GLORY EDGE

GLORY 8

DARK RIDE SERIES

Beyond Imagination Beyond Limits

MORE FREEDOM / MORE FUN / MORE FANTASY

Enchantmatic launches the latest
DARK RIDE SERIES

Glory Edge, a new generation of trackless amusement systems, combines dark rides, motion simulators, and even roller coasters. Powered by powerful multi-vehicle collaboration software, it enables parks to create a freer, more fun, and more fantastic new generation ride experience that meets and even exceeds visitor expectations.

Our trackless systems do not rely on fixed tracks or cables. They are computer-controlled and can move freely along virtual paths non-linearly. Depending on the experience required, they can create more immersive, soft, and comfortable family-friendly ride experiences, simulate various flight,push, fall, and other motion effects with motion

simulators, or even seamlessly switch between trackless and tracked modes with roller coasters, creating stunning, thrilling, and unprecedented magical feelings in the dark environment using lighting, sound effects, and animation technologies. Coupled with powerful equipment system management and multi-vehicle collaboration software, more diverse ride equipment and specific moving roles can be added to the scene, creating more varied, interactive, unpredictable, and innovative amusement experiences, enhancing the playability and attractiveness of ride projects.

VARIOUS ATTRIBUTES OF GLORY EDGE

This is a ride facility without fixed physical tracks. It uses automatic navigation vehicle technology to achieve intelligent vehicle motion control, vehicle navigation, and vehicle dispatching systems. Combined with multi-axis motion simulators, space lifters, and vehicle path planning and motion simulation design software, it has the following special advantages compared to traditional track-based rides:

Non-linear Paths

- Free movement in all directions
- Multiple vehicles running in parallel,on the same track, and switching positions

Unpredictability

- Programmable multiple paths
- Different paths triggered at different nodes
- Randomly add specific moving characters for the scene

Immersive Experience

- Different action arrangements for different scenes and plots
- Better integration of lighting, sound effects, and animation effects
- Visitors can participate in path and action selection

Modularity

- Using motion platforms to achieve multi-dimensional motion simulation
- Using elevators to achieve vertical space conversion
- Using tracks to achieve height difference acceleration
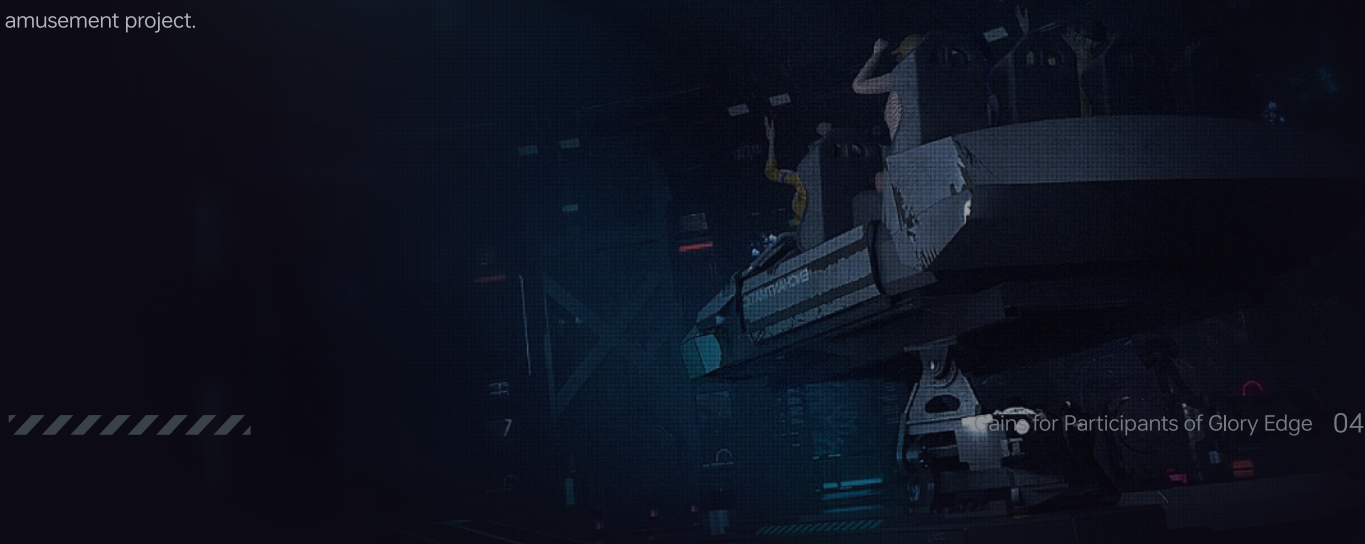
Safety

- Obstacle/environment detection
- Passive obstacle avoidance/active obstacle avoidance
- Single environment automatic driving, no human intervention
- Single device failure does not affect overall operation
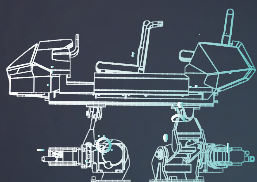- Lower equipment maintenance and evacuation costs

GAINS FOR PARTICIPANTS OF GLORY EDGE

Advantages	Amusement	Designers	Maintenance	Operators
Non-linear Paths	Interact with other vehicles	Achieve design flexibility	Maintenance without fixed tracks, reduce maintenance points of fixed machinery	Deployment of trackless equipment, reducing the input of fixed steel structures and machinery, scene changes are not limited by tracks, reducing the footprint of projects, increasing project visitor capacity, improving visitor ratings, reducing operational input, reducing maintenance input, increasing single project yield.
Unpredictability	Interact with the plot	Increase the diversity of scenes		
Immersive Experience	Interact with the environment	Add more technological elements		
Modularity	Increase physical sensations	Fully combine stimulation and changes	Fault points are easier to find	
Safety	Increase sense of security	Reduce the entertainment reduction due to safety factors	Reduce the work risk of maintenance personnel	
Economic Benefits	Impulse to ride again	Give full play to the designer's imagination	Reduce maintenance frequency, reduce maintenance difficulty	

Provide an immersive amusement experience for visitors, combined with virtual reality, allowing visitors to adventure into an unprecedented space. Flexible path planning can achieve high freedom vehicle scheduling, making path choices more diverse, giving designers more imaginative display space, easily combining with different themes and IP characters, integrating into different scene designs, creating a super popular amusement project.
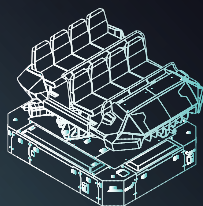
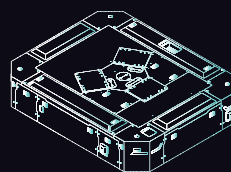# VARIOUS MOTION SCENARIOS OF GLORY EDGE

Vehicle Motion

Forward
Backward
Side Shift
In-place Rotation
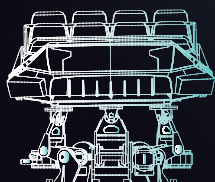Arc Rotation
Speed 1-3m/s
Acceleration

Motion Simulator

X-Y-Z Motion
XY Motion
YZ Motion
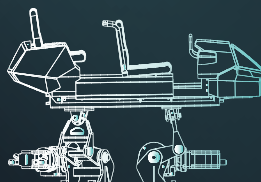XZ Motion
Vibration 5-30 Hz

Modular Expansion

Vertical Elevator Technology
Multi-layer Vertical Lifting
Lifting x meters/second
Load x kilograms/second

Shuttle Technology

Vertical + Horizontal Movement
Achieve Warehousing

Trackless-to-Track Combination Technology

Achieve Height Difference
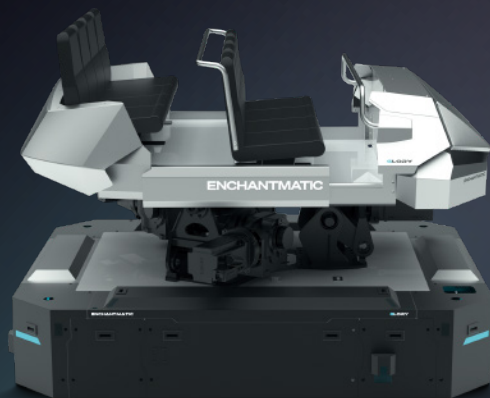Achieve High Acceleration and Speed of Roller Coasters

GLORY EDGE PRODUCT SERIES

Glory 8 Features and Target Market

Glory 8 consists of an AGV chassis, three-axis motion module, and a secure cabin, capable of performing complex and highly dynamic mechanical actions, creating thrilling, exciting, and intense visual and physical impacts in the environment, accelerating players' heart rates!

Suitable for medium to large parks, targeting groups that need immersive dynamic and exciting experiences, especially teenagers.

Glory 4 Features and Target Market

Glory 4 consists of an AGV chassis and a secure cabin, using gentle and flexible movements, expanding the user group to children and the elderly. It integrates popular animation IP themes with Glory 4, creating unforgettable amusement memories for children, and providing stress-relieving, enjoyable, immersive, interactive, and personalized amusement projects for adults.
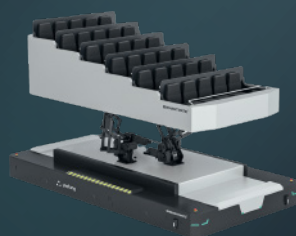
Suitable for medium to large parks, ideal for immersive family rides; also suitable for large shopping malls, themed museums, and art galleries.

Glory Flying Edge 32 Features and Target Market

Glory Flying Edge 32 consists of a large AGV chassis, mechanical module, and a 32-seat secure cabin, capable of performing complex and highly dynamic mechanical actions, creating thrilling, exciting, and intense visual and physical impacts in the environment, accelerating players' heart rates!

Suitable for medium to large parks or large dynamic theaters, targeting groups that need immersive dynamic and exciting experiences, especially teenagers.

Glory Hybrid Features and Target Market

Glory Hybrid consists of an AGV chassis, mechanical arm, and a 2-seat secure cabin, capable of performing complex, highly dynamic, and large physical range mechanical actions, creating thrilling, exciting, and intense visual and physical impacts in the environment, accelerating players' heart rates!

Suitable for medium to large parks or large shopping malls, targeting groups that need immersive dynamic and exciting experiences, especially teenagers.

Glory X Features and Target Market

Glory X consists of an AGV chassis, mechanical module, 4-seat secure cabin, and roller coaster tracks, capable of performing complex, highly dynamic, and switching between trackless and tracked mechanical actions, creating absolutely thrilling, exciting, and intense visual and physical impacts in the environment, providing players with unprecedented heart-pounding experiences!

Suitable for medium to large parks, targeting groups that need immersive dynamic and exciting experiences, especially teenagers.
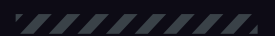
GLORY 8 RIDE

EXCITING / FLEXIBLE / SAFE

GLORY 8

GLORY 8 is an AGV ride product designed for theme parks and large entertainment venues. It consists of an AGV chassis, three-axis motion module, and a secure cabin, capable of achieving 6DOF motion, automatic omnidirectional movement, diversified routes, flexible customization, and multi-dimensional riding experiences.
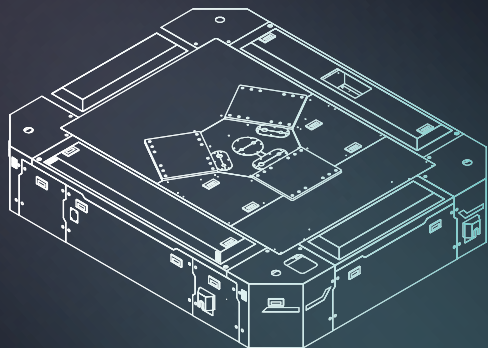
CORE VALUES OF GLORY 8

True freedom of omnidirectional movement. Powerful flexible route design and multi-vehicle collaboration arrangements break creative constraints, stimulate creativity, and enable park designs to be more immersive, unpredictable, and customizable dark ride projects.

Modular design and reasonable manufacturing costs assist parks and integrators in achieving a better balance between project budget and creative needs, creating commercially successful ride projects.

Based on over 30 years of complex automation and robotics project design, manufacturing, and integration experience, complying with EN13814 European safety standards and other safety mechanisms, trackless operation with low noise and easy maintenance, providing a safe, reliable, low-noise, and easy-to-maintain dark ride system, improving park operating revenue.
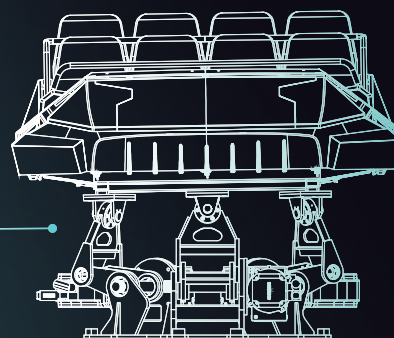
MAIN STRUCTURE OF GLORY 8

AGV Chassis

Standardized design, capable of forward, backward, side shift, and rotation functions, with a maximum speed of 2m/s and a maximum load capacity of 5 tons. Non-contact safety protection, CE certified, suitable for outdoor use.
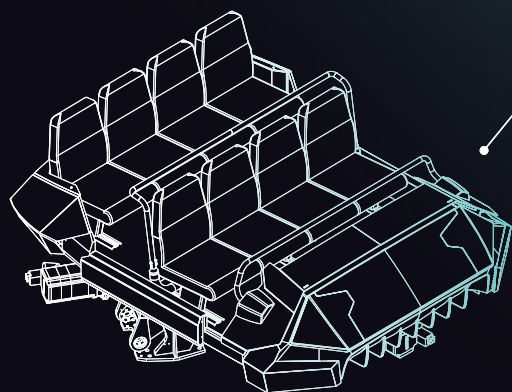
Motion Module

Three-axis motion simulation platform with cabin lift, pitch, and tilt functions, capable of providing 360-degree cabin rotation, equipped with passenger protection measures compliant with CE certification, suitable for outdoor use.

Secure Cabin

A secure cabin that can accommodate 8 passengers, equipped with safety protection measures (seat belts, side guards, grab handles, etc.)

Control System

Capable of dispatching 200 vehicles simultaneously, using single-line laser, multi-line laser SLAM, GPS base station navigation methods, achieving active obstacle avoidance safety functions, expandable to various third-party equipment interfaces.

Management System

Provides interfaces to combine with creative and interactive management software, freely modify paths, arrange motion trajectories, arrange cabin actions, manage safe station entry and exit, fault alarm system, fault diagnosis system, motion travel record.

GLORY 8 SYSTEM MANAGEMENT SOFTWARE

Overview of Glory 8 System Management Software

The Enchantmatic Glory 8 System Management Software is an advanced AGV ride management system. Through software APIs or hardware interfaces, it communicates tasks, configurations, and statuses with user systems and other third-party equipment systems. After importing the site configuration and interface information, it can compile and interpret story scripts sent by the user system, and accurately dispatch and coordinate AGVs and possibly interactive modular equipment systems according to the script's plot development, leading users into an immersive amusement wonderland. Throughout the operation, the system detects and feedbacks the operating status of various devices and subsystems to ensure the stability and smooth operation of the Glory 8 system and the entire amusement project.

Some core functional modules of the Glory 8 system management software are as follows:

Script Compiler

Upon receiving story scripts from the user system, the system's script interpreter translates them into a language that AGVs and other devices can understand, while integrating task allocation, efficiency optimization, and fault handling strategies to ensure smooth execution.

Path Planning System

Amusement system designers can use the path planning system to call project layouts, design AGV running paths, station points, vehicle turning radius analysis, and navigation environment settings.

AGV Dispatch System

Responsible for AGV dispatching, task distribution, and status processing. It can also calculate and allocate paths to avoid collisions, achieving safe and efficient automation of various AGVs on the site.

Interactive Modular Equipment Management System

Configures and manages other modular equipment interacting with AGVs, such as AGV simulators, elevators, shuttles, and track-based equipment, ensuring the safety and accuracy of equipment operation, stimulating and achieving various creative amusement experiences.

Safety and Fault Handling System

According to CE standards and industry experience, establishes an overall safety system and monitors various subsystem management systems. It handles site anomalies and faults according to the set safety and fault handling strategies, records fault status and previous operating conditions, facilitating subsequent system maintenance and improvement.

Equipment Monitoring System

Users' operation and maintenance personnel can use the equipment monitoring system to understand the operating status, efficiency, fault information, and generate related reports to ensure the stable and smooth operation of the system.

GLORY 8 PARAMETERS

Main Performance Characteristics and Parameters

Item	Parameter
Dimensions (L×W×H) mm	2950*2400x 2529
Rated Load	800kg
Equipment Weight	4500kg
Maximum number of passengers	8 people
Navigation Type	Laser Navigation
Motion Mode	Omnidirectional Movement、 Cabin Lift, Cabin Pitch, Cabin Tilt
Maximum Linear Travel Speed	2m/s
Maximum acceleration	0.3g
Maximum Rotation Angle Speed (Bidirectional)	18rmp
Cabin Vertical Movement Stroke	>±150mm
Pitch/Tilt Angle	>±12°
System Voltage	48V
Battery Capacity	300AH

Operating and Environmental Conditions

A.Ambient Temperature: 0℃~50℃

B.Relative Humidity: 5%~90%

C.Altitude: 2000m

D.Power Supply Voltage: 220V+10%, 380V+10%, 50HZ+2%, Three-phase Five-wire System

Enchantmatic is committed to providing innovative, stable, and safe amusement equipment based on AGV and AMR technologies, with motion simulation platforms, elevators, and other manned automated equipment as optional combinations, offering more flexible and exciting trackless amusement systems, and continuously expanding into more intelligent amusement fields.

Enchantmatic is a brand jointly established by Shenzhen YEEFUNG Technology from China and DiSL from Canada. With AGV and advanced robotics technology as innovation, combined with over 30 years of mechanical and electrical control experience, we focus on the R&D, design, and manufacturing of more attractive amusement equipment for customers.

YEEFUNG Technology is a company with over 30 years of industrial automation foundation, one of the world's leading manufacturers of fully automated parking equipment, and one of the earliest companies to apply AGV technology in the field of automated parking. YEEFUNG Technology has core technologies and qualifications, including manned AGV, heavy-duty AGV, warehouse robots, warehouse handlers, warehouse stackers, large elevators, and has obtained CE certification. Website: www.yeefung.com

DiSL is a core team for the design and manufacturing of large, internationally leading complex amusement systems, with over 30 years of experience in amusement facilities, a mature large-scale electrical and mechanical system manufacturing base, and an international team, as well as a multinational design and manufacturing platform. The team has been responsible for the design and manufacturing of several world-famous award-winning amusement systems, recognized by well-known parks.

PCS

AGV-S

PCS

INTERESTING PROJECTS
OUR TEAM HAS DONE

Singapore 18 Robinson AGV Parking Garage

Hong Kong Airport Park & Visit Large AGV Parking Garage

Complex Ride Systems for Disney Universal and Other International Theme Parks - DisL

Large Precision Astronomical Telescopes and Observatory Systems (Hawaii Chile Canaries) – DisL

Collaboration Scenarios

Medium and Large Amusement Parks

- Upgrading existing amusement projects
- Building future theme parks

Comprehensive venues and specific places

- Large commercial complexes
- Themed museums and science museums
- Next-generation mobile theaters, etc.

New Formats

- Immersive Shopping
- Interactive Experiences in E-sports, etc.

Target Partners

Large parks with strong mechatronics integration capabilities, we can help you:

Create more immersive, magical, and interactive dark ride projects to attract and retain visitors

Improve the portability and scalability of ride equipment, reduce one-time fixed equipment investment, and achieve quick project returns

Reduce project land area, use equipment path flexibility and combination with vertical equipment to create better economic returns and project effects in as small an area as possible

Medium and large integrators in the park industry with strong mechatronics integration capabilities, we can help you:

Accelerate the development of regional theme parks and FEC ride businesses with trackless amusement system products, providing more creative and equipment technical support

Assist and represent international integrators to enter the Chinese market, carry out project installation, integration, and maintenance work

Channel merchants with project acquisition capabilities and resources, we can help you:

Quickly acquire projects with distinctive products and high-quality product support

◆◆ ENCHANTMATIC