

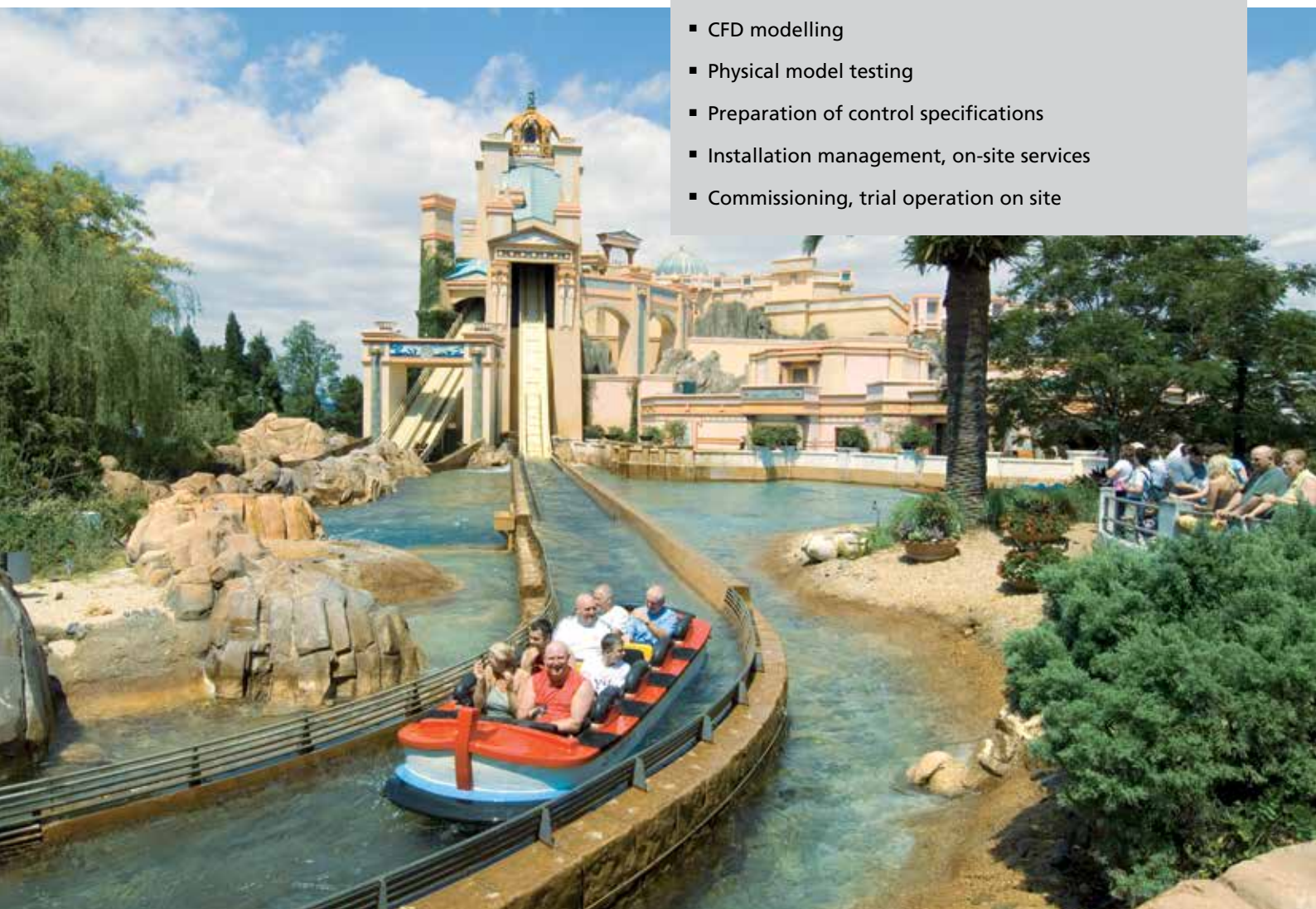
KSB pumps put the splash into water



PROJECTS: ■ Thorpe Park, Great Britain · white water ride ■ Alton Towers, Great Britain · white water ride ■ Colchester Leisure Centre, Great Britain · white water slide ■ Northampton Canoe Centre, Great Britain · canoeing slalom course ■ Scottish Rowing Centre, Great Britain · rowing trainer ■ Wave Rider, Hervey Bay, Australia · simulated surf waves ■ Wave Rider, Aqua Palace, Hungary · simulated surf waves ■ Wave Rider, Aqua World, Hungary · simulated surf waves ■ Wave Rider, Swansea Leisure Centre, Great Britain · simulated surf waves ■ Markkleeberg, Germany · white water ride ■ Gardaland, Italy · white water ride ■ Six Flags, TX, USA · white water ride ■ Rapid Ride Worlds of Fun, Kansas, MO, USA · large flume ride ■ Rapid Ride, Cedar Point, Sandusky, OH, USA · large flume ride ■ Great Escape, Glen Fall, NY, USA · large flume ride ■ Great America, Santa Clara, CA, USA · large flume ride ■ Hershey Park, Hershey, PA, USA · large flume ride ■ Rapid Ride, Chicago, IL, USA · large flume ride ■ Hunts Pier Rapid Ride, Wildwood, NJ, USA · large flume ride ■ Knotts Berry Farm, Buena Park, CA, USA · large flume ride ■ Busch Gardens, Williamsburg, VA, USA · large flume ride ■ Rapid Ride, Kings Island, OH, USA · large flume ride ■ Rapid Ride, Sea World, San Antonio, TX, USA · white water raft ride

Expertise from consultation to completion!

- Hydraulic analysis
- Transient flow analysis
- Economic feasibility analysis, system analysis and optimisation
- Comprehensive services throughout all project planning stages
- CFD modelling
- Physical model testing
- Preparation of control specifications
- Installation management, on-site services
- Commissioning, trial operation on site



Safe rides and a fountain of choices.

As one of the world's leading manufacturers of pumps, valves and systems, KSB has offered efficient and reliable fluids transport solutions for more than 140 years. Our state-of-the-art pumps and valves transport and control almost any fluid you can think of.


Water rides and similar attractions provide entertainment for people of all ages, and have successfully established themselves in the rapidly growing leisure market. The installations' pumps and valves face extreme demands during continuous operation and have to meet the highest safety standards.

Our pumps and valves do more than just move water to specific locations. They also create those special effects that make theme parks such fun. The huge choice of attractions requires endless variety: Pumps need to lift water and circulate it, create waves and currents, and simulate rapids, fountains and cascades. Our high-quality products and technology have been proving their worth for decades and will guarantee top reliability and safety for all your installations.

KSB offers you an easy ride from start to finish, with qualified professional advice, planning and implementation, right through to commissioning. We provide technical know-how and specialised engineering in hydraulic and transient flow analysis, economic feasibility studies, CFD modelling and physical trial runs. And our worldwide service network ensures that your facility keeps running smoothly, splash after splash.

Ask us. Whatever your needs, we'll find a solution.






Amacan

Submersible pump in discharge tube e.g. for installation in canoing parks and white water rides

- Simple and safe installation/removal
- Robust technology for uninterrupted continuous operation
- Large volumes of water can be circulated at very low heads

Drive rating	up to	460 kW
Head	up to	55 m
Flow rate	up to	7000 l/s



Amarex KRT

Submersible motor pump e.g. for installation in white water rides and water slides

- Efficient submersible motor pump for dry and wet installation (continuous operation)
- Works reliably even with contaminated fluids
- Also lifts large volumes of water to low heads (depending on the type of impeller used)

Drive rating	up to	850 kW
Head	up to	100 m
Flow rate	up to	2800 l/s



Amaline

Recirculation pump
e.g. for installation in white water rides

- Robust and proven technology for undisturbed continuous operation
- Large volumes of water can be circulated at very low heads

Drive rating up to 16 kW
Head up to 2 m
Flow rate up to 1300 l/s



Amamix

Submersible mixer
e.g. for installation in white water rides

- Highly reliable and economical (long service intervals)
- High thrust-to-power ratio, e.g. for creating currents in pools

Drive rating up to 16 kW
Speed up to 1400 1/min.
Propeller diam. up to 600 mm



Sewatec

Dry-installed pump,
e.g. for installation in water slides and water cascades

- Highly reliable and economical (continuous operation)
- Works reliably even with contaminated fluids
- Also lifts large volumes of water to low heads (depending on the type of impeller used)

Drive rating up to 710 kW
Head up to 95 m
Flow rate up to 2800 l/s



Water slides

Standing wave

White water ride

Water fountains
Water cascades



Etanorm

Horizontal volute casing pump, e.g. for installation in water cascades and water slides

- Energy-saving standardised pump
- Economical and low in maintenance
- Also lifts small volumes of water to various heads

Drive rating	up to	250 kW
Head	up to	160 m
Flow rate	up to	528 l/s



Multitec

High-pressure pump in ring-section design, e.g. for installation in water cascades

- Space-saving installation due to axial suction nozzle or vertical installation
- Various types of installation
- Available in a variety of materials, e.g. for handling seawater

Drive rating	up to	1200 kW
Head	up to	800 m
Flow rate	up to	236 l/s



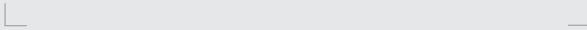
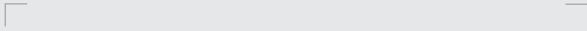
Submersible borehole pumps

Centrifugal pump in shroud or ring-section design, e.g. for installation in water fountains and cascades

- Economical
- Robust and low in maintenance; suitable for continuous operation
- Various types of installation
- Large selection chart
- Various materials available

Drive rating	up to	3500 kW
Head	up to	1500 m
Flow rate	up to	695 l/s

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