Categorie Premio	Accessibilità	Sostenibilità	Qualità della vita

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Description of innovation social values
- product category
- formal and functional features
- problems solved by innovation
- user
- field of application

The CarvX is a safe, fast, exciting and sporty ***tilting*** recumbent bike. The CarvX borrows it's name from the 'carving-technique' as used in the ski sports. With this technique it's possible to take a corner at high without losing control and safety. Cornering at high speed is no issue anymore because all forces are lead into the right direction due to the new technique of tilting wheels and suspension.

4 Wheels have been chosen for more road-contact which leads to more stability, safety and better driving and braking aspects. Because of the fact that it's a recumbent bike the central gravity point is very low and even this is lowered for more stability and road handling. Also you can provide more power out of your legs/back because of this laying position. Click pedals will improve this as well.

The innovation is the tilting technique in combination with a rigid recumbent frame. This frame is the backbone of the bike and fully adjustable in the production process to adjust the length for a specific user / target group (handicapped people). By adjusting the seat and pedals 95% of the population can drive the CarvX. The target group as such is large: teenagers, adults and handicapped people who like to exercise in a different way. Also people with muscle or balance complaints, MS and Olympic sports(wo)men on the contrary, they all train on the CarvX.

Description of technical features
- operations
- technology

The frame is made 100% out of aluminium and is equipped with 4 double wishbone suspension sets, which absorbs shocks independently. The total weight is 29 kg. In combination with the recumbent riding position and central point of gravity this is a very acceptable weight.

The CarvX is driven by a Rohloff 14 speed closed hub, which is unique in it's kind. Steering and tilting can be controlled by the two handles. The left one is the steering handle and the right one is the tilting handle. This combination between steering and tilting delivers a unique driving experience and is not controlled by speed, but by yourself.

By dismantling the wheelhubs, seat and handles with a snaplock the CarvX can be transported in a compact class car.

Dimensions

Dimensions: L x W x H (cm) 220 x 92 x 85 cm

Materials

Aluminium frame + double wishbone suspension, carbon fibre seat, 14 speed Rohloff Speed Hub, 4 discbrakes, 4 airsuspension shocks

Certifications

Tested and approved by Dutch Paralympic sportsmen for training purposes.

Benefits for environment

The CarvX is a safe recumbent bike which can be used not only in rough conditions, but also as a city communter and leisure bike.

By combining fun, exercise and daily commuting traffic congestion can be decreased. Meanwhile more exercise contributes to a better health.

Benefits for human being

It's driving capabilities leads to a new kind of exercise in sports, combining bicycle activities with skiing aspects and aerobics. The entire human body has to 'work' to drive and control the CarvX. As there's no restriction and necessity on the contrary to speed, each level of health condition can use the bike. As it's a 4 wheel recumbent bike it's also useable by handicapped people.