



Empire Dynamic Structures Ltd
78 Fawcett Road, Coquitlam
B.C. V3K 6V5, Canada

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www.empireds.com

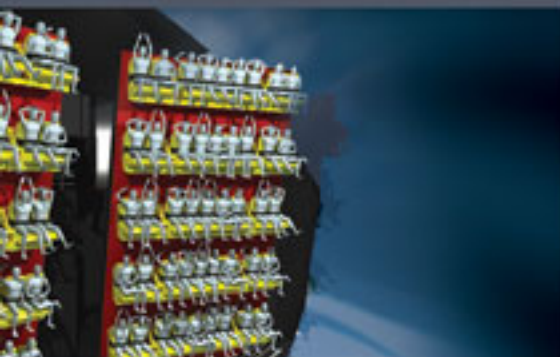
Anything you can dream we can build.

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Bigger, Thrilling, Safer

In an industry where audiences demand greater thrills delivered with increased safety, more and more amusement and entertainment companies are turning to us. Why? For decades we have built an international reputation building complex structures for ride systems. From concept, design and prototype testing to on-site delivery and assembly, we produce results. We've done it for leading North American, European and Japanese clients. We can do it for you.



Collaborate, Innovate, Create

Looking for the next big thing? So are we. Which is why we engineer strong partnerships with leading innovators. Together we are creating the world's most exciting and advanced ride solutions. You would be surprised who our clients are and what we have already achieved. We have significantly and consistently participated in the industry's best known attractions, and we're proud to be helping the leaders stay in front.

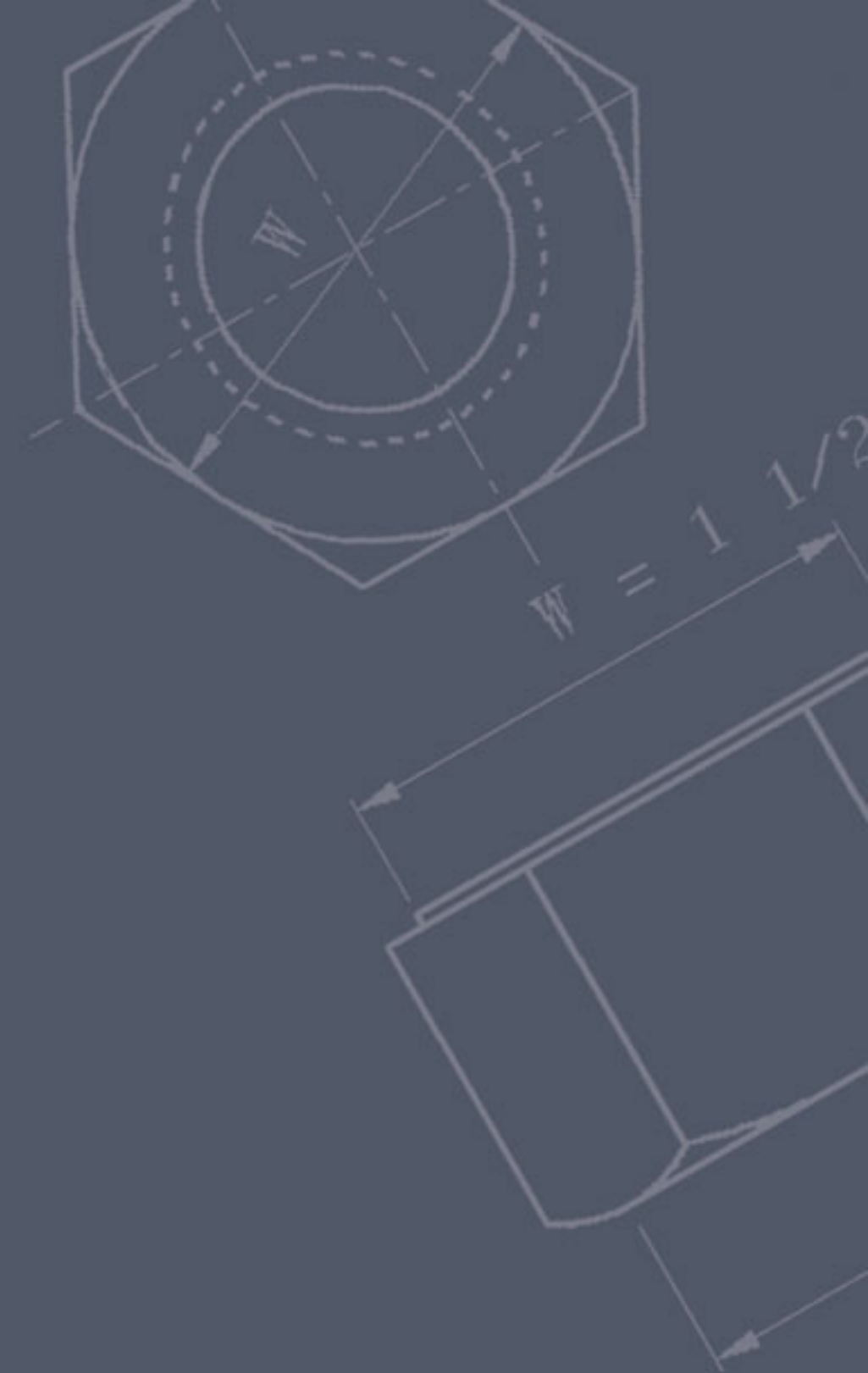


Creativity, Capacity, Capability

We have some of the most experienced and inspired designers, engineers and craftsmen in the world working for us, we absolutely love a challenge. More than ride, their biggest thrill is the idea. And they make it happen. Our ten acre facility, includes six acres of outdoor work space, large assembly erection pads, 61,000 square foot of covered crane-serviced manufacturing, painting and assembly area, all within easy access to rail, truck and water, ideal for shipping large components.



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DYNAMIC STRUCTURES

Ride Engineering Division



G3

hybrid coaster

The third evolution of the RoboCoaster technology comes together with the latest advances in coaster design, the combination of which delivers a completely unique capability in terms of ride dynamics.

The purpose designed 2 axis robot units run in train sets of two to four carriage units making up each train. The trains load in a station with the added benefit of tangential 4 seat abreast loading, speeding up station operations, and further aiding disabled guest accessibility.

The train sets can be self propelled or gravity powered depending on track design, and the combination of coaster and robot dynamics are carefully matched for best sensory effects and motion dynamics.

The fully programmable robotic motion base is configured with two degrees of freedom, giving smooth motion in both the rotational and elevation planes relative to the track.

The effects of apparently moving over and around the track, and giving unexpected vistas and effects on all parts of the track, including the lift hill are a world first.

With passenger capacities of 4 persons per robot, flexible solutions from low to very high capacities (up to 2000THRC) are available.

With over 20 years of experience, developing and building some of the best know attractions in the world, Dynamic Structures have an excellent record of affordability, reliability and innovation for their clients.

Our specialized sales staff and industry partners stand ready to help you realize your advanced amusement goals : Please do not hesitate to call our expert staff for more information.



- Creative & planning support
- Prototyping & feasibility projects
- Advance ride engineering & design
- Manufacturing, installation & certification
- Long term customer relationships & support

G3 hybrid coaster

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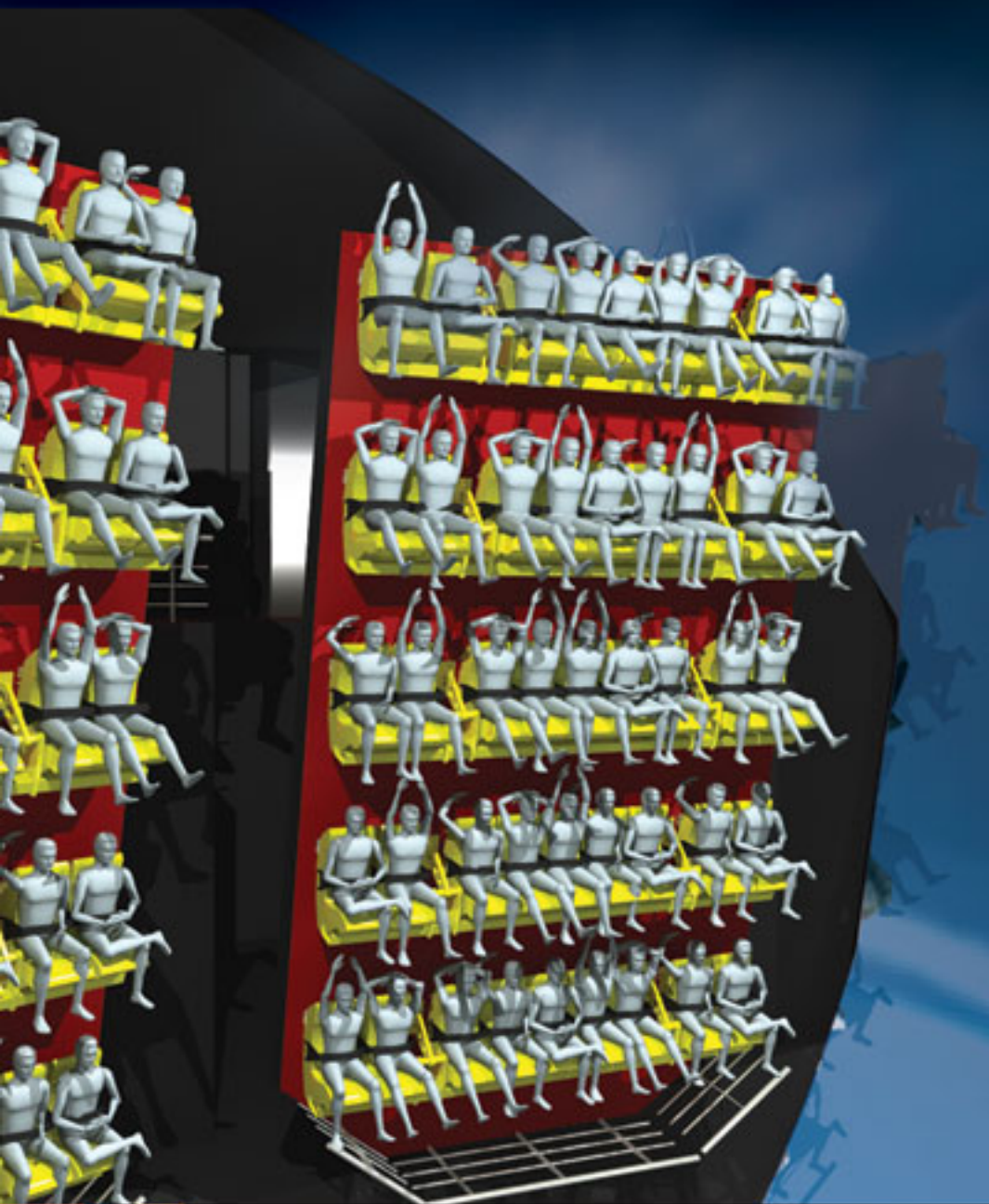


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DYNAMIC STRUCTURES

Ride Engineering Division



MT

motion theatre

The motion theatre solution utilizes all of the latest large scale motion system and projection developments to generate the ultimate immersive surround video experience.

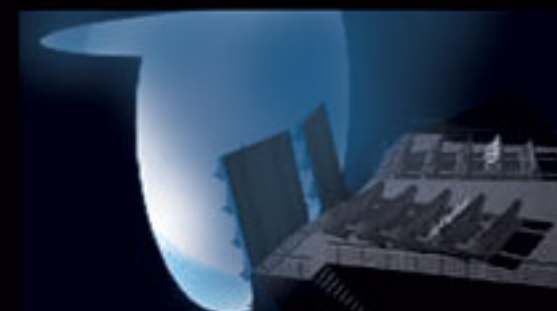
The MT system takes the proven efficiency of a conventional theatre layout for arrival & departure, and combines with the striking benefits of positioning guests vertically into a giant spheroidal screen.

The 3rd generation immersive theatre effects of apparently flowing into the media, combined with sympathetic and programmable pitch and heave add up to an unforgettable family experience when combined with 3rd party media.

The Motion Theatre comes complete with state of the art oblate spheroid screen, projection equipment, 8 channel sound systems, digital media hardware & motion control.

Flexible solutions from 250 to 500 THRC, and up to 2000THRC in combinations. With over 20 years of experience, developing and building some of the best know attractions in the world, Dynamic Structures have an excellent record of affordability, reliability and innovation for their clients.

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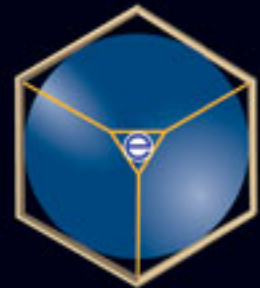
MT motion theatre

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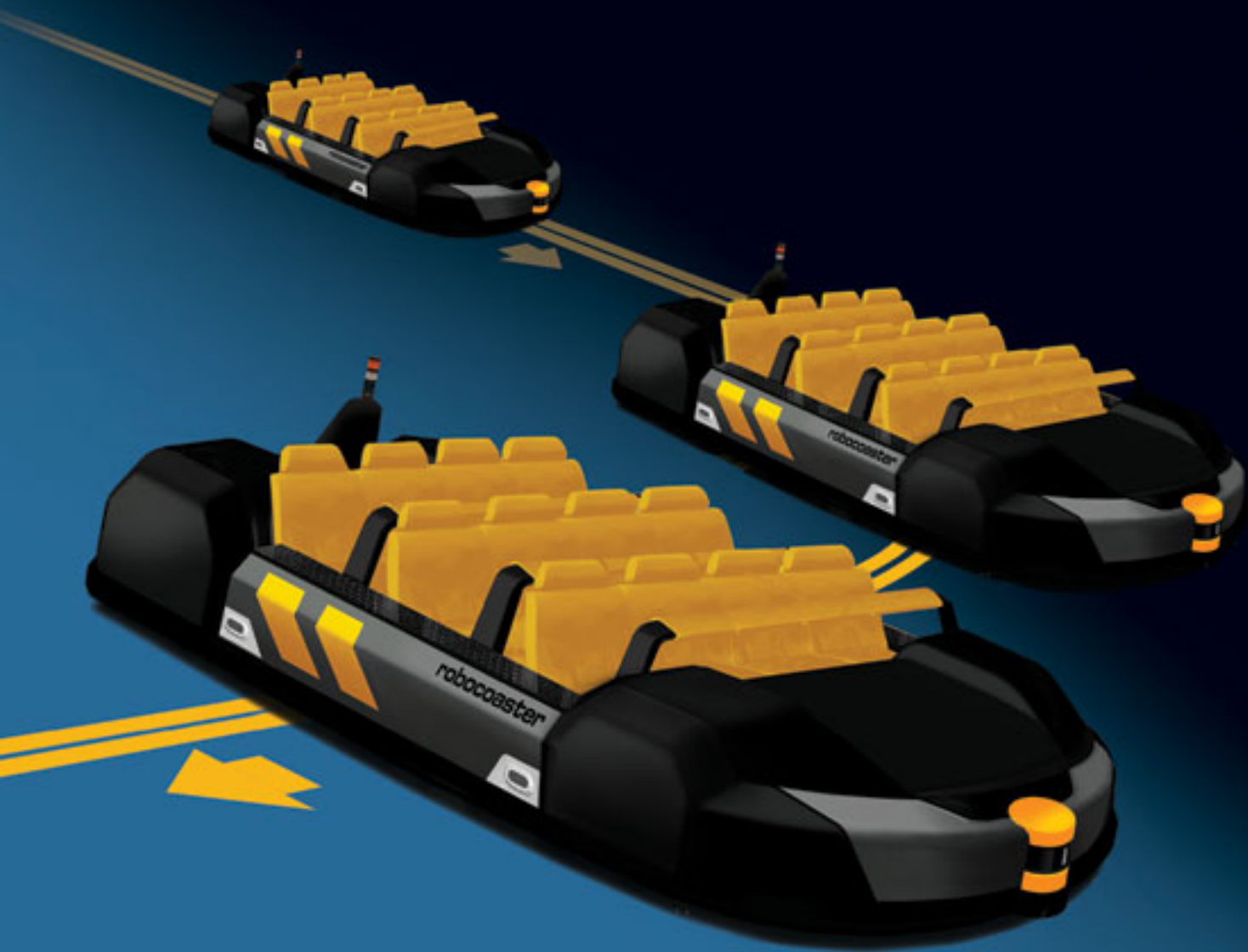
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DYNAMIC STRUCTURES

Ride Engineering Division



AGV

automatically guided vehicles

The AGV ride vehicles utilize the latest advances in guidance and propulsion technologies to deliver a powerful combination of cost, performance and reliability.

The AGV ride vehicles come in two traction power formats (Inductive or Internal Battery power) and two wheelbase layouts (Trike or Quad-steer layouts) depending on application, allowing optimal cost / performance characteristics.

A powerful on board control system, combines with a master scheduler for dispatch of ride vehicles in virtual platoons. Capable of fully interacting with peripheral show automation (including advanced show action robotics and media), the guest ride experience is seamlessly integrated into the show.

With passenger capacities from 2 to 12 persons, flexible solutions from low to very high capacities (2000THRC) are available.

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AGV automatically guided vehicles

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DYNAMIC STRUCTURES

Ride Engineering Division



Fraunhofer



Fraunhofer



Development & Engineering Partners

RoboCoaster are a key strategic partner to Dynamic Structures as both a source of IP & technologies, as well as a valuable network of development, manufacturing and sales partners.

Well known for the development of the worlds only passenger carrying industrial robots, RoboCoaster is also active in many other fields, bringing advanced industrial technologies and services into the entertainment sector.

Dynamic Structures also has access to key RoboCoasters research partners, specializing in development and engineering in state of the art controls and mechatronics.

Both ISW and Fraunhofer are actively involved in the development of IP and solutions with RoboCoaster, particularly in the fields of structural inspection systems, robotics and controls applied to amusements, and interactive technologies related to ride systems.

As one of Europe's leading developers and manufacturers of advanced Automatically Guided Vehicles , SNOX Engineering Group NV are at the cutting edge of AGV navigation and motion control.

RoboCoaster and SNOX have developed a new generation of ride vehicle capability, combined with unsurpassed performance and value.

As one of the world's leading manufacturers of industrial robots and motion control systems, KUKA Roboter GmbH is the is the exclusive choice of robot manipulators and controls to both Dynamic Structures and RoboCoaster.

Altec Integrated Solutions Ltd. provides customized control and drive systems that are state-of-the-art in safety, performance and reliability. Altec controls are field-proven on some of the most complex ride systems yet built and are engineered to ensure that our ride systems are the safest available.

Development & Engineering Partners

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