



Overview

What is joysteer?

- Fully electronic steer, brake and gas system
- 100% drive-by-wire
- Various input devices (HMI's) available
- HMI's with integrated dynamic force feedback
- Intuitive operation, easy to learn, relaxed and safe driving
- Double redundant system
- Swiss made, Swiss quality

High safety standards

- Developed according to ISO 26262
- Homologated: ECE R 79 (steering)
- Homologated: ECE R 13 (braking)
- Type approval: ECE R 10 (EMC)

joysteer®

joysteer® is an electronic, modular driving system for vehicles.

It allows people with physical impairments to drive a car on their own in a safe and comfortable manner. joysteer® can be installed in conventional vehicles and is easy to use. Furthermore, driving conventionally with the steering wheel and pedals is still possible.

Individual and safe

Various physical disabilities require individual solutions. The modular joysteer® system therefore offers different input devices, called HMI's; human machine interfaces. These are programmed to the specific needs and can be adjusted on request. Thus, steering, accelerating and braking corresponds to each individual's personal needs.

Each driving request is transmitted entirely through an electronic connection to the wheel. This «drive-by-wire» technology is state-of-the-art. Two separate branches monitor each other and ensure that the functionality remains, even in case of a failure. Therefore joysteer® guarantees safe driving at all the times.

Relaxed driving experience

Due to the integrated active force feedback, joysteer® provides a comfortable driving experience. Force feedback is the return signal from the steering forces back to the driver.

Thanks to the speed-dependent steering ratio, it's easy to control the vehicle even at higher speeds and to keep the car safely on track.

Micro Wheel Active Force Feedback

- Steering movement with integrated dynamic force feedback functionality
- Speed-dependent driving
- Steering «through the wrist»
- Compatible with orthotics



Micro Wheel

- Steering movement with passive feedback only
- Steering «through the wrist»
- Small in size, especially in height
- Compatible with orthotics



4 Way joystick Active Force Feedback

- HMI with all functionalities «steer, brake, gas» and dynamic force feedback on steering
- Speed dependent driving



4 Way joystick

- Asymmetric design (for hand rest)
- Designed for left- and right-hand use
- 4 Way joystick for «steer, brake, gas»
- 2 Way joystick «steer only» or «gas, brake»



Left-hand use

Right-hand use

Tilter

- Tilter for gas and brake
- Asymmetric design (for hand rest)
- Designed for left- and right-hand use
- Operation by tilting the stick
- Not compatible with orthotics



Left-hand use

Right-hand use

One Hand joystick

- Steering movement with integrated dynamic force feedback functionality
- Speed-dependent driving
- Rotation axis through the middle of the wrist-decoupling of lateral forces



Slider

- Slider for gas and brake
- Compatible with orthotics



Orthotics

3 different orthotics are offered

- Tri Pin
- Knob Grip
- Pin Grip



Bozzio AG

- is the manufacturer and owner of the product joysteer®
- is an SME located in Switzerland
- owns the patent and trade mark
- patent granted in EU+USA+IL

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