



TUBUSTM one

Stay independent. Stay in touch.

Introducing TubusOne™

Making life easier

TubusOne™ is a low-tech communication tool for people with mobility disabilities in arms and hands. TubusOne™ is an adjunct for the daily routines when everyday life becomes too difficult. TubusOne™ consists of a mouthpiece prolonged with a straw. TubusOne™ is designed with the purpose of making life easier for our users. TubusOne™ is a first-in-class medical device when it comes to a mouthstick with a puffing mechanism, that makes it possible to use the mouthstick without moving the head back and forth all the time.

Easy to use

The tube and mouthpiece have to be assembled. The mouthpiece is developed with a slide-on function to smoothly slide on to the tube. After assembling the mouthpiece you can start using the TubusOne™. It does not require any software installation, which makes it simple and easy to use for everyone.



About Tubus Technology

Why we started

In 2013 our founder Lizanne Svane met Christian. Christian did not have the ability to hear and speak and was paralyzed from the neck down. One of the things he wanted the most was the ability to write his girlfriend without the help of his mom or any staff. The simple disbelief that there was no solutions to Christian's need became the kickstart of the TubusOne™ development and Tubus Technology as a startup.

Desire to make life easier

One of Tubus Technology's core values is that all people should have the same opportunities, also when it comes to using the opportunities that digital media brings along. Our mission is to enforce self-empowerment and independence by developing products that are designed to make a difference for people with physical limitations in upper limbs.

The safe choice

At Tubus Technology we are very engaged in our work and always focus on the user's need. As a customer, you get the best of both worlds: A small company's personal service and safety, combined with the quality and development that characterizes an innovative and global company. We offer first-in-class medical devices for people with physical limitations in the upper limbs.



"In Tubus Technology, we want all people to have the same opportunities despite disability"

- Lizanne, CEO Tubus Technology

How does TubusOne™ work?

TubusOne™ works by giving a light puff of air through the straw and a piston is activated. The piston releases a tip with a touch function made of silver woven fabric. The function is similar to a finger touching a screen. TubusOne™ allows users to tap and swipe on your touchscreen and gives the opportunity of performing actions with just a little puff of air.

A medical device should be as intuitive as possible to get the easiest use of it. TubusOne™ is designed with usability in mind and is simple and ready to use right away. The TubusOne™ have a modern and elegant design and weigh no more than 11 gram. The result is that it does not require any physical strength or muscle contraction besides generating recompression in the mouth. Furthermore, the light tube also makes it possible to speak while using TubusOne™.

Why TubusOne™?

Regain independence

TubusOne™ allow people to manage their own activities on touch devices without help.

Easy to use

No software installation is required. TubusOne™ works directly out of the box and is simple and intuitive to manage.

Self empowerment

TubusOne™ is specially designed for making communication, interaction, and life easier.

Stay in touch

Online and digital media becomes a bigger part of our daily lives. TubusOne™ let people stay in touch with loved ones and society.



Product specifications

Length: 33 cm
Weight: 11 gram
Colour: Black/Silver

Medical device class 1

A medical device is a product for diagnostics, treatment or easement of people with diseases, injuries or disabilities. Medical devices must be CE-marked.

CE-marking

TubusOne™ has the CE-marking. CE marking shows that TubusOne™ meets high safety, health and environmental protection requirements.

ISO-certified

TubusOne's mouthpiece production are ISO-13485:2016 certified, which is a seal of approval, that the product lives up to the international standards.

Hygiene recommendations

Mouthpiece

The mouthpiece is an essential part of the TubusOne™ and the special design has been developed to ensure a comfortable and good feeling for the user. All efforts have been used to design the mouthpiece to be able to reduce the risk of contamination.

It is recommended to replace the mouthpiece every day or whenever one of the following things occur:

- The mouthpiece is dropped on the floor
- The mouthpiece is used by another person
- The mouthpiece is in contact with animals
- The mouthpiece is in contact with contaminated areas or areas at risk of being contaminated.

General recommendations

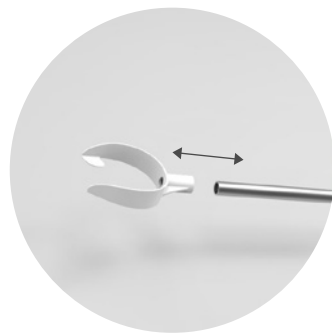
- Cleaning the tube regularly
- Replace the tip when worn out for optimal use
- Always store mouthpieces and tips carefully in the sealed packaging
- Handle TubusOne™ products with hygienic responsibility

Easy and intuitive use and replacement

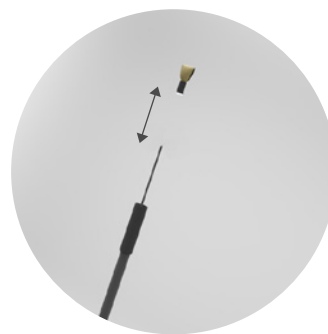
TubusOne's components are easy to clean and replace when necessary.



Cleanable aluminium tube



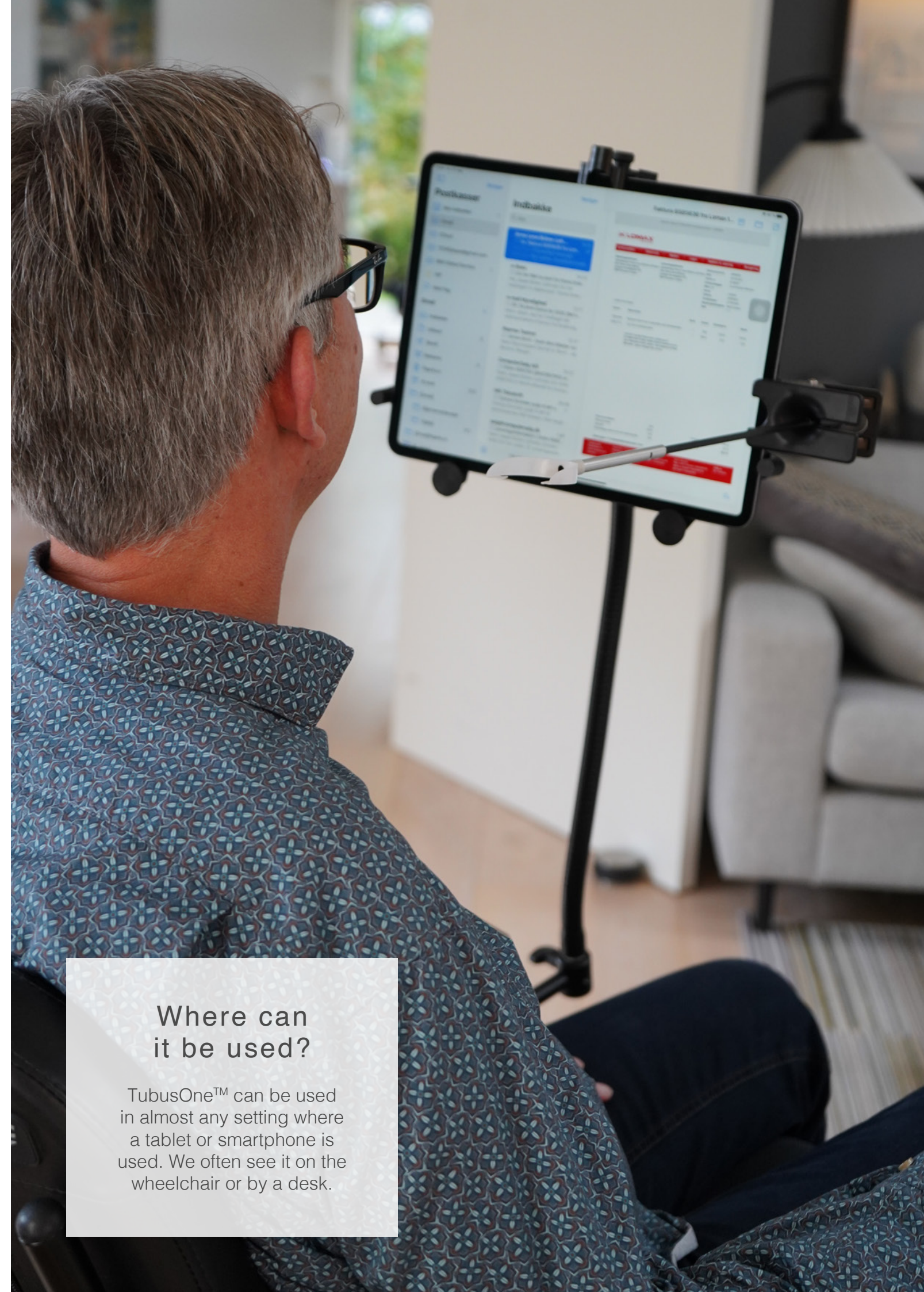
Replaceable mouthpiece



Replaceable tip

Where can it be used?

TubusOne™ can be used in almost any setting where a tablet or smartphone is used. We often see it on the wheelchair or by a desk.





USER CASE

Kirsten Langebæk

Occupational Therapist and Clinical Supervisor in
occupational therapy, Department of Spinal Cord Injuries

last updated in 2018

What do you use TubusOne™ for?

I use it for our tetraplegic patients who have reduced function in arms and hands.

How would you describe TubusOne™?

It is an impeccable device for changed living conditions. People who do not work within the field of handicap often use the phrase: “being tied to one’s wheel chair” and this is wrong: A wheel chair is the freedom to move wherever you want to go, it is independency! It is exactly the same thing with TubusOne™: From having to ask people for help to check your e-mails and other personal affairs, TubusOne™ gives you the freedom to do it yourself.

Has TubusOne™ changed something in your patients’ social or private life?

One of the biggest wishes of our patients is to be able to use touchscreens to get in touch with the outside world. Thanks to TubusOne™ they can do exactly that and even from the very moment they use it for the first time. That is unique and one of the reasons why TubusOne™ is one of the best helping devices in that genre we have had in my time as a clinician.

Some might think that your patients have worse things to worry about than having privacy on smartphone and tablet. How come “freedom” on the internet is so important to them?

Rehabilitation is about being able to do as many things as possible on your own. If you can manage your own business on the internet, you have come an extremely long way. When my patients made a phone call, it used to be their relatives or nurses who held the phone. The fact that TubusOne™ makes them able to make a phone call by themselves is a return to how things were before their living condition changed. I remember a time where

a patient had not yet ordered his own TubusOne™ and I had to take back the one we lent him. It made him furious because of the frustration he felt when he suddenly lost the freedom that comes with TubusOne™.

Tubus Technology that develops TubusOne™ uses a business model that embraces your and other users’ experiences and feedback. How has that been?

Lizanne, visited our department and demonstrated the product and answered all of our questions. It is my impression that she and her partner are highly dedicated to what they do and that they are anxious to ensure that their product has the highest standard. I really think that their motivation is the opinion that everyone is entitled to benefit from the many possibilities of communicating and exchanging knowledge through touchscreens.

Is there something you would like to share with those who consider buying a TubusOne?

The most important thing is that everyone gets to know about TubusOne™. I am positive that thousands of people around the world will experience great benefits from this device and for some, TubusOne™ will even make the difference in whether they can keep their job or not.

Is there something particularly surprising about TubusOne™?

I am indeed surprised how easy it is to use and that even children can use it. Recently there was a little girl at our rehabilitation center and she used TubusOne™ with great pleasure, I must say.

Christian Tiffert

Former naval officer, spinal cord injury

last updated in summer 2020

Who are you and what are you doing?

I'm Christian Tiffert from Rostock. Before my accident in 2012, I was a naval officer in the German Armed Forces and I also lectured at the Helmut Schmidt University in Hamburg. Today I study Law and Good Governance at the University of Rostock. In my spare time I am very interested in Russia and I have been travelling for several weeks every year for the last 3 years to this diverse and interesting country – **I give lectures about my experiences and report in my blog**. I also found a non-profit association that collects donations to support projects for disabled children in Russia. For this I also organize charity concerts from time to time.

What do you use TubusOne™ for?

I use TubusOne™, or my “Pustefix” (Fast-puff) as I call it, mainly at the university. Usually I am a fan of the Bluetooth mouse built into my wheelchair, with which I operate the computer via a mouth joystick. In situations where this is not possible or I don't have my computer, I use my tablet (iOS) or smartphone (Android) and I operate those with the TubusOne™.

Have you tried similar instruments, software or communication devices?

For my computer I use the speech recognition software Dragon – this works great on Windows but unfortunately not so well on Apple products. I use it to write my emails or navigate on my computer, for example. But I usually use a mouth joystick when I need to navigate. With this joystick I also control my wheelchair or other devices in the house like doors or lights.

But all in all it is really difficult to find suitable devices that I can use in a wheelchair and without hands. A simple example is Siri: The idea is good, but you can't end calls with Siri, for example. So if I call someone and the voicemail goes on, I can't just hang up but have to listen to the whole voicemail. Also, shops specialising in severely disabled people are sometimes quite traditional and don't necessarily have all the equipment available. So I have to research a lot on the internet.

Did TubusOne™ change something in your social or private life?

As I said, I use TubusOne™ mainly for lectures at the university. Of course I can't use speech recognition for taking notes and navigating when the professor is standing in front and wants to explain something. I can simply take my tablet and TubusOne™ with me into the lecture to switch between different legal texts, take notes and so on. This is easy, fast and completely problem-free.

When I lie in bed in the evening and thus don't have the mouth joystick from the wheelchair and my computer, I also use TubusOne™ to read, watch TV and play on my tablet. My next project is that I can control my doors and other devices from the tablet and thus also with my TubusOne™.

So my conclusion: TubusOne™ is really great. It is a real life saver for people in my situation. I use it every day and would not like to miss it.

What is your approach to life?

I always refer to my current life as a second life. After an accident like this you just know how quickly life can be over. In general, I am

interested in a self-determined life. I am out there and I show myself. I want to be visible for other people and show how rich life can be – no matter the situation. And that doesn't mean that I want any special treatment – I just want to create an understanding and live my life. I study, I go to concerts, I meet with friends – just like everybody else. I also have pain almost every day, but still I feel good. I just try to have a positive attitude and charisma so that I can continue to enjoy my life.

What would you tell those who are considering buying TubusOne™?

If you use a device with a touchscreen - which I generally recommend – then TubusOne™ is simply indispensable. I know of no other product that works so well and so easily on tablets and smartphones. Simply great. And don't let the insurance companies put you off – they often categorically reject requests for aids. Then you just have to file an objection. It's annoying, of course, but in the end it's usually successful.



Image by Ove Arscholl via Ostsee-Zeitung, Ein Mann mit Mission: Christian Tiffert aus Rostock fährt im Rollstuhl durch Russland.



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