



Reach your potential

Personal robot Jaco



- *Jaco makes it possible to eat independently*

- *More autonomy through large range*

## Reach your potential

Personal robot Jaco is a personal aid for people unable to use their hands. The robot takes over all daily actions that the user cannot carry out independently. Jaco is fitted to the wheelchair and can be efficiently operated by its user. The number of actions that can be undertaken with Jaco is virtually limitless. Extremely important are the daily activities that allow people to function independently. Jaco can help with eating and drinking, picking something up, kitchen chores, turning an appliance on and off.

Jaco is intended for persons who cannot make use of their hands. If there is any use in the hands, this is so minimal that simpler aids (such as dynamic arm support) offer no solution. Users are often people with advanced muscle diseases or serious neurological disorders. Its use requires sufficient understanding and sufficient vision.

### Development

Jaco was developed by Kinova in Montreal, Canada. Focal Meditech used its previous experience and collaborated closely with Kinova to develop it further. This largely concentrated on the operation, the mechanical integration with the wheelchair, the electronic integration on the wheelchair control platform and safety.

### Advice on and tailoring to the personal situation

Focal offers wheelchair integration and installation tailored to specific user needs and dependent on the wheelchair used, together with instruction and delivery. This is based on a high-quality assessment procedure with all those involved followed by a tailor-made advice. In various countries, Focal acts as support point for supply and maintenance of Jaco and also supplies many additional Focal components such as pivoting and tilting mechanisms and operating systems.

### More independence

Jaco is a so-called robot manipulator, a robot intended for handling and manipulating countless objects required in daily life. Think of activities in the kitchen, eating, drinking, putting on spectacles and taking them off, picking something up, help with





- Intelligent control allows drinking in a natural way



- Jaco does not increase the width of the wheelchair and can be folded away out of sight of the user



- Operation of Jaco can be integrated in various wheelchair control systems

the computer or opening a door. Jaco makes countless daily activities feasible again. In this way, the users are often capable of spending a few hours independently at home or functioning in a day centre or workplace. Without constantly having to seek the assistance of social workers and without the need of having a third person in the house at all times. Jaco can reach and grasp objects up to 1.5 kilos. Technically, Jaco is a light-weight seven axis robot with a three-finger gripper. The accessory is fitted to a wheelchair; considerable attention is paid to an efficient positioning.

### Intuitive operation

The operation of a personal robot is by definition a challenge. Focal gained considerable experience with the operation of robots, paid considerable attention to developing new operating methods and equips Jaco with all this. Jaco can be used without requiring considerable switching and without having to consult numerous menus. The user can concentrate on moving the gripper. Use of Jaco is thus really intuitive. Jaco is light and easily transportable. The accessory can remain mounted on the wheelchair and can be used in a wide variety of places. Jaco is now recognised as a tested aid from which countless users, both at home and abroad, benefit daily.

### All the advantages in a nutshell:

- Lighter and stronger than any other personal robot thanks to the use of carbon fibres and extremely modern electronics
- Unique gripper with three fingers for better grip
- Possibility of storing repeated movements
- High individual adaptability
- Limited weight (4.5 kg) makes it easily demountable
- Exerts limited load on the wheelchair; the driving characteristics of the wheelchair are retained
- Adds hardly any width to the wheelchair; passing through the door opening is not more difficult
- Very limited energy use. The accessory can be used throughout the day
- Safe
- Various operating possibilities; individual adjustment is always possible
- Various additional components such as pivoting and tilting mechanisms are available
- Can generally be completely integrated into the wheelchair operating system
- Fast service and support from our own workshop



### Would you like to know more?

Watch the film and read more at [www.focalmeditech.nl](http://www.focalmeditech.nl) or call Focal Meditech at +31 (0) 13 533 31 03



## Solutions for people with complex care needs

Focal Meditech BV is a developer, manufacturer and distributor of contemporary devices. Devices that can make life a little better for people with a disability. The product range primarily concerns the field of mechatronics.

Focal specialises in dynamic arm supports, eating aids, personal robots, special controls and tailor-made devices.

The products meet the highest standards of quality and are the result of a close collaboration between the R&D department and device users.

Focal Meditech® is a registered trademark of Focal Meditech BV.

**Focal Meditech BV**  
Droogdokkeneiland 19, 5026 SP Tilburg  
T +31 (0) 13 533 31 03 | F +31 (0) 13 533 50 04  
info@focalmeditech.nl | www.focalmeditech.nl

**FOCAL**   
meditech

listening  
creating  
improving