



AUXEL
AUTOMATION AND SAFETY



“THE COMPLETE AUTOMATION FOR AMUSEMENT RIDES...
...WHATEVER MIGHT BE YOUR RIDE.”

COMPANY PROFILE

From the curiosity and passion for the technology evolution of two technicians employed in the amusement ride field, in 1981 a company was started that has as a mission the desire to **create innovation** for the amusement ride manufacturer. Auxel has always been faithful to its original intent and today is well known by every Italian amusement ride manufacturer and considered a professional and reliable partner, for all types of production, so much so, that we are considered the absolute **leader in this field**.

From the initial projects and realizations of electric parts for plane rides, trains, power blocks for mini and midi scooters, today Auxel projects, produces and assists many major rides of many different manufacturers. The work is carried out in a **partnership with the ride manufacturer** from the first design phase, throughout discussions, propos-

als and suggestions looking for the best and most convenient solutions.

In every job done you can find elements that constitute traces of Auxel's history: the desire to improve the known standard for that application with the most recent and reliable technologies available, that consequently improves the ride itself in regards to **safety and quality**.

Innovation is frequently also cost-savings and Auxel owes much of its success to the constant research for the best solutions at the best prices.

Time and experience have been great allies also. The many experiences done on many machines with different needs and requirements constitute the real assets of our company. Today Auxel can automate, with success and with great satisfaction on your part, every amusement ride, might it be new or old.



QUALITY

Every project in Auxel is carried out keeping in mind three fundamental points that must always be present: innovation, safety and cost effectiveness. To achieve this result we invest a lot in technologies. Our team of expert Engineers and technicians are constantly train in order to be always updated on new available products and technologies. Furthermore, the constant research for the most reliable components, coupled with the use of the most modern production and communication systems, ensure the best and safest result for your ride.

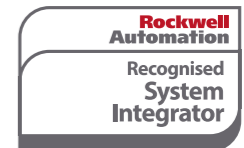
developing calculations in full respect of all safety criteria given by international norms and agreements.

Upon request we can certified UL/CSA our electrical boxes and various products. Our Staff is constantly trained by UL certifiers about the changing of the norms of every country in north America. Furthermore we keep everybody up-to-date about norms apply by every other country around the globe, and so we can guarantee the perfect functioning of our products wherever you need to send your ride. Our products and components are all CE compliant.

We can help our clients to adapt designs and calculations to particular necessities. Since every amusement ride is like a tailor-made suit, our solution and products must be absolutely adaptable in order to match your wishes or requirements. Upon request we also help our clients to design completely new rides.

The quality of our products and services is our main concern since we are dealing with people's security. Our engineers pay the utmost attention to safety by

SERVICE PARTNER



- DESIGN ACCORDING THE STANDARD UL 508A (INDUSTRIAL CONTROL PANELS)
- AUXEL UL CERTIFICATE NUMBER 20130607-E363206
- RIDE ELECTRICAL AND SAFETY DESIGN ACCORDING TO THE STANDARD UNI EN 13814
- DESIGN ACCORDING THE SAFETY STANDARDS: ISO 12100-1, EN ISO 13849-1, EN ISO 13849-2, CEI IEC 60508 CEI IEC 60511 EN 62061
- CONTROL PANEL ACCORDING THE STANDARDS CEI EN 60204-1, CEI EN 61439-1, CEI EN 60439-1
- NEC 70 NATIONAL ELECTRICAL CODE O NFPA 70 NFPA 79



**IAAPA
MEMBER**



LISTED



AUTOMATION FOR KIDDIE RIDES



During the last decades we had to deal with every possible amusement rides and it is not possible to mention all of them, but in the following pages you can see some examples of our production.

Auxel produces automation for every kind of ride: **KIDDIE**, **FAMILY** or **MAJOR** rides.

Plane ride, **round about ride** and **track rides** are probably considered the symbols of amusement parks and Auxel couldn't fail to propose its service as a partner for the production of this marvelous ride while, at the same time, sticking to our intentions of being always innovative.

We manufacture customized electrical boxes of all kinds: in direct current, in alternate current, at all voltages, with anti-collision system, with unloose cars, (for what regard track ride), with synchronized sound effects, with different number of arms, with combat or without (for what regard plane ride), hydraulic or pneumatic and whatever else our creative customers require.

Check out our "products" section to see all the standard items designed and produce by us for the management of light, sound and other effects on your kiddie ride.



AUTOMATION FOR FAMILY RIDES



Do you know which was the first electronic power block for bumper cars? A power block built by Auxel in 1982. Back when converters were used for applications in completely different fields and their cost prohibitive, we projected an SCR control dedicated for the **bumper cars** attractions.



merries go round, trains, water rides, monorails and **family swingers** are part of our daily production. Thanks to the experience acquired, Auxel continues to produce electrical boxes and automation in general with great success, renewing them with up to date solutions or we customized adjustment. There's no challenge that we are not ready to take and overcome, regardless of the customer's desire and expectations.

Nowadays, all suppliers of power blocks, know the value of such a system and in fact in their catalogue you will always find the electronic model, just as we did at the beginning. Together with bumper cars every other FAMILY RIDE like

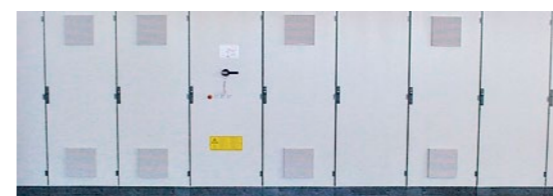


AUTOMATION FOR MAJOR RIDES



When it comes to MAJOR RIDES the number of application realized by us is also great. **Roller coasters, disko coasters, inverted coasters, family coasters, swinging rides, towers, saltamontes, giant discoveries** and **giant wheels** are part of our portfolio. Every challenge faced was overcome thanks to the experience of our engineering department as it pertains to safety, the most important aspect for this application. Some examples of service offered by us are the anti-collision system with "zone-control", constant communication of the exact car position and communication between

trains/cars/carriers and the base. As usual, all of these have been produced according to the international safety regulations and compliant with various park requests.



Many times our partnership is required when a new major ride, bigger than any other previously existing, is going to be produced. With very big model, where the tests cannot be made inside the manufacturer's factory but have to be done on the park site, the ride manufacturer needs to have a partner who is able to test and put in function the machine safely and very quickly, and Auxel can provide these necessary services.

PRODUCTS

Auxel has also developed a big range of accessories through the years, some of them come from our creativity and from the desire to be always proactive but some others developments come from the ideas/ desires/needs/requests of our customers.

Among our standard production you can find a big range of lightning control boards: from 4 to 48 channels, with over-cross effect, from 2 amp to 50 amp for each channel, with boards that can be placed inside the general electrical box of your rides, with memories programmable according with your needs, and many other customization.

The sounds management boards range cover every possible amusement ride: from the simple sound needed in a small plane ride to the synchronized sounds of



big shows and dark ride, obtained by the coordination of many boards with a specific software. Whatever might be the board you choose we guarantee a reliable sound from 24V to 150V, in direct or alternate current.

Recently we have also produced a throttle (accelerator) to be used in the train with the driver on board or on bumper cars. This throttle allows a

better motors utilization, especially when they are many and connected in parallel. It is known that motors are never constructively identical and that they can influence each other in various ways (ex. one motor moves forward while another one is braking). Our board is designed to cancels those problems forever, through a circuit that detects the current of each single motor and adjusts them. In this way, no motor will ever act as a brake.

Since the beginning of our history we have produced power block for various customers with different needs and wishes. Thanks to this we have built up experience rarely matched and that we used for the various evolutions of this product. Today we are able to furnish



ASSISTANCE ALL OVER THE WORLD



The amusement rides manufacturers well know the importance to have a reliable partner also for after sales assistance, someone that can be ready to move everywhere in the globe within few hour notice, and this is exactly another one of our service. This service includes assistance for adjustment and reparation, but also machine start up or testing on site. Particularly in this case our services are extremely appreciated in the field.

power blocks of very high quality, reliable and with a long life expectancy.

In our catalogue you can find power block for cars having ground contact or net contact, with token dispenser or without, with lightning management or just with motive power, and many other customizations. Models vary in the number of cars (from 10 to 40) and tension supply. All of them are built according with CE norms. Our favorite model, anyway, always remain the electronic one because of its numerous advantages: starting without current peak, cheaper energy supply contract, complete absence of connects points maintenance and speed regulation during movement.

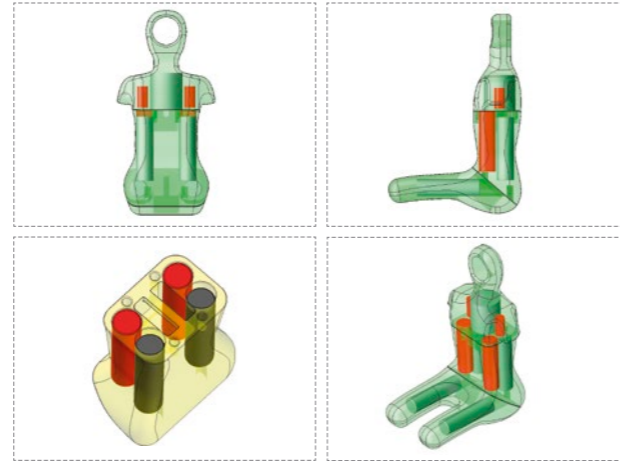
Contact us for a quick quotation. We have the right power block for your ride. Safety on your job place is a principal requirements that every advanced factory should look for, not only because it is in the interest of the company but also

because is a primary objective for many governmental safety agencies.

Every put on trial phase dangerously exposes a company's structures and employees, and this is even more valid in the amusement rides field.

The testing dummy, designed by us in collaboration with the University of Padua, is the natural evolution of concrete or

sand's sack, that are usually utilized to simulate a passenger's weight during the trial of a machine. The differences



between the two solutions, from a reliable and safety point of view, is clearly evident. The dummy simulates perfectly a human silhouette. This is fundamental for the complete check up of all machine's parts: the seats shape, the closing of handle bar, the ease posture and critical point in the movements.

Moreover a dummy perfectly fixed cannot shoot out from the seats during the tests, so it cannot injure anyone.

Thanks to the way it is constructed (divided into three parts and each of them has handles and the possibility to unload the weights), the dummy can save you mounting and testing time. It is an initial investment that lasts long and that allows you to save money in work hours and that does not put at risk your employees, thus avoiding heavy sanctions and compensations.



FOR MORE PROJECTS, VISIT WWW.AUXELRIDES.COM



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