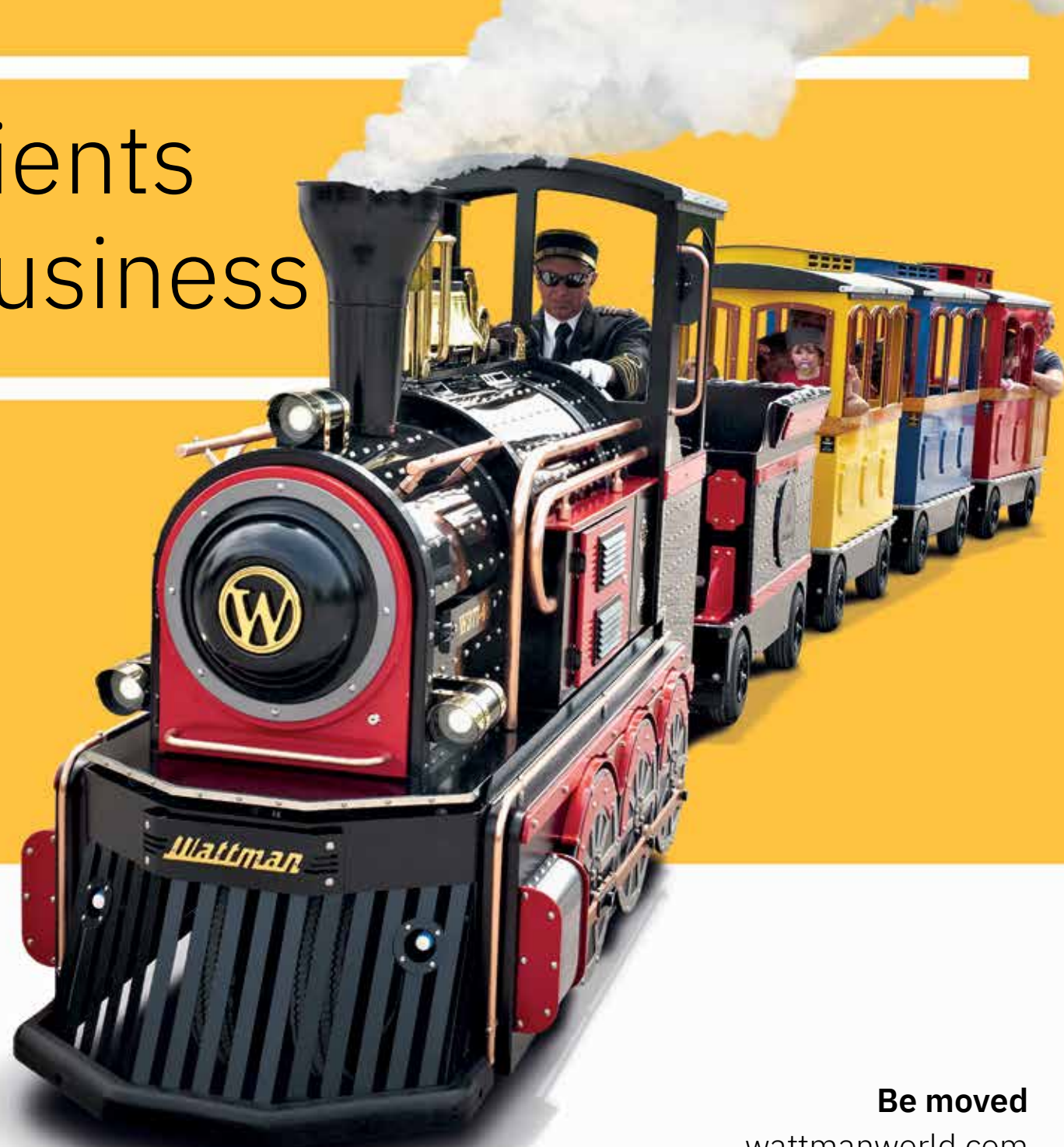


Move your clients Boost your business

Wattman Trains



Be moved
wattmanworld.com



Move your clients, boost your business. Your customers are our customers. We know how to move them and create happier clients that keep coming back for more. So, get on board and let's boost your business.





Mini Express

Our best selling train

The Mini Express train is a 4-car configuration and the standard configuration includes: one locomotive, and 4 wagons of your choice.

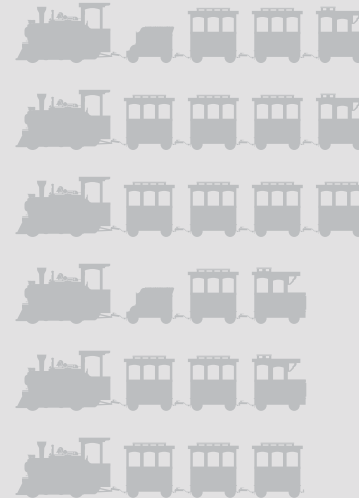
We can also deliver this train as a 3-car configuration for smaller venues or to start your business at lower cost, you can always choose to add an extra wagon later.

We offer many options to customize your train:

- You can choose the wagon model that fits your needs the best. You can choose the traditional combination: coal wagon, passenger wagon and caboose *or* only passenger wagons, it's your choice.
- Design your own color scheme.
- Add a smoke machine to create more attention.
- Weatherproof your train to maximize the use outdoors.

The Mini Express can work indoors as well as outdoors. For those wanting a more adapted train for their outdoor operations, we offer weatherproofing options.

Configurations



This is the 5th generation of the Wattman Mini Express train.

Characterized by a regenerative drive, it is the motor that slows down or stops the train.

The train no longer has mechanical brakes and maintenance is kept to a minimum.

The new E-pedal drive now conveys an even smoother driving experience.





Maxi Express

Larger wagons, more suitable for adults

The Maxi Express is a 3-car configuration and the standard configuration includes: locomotive, and 3 wagons of your choice.

We offer many options to customize your train:

- You can choose the wagon model that fits your needs the best.
You can choose the traditional combination of 2 passenger wagons and a caboose *or* only passenger wagons, it's your choice.
- Add an extra wagon to increase the capacity of your train.
- Design your own color scheme.
- Add a smoke machine to create more attention.

Weatherproof your train to maximize the use outdoors.

The larger wagons will handle more capacity than the Mini wagons. They are higher, wider and roomier and offer more comfort and cater to operations that have proportionally more adults.

The Maxi Express can work indoors as well as outdoors. For those wanting a more adapted train for their outdoor operations, we offer weatherproofing options.

Configurations



This is the 5th generation of the Wattman Maxi Express train.

Characterized by a regenerative drive, it is the motor that slows down or stops the train.

The train no longer has mechanical brakes and maintenance is kept to a minimum.

The new E-pedal drive now conveys an even smoother driving experience.



Outdoor Editions

Optimizing Outdoor Operations

Our trains have always had the ability to operate outdoors and are proven in warm as well as in cold climates. We have trains running in the winter in Moscow as well as in the summer in Indonesia and Australia.

There are however certain operations where weatherproofing optimizes outdoor operations. If you are concerned about rain, snow, wind and cold, we offer weatherproofing options that counter the elements and that allow continuous operations and alleviate downtime due to the climate.

These options apply to the wagons and the locomotive. Whether it be roll-up windows on all units, fully tempered glass windshield and a top to bottom door on the locomotive, upgrading with weatherproofing options will provide more comfort to your passengers as well as to the driver.



Introducing GEN-5

The next generation of Mini and Maxi Express

Wattman's reputation is built on quality. For the past 15 years, we have consistently introduced new features to our trains and improved the overall quality. All these improvements were performed without much 'hoopla' and discreetly explained in our literature and our discussions with our customers.

Today marks a leap in our evolution and the changes are so significant that we can now say we have a new generation of trains: The Mini and the Maxi Express GEN-5

What's new technically speaking?

Regenerative drive

Technically we took the AC train that we introduced 2 years ago and upgraded it by incorporating regenerative drive to achieve a power train with even fewer mechanical parts. As you decelerate the energy is kept within the system and is transferred to the batteries. Depending on the speed this will add autonomy of about 5% compared to a non-regenerative drive.

Reduced maintenance

Our trains no longer have brakes as this function is taken over by the motor. Similarly, the train does not have a mechanical potentiometer but rather an electronic one. No more motor belt. Direct drive with no bearing issues and the list goes on. All this to say that there are less parts and therefore less chances for parts failures and less maintenance tasks.

A smoother ride

The motion pedal has a much shorter run and the transfer of energy is seamless. No more foot fatigue. The driver seat has been improved and now offers more comfort.

Keyless

No more keys to replace. The train is powered on via a keypad. Each driver can have their own PIN. Supervisors can assign specific codes to their employees.

Weatherproofing options

Our trains have always had the ability to operate outdoors and are proven in hot as well as cold climates. We have trains running in winter in Moscow and in summer in Australia. However, there was room for improvement. For those considering wanting to better protect the driver as well as their passengers from the rain, the cold and the wind, we now offer weatherproofing options.

What's new from the buyer's perspective?

Empowering the customer

Up until now we offered complete trains with several standard features. Therefore, the train was priced by factoring in these standard features. With Wattman generation 5 trains most features become options and the starting price of the trains is lower.

The main idea is to have the customer configure the train exactly like he wants it. For example, the previous versions of the Mini Express came with Sound in Motion, Wheels in Motion and the Anti-Collision system. Now only the Sound in Motion is incorporated and part of the starting price while the Anti-Collision system and the Wheels in Motion are now options.

We now give more flexibility to our customers. For example, the coal car can be replaced by a covered passenger wagon at no extra cost. Should the customer prefer our classic 4-car configuration, the extra wagon becomes an option.

*You want all red wagons or all blue wagons?
No problem. No extra costs.*

*You want AGM (no maintenance) batteries?
No problem; we have that option.*

*You want to weatherproof just the locomotive?
No problem, we can do that.*

*You had interest in the Maxi XT Express?
No problem, we migrate a Maxi with
weatherproofing and you pay less.*

*You would like the wooden belt under the
wagon windows to be black? No problem.
No cost.*

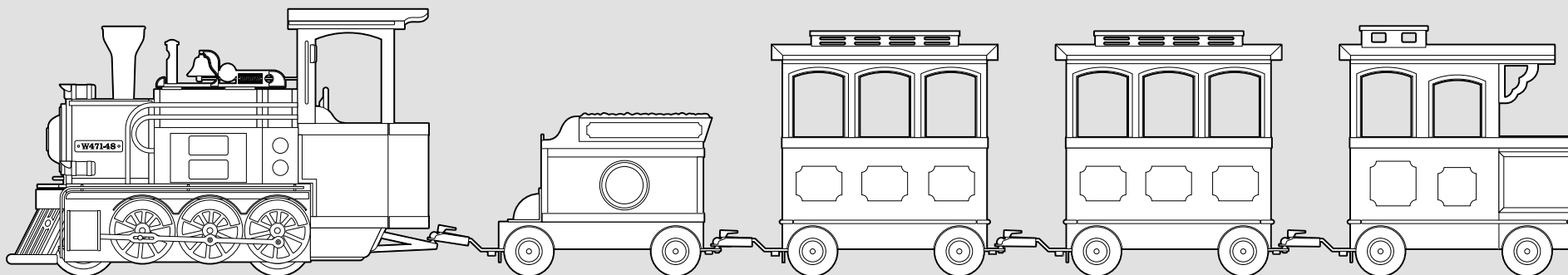
*You want to start with 3 wagons and
maybe buy an additional wagon next year?
Sounds like a plan.*

*You're not sure if you want a smoke machine
just yet but maybe later; no problem it can
easily be retrofitted.*

If you are familiar with our company, you have seen our website and our literature refer to our trains as often being identified as mall trains. Although this remains true, we have witnessed a change in the market and opted to adapt. More and more, customers are asking us about our outdoor trains. Yes, we have always had them but now we are offering upgrades to make them even more adapted to different climates. This is what the market is asking for. We at Wattman like to think of ourselves as a company that listens, and this is what GEN-5 is all about.



Mini Express



The Mini Express is our best-selling model and offers versatility of operations. This model is very suitable for operations where space is limited, like shopping malls, parks, zoos and many other applications.

LOCOMOTIVE

Width	112 cm 44.13 in
Length	289,5 cm 114 in
Height	177 cm 69.5 in
Weight	748 kg 1650 lb + driver
Battery pack	8 lead-acid, 6 Volts, 225 AH
Charger	120/230 V AC universal charger
Autonomy	16 hours indoor; 12 hours outdoor (based on 50% usage ratio)
Recharge	8 to 10 hours
Maximum speed	6 km/h 3.8 mph
Motor/drive	Electric AC motor, 12 hp, 5th generation e-Pedal drive

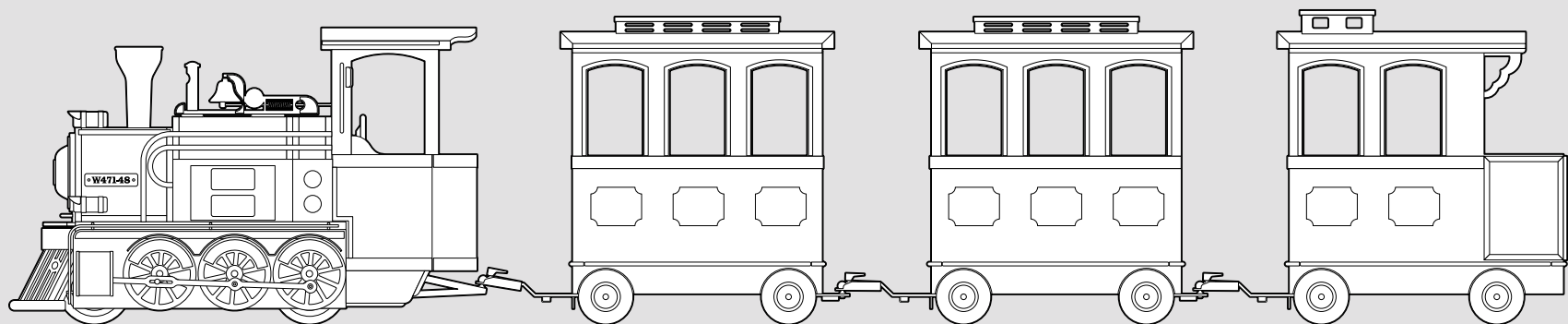
WAGONS

Width	82 cm 32.28 in
Length	150.5 cm 59.25 in; caboose 160.65 cm 63.25 in
Height	163.2 cm 64.25 in
Weight wagons	117 kg 258 lb
Max. load wagons	204 kg 450 lb / wagon

OVERALL

Length	10.60 m 34.8 ft (locomotive + coalwagon + 2 passenger wagons + caboose)
Weight	1218 kg 2685 lb (locomotive + coal, + 2 wagons + caboose)
Capacity	Approximately 24 small children or approximately 18 adults and children = 818 kg / 1794 pounds
Grade	Max 7% (loaded) or 4 degrees
U-turn	U-turn capability: 5.5 m 18 ft (wall to wall)

Maxi Express



The Maxi Express is our larger model that offers roomier wagons. This model is very suitable for in- and outdoor operations, like shopping malls, parks, zoos and many other applications. Large wagons, easy access for adults.

LOCOMOTIVE	
Width	112 cm 44.13 in
Length	289.5 cm 114 in
Height	177 cm 69.75 in
Weight	748 kg 1650 lb + driver
Battery pack	8 lead-acid, 6 Volts, 225 AH
Charger	120/230 V AC universal charger
Autonomy	3 wagon config 14 hours 4 wagon config 12 hours (based on 50% usage ratio)
Recharge	8 to 10 hours
Maximum speed	6 km/h 3.8 mph, programmable by factory
Motor/drive	Electric AC motor, 12 hp, 5th generation e-Pedal drive
WAGONS	
Width	108 cm 42.25 in.
Length	Passenger wagon: 165 cm 65 in; caboose: 175 cm 69 in
Height	189 cm 74.5 in
Weight wagons	181 kg 400 lb; ADA caboose 250 kg / 584 lb
Max. load wagons	385 kg 850 lb / wagon
OVERALL	
Length	9.7 m 30.9 ft (locomotive + 2 passenger wagons + caboose)
Weight	1291 kg 2846 lb (locomotive + 3 wagons)
Capacity	Approximately 24 small children or approximately 18 adults and children
Grade	Max 7% (loaded) or 4 degrees
U-turn	U-turn capability: 7 m 21 ft (wall to wall)

You can create your train completely according to your own needs and tastes; choose the number and type of wagons, choose the desired options, choose the colors that best suit your business.

Go to our website to compose your train with our configurator or contact us for the best advice for your situation.

Options



Sound in motion

Adding realism to the train triggers a child's imagination and captures the attention.

The faster the train moves, the faster the rhythm of the sounds. Similarly, as the train slows down, the output flow of the sounds will also decrease. Also provided are bell and whistle sounds that are triggered by their own switch and independent volume controls.

This feature comes standard with every model.



Wheels in motion

Adding realism to the train triggers a child's imagination and captures the attention.

With the Wheels In Motion, the three decorative train wheels on both sides of the locomotive rotate at variable speeds and in tandem with the speed of the train.

Smoke machine

By simply pressing a button, the conductor will instantly generate smoke.

The liquid that evaporates is glycol based. It is safe and non-toxic and can be used in an indoor operation. The smoke machine has its own battery and recharging system which is controlled by a microprocessor.



Audio package

PA-amplifier, speakers and 12-volt power supply in all wagons.

Plug your MP3 player into the amplifier. Create playlists.

The optional gooseneck microphone allows the driver to keep his eyes on the road while talking.

The 12-volt power supply is located under the seats of each wagon and can be used for; party lights, lights in the carriages and many other applications.



Options



Camera with monitor driver

To provide a good view of the blind spot in front of the locomotive, we can outfit the locomotive with a wide-angle camera and monitor that facilitates driving.



Anti-collision system

The ACS is intended to improve the safety of the general public when the train is used in busy or confined areas.

The system assists the driver by giving a warning if someone or an object is in the blind spot of the locomotive.

Watering system batteries

Wattman trains are standardly outfitted with deep cycle flooded lead-acid batteries.

Plastic tubing is channeled to all battery cells, and a valve system prevents overfilling the batteries.



AGM batteries

Upgrade your train with high-quality deep cycle AGM batteries.

AGM batteries are very dependable and are maintenance free. They offer several benefits; no risk of acid spilling, better protected against low temperatures, more reliable life cycle, very low self-discharge rates, and very low hydrogen gas emission.



Options



Mechanical whistle

The optional mechanical whistle adds an extra dimension to the train. The driver simply pulls the handle to generate a more 'circus-like' sounding whistle.



ADA caboose

ADA stands for American with Disabilities Act: a law that prohibits discrimination on the basis of disability. The act applies to various infrastructures including amusement rides. In compliance with the guideline standards (dimensions/clearance) for wheelchair accessibility, Wattman designed and now offers this unique caboose.

Advertising panels

With these advertising panels, you can easily install your corporate identity or advertisements.

These panels are mounted on both sides of the wagons.

One large and two smaller panels on each passenger wagon and for the caboose there is also a medium panel on the backside of the wagon.



Rooftop advertising

The rooftop advertising frames can be used on the rooftop of the passenger wagons.

The wooden frames can easily be mounted in the slots which are provided on the passenger wagons.





Color options



BLACK LOCOMOTIVE



RED LOCOMOTIVE



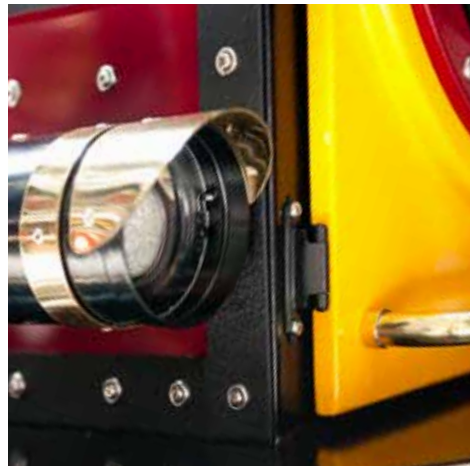
YELLOW LOCOMOTIVE

Wattman trains are manufactured according to extremely rigorous design and aesthetic guidelines.

Our trains come in 3 standard color combinations. We can also deliver the trains in many other color combinations, please contact us for the possibilities.



Specifically for zoos we have the Zoo edition in which the entire train is fitted with colorful animal graphics.



Certified for safety

All Wattman trains are TUV certified and comply with all European regulations. In countries where TUV is not required, the simple fact that it is TUV certified will procure a positive appreciation on the local or national compliance agency.

In countries outside the EU and with standards of their own, Wattman will interact with the assigned compliance agency of that country in order that the train owner obtain their certification. Recently, Wattman has worked with Israeli, Australian and Singapore governmental bodies and obtained required certifications for each of these countries.

All this to say that there is no single answer to customers looking into obtaining a certification.

It is therefore important to do your homework and verify if any specific approval applies to your operation.



All Wattman trains have been designed conforming to the requirements of EN 13814 :2019-Fairground and Amusement Park Machinery and Structures – Safety.

Our trains have been approved and comply to this specific requirement and are delivered with a compliance certificate attesting to this. Serial plates installed on each train unit also attest to complying.

The approval procedure is conducted by TUV, an established international certification agency.

By complying to EN 13814 our trains are in harmony with the following international standards:

International, ISO 17842 – Part 1, 2 & 3 Safety of Amusement Rides and Amusement Devices | USA, ASTM F2291, Standard Practice for Design of Amusement Rides and Devices | ASTM F1193, Standard Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices | Canada, ASTM F2783, Standard Practice

for Design, Manufacture, Operation, Maintenance and Inspection of Amusement Rides and Devices | Australia and New Zealand, AS 3533 part 1 & 2, Amusement Rides and Devices | Brazil, ABNT NBR 15926, Amusement park equipment | Russia, GOST R 52170, Safety of Mechanized Amusement Rides | GOST R 53130, Safety of Amusement Rides, General Requirements

In countries with their own compliance standards, Wattman will interact with the assigned compliance agency of that country in order that the train owner obtains the requested compliance.

Recently, Wattman has collaborated with Israeli, Australian and Singapore governmental bodies and obtained required certifications for each of these countries.





We have been building electric vehicles for the attractions industry for 20 years or should we say we've been in the entertainment business for over 20 years? The trains that we build today represent our 5th technological generation. We went for 24-volt DC to 36-volt DC to 48-volt DC to 48-volt AC and now we offer 48-volt AC with regenerative drive along with several other upgrades.

We offer technically advanced reliable trains where motion will rarely be down and where your riders will undoubtedly experience emotion.

Our experience in this unique industry provides us with an understanding for what makes a train tick and how it needs to be crafted so it catches the eye.

Whether you are an owner or a passenger of our trains, one thing is certain:

You will Be Moved.

Contact us now

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