

COSMO ROBOTICS

Infants overground powered exoskeleton for rehabilitation

Bambini Kids

The first Wearable Rehabilitation Robot for Infants in Korea



User height
75cm ~ 115cm



User Weight
UP to 30kg



8 Ankle motors in total
Dorsiflexion, Plantarflexion



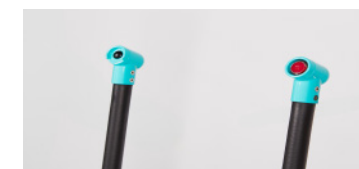
Active & Passive
Applicable to both severe & mild patients



Various walking modes
Walking in place, squat, walking, walking sideways, walking backward



Customized walking patterns
Adjustable stride, height and speed



The Bambini Kids is the first pediatric wearable rehabilitation robot in Korea designed for preschool children with neurological disorders who experience difficulty walking.

This groundbreaking device supports various gait modes, allowing young children to experience different movements from an early stage and receive efficient gait training.

As the first ground-walking rehabilitation robot in Korea to be equipped with 8 motors, it features an ankle motor that enables a more natural and proper walking pattern. Additionally, it provides side-walking and backward-walking training modes, making it an innovative solution that effectively contributes to improving gait ability.



Equipped with a walking mode specifically designed for infants and toddlers

- Various walking modes available, including Walking in place, squat, walking, walking sideways, walking backward
- Preschool children with gait disorders can experience proper and precise gait training from an early stage

Fast and easy size adjustment, donning and doffing

- Adjustable based on calf length (Adjustments available for the pelvis, thighs, and calves individually)
- Quick and easy doning with a one-touch buckle application
- Wearable within 3 minutes after size adjustment, and removal within 30 seconds

Equipped with a total of 8 motors, it enables efficient gait rehabilitation training

- As the first ground-walking rehabilitation robot equipped with 8 motors, it enables a more natural and precise gait pattern
- An ankle motor enables natural gait therapy from heel to toe through dorsiflexion and plantarflexion movements
- Infants and toddlers with severe gait disorders can use the passive mode, while those with mild gait disorders can use the active mode, allowing a wide range of children to use it with high satisfaction

Enhanced walking stability with dual-stop functionality

- In case of an emergency during walking, therapists can immediately stop by pressing the emergency stop button
- Equipped with an instant stop feature upon detecting severe resistance, such as extreme rigidity during walking, enhancing safety for unexpected situations during gait therapy