

# Product brochure

## SMART BRAKE TECHNOLOGY

Model: Wireless hydraulic brake – 2019



**SMART BRAKE is a wireless braking system that allows users with impaired hand function or companions to brake safely, up to 15 meters.**

The braking system can easily be mounted on all rolling units such as wheelchairs, carts and bicycles that have one or more hydraulic discs or rim brakes. Controls are controlled using a pushbutton or lever, the location of which can be adjusted to the user's function. Gradual braking and parking braking are controlled from the same control. The products are rechargeable via USB and adjustable via APP.

## TECHNOLOGY

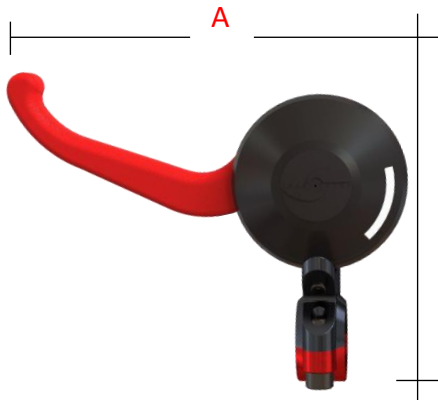
SMART BRAKE is the most advanced wireless brake system available for sports and mobility equipment. The unique and patented technology enables users to tailor the brake and performance according to their needs. Adjustments are ideal for users with reduced handgrip/-power or limited upper body mobility. The wireless brake controller can be operated from positions optimal for the user and fits all hand sizes. Additional hand controls can be connected and operated in a radius of 15 meters. The Parental Control enables companions to control braking and parking on behalf of the user. The wireless technology is based on Radio Frequency (RF) and Bluetooth (BLE).

The hydraulic brake system is mounted on disc/calipers and provides high precision brake force. SMART BRAKE can be supplied with both driving and brake lights. The system also has parking brake integrated, which can easily be controlled from the same hand control. The parking brake will automatically be activated after a short period of inactivity.

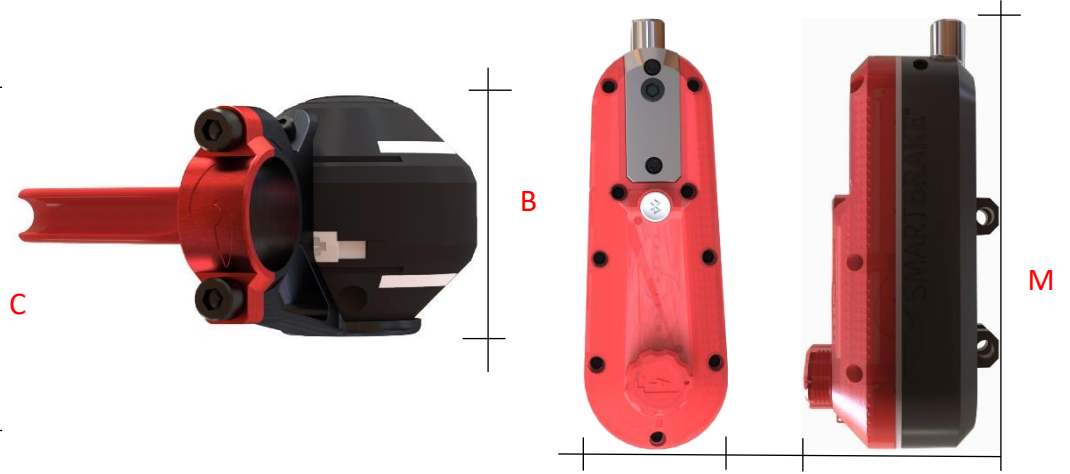
## TECHNICAL DATA

SMART BRAKE is delivered as DIY kit with completed (bled) hydraulic brakes and is easily mounted onto the mobility equipment without special tools required. The brakes work across many bicycle models and wheels with disc brakes. SMART BRAKE can be supplied with calipers included (Shimano, Sram, Tektro). For more information about models and specifications, please contact us (see contact details on last page).

	<b>PART</b>	<b>DESCRIPTION</b>	<b>SIZE (mm), (g)</b>
Brake lever	<b>A</b>	Width	126
	<b>B</b>	Height	47
	<b>C</b>	Length	89
	<b>D</b>	Weight	80
Brake Unit	<b>E</b>	Circumference	52
	<b>F</b>	Height	14
	<b>G</b>	Weight	304
Hand control	<b>H</b>	Width	20
	<b>I</b>	Height	40
	<b>J</b>	Length	57
	<b>K</b>	Weight	38
Brake trigger	<b>L</b>	Width	47,5
	<b>M</b>	Height	54,5
	<b>N</b>	Length	145
	<b>O</b>	Weight	28



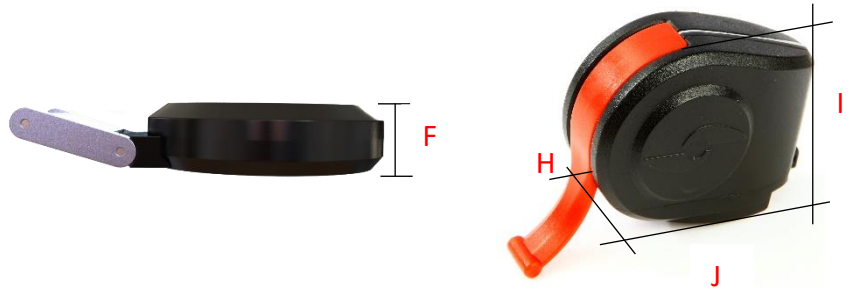
Brake lever



Brake Unit



Hand control

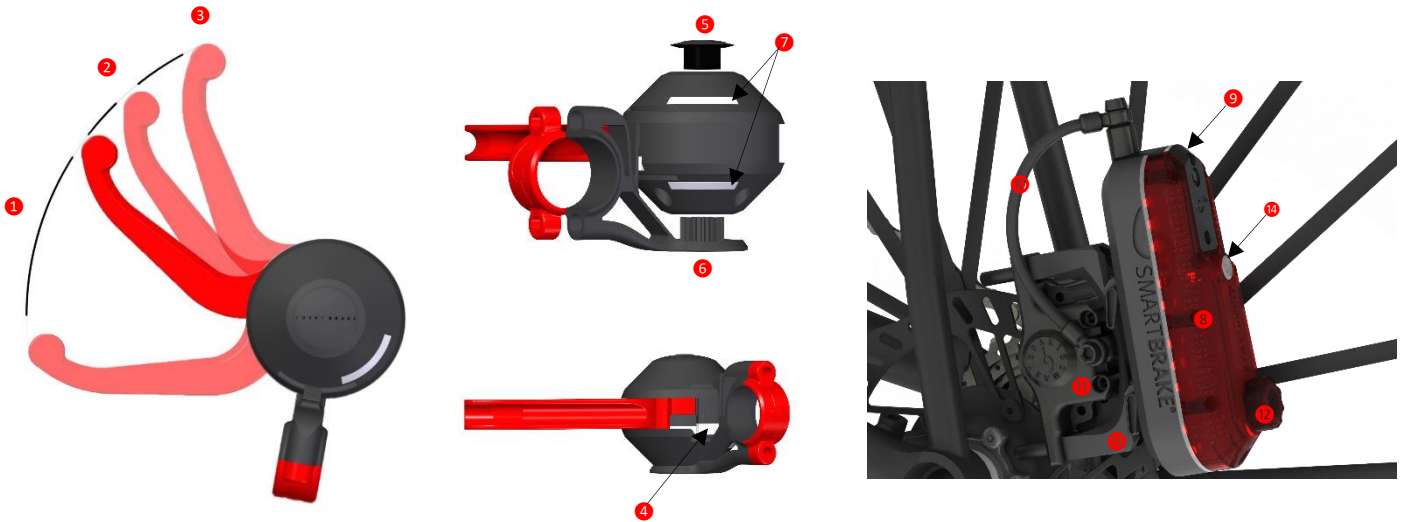


Brake trigger

## Details

SMART BRAKE consists of four main elements:

A) Brake lever, B) Brake Unit, C) Hand control, D) Brake trigger



### A) Brake lever:

1. Brake levers, whose braking force increases linear to the motion
2. Parking brake, where motor is short-circuited in maximum braking force
3. Function for synchronization: New function to braking force per degree is being recalculated in relation to the levers moving space
4. Charging: Micro USB type-B
5. Cover to protect against water and particles
6. Splines to adapt the control onto handlebars
7. LED indicators

### B) Brake Unit

8. Brake light (red glass), can also be supplied with daytime running lights (white glass)
9. Reservoir, chamber for brake fluid
10. Hose, fluid-carrying
11. Caliper: SMART BRAKE can be supplied with / without caliper
12. Charging point, micro-USB type B
13. Mounting bracket
14. Bluetooth, to synchronize brake unit and hand control

### C) Hand control

- a. Brake controller for remote control of SMART BRAKE, 15m radius from brake unit

### D) Brake trigger

- a. Control to mount on top of ski pole, 15m radius from brake unit

## E) Accessories:

- a. USB Charger
- b. Packaging: SMART BRAKE is supplied in an environmentally friendly box

## SAFETY

---

SMART BRAKE is a result of proprietary technology developed and tested since 2010. Our first product line was released to the market in 2016 and is used by customers in more than 15 countries. The product is approved by the Norwegian Welfare Administration (NAV) as activity aid for disabled.

SMART BRAKE has built-in fail-safe function at low battery or signal failure. The brake is activated for controlled braking and stopping. SMART BRAKE will have secondary brake systems on most applications (e.g. bicycles).

## ROLLERSAFE

---

SMART BRAKE Technology is developed in Norway by RollerSafe AS. Our dedicated team consists of experienced industrial designers, engineers and programmers. We cooperate closely with users, therapists and equipment suppliers within mobility and sports. RollerSafe has won several awards for innovative design. Product assembly, sales and warehousing take place in Son, Norway.

The company's vision is to enable more and safer activity within mobility and sports for users of all ages.

## CONTACT

---



(+47) 64 95 94 44



post@mysmartbrake.no



Slettaveien 18, 1555 Son – Norway



[www.mysmartbrake.com](http://www.mysmartbrake.com)