

your rides. As you've learned already, variety is the key to keeping your guests happy with your rides.

Remember to build your queue accordingly for your Coasters (see Chapter Five). These attractions draw big crowds, and those crowds will need sufficient space to stand in while they're waiting in line. Finally, plan to place your Coasters early because all of them make rather large footprints. Bad placement could force you to clear land of stalls, footpaths, and trees to make way for one of these rides. Good placement, on the other hand, will increase the excitement level for the ride as well as attract the attention of guests walking by.

Make sure you place your Coasters with curves and dips in strategic locations. Remember, your Coasters will rack up some of the highest operating costs in your park, so don't feel bad about charging enough to cover your costs.

Enough talk—let's look at the Coasters!

### Bobsled Roller Coaster

Construction: Semicircular channel supported by tubular steel posts.

Cars run freely in channel.

Special Elements: Banked Curves, Banked Helix

Vehicles Available: Bobsled Cars

Maximum Height: 78 feet

Approximate Base Cost: \$2,700

Rides Offered:

- **Big Bob:** A massive ride with high Excitement and Intensity Ratings. Similar to Olympic-style bobsled courses.
- **Mini Bob:** Tamer than its big brother. Mini Bob emphasizes curves and feels more like a traditional Roller Coaster.

Notes: Real bobsled cars can fly off the track if they move too fast at the tops of hills or around curves. Bobsled Roller Coaster cars can suffer the same fate.



### Inverted Roller Coaster

Construction: Steel spine with tubular steel running rails on tubular steel posts.

Special Elements: Banked Curves, Vertical Loop, Steep Twist, In-Line Twist, Half Loop, Corkscrew, Banked Helix, On-Ride Photo

Vehicles Available: Suspended Chairs

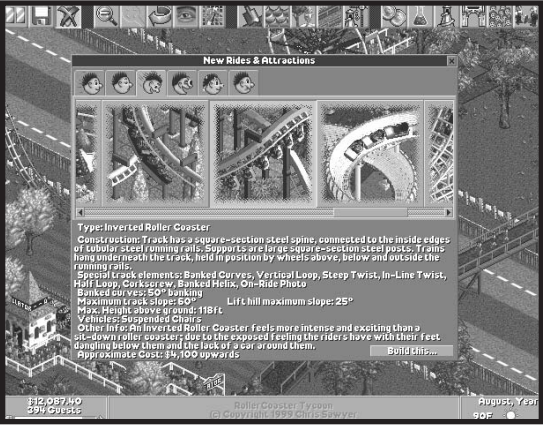
Maximum Height: 118 feet

Approximate Base Cost: \$4,100

Rides Offered:

- **Danglefeet:** A high excitement, very high intensity and high nausea ride that demands benches and Bathrooms outside the exit.

Notes: Remember to place your curves over water to give your guests an even bigger thrill.



### Mine Train Roller Coaster

Construction: Tubular steel running rails on a wooden support structure.

Special Elements: Banked Curves, Banked Helix, On-Ride Photos

Vehicles Available: Mine Train

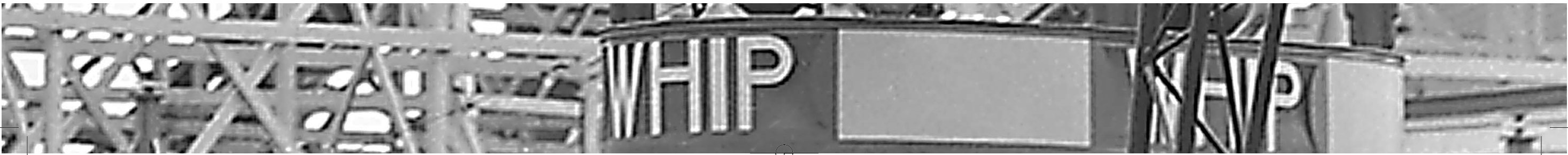
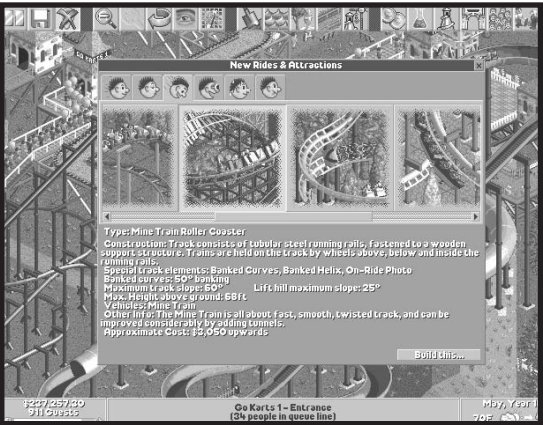
Maximum Height: 68 feet

Approximate Base Cost: \$3,050

Rides Offered:

- **Manic Miner:** Despite this Coaster's maximum drop of just 19 feet, it still packs a wallop for your guests.

Notes: Mine Coasters, due to their steel/wood hybrid construction, will cost more to build than most other Coasters. You will probably want to start with less-expensive Coasters to generate revenue before building your Mine Coaster.





# Single-Rail Roller Coaster

Construction: Two tubular steel rails, positioned one above the other and supported by tubular steel posts.

Special Elements: None

Vehicles Available: Horses, Motorbikes

Maximum Height: 59 feet

Approximate Base Cost: \$1,680

Rides Offered:

- Steeplechase: The traditional Coaster for this category, the Steeplechase features horses that zoom around the track and down its 32-foot drop. These Coasters boast a higher Intensity Rating because guests ride “on” their car, rather than “in” it.

Notes: The Single-Rail Coasters have no banked curves, so lateral g-forces can get pretty high, adding to the ride's Nausea Rating.

# Steel Mini Roller Coaster

Construction: Steel running rails with square steel support posts.

Special Elements: None

Vehicles Available: Ladybird Cars, Log Cars, Rocket Cars, Spinning Cars

Maximum Height: 65 feet

Approximate Base Cost: \$1,320

Rides Offered:

- Crazy Caterpillar: A traditional steel mini featuring a 39-foot drop.
- Raging Rocket: A 55-foot drop on this ride makes it more intense, more exciting, and more nausea-inducing than the Crazy Caterpillar.



Notes: You can't build Steel Mini Coasters as tall as their larger cousins because the allowable designs don't include Banked Curves. As you can probably guess, Spinning Cars add to the Coaster's Nausea Rating, so before you add them to your ride, make sure you don't already have a high Nausea Rating, or you may make all your riders ill. In addition, thanks to the relatively small footprint of Steel Mini Coasters, you can place all kinds of attractions, footpaths, and stalls under these Coasters.

# Steel Roller Coaster

Construction: Tubular steel spine with tubular steel running rails supported on tubular steel posts.

Special Elements: Banked Curves, Vertical Loop, Steep Twist, Banked Helix, On-Ride Photos

Vehicles Available: Roller Coaster Train

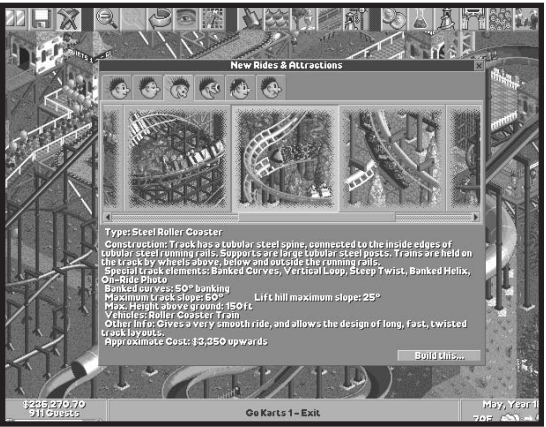
Maximum Height: 150 feet

Approximate Base Cost: \$3,350

Rides Offered:

- Fizzy: One Vertical Loop combined with a 42-foot drop make this the milder of the two steel circuit Coasters offered.
- Exterminator: A good example of the use of a Steep Twist and a high drop (55 feet) lead to high Excitement and Intensity Ratings while keeping Nausea surprisingly low.
- Shuttle Loop: The cheapest of the Steel Coasters. The Shuttle Loop will probably fit in your park even if you have extremely limited space. Works very well over water. See the Powered Launch sidebar in Chapter 19 for more information on running this ride.

Notes: Like most Steel Coasters, this ride leaves a small footprint at ground level that gets even smaller if you elevate the ride. This allows you to place footpaths and shops under the Coaster. Thanks to their construction properties, Steel Coasters can literally scrape the sky in your park.





## Stand-Up Steel Roller Coaster

Construction: Tubular steel spine with tubular steel running rails supported by tubular steel posts.

Special Elements: Banked Curve, Vertical Loop, Half Loop, Corkscrew, On-Ride Photos

Vehicles Available: Stand-Up Roller Coaster Cars

Maximum Height: 131 feet

Approximate Base Cost: \$3,750

Rides Offered:

- Red Baron: A ride with an incredibly high Intensity Rating (9.3) that features seven drops and four inversions.
- Venom Rail: Appropriately named. Has a high Nausea Rating but only one inversion.

Notes: Stand-Up Coasters give guests a whole new experience with higher g-forces than traditional Coasters. This makes these rides more intense than any other Coasters.

## Steel Corkscrew Roller Coaster

Construction: Tubular steel spine with tubular steel running rails supported on tubular steel posts.

Special Elements: Banked Curves, Vertical Loop, Steep Twist, Half Loop, Corkscrew, Banked Helix, On-Ride Photos

Vehicles Available: Roller Coaster Train

Maximum Height: 239 feet

Approximate Base Cost: \$3,900



Rides Offered:

- Boomerang: A high-intensity ride with six, count 'em, *six*, inversions. Your guests won't forget this ride anytime soon.
- Corkscrew: The signature Coaster of this class. The Corkscrew notches an even higher Intensity Rating than the Boomerang, with ten drops and three inversions. Place those benches at the exits now!

Notes: Steel Corkscrew Roller Coasters stand taller and cost more than any other Coasters in your park. These naturally high-intensity, high-excitement rides will prove extremely popular with your guests. If you must take out a loan to build one of these, do it.

## Suspended Roller Coaster

Construction: Tubular steel spine with tubular steel running rails supported on tubular steel posts.

Special Elements: Helix

Vehicles Available: Suspended Swinging Cars

Maximum Height: 105 feet

Approximate Base Cost: \$3,550

Rides Offered:

- Flight of the Phoenix: A popular and crowd-pleasing ride with high Excitement, Intensity, and Nausea Ratings.

Notes: One of the more nausea-inducing rides you can place in your park. Suspended Coasters "swing" at their turns.



## Suspended Single-Rail Roller Coaster

Construction: Singular tubular steel rail with tubular steel supports.

Special Elements: None

Vehicles Available: Single-Person Swinging Chairs, Lying-Down Swinging Chairs.

Maximum Height: 42 feet





Approximate Base Cost: \$1,800

Rides Offered:

- **Bat Flyer:** A very popular ride with five drops and a higher Nausea Rating than other Coasters.

Notes: Of the two chairs offered, the lying-down version offers guests more excitement, intensity, and nausea for their dollar. Switching from seated to lying-down chairs adds nearly a full point to both the excitement and intensity of the ride.

## Wooden Crazy Rodent Roller Coaster

Construction: Wood and steel track with wooden support structure underneath.

Special Elements: None

Vehicles Available: Mouse Cars and Mine Cars

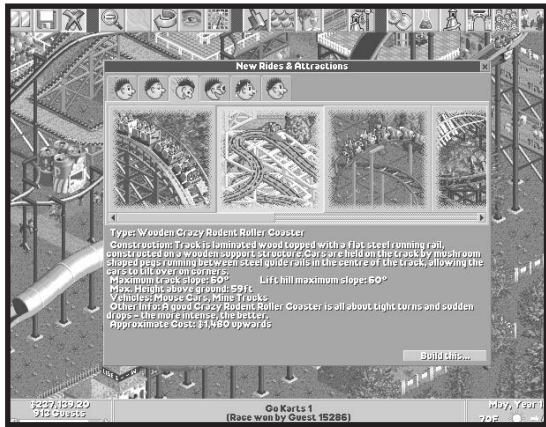
Maximum Height: 59 feet

Approximate Base Cost: \$1,480

Rides Offered:

- **Crazy Vole:** Anyone who has ever visited a county fair or small amusement park will recognize this fun ride. The Crazy Vole features a higher Excitement Rating than the Mini Miner.
- **Mini Miner:** Similar in theme to its larger cousin. This ride emulates an out-of-control mine car careening down the tracks. Featuring a 32-foot drop, this ride posts a slightly higher Nausea Rating than the Crazy Vole.

Notes: Crazy Rodent Coasters are smaller than other Wooden Roller Coasters and other categories of Coasters in your park. Guests who ride these look for the intense thrill of the tight turns and sudden drops. The more intense a Crazy Rodent Coaster gets, the more your guests like it.



## Wooden Roller Coaster

Construction: Wood and steel track with wooden support structure underneath.

Special Elements: Banked Curves, On-Ride Photos, Water Splash

Vehicles Available: Wooden Roller Coaster Train, Forward and Backward

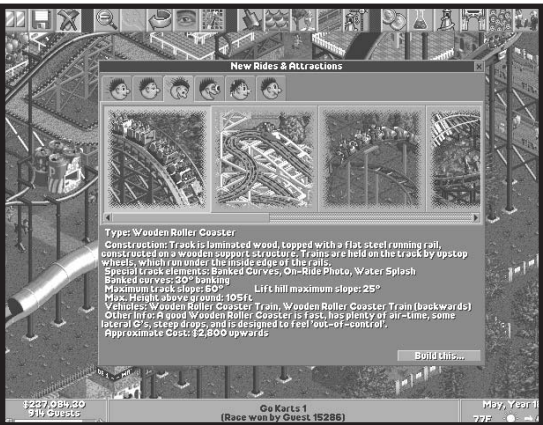
Maximum Height: 105 feet

Approximate Base Cost: \$2,800

Rides Offered:

- **Wood Chip:** The classic Wooden Roller Coaster features a single long drop with several camel-backs as the train approaches the station.
- **Mischief:** More intense and exciting than Wood Chip, this Coaster features more switchbacks and more turns “into” the Coaster superstructure itself.

Notes: While both models prove very popular with park guests, wooden Roller Coasters, on the whole, leave a very large footprint in your park, both on the ground and above ground, due to their intricate support structure.



## Vertical Roller Coaster

Construction: Steel spine with tubular steel running rails supported by square steel posts.

Special Elements: Banked Curves, Steep Twist, Banked Helix, On-Ride Photo, Vertical Drop

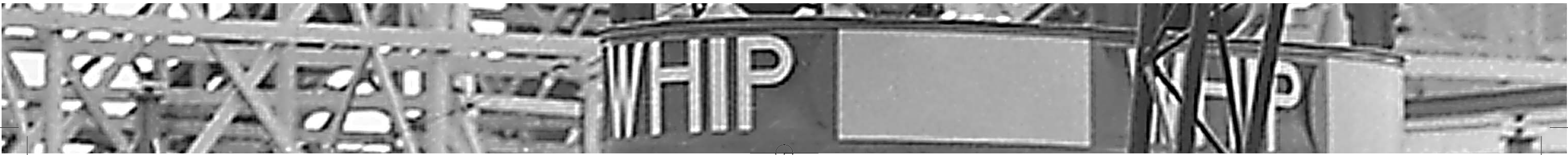
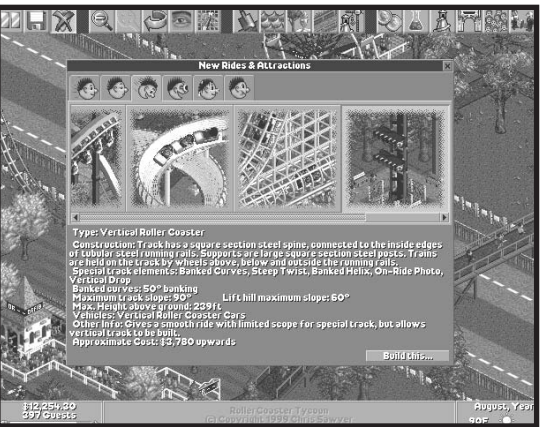
Vehicles Available: Vertical Roller Coaster Cars

Maximum Height: 239 feet

Approximate Base Cost: \$3,780

Rides Offered:

- **Big 90:** With a vertical drop as one of its five drops, the Big 90 manages to pull





off high Excitement and Intensity, but low Nausea Ratings.

Notes: While the construction possibilities are somewhat limited due to the Vertical Roller Coaster's properties, the vertical drop that is available more than makes up for what might be seen as a lack of intensity. Use your vertical drops sparingly though, you can easily push right into the extreme Intensity Rating if you're not careful.

## Reverse Whoa Belly Coaster

Construction: Steel girder tracks with Linear Induction Motors that push the train.

Special Elements: None

Vehicles Available: Reverse Whoa Belly Car

Maximum Height: Variable

Approximate Base Cost: \$6,750

Rides Offered:

- Force 9: A high intensity ride featuring a straight shot down a track followed by a straight vertical lift at high speed.

Notes: The longer your straightaway, the more time your car has to speed up, and thus, the faster it will travel. Be sure to make a test run if you construct your own Reverse Whoa Belly. Cars can shoot off the top of the track if it's not long enough.



## Wooden Side-Friction Roller Coaster

Construction: Wooden track with steel running rails on wooden supports.

Special Elements: None

Vehicles Available: Wooden Side Friction Car

Maximum Height: 78 feet

Approximate Base Cost: \$1,517

Rides Offered: None



Notes: One of the cheapest Coasters to build can also be one of the trickiest. Due to the articulation and construction of the cars, they can shoot off the track at the top of inclines taken too fast.

## Wooden Twister Roller Coaster

Construction: Wooden track with steel running rails on wooden supports.

Special Elements: Banked Curves, Steep Twist, Banked Helix, On-Ride Photos

Vehicles Available: Roller Coaster Train

Maximum Height: 105 feet

Approximate Base Cost: \$2,800

Rides Offered: None

Notes: Thanks to the articulation of the trains, the Wooden Twister offers a ride nearly as smooth as a Steel Coaster.



## Steel Twister Roller Coaster

Construction: Steel spine with tubular steel running rails on tubular steel supports.

Special Elements: Banked Curves, Vertical Loop, Steep Twist, Half Loop, Corkscrew, Banked Helix, On-Ride Photos, Barrel Roll, Launched Lift Hill, Large Loop, Half Loop

Vehicles Available: Roller Coaster Train, Stand-Up Roller Coaster Train, Floorless Roller Coaster Train, Roller Coaster Train (Non-Looping)

Maximum Height: 282 feet

Approximate Base Cost: \$4,950

Rides Offered: None





Notes: The kind-daddy of the Roller Coasters you can build in your park, a skillfully constructed Steel Twister Roller Coaster will give your guests an experience unmatched by anything in their lives. Have fun and don't build that drop too high!

## Virginia Reel

Construction: Flat bottomed wooden trough with wooden supports.

Special Elements: None

Vehicles Available: Virginia Reel Tubs

Maximum Height: 59 feet

Approximate Base Cost: \$975

Rides Offered: None

Notes: Keep plenty of twists and corners in your design to keep the cars spinning. Avoid long drops as they can risk sending your cars flying.



## Steel Wild Mouse Roller Coaster

Construction: Tubular steel rails on tubular steel supports

Special Elements: None

Vehicles Available: Mouse Cars

Maximum Height: 68 feet

Approximate Base Cost: \$1,640

Rides Offered: None

Notes: The higher the intensity, the better. Add plenty of twists and turns to bump the intensity up, but keep an eye on your Nausea Rating.



## Wooden Reverser Roller Coaster

Construction: Wooden track with steel running rails on wooden supports

Special Elements: Reversing Sections

Vehicles Available: Reverser Cars

Maximum Height: 78 feet

Approximate Base Cost: \$1,517

Rides Offered: None

Notes: Use of the special Reverser section will spin the car around so the back will lead its forward motion. Treat the reverser sections as you would loops or corkscrews, and be sure your speed is moderate when going into the sections.



## Heartline Twister Roller Coaster

Construction: Tubular steel running rails surrounded by steel hoops with tubular steel supports.

Special Elements: Heartline Roll

Vehicles Available: Twister Cars, Reversed Twister Cars

Maximum Height: 95 feet

Approximate Base Cost: \$3,030

Rides Offered: none

Notes: Due to the properties of the ride, no sharp corners can be built—the cars would get stuck in the track as they spun through it. However, high excitement and intensity rides can still be built. Take care though—the cars spin, so the possibility for a high Nausea Rating exists.





## Flying Roller Coaster

**Construction:** Tubular steel spine with tubular steel running rails supported by steel posts.

**Special Elements:** Banked Curves, Vertical Loop, Steer Twist, Banked Helix, On-Ride Photos

**Vehicles Available:** Flying Roller Coaster cars

**Maximum Height:** 111 feet

**Approximate Base Cost:** \$4,000

**Rides Offered:** None

**Notes:** Riders lie down on this ride, giving them the (very exciting) feeling of flight. Remember to construct your ride so that curves are dramatic, taking guests just along the surface of water or across treetops.



## Inverted Wild Mouse Coaster

**Construction:** Tubular steel rails on tubular steel supports

**Special Elements:** None

**Vehicles Available:** Suspended Wild Mouse Cars

**Maximum Height:** 68 feet

**Approximate Base Cost:** \$2,000

**Rides Offered:** None

**Notes:** The suspended cars and lack of banked turns can make this ride quite intense. Concentrate on steep drops and climbs; avoid tight high-speed turns.



## Suspended Looping Coaster

**Construction:** Steel spine with tubular steel running rails on tubular steel posts

**Special Elements:** Banked Curves, Vertical Loop, Steep Twist, In-Line Twist, Half Loop, Corkscrew, Banked Helix, On-Ride Pictures

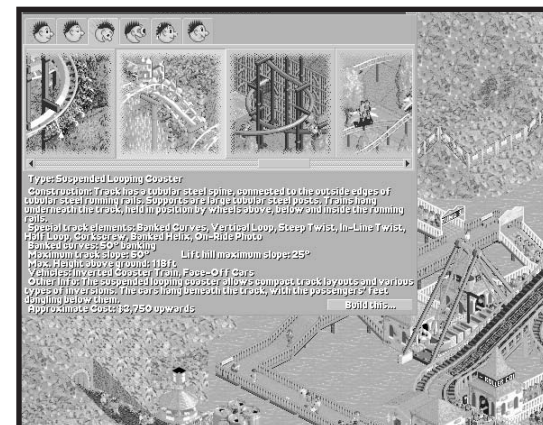
**Vehicles Available:** Inverted Coaster Train, Face-Off Cars

**Maximum Height:** 118 feet

**Approximate Base Cost:** \$3,750

**Rides Offered:** None

**Notes:** The major difference between this coaster and the Inverted Coaster is the addition of Face-Off cars. These cars face both forward, backward, and carry four passengers per car: the passengers are back to back.



## Air Powered Vertical Coaster

**Construction:** Track of steel girders; trains run on rubber tires

**Special Elements:** Banked Curves, Vertical Track

**Vehicles Available:** Air Powered Coaster Train

**Maximum Height:** Approximately 200 feet

**Approximate Base Cost:** \$6,750

**Rides Offered:** None

**Notes:** This ride is expensive but awesome. The powerful launch system gives this coaster's trains the ability to climb more than 200 feet in less than three seconds! The vertical track elements also contribute to this amazing coaster's intensity. Test the ride thoroughly before opening it for business!

