



# Safety and Quality of Amusement Rides

Carrying the valuable freight of human beings and meanwhile providing them with joy and excitement means great responsibility. Manufacturers and operators need to make sure that amusement rides are safe and run smoothly.

With TÜV NORD as a competent partner and independent third party involved in the process, compliance with standards and requirements is ensured and safety is maximized.

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Operators, manufacturers and investors of amusement parks or fairgrounds can rely on TÜV NORD in all stages of the value chain, from concept and design to construction, installation, operation, and maintenance.

TÜV NORD offers services in certification, periodic inspection, design review, manufacturing supervision, site assessment and acceptance tests for all types of amusement rides. Inspections and certifications can be performed according to all major guidelines such as EN 13814, local legislation and relevant national and international applicable standards, e.g. ISO, EN, DIN or ASTM.

**TÜV NORD - Making our world safer**



## Design Review

Our team of experts conducts a thorough review of the design calculation and drawings, ride control system as well as multiple risk assessments.

## Manufacturing & Shop Inspections

During the manufacturing and assembly process, quality inspections will be conducted to ensure the safety, quality and reliability of safety critical parts. Where needed materials are tested for safe operation. The inspection consists of a structural, mechanical and electrical/ride control inspection.

## Acceptance Tests

Acceptance tests generally start during the installation of the ride tracing deviations in an early stage and to correct them during installation. Once the installation is completed the safe-operation of the ride is tested by multiple measurements like speed, acceleration and G-Forces. In addition, the ride environment (queue lines, operator area, decoration) is also assessed.

## Periodic Inspection

Our international teams of experts conducts thorough examinations of amusement rides in order to have an independent view on safe operation and to issue operating licenses.

## Consulting & Training

TÜV NORD offers consultancy services in all phases of the value chain. Furthermore we provide instructions and trainings for both maintenance and operating staff.

## Our Competences

With more than 14.000 employees and experts in nearly all technical disciplines TÜV NORD is one of the largest technical service providers operating in more than 100 countries.

TÜV NORD is one of the leading global inspection and certification bodies and partner for the amusement & leisure industry.

## Your Benefit

- Compliance with applicable local and international standards, regulations and procedures
- Minimizing risks during development, construction, installation and operation of your rides
- Identification of wear and tear and defects at an early stage minimizing risks and downtimes for rides, therefore improving efficiency and profitability



## We look forward to sharing our experience with you



**TÜV NORD Competence Center Amusement & Leisure Industry**

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