



industrial process division

150 YEARS established 1864

MANUFACTURING THE PERFECT SOLUTIONS

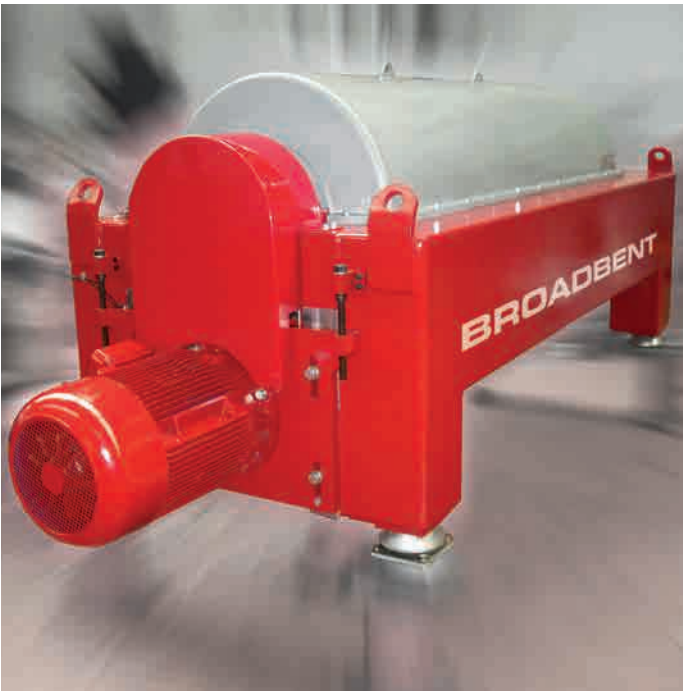
High Speed Decanter Centrifuges



PIONEERS OF
ENGINEERING
EXCELLENCE
IN CENTRIFUGE
TECHNOLOGY

Thomas Broadbent & Sons Ltd, founded in 1864, has over 150 years of experience in the design and manufacture of centrifuges. Broadbent is a British manufacturing company with international recognition as pioneers of engineering excellence in centrifuge technology.

The Perfect Solution to Process Solutions



Broadbent - Introducing our contemporary and superior TB Range of High Speed Decanter Centrifuges.

Broadbent - Listens to the needs of our clients' providing a dedicated personal service on a global scale. With offices in strategic locations, our international network enables us to provide a worldwide service 24/7, 365 days a year. By promoting a value chain management system in synergy with the supply chain, our aim is to provide a world-class service.

Broadbent - TB Range of High Speed Decanter Centrifuges are manufactured to the highest standard to achieve maximum performance.

Broadbent - Designed for efficient, continuous and controllable performance, they can be fully integrated into new or existing processes.

Broadbent - Using only the best quality materials providing you with a robust, reliable and durable design, yet cost effective with an environmental ethos.

Size range currently available

Model	Bowl (mm)	Motor size (kw)	Pump (kw)
TB325	325 x 1300	15-22	5.5-11
TB425	425 x 1700	15-22	11-22
TB575	575 x 2300	55-90	22-37
TB750	750 x 3000	75-110	22-55

A highly versatile and reliable option for a large variety of separation processes, the perfect solution for your needs.

Its application, in particular the de-watering of waste sludges demonstrates it is an essential and most valuable tool in combating environmental pollution.

Broadbent offers bespoke and cost effective solutions for your industry

For **more information** about the **Broadbent's TB Range of Centrifuge Decanters** or any other of our products, please **contact Broadbent's for a consultation** from one of our **Industrial Process Experts**: Tel: +44 1484 477260 or e-mail: ipd@broadbent.co.uk

Broadbent – The perfect solution for your solid-liquid separation problems.

Broadbent – Can provide you with a complete package from initial enquiry through to the lifetime of the product.

Industrial Process Applications

Specifically for:
Municipal waste water treatment
Industrial waste water treatment

Other Industry Applications

Mineral
Chemical
Food/paper/leather
Power
Automotive
Drilling muds
Oil/gas applications



Broadbent's TB Range of High Speed Decanter Centrifuges

Broadbent's superior TB Range designed to meet the needs of new, existing and emerging markets, with you, the industry, the economy and the future in mind.

Manufacturer of choice: With Broadbent's reputation for excellence it's obvious to see why we are the manufacturer of choice.

The modern TB Range of High Speed Decanter Centrifuges designed using the very best of materials, capable of very high centrifugal forces which will give optimal performance with reduced chemical addition.

Key Benefits

Broadbent - International recognition for excellence in centrifuge technology.

Broadbent - UK manufacturer with world-class/worldwide customer service from initial enquiry through the lifetime of the product.

Broadbent - Designed and built to international standards, EN12547 and ISO9001:2008.

Broadbent:-

- Low cost of ownership means value for money
- Highly energy efficient equals low power consumption
- Low capital costs
- Superior quality in choice of materials
- Designed for optimum performance and reliability
- Designed to operate to maximum performance in any environment
- Environmentally conscious

Key Features

Broadbent - Designed with replaceable wear parts for easy servicing.

Broadbent - Bowl assembly manufactured from duplex stainless steel as standard.

Broadbent - Scroll assembly manufactured as standard with a 316 stainless steel hub and duplex flights.

Broadbent - Replaceable feed chamber which can be tailored to suit different application.

Broadbent - Compact design for ease of installation.

Broadbent - Designed with hydraulic scroll as standard.





The TB Range of Decanter Centrifuges are ideal for skid and mobile installation. With powerful and efficient performance which means long-term profit for short-term investment.



The TB Range of High Speed Decanter Centrifuges: Technical Specification

As standard the TB Range of High Speed Decanter Centrifuges are fitted with variable speed hydraulic scroll drives, the advantage of which operates the scroll completely independently of the bowl and at system start-up, removing any residual solids that will cause vibration and possible bearing damage.

The duplex flight have excellent resistance to pitting and crevice corrosion due to the balance of the elements forming a metallurgical structure of almost equal amounts of austenite and ferrite.

The centrifugally spun castings used by Broadbent means that the bowls are seamless with bowl flanges cast in. The centrifuges are assembled with the following wear parts as standard.

- Replaceable wear bushes
- Hardfacing on the flights
- Replaceable feed chamber liner
- Tungsten, ceramic or silicon tiles can be fitted too for extreme applications

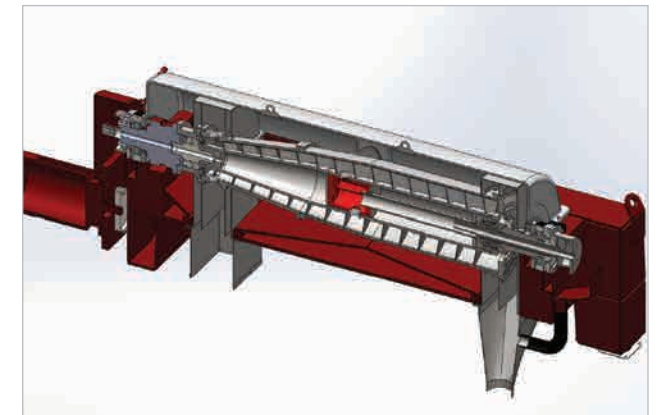
Broadbent - TB Range High Speed Decanter Centrifuges:

- Fitted with variable hydraulic scroll drive system
- Internal view showing feed compartment and bowl configuration
- Scroll detail
Centri-spun cast hub construction - 316SS
Wear protection (tungsten carbide - spray or tiles)
- Bowl configuration
Our bowl assemblies are manufactured from CD6MN duplex Centrifugally spun castings, the mechanical strength of which is 30% higher than that of stainless steel.
With:
 - 4:1 ratio
 - Compound taper as standard
 - High separation g-force up to 4000g
 - Centri-spun duplex construction
 - Wear protection for solids discharge (ceramic or tungsten carbide)

Broadbent Customer Service, Spares and Repairs

Broadbent's are pioneers as well as world leaders in centrifuge technology. We believe our strong connection with our existing clients is a testament to our position in the market place and would like to extend our high standard of service, product and delivery to all new clients.

For more information please contact us via our head office in the UK, your local office or representative in your country. (See overleaf for all our contact details)



Broadbent - Proud to lead the way now and into the future

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