



exomotion®
HAND / ONE

Brochure for orthopedic technicians

Arguments

For reimbursement

- Diagnosis in writing
- Reference to the medical objective of the custom-fit exomotion® hand one exoskeleton according to the instructions for use and its indication (matching the diagnosis). Citing the lack of medical/therapeutic alternatives.
- Other direct compensation of the disability is only possible with amputation and prosthesis, both fraught with higher cost and health risks
- Lack of technical alternatives
- Relief for the often overloaded healthy hand
- At present, we are not aware of any assistive aid providing the same level of disability compensation in paralyzed hands.

Reimbursement

By 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.



Please email us if you need a detailed patient history form.

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 system with passive elbow brace for exomotion® hand one and upper arm splint with dynamic elbow joints for power-enhanced gripping and positioning. [Diagnosis]



exomotion® hand one with upper arm splint

Contact

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Inclusion & exclusion criteria

For orthetic management

Indications

Primarily distal plegia or paresis of the upper extremity (uni-/bilateral) with no residual grasping function.

Favorable conditions

- Paralysis of the internal and/or intrinsic muscles of the hand
- Adequate residual EMG signal in the proximal forearm for orthetic control
- Primarily flaccid paralysis; in spastic paralysis max. spasticity grade 2 on modified Ashworth scale
- Good range of movement in MCP joints 2 to 5 (ext. 0°, flex. at least 70°)
- Good elbow function allowing hand-mouth contact
- Stable shoulder joint

Most common contraindications

- Patient not of legal age
- Finger extensions not possible in neutral wrist positions
- Irritating skin disorder of the affected extremity
- Predisposition to hematomas and bleeding
- Marked edema or strong susceptibility to edema formation
- Implanted cardiac pacemaker or deep brain stimulator

Treatment examples

Possible causes of paralysis

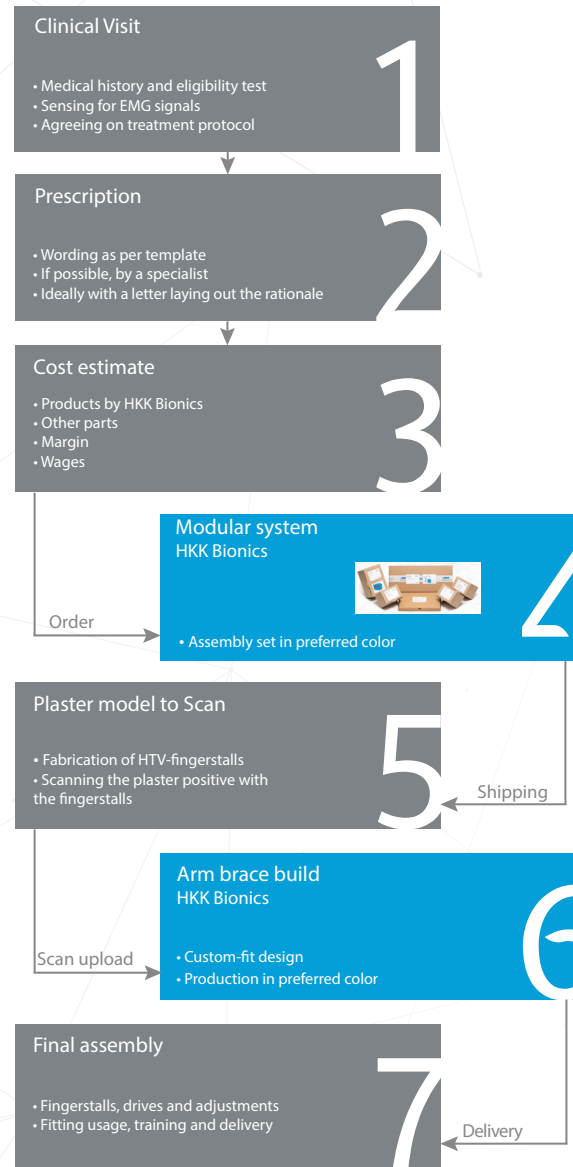
- Lower brachial plexus paralysis
- Stroke
- Multiple sclerosis
- Polyneuropathy
- Craniocerebral trauma
- Spinal muscular atrophy
- Cervical paraplegia (complete or incomplete)



Read more about our patient Helmut

Workflow

7 steps to the orthosis



Fitting the exomotion® hand one requires a total of at least 5 appointments.

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

Total cost

Trial and definitive orthosis

Fundamentals of both orthetic options:

Fitted parts + material + margin + wages

Trial orthosis (without elbow)

Modular system incl. trial brace for 3-month trial plus wages for approx. 40 hours (depending on billing rate)

Starting at EUR 20,000 net (example of price)

Definitive orthosis (without elbow)

Modular system incl. trial splint, definitive arm brace, extended warranty, plus wages for approx. 40 hours (depending on billing rate)

Starting at EUR 42,000 net (example of price)

Test cost of the trial orthosis can be credited toward the cost of a definitive orthosis.

General Information

Product & operation

The exomotion® hand one exoskeleton can be used as standalone or combined with an upper arm orthosis for mechanical elbow support. Our website and the specific brochures for healthcare.

Requirements

For your business

- Training course by HKK Bionics GmbH
- HTV silicone workshop (qualified staff, climate control, roller etc.)
- 3D scanner (Artec Eva quality or similar, tablet scanners are inadequate)
- Experience in handling myoelectric systems, e.g., prostheses
- Optional: In-house design, 3D printing experience