

The Myths and Benefits of Hydroslide Upgrades

- Particularly in regards to safety
- But also cost and future proofing

NEWWAVE
hydrosides and aquatics



Background

- We keep hearing ill-informed people in the industry suggesting that retrofitting hydroslides is dangerous
- This appears to be coming from people with little or no knowledge of modern hydroslide analysis and design
- This presentation is aimed at informing both current and prospective client of the facts
- It will, we hope, show you why it is safer than building new hydroslides that are dependant on modern engineering analysis tools

Benefits

Rider Appeal

- Traditional body slides are an age old favourite
 - They are the latest to every 5 or 6 year old who has never ridden a hydroslide before
- Hydroslides provide the benefits of huge excitement in a safe environment
 - What so many parents are striving for:
 - A way for children to push the boundaries of excitement, in a safe and controlled way
 - Now we can use modern techniques similar to those used by Weta Workshops and others to reinvigorate them

Existing Site Constraints

- Frequently we find that fitting a new feature slide is not possible, without major building modifications
- Particularly in an aquatics facilities which are often constrained by swimming pools and nonboring properties or buildings



Benefits

Cost

- Typically a new slide, with towers and other support structures is in the range of \$1 million to \$3 million
- Its possible to reinvigorate your older slide with the latest in interactive options for \$100k to \$400k, a tenth of the cost
- However, if budget allows we can provide the best the world has to offer in feature slides with our partners ProSlide (refer to our team and news sections on our website) and everything in between

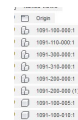
Feature Benefits

What does retrofitting provide:

- Options for gaming
 - The ultimate draw card for teens
 - Who ever tires of a game they can never quite master?
 - Competing with friends they are dying to show up

Design Considerations

- Modern techniques allow us to scan and recreate existing slides in our 3D CAD models with stunning precision
- So we can design the modifications with precision
- So we can plan the installation
 - Minimising construction risk
 - Minimising disruption



The two snap shots above are from an existing Hydroslice in a Point Cloud and Drape Model. Such models allow us to measure accurately the surrounding structures as well as the slide and plan any retrofit works in photographic reality.

Snap Shot Of Two Existing Hydroslices Modelled to +/-5mm in a 3D CAD format.

This technique allows us the ability to analyse the ride design using modern slide analysis techniques.

Safety Advantage of an Existing Hydroslide is:

Using modern instruments and analysis we are able to test the acceleration on the human body as the existing hydroslide is ridden, this means:

- We know with certainty how the old slide rides
 - We don't have to rely solely on modern hydroslide analysis tools to estimate how it will perform
- We can be certain it meets the latest hydroslide design standards
- And most importantly we have access to a history of its actual health and safety performance, typically following tens of thousands of rides and countless innovative ways to fool around
 - Even modern hydroslide design tools are approximations of how a slide will perform
 - Nothing compares to the real thing
- The same safety results are not achievable with new designs which rely on modern engineering analysis tools
 - As has been witnessed in some recent incidents around the world
 - By reputable international slide manufacturers

What it Offers Our Clients

- 90% of the slides we have installed in the last 30+ years, still have significant life left in them
 - So why throw them out?
 - Lets just reinvigorate the slide itself
 - And include your riders in the journey
 - They are still a brand new experience to a 5 year old
- What new Hydrosides offer
 - The Wow factor and excitement of the latest feature slides (see ProSlide)
 - The smoothness and feel of a modern ride design