



CAR TURNTABLE





Who are we?

We are an engineering consultancy firm based in the UK. We provide engineering support and solutions to multiple clients in the automotive, aerospace and logistics industries, including Meritor HVBS, Safran Landing Systems and Amazon UK.

Meritor is a leading global supplier of drivetrain, mobility, braking and aftermarket solutions for commercial vehicle and industrial markets. We played a major role in advancing their analysis techniques making futuristic brake designs possible. We developed more representative load cases allowing the design of weight-optimised brake parts, without compromising their fatigue life or performance.

Safran Landing Systems is the world leader in aircraft landing and braking systems. We supported and guided the Airbus A350 Main Landing Gear analysis team through the exhaustive analysis work required for the certification of the aircraft. The Airbus A350 successfully entered service on the 15th of January 2015.

One of our latest solutions was a Car Turntable installed at a client's house in the 5th settlement, New Cairo, Egypt.



What is a Car Turntable?

A Car Turntable is a platform designed to rotate a car around either manually or automatically, via an electric motor. It is also available in a heavy-duty option for vans, buses and HGVs. They are becoming increasingly popular in both residential and commercial markets.

In residential areas, they are commonly installed in garages and driveways for an easy and safe exit of vehicles. Whereas, commercially they have multiple applications, such as



Car showrooms



Car parks



Car wash areas



Exhibition halls



Delivery & Emergency
service vehicle bays



Photography
studios



Why use a Car Turntable?

In garages where space is limited and/or manoeuvrability is an issue, a turntable will turn the car around in place, without the risk of damaging it. This will allow property developers to provide more parking spaces to residents, and help reduce congestion on roads.

If reversing onto a main/busy road is a hazard, or you suffer from limited mobility due to a back or neck problem, a Car Turntable will allow you to drive away facing forward for better access, visibility and pain free.

A turntable can also be used as an anti-theft device by parking the car at 90° relative to the exit.

In a car showroom a turntable can be used as a centrepiece to display a new model.

During a car photo-shoot a turntable will reduce manoeuvring and setting up time, plus protect the vehicle against accidental damage.

The Car Turntable design and how it works



The turntable is fabricated from high-grade box steel and covered in chequered steel plates for improved tyre grip as a standard option.

The turntable structure is designed and analysed using state-of-the-art technologies, allowing the development of a weight-optimised and a low maintenance solution.

A gearmotor subassembly mounted to one side of the turntable provides enough power to rotate the vehicle. The gearmotor is controlled via a wall mounted control system.

The control system is packaged in a secure user-friendly interface. The interface is a key-operated weatherproof box, equipped with 2 buttons capable of spinning the turntable a complete 360° in both clockwise and anticlockwise directions.

The control system design is foolproof, so in case both buttons are pressed at once the system will pause from processing any input briefly, after which normal operation will resume. Also the system is designed with a manual override in case of a power outage.

A blue car is shown from a front-quarter view, parked on a circular turntable. The turntable has a blue, white, and red striped pattern on its surface. The car is positioned in a parking garage with brick walls and concrete pillars. The right side of the image is overlaid with a red semi-transparent panel containing text.

How customizable is the Car Turntable?

The turntable design is customizable to the client's requirements and specifications, with options to

- Retrofit in existing buildings or include in the design of a new build
- Flush or over ground installations
- Range of sizes to cater for all vehicles and suit all areas
- Standard non slip chequered steel finish
- Various surface finishes available to blend with different surroundings
- Manual or motorized operation
- Adjustable speed for the motorized option
- Operate using a key-fob or a mobile app

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Get in touch and see how we can help.
You can reach us on

Tel: 01159031119

Email: info@xyz-eng.com

www.xyz-eng.com