shaft and housing are generously proportioned.
- Grease lubricated and sealed by labyrinths; the upper bearing is grease purged and the lower bearing protected by a special flinger.
- The upper or drive end bearing is a parallel roller type whilst the lower bearing is a double taper roller with preset end float.
- Mild steel column assembly the Yellowpump type SPR model is

elastomer covered.

- A simple bolt-on casing attachment to the base of the column is manufactured from a wear resistant alloy for the Yellowpump type SP and from moulded elastomer for the type SPR.
- Double suction impellers (top and bottom entry-interchangeable) induce low axial bearing loads incorporating heavy deep vanes for maximum wear resistance and for handling large solids.
- Drop-in metal mesh upper strainer; snap-on elastomer or polyurethane for type SP and type SPR pumps with strainers fitting in column openings.
- Bolted metal or polyurethane lower strainers for type SP and moulded snap-on elastomer for type SPR.

Gravel pump

The Yellowpump range of gravel pumps is designed specifically for continuous pumping of extremely aggressive slurries, with a wide particle size distribution. Capable of handling large particles at consistently high efficiencies results in low cost of ownership. The large volume internal profile of the casing reduces associated velocities further increasing component life.



Typical Applications:

- Cyclone Feed
- Suction Hopper Dredging
- Dredging
- Barge Loading
- Mill Discharge
- Sand Reclamation
- Sugar Beet



Design and Unique Features

- The unique segmented clamp ring on larger size units and a solid ring on smaller pumps facilitates casing rotation to any angle.
- Impeller expulsion vanes reduce gland pressure and intrusion of high concentrations of solids in the gland area.
- Specially designed and shaped impeller vanes allow the handling of extraordinarily large particles.
- Designed to reduce internal velocities the large, robust casing facilitates minimum efficiency loss and improved casing wear life.
- Yellowpumps heavy-duty grease lubricated taper roller bearing assemblies are fitted as standard.
- A standard unique end cover assembly comprising of V-seals, double piston rings and an external flinger with grease lubricated labyrinths.

High Head pump

The Yellowpump range of Type HH (High Head) pumps was designed specifically for continuous use in slurry type applications where a high head per stage is required. The range is capable of handling medium size particles and pumping at heads in excess of 90 metres per stage. The small eye to impeller diameter ratio provides a combination that yields excellent wear performance. The pumps were also designed for higher pressure applications typically associated with series pumping.

Design and Unique Features

- Heavy duty encapsulated design, with an all metal design of the wet-end components.
- The unique impeller eye to vane diameter ratio design allows the pump to develop significant amounts of head per stage.
- The wet-end fits onto the standard Yellowpump mechanical end without the need for any adaptor plates.
- Robust heavy duty bearing assemblies consisting of heavy duty taper rollers, minimum shaft overhang and large diameter rigid shafts, all contributing to trouble free operation.
- The Yellowpump type HH pumps are fitted to a size up bearing assembly to cater for the increased absorbed power requirements from the higher head per stage duties.
- A unique end cover assembly comprising V-Seals, double piston rings and an external flinger with grease lubricated labyrinths is standard.
- Available in either a centrifugal or stuffing box sealing arrangement.



Typical Applications:

- Tailings Pumping
- Cyclone Feed
- Press Feed Pump
- High Pressure Water Pump
- Stage Pumping Duties
- Heavy Minerals
- Shaft/Pit Dewatering

Pump Sets

Each pump set is designed specifically to meet the requirements and individual needs of our customers on each and every project. We offer the unique benefits or providing individual designs for individual customers without the long lead times or teething problems usually associated with one off solutions. If other manufacturer's standard products will not fit or do not meet your requirements then speak to Yellowpumps and we will design a purpose built variable speed pump set to meet your individual needs.

Technical advice and design assistance is available upon request; our team has over 100 years of working knowledge and process experience.

We offer a range of pumpsets that can be supplied in a range of formats:

- Stacked format.
- Side by side format.
- Direct coupled format.



All our pumpsets utilize the following components sourced from leading manufacturers:

ABB ABB - High efficiency motors

TIMKEN Timken - high quality pump bearings

Fenner Fenner - drive belts and pulleys

KLINGER Klinger - pump packing

FUCHS Fuchs Lubricants - Renolit EP 2 extreme pressure grease



Motors



We carry an extensive stock of new ABB, multi voltage, high efficiency electric motors from 3kW to 250 kW and can also supply flanged mounted motors and most types of ABB LV products on request.

With over 100 years of manufacturing experience the ABB process performance motor is engineered to meet the most demanding applications found in industries; including pulp and paper, water treatment, food and beverage, metals and building materials. Such is the high design specification of the motor,

when used in conjunction with applications in these industries, ABB is able to provide a 3 year warranty.

Built to the highest manufacturing standards, the process performance motors use the best materials sourced from around the world. This brings a quality and reliability that can see motors operating for over 30 years.

See website for our price schedule.

All our ABB electric motors conform to the new standard for measuring motor efficiency

Electronic Variable speed drives (VSD)

Squirrel cage induction motors offer excellent availability, reliability and efficiency. However, they have two weaknesses; starting performance and smooth speed control over a wide range. A motor with a frequency converter - variable speed drive (VSD) - solves both these problems.

A variable speed drive motor can be started softly with low starting current, and the speed can be controlled and adjusted to suit the application demand without steps over a wide range.

The benefits of variable speed drives have been widely recognized and the number of different applications equipped with VSD is growing. Depending on the motor size, the share of VSD can be even 50% of the new installations.

The principal advantages of VSD:

- Optimal speed and control accuracy to deliver major energy and environmental savings.
- Reduced need for maintenance.
- Higher production quality and greater productivity.

Electronic Soft Starter Units

Burrows Pump Sales stock the SAFTRONICS S2S Digital Soft Drive Starter which offers a high level specification.

- Pedestal sets initial voltage hence torque, adjustable from 0-80% of line voltage.
- Ramp-up sets the desired acceleration time for motor, adjustable from 0-240 seconds.
- Current limit hold voltage ramp once a preset level is reached, adjustable 100-500% FLC.
- Pedestal down sets level of voltage before ramp down commences, adjustable 100-20% of line volts.

We stock the Yaskawa A1000 which is a premium inverter drive for a wide field of applications including great advantages in many fields. Safety features of the A1000 comply with today's market safety requirements and offers standard reliable operation:

- YASKAWA A1000 provides significant costs and reduction potentials during installation and operation. Offering excellent motor drive performance, environmental benefits and energy savings as well as many user orientated operational features.
- Providing newest safety features: Safety features of the A1000 comply with today's market safety requirements and standards.
- For easy start-up and reliable operation: YASKAWA A1000 provides significant cost reduction potential during installation and operation.
- Improved drive design and functions: Small size and application oriented design improve performance, reliability and performance life.
- Enhanced Efficiency & Environment: Using the A1000 saves energy and reduces audible noise.

- Ramp down sets acceleration rate for motor, adjustable from 0-240 seconds.
- Zero sense sets switch point for deceleration, adjustable from 0-70% of line voltage.

Features include:

- Heavy duty soft start - 500% overload for 5 seconds, 300% overload for 30 seconds.
- Rated at 12 starts per hour.
- Electronic motor overload protection.
- Earth fault detection when used with optional core balance transformers.

12 models are available from 15 - 200 kW



Requires lower initial capital set-up cost



Offers much lower running costs compared to other well known brand named slurry pumps



Motto:-

A - Keep it simple

B - We have the solution in mind

The team at Burrows Pump Sales has over 100 years extensive working knowledge and process experience and is able to offer technical advice and design assistance.

Contact us with your pump duty and we will advise you of the best pump option to suit your process needs, we will even advise you what size of pipeline to use.



BURROWS PUMP SALES LIMITED

OLD BENTINCK COLLIERY (Workshops)
PARK LANE
KIRKBY IN ASHFIELD
NOTINGHAMSHIRE
NG17 9LE

TEL +44 (0) 1623 751165
FAX +44 (0) 1623 758606

Andrew Arries Mobile No +44 (0) 7775 808647
E-Mail burrowspump02@btconnect.com

REGISTERED HEAD OFFICE
WOLSLEY HOUSE
108 SALTERGATE
CHESTERFIELD
S40 1NE

TEL +44 (0) 1246 277530
FAX +44 (0) 1246 277624

Michael Starsmore Mobile No +44 (0) 7775 808613
E-Mail burrowspump01@btconnect.com

VAT Registration No. 917 8291 93 Company Registration No. 6361825



www.yellowpumps.com



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