

**Gripability**  
empowerment  
and inclusion



empowerment and inclusion  
by means of  
facilitation and therapy  
with Gripability equipment

a brochure for specialists

assistive technology in the field of facilitation and therapy



### Gripability x.hand

Gripability x.hand is a non-moving electro-pneumatic aid for gripping, holding and positioning objects.

Through its wide ranging adaptability this easy-to-use aid enables teachers and therapists to greatly enhance the learning and empowerment process.

The x.hand's pneumatic gripping devices are mounted to a sturdy frame and can be easily positioned to suit the individual. Both the gripping module and the frame are fully adjustable to allow high flexibility of positioning, holding of objects and gripping of different utensils.

The x.hand system is simple to operate. It is compatible with rehab switches and allied products, making it highly adaptable and enhancing even the abilities of children and youths with cognitive limitations.



### Gripability e3

Gripability e3 is a mobile electro-pneumatic gripping aid which enables children and youths with restricted or missing hand-function a wide active participation in facilitation, therapy and learning environments.

The user is provided with a small electro-pneumatic grip which is easily fixed to the hand, head or other part of the body as individually adapted. Adjustments are quick and simple to make, enhancing the motivational, creative and playful aspects of study and therapy time.

The e3's strong adaptability provide the individual with the possibility to have the flexibility to use this system in both school and private environments, greatly enhancing self-confidence, productiveness and motivational positivity.

# Gripability

empowerment  
and inclusion

new prospects for empowerment and inclusion concepts



With regard to empowerment and inclusion Gripability x.hand and Gripability e3 provide a high potential on facilitation, therapy and learning possibilities for children and youths with physical disabilities and/or requirement for special educational needs.

By using this assistive technology despite of functional and motoric limitations in gripping, holding and reaching they can, in an activity related therapy or learning process, realistically come to learn and experience essential knowledge, ways of behavior as well as essential coherences between creative and technical mental activity and practical performance.

The in everyday life just as in the school and therapy routine with Gripability aids feasible possibilities of compensating a physical impairment disclose not yet achieved rooms to manoeuvre and prospects for empowerment and inclusion concepts.

## x.hand



### **Empowerment and Inclusion through assistive technology**

Gripability x.hand is a technical aid, which helps children and youths with limited grip and/or coordination ability as well as a restricted operation area to actively take part in numerous learn situations.

Thereby, the spectrum to act at their own will is tremendously enhanced for these children.

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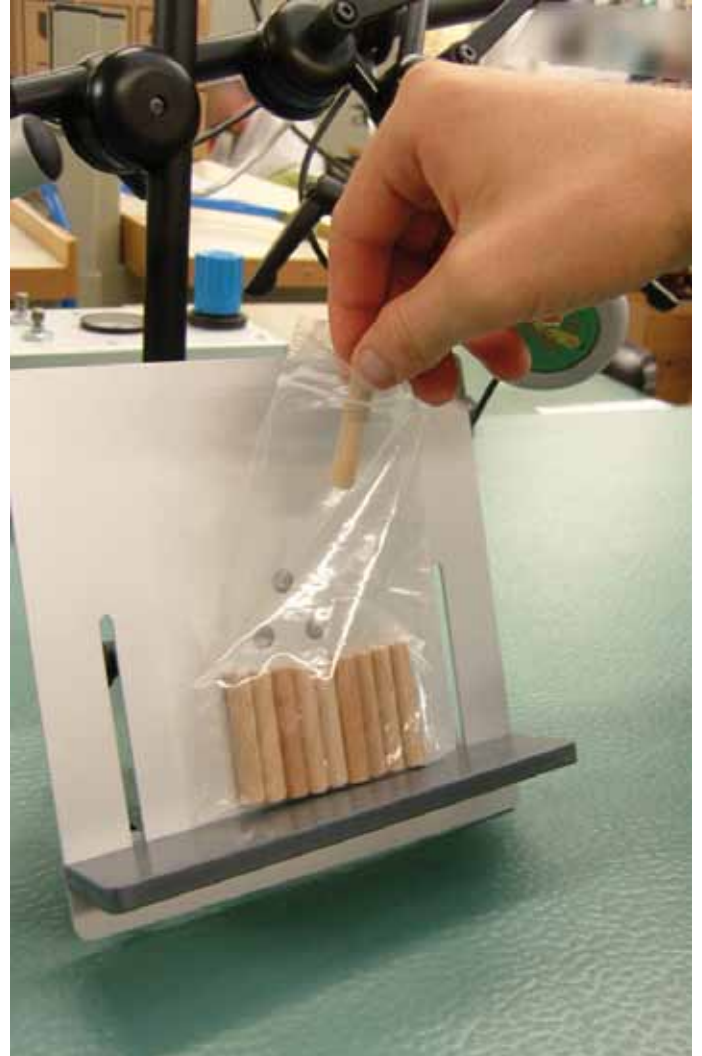
## Adaption to individual requirements within a realistic timeframe

Using the x.hand construction kit teachers and therapists are easily able to set up a substitution for an individual's restricted grip, coordinative abilities, limited reach or as required for his or her specific needs.

Along with use within schools for children and youth with special needs and assistive therapy it is also ideal for use in sheltered workshops as a working aid, providing familiarization within a working environment from an early stage.

Opening up new vocational opportunities, especially to students with severe physical impairments the Gripability x.hand is an exemplary innovation in the path to work and inclusion in society.

## x.hand



### Facilitation and therapy regarding the working world

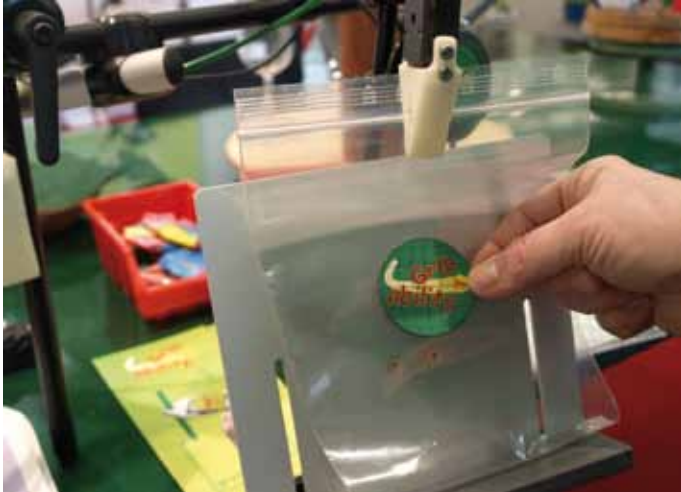
A particular aspect of the Gripability x.hand is that, besides its application within the field of special-needs schools and assistive therapy, it is also used in sheltered workshops as a working aid.

This way children and youths can become familiarized with situations of their future working life at a very early stage.

Concerning the development of vocational perspectives this opens up new chances especially to students with severe physical handicaps.

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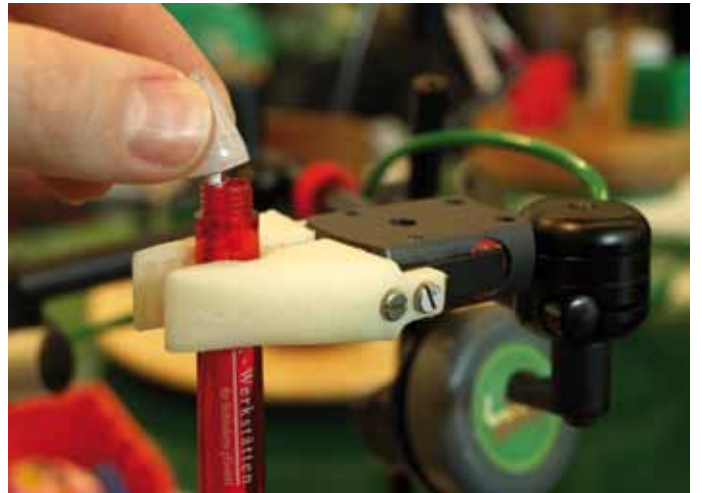
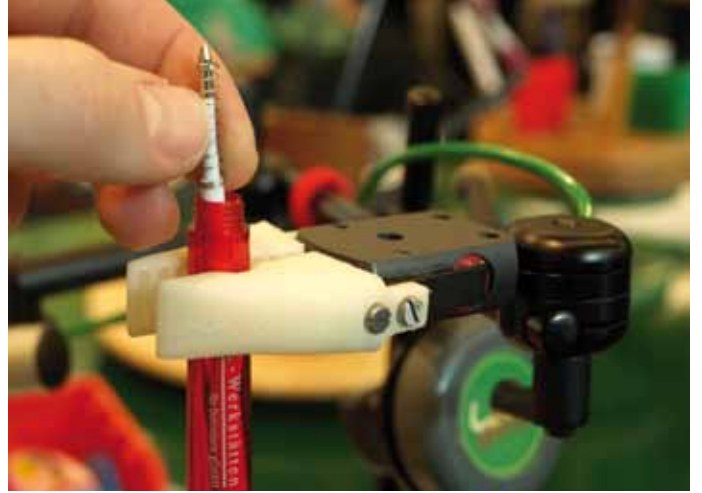
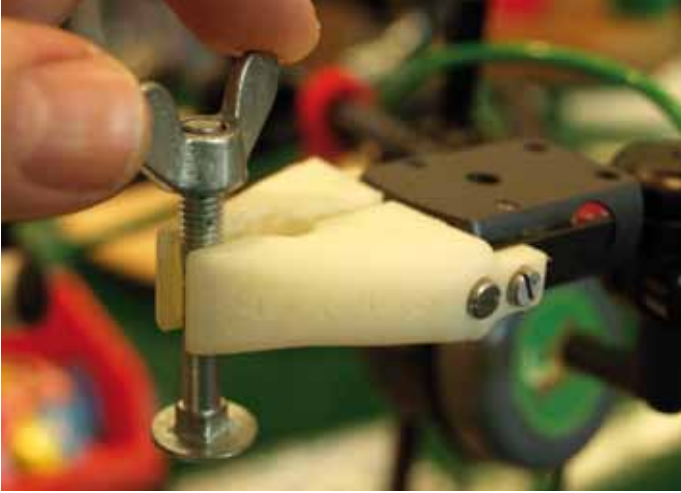
## Getting acquainted with the use of new technology

An educational program of every school - getting familiar with and becoming capable in handling technical devices - can be ideally realized by using Gripability products.

Thus, a fundamental confidence regarding new technologie, which awaits young people in their working life, can be developed.

And a basic technical understanding about development, operation, assembling (structure), technology, use and outcome of technique in a social and natural environment is imparted.

## x.hand



### Encouraging and training physical and motor skills

An important value of working with Gripability systems is its encouragement of physical activities in the promotion of fine motor skills and the training of coordinative abilities.

Highly adaptable into multiple configurations the Gripability x.hand allows children and youths to independently or with the support of teachers and therapists, perform an individual step-by-step training of their physiological abilities.



further possibilities...

### **Positive motivational effects due to diversified activities**

The field of action carried out by a student with disabilities can be significantly extended through working with a Gripability x.hand.

Also the productiveness is in the various fields of duties, clearly noticeably for the user, increased.

These factors decisively influence his/her motivation positively.

### **Developing self-confidence and joy in learning by being creative**

By using Gripability products, e.g. a student, can be offered multiple learning occasions beyond his/her previous possibilities individually adjusted to his/her requirements: he/she can hold and grasp things and thereby get a grip on the world.

Diversified learn situations in which students experience themselves as successful, playful and creative action and work, all this leads to develop self-confidence and delight in learning.

### **Emphasising ego and self-concept development to facilitate an “I can” attitude**

Students make contact with the technical and social comforts of modern society. This nurtures their power of judgement, their decision-making ability and their capacity to act.

Handling new technologies combined with the thereby gained ability to do things independently, create self knowledge, form a concept of values and prepare for a mature participation in civil society.

Job and occupation define self-respect and determine ones position in society.

Gripability products are exemplary innovative in the field of »assistive technology« and consequently solely from this perspective the ideal working equipment for empowerment and inclusion processes.

e3



### **Expanding an individual's operating and performing opportunities**

Through new Gripability e3 technology, teachers and therapists are able to develop the teaching and therapy of children and youths with impaired motor and physical development, expanding their handling and performing abilities.

Thereby making it possible to accomplish facilitation, therapy and learning situations that are suitable to build up confidence and self-respect in young people, regarding the recognition and experience of their individual skills.

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## Psychometric facilitation despite extreme bodily limitations

The numerous compensating possibilities for bodily impairments achieved with the use of Gripability e3 allow independent physical activity even for children and youths with severe disabilities.

Motional and perception impairments are offset, strengthening emotional and social stability, leading to increased self-confidence and reliance.

e3



**Activity and body related educational concepts - e.g. bilateral work in vocationally oriented activities.**

Employing Gripability technical devices provides an innovative approach to the access to new technologies in an activity and physical related form of education.

The numerous ways of compensating gripping and holding disabilities provide both the facilitation and therapy of coordinative motor skills and make specific activity cognition possible.

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## Assistive technology as inspiration and motivation

The field of artistic expression is diverse. It encourages children and youths to be inventive, to create and to express themselves.

This is invaluable to personal development.

Through the flexibility of Gripability even children and youths with severe physical ability are able to explore new boundaries of activity, stimulation and communication.

e3



### **Facilitation and therapy with new technologies**

Using Gripability, teachers and therapists have the technical possibilities, to offer practice and learning programs that are individually adapted to the special needs of many children and youths with physical disabilities.

In modern society the use of innovative technical aids increasingly gains importance in the process of facilitation, therapy and education of young disabled people.

further possibilities...

## **Developing experience-orientated and experimental situations for self guided learning**

Learning is an individual process. By using Gripability e3 assistive technology young people with cognitive, functional and motoric limitations can, through repetitive courses of action be introduced to specific methods of facilitation, therapy and teaching, shaped to their personal needs and goals.

## **Practice-oriented development of innovative didactic-methodical concepts of work at and with new technologies.**

The potentials of children and youths with physical and coordinative facilitation and therapy needs as well as their approaches to different topics and contents are most individually shaped.

Facilitation, therapy and teaching is often only possible, when principles of individualization are considered.

Empowerment and inclusion concepts can here only be developed on a basis of personal conditions and individual needs.

Learning processes require action, observation and redundancy, thus elaborate repetition as well as operative practice and they must be linked to reality.

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»the art of handling things«

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