



exomotion®
HAND / ONE

Patient Information Brochure

Reimbursement

By Statutory Health Insurance Providers

An increasing number of major German Statutory Health Insurance Providers are already reimbursing the cost of the exomotion® hand one, and this is also true for company health plans as well as Private Health Insurance Providers. Please contact us for detailed current information.



Holding a glass with the exomotion® hand one

Your orthopedic technician will handle the claim paperwork for you and support you until your health insurance provider covers the reimbursement of your exoskeleton or you will receive information where to go for further help.

Should your health insurance provider initially reject your claim for the exomotion® hand one, you have the right to appeal that decision. This does not have to be a formal request, but it must be filed within four weeks of the date of rejection. Often, health insurance providers recommend an initial temporary trial orthosis or approve such an orthosis after an appeal has been submitted.

Prescription wording

For the exomotion® hand one

These wordings may help your doctor in writing a prescription that will proceed smoothly through the process.

When only prescribing the exomotion® hand one (with good upper arm function):

Custom-fit modular electric [side] hand exoskeleton exomotion® hand one system and arm brace exomotion® hand one. [Diagnosis]

When prescribing the exomotion® hand one with elbow support (in impaired upper arm function):

Custom-fit modular electric [side] hand exoskeleton exomotion® hand one and upper arm splint with dynamic elbow joints for power-enhanced gripping and positioning. [Diagnosis]



exomotion® hand one with upper arm brace

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For the exomotion® hand one

Is this type of orthetic management for me?

Please consult a Medical and Surgical Supply Store to find out whether the exomotion® hand one might be an option for you. For a list of our orthotics partners, please visit our website: www.hkk-bionics.de/en. The following points outline the requirements that should be met:

- You do not have a cardiac pacemaker or deep brain stimulator
- You can straighten the joints at the base of your fingers (metacarpophalangeal joints) and bend them at least 70° using your other hand
- You can place your hand flat on a table, without effort and with the fingers extended
- You can push a glass/cup into your paralyzed hand with your other (non-paralyzed) hand
- You are willing to familiarize yourself with the operation of a technical supportive device

If you have limited flexing power in your elbow, the exomotion® hand one can be enhanced with a mechanical elbow support. Here, too, one of our orthotics partners will gladly advise you.

Treatment examples

Possible causes of paralysis

- Lower brachial plexus paralysis
- Stroke
- Multiple sclerosis
- Polyneuropathy
- Craniocerebral trauma
- Spinal muscular atrophy
- Cervical paraplegia (complete or incomplete)



Read more about our patient Helmut.

Workflow

5 steps to the orthosis

Fitting the exomotion® hand one requires a total of at least 5 visits with one of our orthotics partners

1. Visit
 - 1.1 Medical history
 - 1.2 Sensing for EMG signals
 - 1.3 Agreeing on treatment protocol
2. Plaster cast visit
3. First fitting
4. Final fitting
5. Follow-up

It may take 24 weeks and longer from prescription through reimbursement for the first fitting.

The product is marketed solely by selected technical orthopedic specialists. Please visit our website for a listing of our orthotics partners.



Color chart

The exomotion® hand one is manufactured in the color of your choice. Whether bright green or subtle grey, (almost) anything is possible.



The exomotion® hand one in bright green

General information

Product & Operation

Did you know that the exomotion® hand one, a hand orthosis in complete paralysis of the hands, helps in both strokes as well as nerve injuries? The drives ③ operate artificial tendons. ② These tendons then extend and flex the external exoskeleton. ① Thereby allowing you to grip everyday objects such as glasses, knives and forks, bags, and doorknobs. The fingerstalls ④ and the brace ⑤ are customized for you by your Medical and Surgical Supply store so that they fit perfectly. The large rechargeable battery gets you through the day and, if it should suddenly start raining, the splash guard of your exomotion® hand one will provide plenty of protection.



Control unit for selecting the gripping pattern

How is the exomotion® hand one controlled? Control is via a muscle that is still active. If the affected arm no longer has any muscle activity, the active muscle may even be located on the chest or back. This allows the fingers to open and close in two different gripping modes. The compact operating unit allows the user to quickly choose from six different gripping modes.

The compact control unit allows you to customize the control settings and preselect the six gripping patterns. The six gripping patterns are fist grip, thumb grip, three-finger grip, two-finger grip, mouse grip, and keyboard grip.