

Categorie Premio

Accessibilità

Sostenibilità

Qualità della vita

**Nome Prodotto**

Walking Assist Device

**Progettista**

Honda Motor

**Azienda produttrice**

Honda Motor

**Indirizzo completo**

No. 1-1, 2-Chrome, Minami-aoyama  
Minato-ku, Tokyo, 107-8556 Japan

**Telefono**

Corporate PR +81 03 5412 1512

**E-mail**

**Sito Web**

<http://www.hondanews.com/>

**Distributore in Italia**

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**Indirizzo completo**

Via/Piazza..... n°.....  
CAP..... Città ..... Prov. ....

**Telefono**

**E-mail**

**Sito Web**

**Referente**  
per candidatura prodotto

David Iida

**Società**

Honda Motor Co.

**Telefono**

+81 313-655-5617

**E-mail**

david\_iida@ahm.honda.com

**Referente**  
da contattare in caso di  
esposizione del prodotto

**Società**

**Telefono**

**E-mail**

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**Descrizione dei contenuti dell'innovazione**

- categoria merceologica
- tipologia di prodotto
- particolarità formali e funzionali
- problematiche risolte dall'innovazione
- categorie di utenza a cui è rivolta
- campo di applicazione

Walking assist device which could support walking for the elderly and other people with weakened leg muscles. Designed for people who are still capable of walking on their own, with a goal to provide more people with the joy of mobility  
 The compact design of the device was achieved with flat brushless motors and a control system developed by Honda. It has a simple structure that consist of an hip frame and two thigh frames. In addition, a simple design to be worn with a belt around the hip and thigh was employed to help achieve overall weight as light as approximately 2.8kg. The thigh frames can be detached/attached to the motors with one simple step. As a result, the device reduces the user's load and can be fit to different body shapes.

**Descrizione delle specifiche tecniche**

- funzionamento
- descrizione della tecnologia

The cooperative control technology utilized for this device is a unique innovation achieved through the cumulative study of human walking. Applying cooperative control based on the information obtained from hip angle sensors, the motors provide optimal assistance based on a command from the control CPU.

Flat motors (actuators) are located on both ends of the hip frame, which is connected to the right and left thigh frames. Torque generated by the motors is transmitted through the thigh frames when the user moves their thighs forward and backward while walking. With this assist, the user's stride will be lengthened compared to the user's normal stride without the device and therefore the ease of walking is achieved.

Lithium ion battery/ 22.2V-1Ah

Operating time per charge: 2 hours (when operated at 4.5km/hour walking). Recharging time is approximately 60 minutes.

**Dimensioni**

3 sizes (Small, Medium, Large)  
 Distance between motors (S)312mm,(M)342mm,(L)372mm  
 Weight: 2.8 Kg (Medium size)

**Materiali**

**Certificazioni**

**Benefici per l'ambiente**

**Benefici per la persona**