

= Green Lantern Coaster =

Green Lantern Coaster is a steel roller coaster at Warner Bros. Movie World on the Gold Coast , Queensland , Australia . The ride is themed after DC Comics ' Green Lantern and is located within the park 's DC Comics superhero hub . The ride is an El Loco roller coaster manufactured by S & S Worldwide , characterised by a tight circuit featuring a beyond @-@ vertical drop and an outward banked turn . It holds the record for the steepest drop of any roller coaster in the Southern Hemisphere , and the second steepest in the world . Green Lantern Coaster officially opened on 23 December 2011 .

= = History = =

In May 2011 , preliminary groundwork began on a plot of land in front of Warner Bros. Movie World . On 31 July 2011 , the firm announced a multimillion @-@ dollar attraction coming before Christmas 2011 . In early September , pieces of S & S Worldwide roller coaster track began appearing in the car park . On 13 September 2011 , Warner Bros. Movie World began releasing cropped images of the ride 's concept art . On 17 September 2011 , the final clues were released before the official announcement that evening . It was announced that the Green Lantern Coaster would feature the steepest drop in the Southern Hemisphere . Also on 17 September 2011 , the DC Super Heroes Store opened adjacent to Batman Adventure : The Ride 2 , Batwing Spaceshot and Green Lantern Coaster . By early October , most of the support structure and the lift hill were complete . By the end of October , the ride 's construction was complete and work had begun on the entrance pathway . In early November , six trains arrived on site . Another was showcased by S & S Worldwide at the 2011 IAAPA Attractions Expo . Kevin Rohwer , an S & S Worldwide spokesman , stated that the ride would be ready on 15 December 2011 . On 28 November 2011 , testing began . The ride entered a soft opening phase on 16 December 2011 , before its official opening on 23 December 2011 .

= = = Drop angle = = =

When the Green Lantern Coaster was announced , few details were released about the ride 's drop angle other than it would be the Southern Hemisphere 's steepest . On 2 November , Warner Bros. Movie World announced via Facebook that the ride would have a drop angle of 120 ° . On 27 November , Warner Bros. Movie World released the television commercial , which promoted that the ride would have the steepest drop in the world . Later that day they confirmed the drop would be 122 @.@ 4 ° instead of the originally announced 120 ° . Following the soft opening television commercials began advertising the ride . On 20 December , Warner Bros. Movie World revised the angle yet again to 120 @.@ 5 ° ; this was the final measurement given . Only Takabisha exceeded it with a drop of 121 ° .

= = Characteristics = =

Green Lantern Coaster is an El Loco roller coaster manufactured by S & S Worldwide . Warner Bros. Movie World collaborated with S & S Worldwide to develop an coaster that was unlike the previous models (Mumbo Jumbo , Steel Hawg and Timber Drop) .

= = = Trains = = =

The coaster 's seven trains double the capacity of the traditional El Loco ride from 4 seats per train to 8 seats per train . The trains are articulated in such a way that the first row of four riders moves independently from the second row . Each seat features a pair of stereo speakers in the head rest . These speakers are capable of playing multiple tracks for up to 9 minutes on a single charge . Riders are harnessed to the ride through the use of lap bars . The front of each car features a

pulsing LED Green Lantern logo while the back of each car features the Green Lantern oath . All of these operational and thematic characteristics are new for this type of ride and were developed specifically for this coaster .

=== Statistics ===

Green Lantern Coaster features 488 metres (1 601 ft) of track on which riders reach speeds of up to 66 kilometres per hour (41 mph) and experience 3 @ 5 Gs . The 33 metre @ tall (108 ft) ride features a first drop with an angle of 120 @ 5 ° ranking it the steepest drop in the Southern Hemisphere and the second steepest in the world . The track and structure , which weigh approximately 300 tonnes (330 tons) , were shipped to Australia from Italy and China , respectively , in twenty @ five 40 @ foot (12 m) shipping containers .

=== Theme ===

The Green Lantern Coaster is themed around the Green Lantern series of comic books that originated in 1940 . This theme is showcased throughout the ride 's queue and the station . The ride 's theming was developed by Sculpt Studios .

== Experience ==

=== Queue ===

The queue begins adjacent to the DC Super Heroes Store , opposite Batwing Spaceshot . The queue weaves its way alongside the park 's original boundary wall . Along this route several billboards inform guests of the story behind the Green Lantern . Riders turn left and enter a courtyard featuring 2D cutouts of villains as well as a 3D model of the Green Lantern . The queue turns left again and follows an upwards path to the station .

=== Ride ===

Green Lantern Coaster begins with a u @ turn out of the station . It ascends a chain lift hill before going down a small dip and into an s @ bend followed by a u @ turn . After a slight ascent , the car enters a 120 @ 5 ° drop ? the steepest in the southern hemisphere . The track then returns to approximately two thirds of its original height before entering the first set of block brakes . These brakes lead into a left turn with reverse or outward banking . It then drops under the block brakes and into the first inversion ? a Dive Loop . The inversion begins with half of an inline twist which transitions into half of a vertical loop . Upon exiting the inversion the track inclines into a second set of block brakes . The train then goes around a right u @ turn and into the second inversion ? a downwards inline twist . This leads into a cutback @ style turnaround before entering the final brake run and returning to the station .

=== Exit ===

Upon the completion of the ride , guests exit via a path that runs under the lift hill and alongside the park 's boundary before returning to the DC Super Heroes Store . Inside guests can purchase a variety of merchandise related to Green Lantern , Batman and Superman .

== Reception ==

Village Roadshow Theme Parks , the owners of Warner Bros. Movie World attributed a rise in attendance to the opening of the Green Lantern Coaster . The company labelled the launch of the

ride as a success . The attraction 's downtime has been reported several times by local media , however , this behaviour is not unusual for amusement rides . Green Lantern Coaster , along with other El Loco roller coasters , ranked 182 out of the 365 steel roller coasters in the worldwide Best Roller Coaster Poll for 2012 .

= = Incidents = =

On 15 March 2015 , one car of a train became detached from rails when a wheel mechanism broke . A Queensland Fire Service Inspector described it as " a fairly catastrophic failure of the carriage " that was the " first time we 'd ever seen the actual failure of the machinery " . An investigation revealed that there was a design flaw in the wheel assembly dealing with a bolted joint , and that there was " really nothing that Movie World could have done to prevent it . S & S Worldwide redesigned the flawed components , and tested the ride , before it reopened to the public on 16 December 2015 .