



# Magnetic Adaptor System



Human needs, not special ones ... Tactee® helps you in a simple way!

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#### What is it?

The Tactee® system is a set of assistive devices designed to restore autonomy and independence in daily activities of people with mono or bilateral functional grasping deficits that aims to improve their quality of life.

Nowadays people suffering from pathologies such as tetraplegia, hemiplegia post stroke, multiple sclerosis or all those morbid events involving a functional grasping deficiency require intensive care of various figures such as therapists, family members and/or caregivers to carry out their everyday activities.

The Tactee® system returns functional autonomy and independence in different daily activities such as eating, drinking, writing, etc.; eliminating the caregiver who·s been considered indispensable so far.

This is possible thanks to a series of tools which are useful for performing various functions, coupled to a grip element that is worn to the hand, that allows hooking and unlocking and that can replace the various tools in an easy, fast and autonomous way.

The system, with 3 different grasping element sizes, includes special cutlery and adapters that make possible to use them with various common items such as pens, toothbrushes or razors and so on.



## The patented magnetic adaptor system for a functional grip

A functional grip is essential to be able to manage your daily activities independently. The functional grip can be lost completely or partially, after neurological injuries, stroke, MS, tetraplegia or other disabilities. The result will be a lower quality of life and less independence.

Tactee is a new adapter system with magnets that provides new opportunities to create a functional grip. The system was developed by the engineer Daria Tirone and physiotherapist Federico Veneziano from Turin in Italy. Federico saw daily the need to restore the functional grip and to improve the quality of life for his patients in his rehabilitation clinic. Since there was no available functional system they decided together to develop one together with the Polytechnic University of Turin. That's how Tactee, the first magnetic adapter system was born.

## Strong attachment - with simple application of tools.

Tactee consists of a hand adapter with three strong magnets that are placed next to each other with flexible joints between. The linear position of the magnets provides a secure and strong attachment. The joints between provides a unique advantage when you want to remove the tools attached to the adapter. By angling the first magnet and at the same time fixate the tool it's easy to roll off the two other magnets from the tool. This makes it easy to teach the patient both to attach and to remove the tool.

The adapter has a flexible strap made from polyurethane that makes it both hygienic and easy to close the adapter using the mouth. To secure the adapter further there is a thumb strap that prevents the adapter from sliding off the hand once loaded. There is also a dorsal pad that have less soft tissue.





## **Specifications**



Small Medium Large

190mm - 220mm 210mm - 240mm 230mm - 270mm



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#### FAQs

#### To whom is it useful?

The Tactee® system is composed of a set of magnetic coupling elements designed for those suffering from upper limb disorders and affected by a mono / bilateral functional hand grasp deficit. It can be used in case of the main pathologies of the central nervous system, such as tetraplegia and post-stroke hemiplegia, multiple sclerosis or cerebral palsy and also for

pathologies of the peripheral nervous system of traumatic or iatrogenic origin. Considering pathologies of orthopaedic origin, however, we refer to Rheumatoid Arthritis and all those situations where amputations of several fingers have become necessary.

#### Does it need maintenance?

All the elements that compose the Tactee® system don't have electronic neither "complex" parts, so their maintenance is extremely simple. Each tool can be washed by hand with hot water and neutral soap or in a dishwasher.

N.B. If the grip element is washed in the dishwasher, it is recommended to remove its cushion.

## What safety distance should I keep from my devices?

There are many objects that react to static magnetic fields generated by permanent magnets. Some devices are only temporarily affected, others may be permanently damaged.

#### Recommended safety distances:

- Pacemakers: not recommended
- Camera, cellphone, smartphone: no risk
- Car key: no risk
- USB key, memory cards: no risk
- CD, DVD: No risk
- Magnetic card (credit card, cash machine, bank card): 5cm distance
- Mechanical clock, anti-magnetic, under ISO 764 regulation: 10cm distance
- Mechanical anti-magnetic clock: 57cm distance
- Acoustic artefacts: 6cm distance

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