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MANUFACTURER | ERHEM Sp.j. 39-200 Debica, ul. Puszkina 6 | www.erhem.pl

### Modern orthotic solutions for kids

### Complete offer

Erhem offers a wide range of orthopedic supplies for children of all ages - from the youngest to older children requiring specialized support.

### Serial and individual production

In addition to serial products, we also manufacture individual products tailored to the specific needs of the patient.

### Personalization at the highest level

Custom orthoses are created based on precise measurements and consultations, ensuring optimal fit and therapeutic effectiveness.

### Ordering procedure

For custom products, please contact Customer Service, which will direct you to the nearest service point and assist you with your order.



Measurement cards and transfer paper template

Scan to download or visit erhem.pl/archiwa/file





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HIP TO MOVE SERIAL

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SERIAL



### **SNAKE SYSTEM**



### Innovative orthopedic braces

Snake System is a line of braces designed to correct congenital defects of the forefoot, tarsus, and ankle joint. These products are intended for children of various ages.



Orthoses are available in various models, tailored to the patient's age and the severity of the condition. They can be used at any stage of treatment.



#### **EFFECTIVE CORRECTION AND STABILIZATION**

Orthosis models provide stabilization and correct the position of the foot and ankle joint, restoring proper biomechanics.



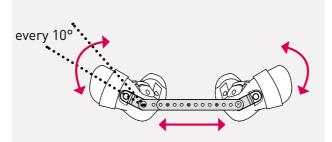
### **ADVANCED MATERIALS**

Orthoses are made of lightweight, flexible materials that ensure comfort and minimize the risk of irritation They help control pathological gait patterns.



#### IMPROVED TREATMENT RESULTS

The Snake System supports rehabilitation and improves patients' quality of life by providing effective stabilization and correction of deformities.



#### **ERH 49/6**

The combination of orthoses with a splint allows for rotation adjustment for the right and left sides in 10° increments and adjustment of the orthosis width to suit the patient's dimensions.



### **ERH 49/5.STARTER**

It is designed for the youngest patients. It ensures constant abduction of the forefoot and slight dorsiflexion of the foot. Its purpose is to maintain the range of motion achieved during treatment with corrective casts.



### **ERH 49/5.REGULAR**

It is designed for older children. It allows for the use of adjustable joints, enabling gradual adjustment of the ankle and forefoot.

# ERH 49/6

SNAKE SYSTEM

INDIVIDUAL

#### **APPLICATION**

- Clubfoot.
- Valgus foot.
- ► Torsional deformities of the lower limbs.

Orthotic

#### **IMPACT**

- ▶ The splint corrects the position of the feet in relation to the lower leg.
- ▶ It allows for adjustment of external rotation and abduction of the feet.

■ The Denis Brown splint consists of a spreader bar and specialized foot orthoses. The spreader bar allows for adjustment of the splint width and control of external rotation and abduction of the feet. Dorsiflexion of the feet is achieved thanks to orthoses that take into account a 10° tilt of the shin, ensuring effective correction.



INDIVIDUAL

C€ MD



SERIAL

► SERIAL PRODUCT NAME: ERH 49/6 Denis-Brown splint

SIZE	MODEL
SPLINT WIDTH	with STARTER orthoses 17-27
MIN-MAX (cm)	with REGULAR orthoses 28-36



## ERH 49/5.STARTER

SERIAL

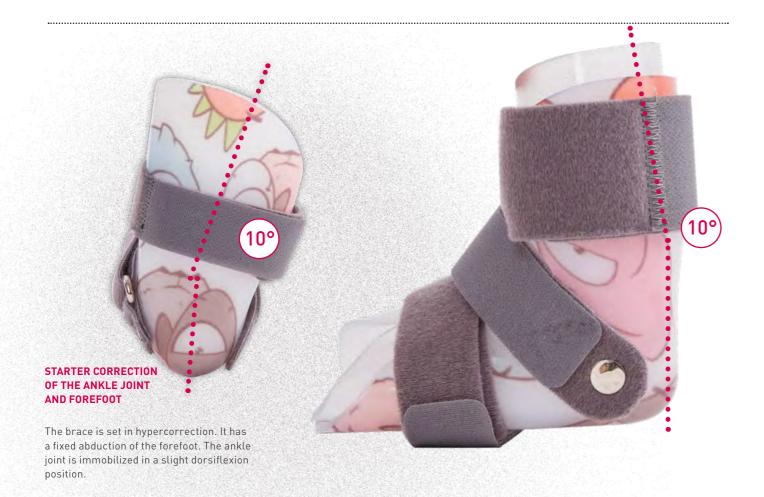
■ The brace is designed for the youngest patients immediately after the completion of treatment with plaster casts. Its main purpose is to maintain the range of motion, in particular dorsiflexion of the foot and abduction of the forefoot achieved during treatment with corrective casts.

#### **APPLICATION**

- Clubfoot
- Adducted forefoot
- Congenital foot deformities
- ► Congenital metatarsus adductus
- Heel adductus

#### **IMPACT**

- ▶ Static, resting orthosis.
- ▶ Corrects adduction of the forefoot, supination of the calcaneus, and dorsiflexion deficit of the ankle joint.



#### INDIVIDUAL

DAFO with AFO orthosis for correcting axial disorders in the frontal plane



### SERIAL

Foot and ankle brace ERH 49/5 Tutor immobilizing and correcting the foot and ankle joint

· · ·	M	L
(8*) 9-11 (12*)	(10*) 11-13	(12*) 13-15
	(8*) 9-11 (12*)	[8*] 9-11 (12*) (10*) 11-13

C€ MD

Upper limb

## ERH 49/5.REGULAR

SNAKE SYSTEM

INDIVIDUAL

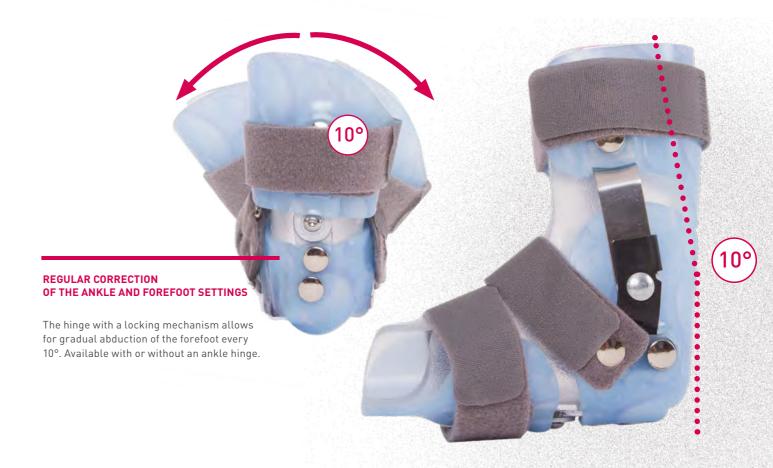
└ The brace is designed for older children. This version is equipped with adjustable joints that allow for gradual adjustment of the ankle and forefoot.

#### **APPLICATION**

- Clubfoot
- Adducted forefoot
- Congenital foot deformities
- ► Congenital metatarsus varus Heel varus

#### **IMPACT**

- Static, resting orthosis
- ▶ Corrects adducted forefoot position, supination of the calcaneus, and dorsiflexion deficit of the ankle joint



### INDIVIDUAL

▶ NAME OF CUSTOM-MADE PRODUCT: AFO shin and foot brace AFO Joint plus







■ SERIAL PRODUCT NAME:

Foot and ankle brace

ERH 49/5 Immobilizing and corrective brace for the foot and ankle joint

	SIZE	S	М	L
1 42	FOOT LENGTH IN CM	12-14	14-16	16-18
	VERSION FOR RIGHT OF	LEET FOOT		

ERHEM









## **PROSTARTER**

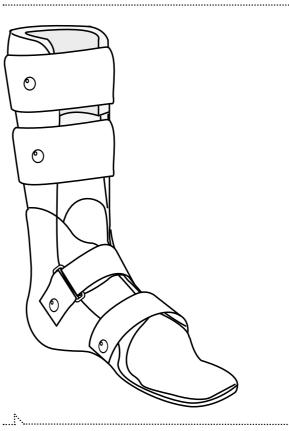
DAFO.CLASSIC

( AFO.EXTRA LONG )

INDIVIDUAL

- **APPLICATION** ■ Cerebral palsy
- Spinal meningocele
- Poliomyelitis
- Traumatic brain injury
- ► Fractures and their complications
- ${\bf \llcorner}$  Orthopedic injuries of various etiologies
- **▶** Condition after orthopedic correction

Orthoses designed to provide an initial, quick, and economical solution for patients with specific needs.





- ullet Immobilizes the ankle joint in an intermediate position. PF block, DF
- Used as a resting or nighttime aid:
  - $\mbox{\ensuremath{\textbf{L}}}$  in follow-up care after orthopedic procedures, to consolidate the effects of therapy,
  - $\mbox{\ensuremath{\textbf{L}}}$  for positioning, and to prevent deformities of the ankle joint and foot.



### PROSTARTER DAFO.CLASSIC

- ▶ Does not restrict free movement of flexion and extension in the
- ▶ It corrects the position of the ankle joint and foot in the frontal
- ► It is used as a walking aid to correct:
- ▶ valgus or varus deformity due to reduced muscle tone,
- forefoot adduction,
- ankle joint instability.



INDIVIDUAL



► NAME OF CUSTOM-MADE PRODUCT: • DAFO with AFO brace for correcting axial disorders in the frontal plane • Short brace for correcting axial disorders in the frontal plane DAFO

## FO.SOFT | FO.STRONG

### INDYWIDUALNY

#### **APPLICATION** F0.S0FT

- ▶ The longitudinal arch of the foot is lowered and correction of deformities treated for flat-valgus foot is necessary.
- ► Valgus deformity of the calcaneus and abduction of the forefoot, with the possibility of passive correction.

#### **FO.STRONG**

- ${\bf {\scriptscriptstyle L}}$  Correction of the calcaneus and other tarsal bones.
- ► Excessive pronation of the foot due to muscle weakness.
- ▶ Reduction of stress on the second and third metatarsal bones.

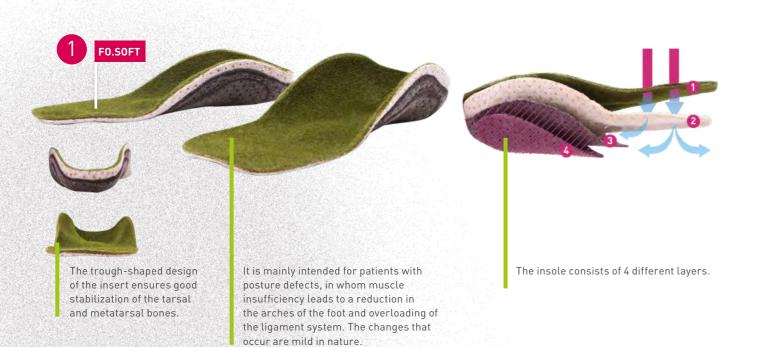
### DAFO.CLASSIC

#### INDYWIDUALNY

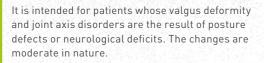
#### DAFO.CLASSIC

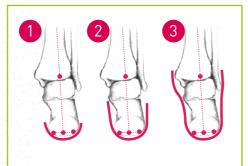
- ▶ Valgus deformity due to reduced muscle tone.
- Significant joint instability due to muscle weakness.
- ▶ Reduced muscle tone causes excessive pronation of the foot.

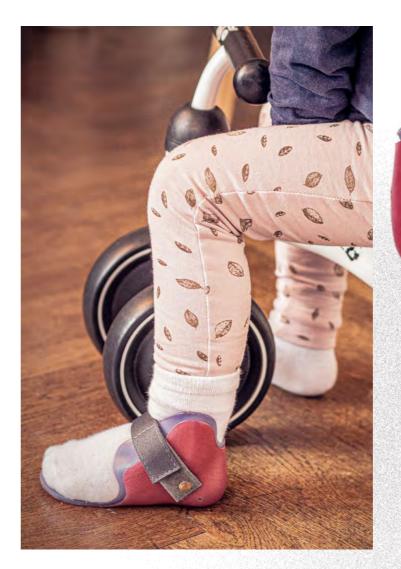
└ The FO soft, strong, and DAFO classic series orthoses are designed for children who require improvement in the static or functional conditions of the ankle joint and foot.















It allows for correction of the joint in the frontal plane without restricting the free movement of flexion and extension of the foot. It is intended for younger patients with significant changes.











INDIVIDUAL

## AFO.EXTRA LONG

### INDIVIDUAL

└ The brace has a two-layer structure, which ensures effective stabilization. It immobilizes the ankle joint in an intermediate position, limiting both dorsiflexion and plantar flexion of the foot. It correctly positions the knee, ankle joint, and metatarsus, improving the biomechanics of the lower limb.

#### **APPLICATION**

As a resting or nighttime aid for seated or wheelchairbound patients, as a preventive measure against deformities and malformations,

- ► To consolidate the effects of orthopedic and surgical interventions, To stabilize and immobilize during standing.
- Dynamic aids
- ► For patients who walk with a predominantly plantar flexion of the foot and walk on their toes.
- ▶ With increased muscle tension, spasticity.

#### **APPLICATION**

For patients who need help managing knee flexion and/or extension.

- Mild knee hyperextension
- Walking on toes
- ▶ Insufficient stabilization in both the sagittal and frontal
- ► Excessive plantar or dorsal flexion.

## AFO.DYNAMIC



(FLEX) (EXTRA FLEX)

INDIVIDUAL

Designed mainly for patients who are able to walk. It stabilizes the foot and ankle joint without restricting movement, increases rebound dynamics, and lengthens the stride. Designed for patients requiring greater dynamics than with an AFO orthosis. Available in a highly rigid FLEX version providing greater control in the sagittal plane and a more flexible EXTRA FLEX version with moderate foot positioning control.



#### THE BRACE CONSISTS OF 2 LAYERS:

enables correction of the heel and midfoot position

with varying elasticity ensures immobilization and proper stabilization during standing or walking.





The ability to relieve pressure on sensitive bone structures and overloaded areas.



The flexible element supports dorsiflexion of the foot while limiting plantar flexion.



INDIVIDUAL



C€ MD





INDIVIDUAL

MINI SINGLE enables smooth

## AFO.ACTIVE MAXI

### INDIVIDUAL

└ Orthoses enable smooth control of the shin's inclination relative to the foot. They support the effects of manual and pharmacological therapy. Adjustable hinges allow for smooth adjustment of the range of plantar and dorsal flexion of the foot. Designed for use both as a resting aid and during walking.

### **APPLICATION**

#### **POSITIONING**

- ► Immobilization of the ankle joint in any position, starting from plantar flexion to dorsiflexion of the foot.
- ► Enables verticalization and prevents deformities resulting from increased muscle tension or spasticity.

### READJUSTMENT

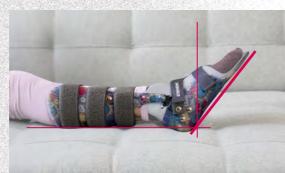
▶ Allows for gradual adjustment of the orthosis to the patient's capabilities, changes achieved as a result of manual or pharmacological therapy (botulinum therapy) or orthopedic

▶ Limits plantar flexion of the foot while leaving a full, unrestricted range of dorsiflexion.

AFO.ACTIVE MINI

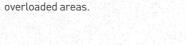
















adjustment of the shin angle. Increases the range of dorsiflexion of the foot. Limits plantar flexion while maintaining free dorsiflexion. The range is controlled by adjusting the ankle joint hinge.





correcting the adducted forefoot.

INDIVIDUAL



C€ MD

C€ MD





## AFO.NIGHT STRETCH

INDIVIDUAL

(FULL MOVE)

L It is intended for patients with limited range of motion of muscular origin. Its purpose is to increase or maintain the range of dorsiflexion with precise control of the ankle and foot. Use only as a resting aid.

#### **APPLICATION**

- ► Excessive plantar flexion of the foot,
- ► Achilles tendon contracture preventing standing
- ▶ Weak dorsiflexion of the foot due to paralysis or flaccid
- Supports the effects of manual and pharmacological therapy.



The brace is equipped with hinges that allow for full, unrestricted plantar and dorsal flexion.

> The range of dorsiflexion and plantar flexion of the foot is controlled by adjusting the length of the elastic straps.



### **APPLICATION**

► Weak dorsiflexion of the foot without knee instability (Plantar Flexion Block version)

Orthotic

- ► Increased muscle tension causing joint axis disorders (Full Move version)
- Excessive plantar flexion causes walking on toes with well-developed walking skills (Plantar Flexion Block version)

## AFO.ACTIVE

PLANTAR FLEXION BLOCK

(FULL MOVE)

■ Depending on the hinge used, the brace corrects the position of the foot in relation to the lower leg, counteracts joint axis disorders, and allows for the limitation of plantar flexion.



### PLANTAR FLEXION BLOCK (PFB)

Limited plantar flexion, dorsiflexion preserved.



### FULL MOVE (FM)

Allows for full, unrestricted plantar and dorsal flexion.



INDYWIDUALNY

C€ MD









► NAME OF CUSTOM-MADE PRODUCT: AFO shin and foot brace AFO Joint Plus

# CORRECTION OF THE CLUB FOOT





## FLAT FOOT CLUBFOOT



# CORRECT GAIT POSITIONING















Measurement cards and transfer paper template

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SEE AVAILABLE DESIGNS



ERH 45/2. VARUS/VALGUS

INDIVIDUAL

Resting brace. Stabilizes the entire lower limb in extension and has a corrective effect on the knee joint. Available in the VALGUS version for correcting knee valgus and the VARUS version for correcting lower leg varus.

#### **APPLICATION**

- ${\bf {\scriptscriptstyle L}}\,$  Knee joint axis disorders in the form of valgus or varus deformities of the knees.
- ▶ Blount's disease / tibial varum.

#### IMPACT

- ▶ Designed for daytime or nighttime use.
- Stabilizes the entire lower limb in extension and has a corrective effect.

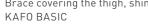


#### INDIVIDUAL

NFZ / G.04.01 KAFO bez przegubów

► NAME OF CUSTOM-MADE PRODUCT:

Brace covering the thigh, shin, and foot KAFO





ERH 45/2 Children's full-leg orthosis for correcting valgus or varus deformities

C€ MD

SIZE	XS	S	М	L	XL	
TOTAL LENGTH OF THE ORTHOSIS	25	37	47	57	62	
FOOT LENGTH	12	15	18	21	23	
ARUS OR VALGUS VERSION						



ERH 45/1.STATIC/STRETCH

INDIVIDUAL

#### **APPLICATION**

- Orthopedic injuries, sprains, dislocations, and fractures.
- ▶ Follow-up treatment after removal of conventional

Orthotic

► Therapeutic treatment for MPDz and meningocele.

### **IMPACT**

► Immobilizes the lower limb in extension.

Brace designed for use during the night or while resting. Provides stabilization and immobilization of the knee and ankle joints in extension. Aims to maintain the therapeutic effects achieved through exercise.

#### STATIC VERSION

Immobilizes the knee and ankle joints in extension without the possibility of flexion and extension. Intended for patients who can passively achieve an intermediate position.

#### STRETCH VERSION

Immobilizes the knee joint in extension. The strap pull supports dorsiflexion of the foot. Designed for patients with muscle-related ankle joint extension deficit.

#### **KNEE**

The braces do not have movable joints. The stiffeners in the lateral and rear parts of the brace allow for individual shaping.

#### **FOOT**

### 2 IN 1 SYSTEM

The orthoses can be extended to cover the lower leg or the foot section can be completely removed.





#### INDIVIDUAL

► NAME OF CUSTOM-MADE PRODUCT: Brace covering the thigh, shin, and foot KAFO KAFO BASIC

C€ MD



### SERIAL

► SERIAL PRODUCT NAME: Lower limb brace/orthosis ERH 45/1 Full lower limb brace

SIZE	XS	S	М	L	XL
THIGH CIRCUMFERENCE 10 CM ABOVE THE KNEECAP	24-30	30-38	38-44	44-50	50-54
TOTAL LENGTH OF THE ORTHOSIS	25	37	47	57	62
LENGTH OF KNEE BRACE-GROIN	8	12	17	20	23
LENGTH OF KNEE BRACE - OUTER EDGE OF FOOT	17	25	30	37	39
FOOT LENGTH	12	15	18	21	23

THE BRACE CAN EXTEND THE LOWER LEG BY 5 CM



## ERH 45/3

### INDIVIDUAL

■ The multifunctional KAFO orthosis allows stabilization of the entire lower limb or just the knee joint. It is designed for younger patients with gait disorders involving hyperextension of the knee joint.

#### **APPLICATION**

- ▶ Immobilization after injuries or orthopedic procedures.
- ► Follow-up treatment after removal of a conventional plaster cast.
- Condition after fractures.
- ► Pseudarthrosis.
- Ligament injuries.
- Joint instability. Knee hyperextension.

#### **IMPACT**

- ▶ Stabilizes and relieves pressure on the knee joint or the entire limb, including the foot.
- Enables immobilization in extension or restriction of the range of flexion and extension..

Orthotic

## ERH 43/2

INDIVIDUAL

SERIAL

■ The brace is intended for patients with dysfunctions and complications in the lower limb, mainly orthopedic, resulting in the need to immobilize the joint in a specific position and gradually increase its range of motion.



#### 2 IN 1 SYSTEM

After removing the foot section, the brace stabilizes the knee joint. Cross straps in the popliteal fossa correct hyperextension of the knee joint..

### KNEE

#### 1R/30° SMALL KIDS

The brace has adjustable knee joints. They enable immobilization or restriction of joint movement every 30°.

### FOOT



The footrest comes in a low BASIC version. The length of the ide rails can be easily adjusted, and the entire footrest can be removed.







After removing the foot section, the brace allows the knee joint to be immobilized.



### An additional joint pad increases

stability during extension..

#### **KNEE**

The 1R/15° joint allows immobilization or restriction of movement in the joint every 15°.

### **FOOT**

#### SYSTEM 2 W 1

The length of the side rails can be adjusted and the foot section can be removed.

### INDIVIDUAL

► NAME OF CUSTOM-MADE PRODUCT: KAFO brace for the thigh, shin, and foot KAFO Joint Plus

### C€ MD





■ SERIAL PRODUCT NAME:

Lower limb brace/orthosis

ERH 43/2 Modular brace for the entire lower limb with sandal

SIZE	XXS	XS	S	М	L	XL
TOTAL LENGTH	39	47	55	64	72	80
KNEE JOINT-GROIN	14	17	20	24	27	30
KNEE JOINT - OUTER EDGE OF THE FOOT	25	30	35	40	45	50
FOOT LENGTH	12	15	18	21	23	25









C€ MD

28

Trunk

## **ERH 67**

### INDIVIDUAL

└ Orthoses are designed for patients with lower limb dysfunctions, mainly of neurological origin. Depending on individual needs, they come with various accessories. They enable standing, stabilization training, and locomotion.

### **APPLICATION**

- ► Paralysis and weakness of the knee extensor muscles and foot.
- Joint instability.
- Spinal cord injury.
- Meningomyelocele.
- Cerebral palsy.
- ► Heine-Medina disease.

#### **IMPACT**

**KNEE** 

- Stabilizes the entire lower limb.
- ullet Enables immobilization in extension or restriction of range of motion.









INDIVIDUAL

ERH 67/1. MANUAL EXTENSE

NEUROEXTENSE

INDIVIDUAL

### ERH 67/1.DYNAMIC EXTENSE

INDIVIDUAL

NEUROEXTENSE

└ Orthoses are intended for patients with mainly neurological dysfunctions with contracture or spasticity of the knee joint flexors and foot. They are available in DYNAMIC or MANUAL extense versions.

#### **APPLICATION**

Spasticity or contracture of the knee flexor muscles in the course of:

- Cerebral palsy
- **L** Complications after fractures

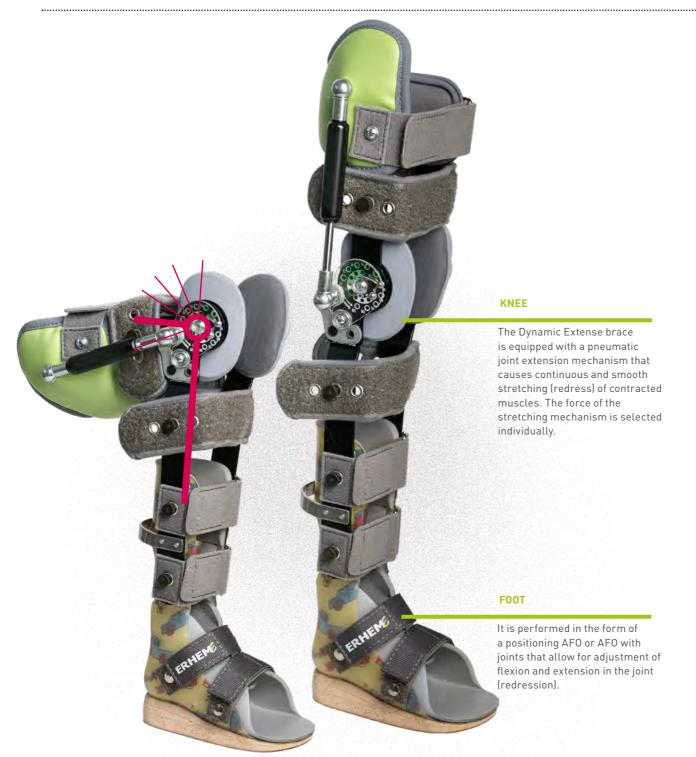
- Traumatic brain injury
- Spinal meningocele

### **IMPACT**

► Provides stability to the lower limb.

Orthotic

- ► They have a straightening effect on the knee joint and
- ▶ They allow the restoration and maintenance of the proper length of the muscles flexing the knee and foot.



# KNEE The Manual Extense hinge allows for any change in the angle of flexion or extension of the joint. It does not allow for free movement. It immobilizes the joint in any position. Possibility of stabilizing and correcting the adducted forefoot.





#### MANUAL EXTENSE

The angle of flexion or extension of the joint is adjusted by rotating the worm gear mechanism directly in the hinge. As rehabilitation progresses, the brace allows for gradual increase in extension.





The ability to relieve pressure on sensitive bone structures and overloaded areas.





INDIVIDUAL

► NAME OF CUSTOM-MADE PRODUCT: KAFO brace for the thigh, shin, and foot KAFO Joint Plus

## ERH 52/1.DYNAMIC EXTENSE

SERIAL

NEUROEXTENSE

Crthoses with a straightening effect on the knee joint. Depending on the hinges used, they allow for dynamic or manual increase of the joint's range of extension.

#### APPLICATION

Spasticity or contracture of the knee flexor muscles in the course of:

- Traumatic brain injury
- Cerebral palsy
- Spinal meningocele
- Complications after fractures

## ERH 52/1.MANUAL EXTENSE

NEUROEXTENSE

SERIAL

#### DZIAŁANIE

- ► Stabilizes the knee joint.
- ► Has a direct effect on the knee joint.
- ▶ Allows you to restore and maintain the proper length of the knee flexor muscles.







MANUAL EXTENSE

The angle of flexion or extension of the joint is adjusted by rotating the worm gear mechanism directly in the hinge. As rehabilitation progresses, the brace allows for gradual increase in extension.



The Dynamic Extense brace is equipped with a pneumatic extension mechanism that causes continuous stretching (redress) of contracted muscles. The force of the stretching mechanism is selected individually.





The MANUAL.EXTENSE brace is equipped with an adjustable hinge that allows for any change in the angle of flexion or extension of the joint.



┗ SERIAL PRODUCT NAME:

ERH 52/1 Knee joint realignment device for the shin and thigh - Neuroextense

						CE	MD
		SIZE	XS	S	М	L	XL
_	Α	KNEE JOINT-INGUINAL JOINT	15	18	21	24	27
LENGHT	В	KNEE JOINT-ANKLE JOINT	15	20	30	35	38
H	D	TOTAL	30	38	51	59	65
	E	IN THE EXTREME PART OF THE THIGH	34	40	46	52	58
CIRCUIT	F	AT THE LEVEL OF THE ABDOMEN OF THE TRICEPS MUSCLE	24	28	32	36	40
	G	APPROX. 10 CM ABOVE THE ANKLE JOINT	20	21	22	23	24

C€ MD

	IVIL	2					
		SIZE	XS	S	М	L	XL
_	Α	KNEE JOINT-INGUINAL JOINT	15	18	21	24	27
LENGHT	В	KNEE JOINT-ANKLE JOINT	15	20	30	35	38
	D	TOTAL	30	38	51	59	65
	Е	IN THE EXTREME PART OF THE THIGH	34	40	46	52	58
CIRCUIT	F	AT THE LEVEL OF THE ABDOMEN OF THE TRICEPS MUSCLE		28	32	36	40
- 0	G	APPROX. 10 CM ABOVE THE ANKLE JOINT	20	21	22	23	24

SERIAL

ERH 52/1 Knee joint realignment device for the shin and thigh - Neuroextense

## ERH 43 | ERH 43/1

└ The brace stabilizes or immobilizes the knee joint. Movable side hinges allow for adjustment of the range of flexion and extension. The knee cap provides additional stabilization in extension.

#### **APPLICATION**

- ► Immobilization after injuries or orthopedic procedures.
- ► Follow-up treatment after removal of a conventional plaster cast.
- ► Condition after fractures.
- ► Pseudarthrosis.
- Ligament injuries.

#### IMPACT

- ▶ It significantly stabilizes and relieves the knee joint.
- ▶ It allows immobilization in extension or limitation of the range of flexion and extension.



The brace is equipped with side rails with movable hinges that allow the angle of flexion and extension to be adjusted every 15°.



### ERH 43/1

The knee cover provides additional stability during extension and facilitates standing.

C€ MD

SERIAL

► SERIAL PRODUCT NAME: Knee brace/brace ERH 43 Open modular brace ERH 43/1 Open modular brace with cap

SIZE	XXS	XS	S	М	L	XL	
ORTHOSIS TOTAL LENGTH	28	34	40	47	54	60	
UNIVERSAL CIRCUIT							



Orthotic

Upper limb

Trunk

Mobility

SERIAL

#### **APPLICATION**

- ▶ Post-traumatic and post-surgical immobilization of the knee joint following:
- ► Fractures and their complications
- Joint reconstruction

#### IMPACT

▶ Immobilizes the knee joint in extension or at 20° flexion.

Less Static brace. Stabilizes and immobilizes the knee joint in extension or optionally at a 20° bend. The lateral stiffeners can be individually molded.



C€ MD

SIZE CIRCUMFERENCE OF THE THIGH 20 CM 30-38 38-44 44-50 50-54 54-60 ABOVE THE KNEECAP ORTHOSIS TOTAL 30 70 40 LENGTH UNIVERSAL THIGH AND LOWER LEG CIRCUIT

UNIVERSAL VERSION FOR RIGHT AND LEFT LEG

■ SERIAL PRODUCT NAME: Knee brace/brace ERH 45 Open tutor brace

### ERH 35/2.ANTIHYPEREXTENSION

► The brace is intended for patients with gait disorders accompanied by hyperextension of the knee joint. Mild to moderate dysfunction.

#### **APPLICATION**

- ▶ Neurological hyperextension of the knee joint.
- Lateral instability of the knee joint combined with hyperextension of the joint.

#### **IMPACT**

- ► Stabilizes the knee joint.
- Corrects the alignment of the knee joint in the sagittal
- ▶ Prevents hyperextension of the knee joint.



The side rails are made of very thin and flexible hardened steel with a movable hinge at the joint.

The brace is open-ended, allowing for circumference adjustment and easy and quick donning and doffing.



Changing the length of the cross knee straps increases the corrective effect of the brace.

C€ MD

SERIAL

► SERIAL PRODUCT NAME: ERH 35/2 AntiHyperextension Children's knee hyperextension corrective brace

SIZE	S	М	L
KNEE CIRCUMFERENCE	23-26	26-29	29-33
TOTAL LENGTH OF THE ORTHOSIS	23	25	28



Orthotic

Upper limb

Trunk

### **ERH 35.**UNIVERSAL

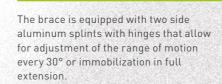
#### **APPLICATION**

- Knee dislocations and sprains
- Joint instability
- Knee ligament injuries
- Meniscus injuries
- Limited range of motion in the joint due to increased muscle tension
- Juvenile rheumatoid arthritis
- in a specific position with gradual increase in range of motion.

#### **IMPACT**

- ▶ Provides moderate stabilization and relief for the knee joint
- ► Enables immobilization in extension or restriction of the range of motion in flexion and extension.

└ This versatile brace provides medial/lateral support for the elbow or knee joint. Movable lateral hinges allow for adjustment of the range of flexion and extension.





The brace is made of Velcro material that allows for adjustment of its circumference both at the front and back. This allows for individual adjustment of the brace circumference to the dimensions of the limb.



C€ MD

KNEE CIRCUMFERENCE 16-22 19-26 23-31 TOTAL LENGTH OF THE 22 28 ORTHOSIS UNIVERSAL VERSION FOR RIGHT AND LEFT KNEE

SERIAL

► SERIAL PRODUCT NAME: ERH 35 UNIVERSAL Universal stabilizing and immobilizing brace with flexion and extension adjustment

## **ERH 66/2.**STEP TO

(FLEX) (STIFF)

SERIAL

└ The brace stabilizes the hip joint in a sitting, lying, and walking position. The brace is intended for patients with increased or spastic hip adductor function, which causes a scissors gait and may secondarily lead to subluxation or dislocation of the joint.

#### **APPLICATION**

- Spastic diplegia
- Spastic quadriplegia
- ► Hip subluxation/dislocation

Mobility

- ► Follow-up treatment after orthopedic surgery on joints
- ► Perthes disease

#### **IMPACT**

- ▶ Prevents crossing of the limbs during walking
- ▶ Allows you to maintain the proper length of the adductor muscles without causing contracture.
- ▶ Enables alternating physiological movement of the limbs during walking.





### **FLEXIBILITY OF MOVEMENT IN THE HIP JOINT**



Designed for patients with subluxation or dislocation of the hip joint or for patients who require strict maintenance of a specific abduction angle.

The abduction angle adjustment devices and structural elements of the orthosis are made of rigid metal and plastic, ensuring stable, unchanging abduction.



It is intended for patients who are able to walk and who have a scissor gait or adduction gait. The spreaders and the structure of the orthosis are made of very thin and flexible steel, which allows for adduction movement while maintaining continuous work towards the set abduction value.

### RANGE OF MOTION IN THE HIP JOINT



Provides constant hip abduction within a range of 30° with adjustable flexion and



It allows for changing the angle of hip flexion within the range of  $30^{\circ}/45^{\circ}/60^{\circ}$ .

In both versions of the brace, hip flexion and extension movements are preserved.

C€ MD

XXS LENGTH OF THE ORTHOSIS IN THE MEDIAL PART OF THE THIGH 10-12 11-15 15-20 19-24 23-27 26-30 (GROIN-KNEE JOINT) CIRCUMFERENCE OF THE THIGH 24-27 27-33 | 33-36 | 36-42 ABOVE THE KNEE JOINT

SERIAL

■ SERIAL PRODUCT NAME: ERH 66/2 Step to Hip joint stabilisation and abduction device with flexion and extension adjustment

## ERH 66/4.V CONTOUR

└ The brace is designed for children with neurological deficits and other medical conditions. It aims to improve pelvic stability and correct the alignment of the lower limbs in the hip joints. It is intended for patients with both increased and low muscle tone. It prevents spastic adductor activity.

#### **APPLICATION**

- Spastic diplegia
- Spastic quadriplegia
- Cerebral palsy
- ► Spina bifida/meningocele
- ► Hip subluxation/dislocation.
- ► Congenital hip dysplasia.

#### IMPACT

- ▶ Stabilizes the torso and pelvis.
- Supports the work of the abdominal and gluteal muscles. Corrects excessive internal rotation of the lower limbs.
- ► Enables repositioning of the lower limbs in the hip joints.
- ► Facilitates a comfortable and safe position.

#### **FEATURES**

- ▶ The brace is open at the outer edges, allowing for comfortable donning and adjustment of individual compression.
- ► Adjusting the length of the straps in the buttock area increases or decreases the force of the rotating strap.
- ▶ The brace has flexible stiffening on the inner side of the thighs, which dynamically abducts the limbs or positions them in a specific
- ▶ In individual cases, rigid abduction can be used.



The brace supports stabilization of the center (L-S), correction of rotation and abduction in the hip

The elastic spreader on the inner side of the thighs dynamically supports abduction in the hip joints. Available in elastic or stiff versions.

The brace supports stabilization of the center (L-S), correction of rotation and abduction in the hip joints.

CE MD

CCIVID					
SIZE	1	2	3	4	5
WAIST CIRCUMFERENCE	40-50	45-55	50-60	60-70	60-70
HIP CIRCUMFERENCE	44-54	50-60	56-66	69-79	69-79
UPPER THIGH CIRCUMFERENCE/ GROIN	22-30	26-34	30-38	35-45	35-45
INTERNAL LENGTH OF THE ORTHOSIS (THIGH)	10	13	16	19	24
GROIN SPACING	8	6	4	3	3

SERIAL

■ SERIAL PRODUCT NAME: ERH 66/4 V contour Hip joint stabilizing and abduction orthosis

## ERH 68.HIPPI

SERIAL

HIP TO MOVE

└ The brace is designed for children with congenital or acquired dislocation and hip dysplasia. It ensures that the lower limbs are positioned at a 90° angle and at any angle of abduction in the hip joints.

#### **APPLICATION**

- ▶ Improperly formed acetabulum or femoral head in newborns.
- ▶ Functional treatment of congenital hip dysplasia.

#### **IMPACT**

▶ It ensures that the lower limbs are positioned at a 90° angle and at any angle of abduction in the hip joints.





It allows for smooth adjustment of the angle of flexion and abduction of the limbs in the hip joints through individual shaping of the orthosis.

SERIAL

► SERIAL PRODUCT NAME: ERH 68 Hip Brace Hip brace for the treatment of hip dysplasia

detached for hygiene purposes.

		(	€ MD
SIZE	S	М	L
BRACE WIDTH IN CM (DISTANCE BETWEEN THE KNEE PITS)	20	25	30
AGE (MONTHS)	1-2	3-6	7-12

### **ERHEM**

### **ERH 70.**ROTHO

INDIVIDUAL

#### **APPLICATION**

- Excessive external or internal rotation of the entire lower limb.
- ► Excessive inward and outward rotation of the foot.

#### IMPACT

- ▶ Corrects excessive external or internal rotation in the hip joint.
- ▶ Supports stabilization of the torso and pelvis and improves motor awareness.

Designed for children with neuromuscular conduction disorders. The concept of the orthoses is based on the derotating effect of tension straps with spring properties.



The back section of the belt allows for adjustment of the tension of the straps.

The elastic belt provides compression support, helping to stabilize the torso and build core strength.

The version of the brace with foot support corrects inward or outward rotation of the

### WAYS OF APPLYING ROTHO ORTHOSES:



EIGHT A flexible strap that wraps around the midfoot and ankle ioint increases control and stability.



WITH ORTHOSIS The combination of ROTHO with DAFO orthosis allows for additional correction of valgus heel and foot alignment.

### ROTATION OPTIONS:



INTERNAL ROTATION THROUGH THE KNEE



INTERNAL ROTATION THROUGH THE FOOT



**EXTERNAL ROTATION** THROUGH THE KNEE



**EXTERNAL ROTATION** THROUGH THE FOOT





INDIVIDUAL



## ERH 38/3A | ERH 38/3B

■ A series of orthoses designed for children who, due to neurological disorders, have difficulties with the functional positioning of the wrist and thumb.

#### **APPLICATION**

Increased muscle tension causing flexion and adduction of the thumb.

#### **IMPACT**

Proper positioning of the wrist and thumb gradually restores hand function and counteracts the negative consequences of improper positioning.

optimal position.

Trunk

**ERH 38/4A** 

INDIVIDUAL

#### **APPLICATION**

Increased muscle tension causing flexion and adduction of the wrist and thumb.

#### **IMPACT**

Proper positioning of the wrist and thumb gradually restores hand function and counteracts the negative consequences of improper positioning.

A series of orthoses designed for children who, due to neurological disorders, have difficulties with the functional positioning of the wrist and thumb.



SERIAL

► SERIAL PRODUCT NAME: Orteza odwodząca kciuk ERH 38/3A Orteza odwodząca kciuk ERH 38/3B Orteza odwodząca kciuk

SIZE	XS	S	М	L
CIRCUMFERENCE OF THE MIDDLE HAND IN CM	DO 10	10-12	12-14	14-16
VERSION FOR DIGHT OR LEFT HAND				

compression on the thumb joint and thumb,

supporting stabilization and correcting

the adducted position.



INDIVIDUAL

► NAME OF CUSTOM-MADE PRODUCT: Brace for the hand and forearm





SERIAL

position. The stabilization of the wrist joint

is achieved by a contoured orthopedic splint

on the palmar side, which can be individually

molded.

■ SERIAL PRODUCT NAME: Wrist and thumb brace RH 38/4A Wrist and thumb brace

SIZE	S	М	L			
CIRCUMFERENCE OF THE MIDDLE HAND IN CM	UP TO 12	12-14	14-16			
VERSION FOR RIGHT OR LEFT HAND						

## ERH 47/1.CLASSIC | ERH 47/1.HYBRID

INDIVIDUAL

SERIAL

└ The brace covers the forearm, wrist joint, and hand. The Classic version is mainly intended for patients with orthopedic injuries, while the Hybrid version is intended for patients with neurological injuries.

#### **APPLICATION**

- f L Increased muscle tension in the flexors of the wrist joint
- ► Stabilization after orthopedic injuries (fractures, cracks)
- ► Paralysis and flaccid and spastic paresis

- ▶ Corrects the wrist and hand to the optimal position.
- ▶ Prevents flexion of the joint and its ulnar deviation.
- ▶ The thumb grip allows it to be abducted to the optimal position.

ERH 47/2.HYBRID

INDIVIDUAL

#### **APPLICATION**

- ▶ Increased muscle tension in the flexors of the wrist joint
- f L Stabilization after orthopedic injuries (fractures and dislocations)

- ▶ Stabilizes the wrist joint in a slight dorsal flexion with
- the possibility of thumb abduction.
- ► Prevents flexion of the wrist and its ulnar deviation.

└ The brace covers the forearm, wrist joint, and thumb. The Classic version is mainly intended for patients with orthopedic injuries, while the Hybrid version is intended for patients with neurological injuries.



The palm section can be individually shaped to ensure correct positioning of the hand and fingers.

The flexible clamp in the distal part of the forearm allows for individual adjustment of the orthosis and prevents it from shifting.

The open design of the brace makes it easy to put on.

C€ MD

ERH 47/1.CLASSIC

The flexible cuff allows for more effective wrist positioning and pressure adjustment.

The brace with ulnarization lock allows you to reduce the range of wrist abduction.

The springy connection in the wrist allows for slight movement in the joint while maintaining dynamic work in the direction of its extension.

ERH 47/2.HYBRID

### INDIVIDUAL

► NAME OF CUSTOM-MADE PRODUCT: Hand and forearm brace



#### SERIAL

► SERIAL PRODUCT NAME: Wrist joint brace

ERH 47/1 Splint for the hand and forearm with abducted thumb

SIZE	1	2	3	4	5
LENGTH OF WRIST-FINGERS IN CM	10	12	14	15	16
TOTAL LENGTH W CM	16	20	23	25	28

### INDIVIDUAL

► NAME OF CUSTOM-MADE PRODUCT: Hand and forearm brace





#### SERIAL

► SERIAL PRODUCT NAME:

Wrist joint brace/orthosis

ERH 47/2 Splint for the hand and forearm with abducted thumb

SIZE	1	2	3	4	5
ENGTH OF WRIST-FOREARM IN CM	4,5	5,5	6	6,5	7
TOTAL LENGTH IN CM	11,5	13,5	15	16,5	18

## ERH 42/3.SPLINT

L It stabilizes and immobilizes the elbow joint in extension. It is an alternative to conventional plaster casts in cases of injuries and orthopedic procedures, or allows for full extension during exercises in support and low positions.

#### **APPLICATION**

- ${\bf {\scriptscriptstyle L}}\,$  Increased muscle tension/spasticity of the joint flexors
- ▶ Condition after surgical procedures requiring immobilization in extension

- ▶ Immobilizing the elbow joint in extension prevents contractures
- ▶ Provides an alternative to conventional plaster casts for injuries and orthopedic procedures

## **ERH 56/2**

INDIVIDUAL



The brace allows to adjustment of the range of motion or complete immobilization. It immobilizes the entire upper limb in extension or at a specific angle of flexion in the elbow joint. It allows for correction of the wrist and thumb position with easy removal of the palm section.

### INDYWIDUALNY

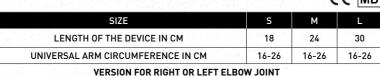


NAME OF CUSTOM-MADE PRODUCT: Forearm and arm brace with hand support.



SERIAL

► SERIAL PRODUCT NAME: Elbow joint tutor ERH 42/3



### **ERHEM**

Upper

Trunk

Mobility

## ERH 42/2.UNIVERSAL

#### **APPLICATION**

- Elbow joint dislocations and sprains
- ▶ Limited range of motion in the joint due to increased muscle tension
- Joint instability
- ► Condition after surgical procedures requiring immobilization in a specific position with gradual increase in range of motion.

#### **IMPACT**

- ullet Provides moderate stabilization and relief for the elbow joint
- ▶ Enables immobilization in extension or restriction of the range of flexion and extension.

└ This versatile brace provides medial/lateral support for the elbow or knee joint. Movable lateral hinges allow for adjustment of the range of flexion and extension.



The brace is equipped with two side aluminum splints with hinges that allow for adjustment of the range of motion every 30° or immobilization in full extension.



The brace is made of Velcro material that allows for adjustment of its circumference both at the front and back. This allows for individual adjustment of the brace circumference to the dimensions of the limb.

C€ MD

SIZE	S	М	L			
ELBOW CIRCUMFERENCE IN CM	16-22	19-26	23-31			
TOTAL LENGTH OF THE ORTHOSIS IN CM 22 24 28						
VERSION FOR RIGHT AND LEFT ELBOW JOINTS						

SERIAL

► SERIAL PRODUCT NAME: ERH 42/2 UNIVERSAL Universal stabilizing and immobilizing brace with flexion and extension adjustment.

## ERH 42.STIFF

MANUAL EXTENSE

Lesigned for patients with limited range of motion in the elbow joint who require immobilization in a specific position and gradual increase in range of motion.

#### **APPLICATION**

- ▶ Post-traumatic fi=unction lilitations in the elbow joint requiring redress
- ► Fractures and injuries requiring immobilization in a specific position

Mobility

- ▶ Increased muscle tension, flexor spasticity preventing joint extension
- Joint instability

#### **IMPACT**

- ▶ Stabilizes and immobilizes the elbow joint in the desired position.



Trunk

MANUAL EXTENSE )

INDIVIDUAL

ERH 56/1.NEUROEXTENSE

Designed for patients with limited range of motion in the elbow and wrist joints who require immobilization in a specific position and gradual increase in range of motion.

▶ Prevents restrictions in the range of motion in the joint.



The brace allows for joint realignment or limb immobilization in any position. Rigid splints on the dorsal side of the limb ensure the stability of the brace and increase its effectiveness in maintaining the desired joint extension.

The brace is equipped with two very thin stabilizing splints on both sides and hinges that allow for smooth, gradual angle adjustment.



### MANUAL EXTENSE

SERIAL

■ SERIAL PRODUCT NAME:

ERH 42 Elbow joint brace

Elbow joint brace

The angle of flexion or extension of the joint is adjusted by rotating the spiral gear mechanism directly in the hinge. As rehabilitation progresses, the brace allows for gradual increase in extension.



SIZE ARM CIRCUMFERENCE IN CM UP TO 18 UP TO 22 UP TO 25 UP TO 12 UP TO 16 UP TO 18 CIRCUMFERENCE 5 CM ABOVE THE WRIST ARM SPLINT LENGTH IN CM 11 FOREARM SPLINT LENGTH IN CM UNIVERSAL VERSION FOR RIGHT AND LEFT ELBOW JOINTS

**APPLICATION** 

 ${\bf {\scriptscriptstyle L}}$  Post-traumatic restrictions in the elbow joint requiring redress

▶ Fractures and injuries requiring immobilization in a specific

▶ Increased muscle tension, flexor spasticity preventing joint extension

■ Joint instability

#### **IMPACT**

 $f \iota$  It stabilizes and immobilizes the elbow and wrist joints in the desired position.



The brace is equipped with two thin lateral stabilizing splints with adjustable MANUAL Extense hinges that allow immobilization in any position and gradual increase of joint extension.



Adjustment within the hand allows immobilization in supination or pronation of the forearm: from full palmar flexion to full dorsal flexion in 10° increments

### C€ MD

### INDIVIDUAL

► NAME OF CUSTOM-MADE PRODUCT: Forearm and arm brace with hand support





SERIAL

Elbow joint brace

ERH 56/1 Brace for the upper arm and forearm, realigning the elbow joint

SIZE	1	2	3	
ARM CIRCUMFERENCE IN CM	UP TO 18	UPTO 22	UP TO 25	
CIRCUMFERENCE 5 CM ABOVE THE WRIST	UPT0 12	UP TO 16	UP TO 18	
LENGTH FROM ELBOW TO WRIST IN CM	15-17	18-20	21-23	
LENGTH OF ARM SPLINT IN CM	8	11	11	
LENGTH OF FOREARM SPLINT IN CM	11	14	18	

## ERH 34.DESAULT

An alternative to Desault's plaster cast. Used as post-traumatic APPLICATION treatment for orthopedic dysfunctions. It provides stable immobilization of the upper limb and shoulder girdle.

- ▶ Fractures and dislocations within the shoulder girdle
- ► Post-traumatic joint instability
- ► Muscle paresis and paralysis
- ▶ Inflammation within the shoulder girdle and elbow

▶ It stably immobilizes and relieves the entire upper limb and shoulder-arm complex.

The vest is universal, allowing both the right and left arms to be immobilized.

The neutral, soft fabric does not interfere with proper skin trophism and provides good ventilation.



SERIAL

► SERIAL PRODUCT NAME: Shoulder joint brace ERH 34 Shoulder joint vest

CHEST CIRCUMFERENCE IN CM 54-62 62-70 UNIVERSAL VERSION FOR RIGHT AND LEFT SHOULDER

Trunk

## **ERH 59/1.**ERBA

#### APPLICATION

Intended for patients with orthopedic and neurological shoulder muscle insufficiency:

- Inflammation in the shoulder area
- ► Shoulder dislocation
- ► Paralysis and flaccid paresis
- Brachial plexus injuries

#### IMPACT

- ${\bf {\scriptscriptstyle L}}$  The brace prevents subluxation in the shoulder joint.
- ▶ It supports the axial weight of the limp limb, preventing excessive stretching of the joint capsule, ligaments, and periarticular tendons.
- ▶ It ensures repositioning of the humeral head, external rotation, and abduction in the shoulder joint.

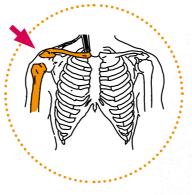
Designed for patients with neurological upper limb injuries. It allows for maintaining the correct position of the upper limb and the entire shoulder girdle. It provides shoulder relief, humeral head repositioning, and external rotation in the shoulder joint.



The neutral, soft fabric does not interfere with proper skin trophism and provides good ventilation.

The method of fastening the tension straps determines the position of the arm, rotation, flexion, and extension.

Adjusting the circumference and length of the tension straps allows for individual adjustment.





C€ MD

C€ MD

CHEST CIRCUMFERENCE IN CM 40-53 50-60 60-70 MAX. ARM CIRCUMFERENCE IN CM 28

**VERSION FOR RIGHT OR LEFT SHOULDER** 

► SERIAL PRODUCT NAME: Shoulder joint brace/orthosis ERH 59/1 Brace for the shoulder, upper arm, and forearm

SERIAL



## ERH 48/3.STRONG STIFF

INDIVIDUAL

└ The corset stabilizes the pelvis and torso of patients with neurogenic scoliosis, providing support during standing, sitting, and locomotion in a wheelchair or car. It is especially recommended for people who are overweight and have posture deformities, providing effective stabilization and comfort in everyday activities.

#### **APPLICATION**

Reduced muscle tone, paralysis, and paresis that make it hard to sit properly and can lead to sideways curvature of the spine in cases of:

Mobility

- muscular dystrophy,
- ► meningocele,
- cerebral palsy
- ► Paralytic scoliosis

#### **IMPACT**

- ▶ Improved stability when sitting and standing upright, allowing for better head control and greater functionality of the upper limbs.
- ▶ Increased respiratory efficiency in a corrected sitting position.
- ► Enables stabilization of the pelvis and torso.

The purpose of using the ERH 48/3 STRONG STIFF corset is to:

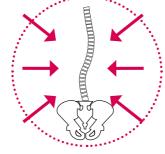
- ► Counteract deformation of the skeletal and joint system
- ► Assist in normalizing muscle tone
- Ensure upright posture
- ► Facilitate/enable locomotion
- ► Improve posture when standing and sitting
- ► Facilitating/enabling the performance of everyday activities
- ullet Consolidating therapeutic progress



The brace consists of two separate parts, which can be used individually or in combination, depending on the needs, providing flexibility in adapting to different therapeutic situations.

### 1 - INTERNAL LOAD-BEARING AND STABILIZING PART

- It is made of flexible material with metal stiffeners that help maintain the correct
- ► The compression effect of the material, combined with additional stabilizing elements, increases pressure in the abdominal cavity, reducing the load on sensitive spinal structures (vertebrae, joints). This helps to relieve back pain, muscle tension, and reduce
- ▶ The inner part is designed for use mainly in a lying or sitting position, with additional back support.



### STABILIZATION AND RELIEF

### 2 - EXTERNAL CORRECTIVE AND IMMOBILIZING PART

- ▶ It is made of plastic and is placed directly on the inner part. It consists of two anatomically contoured halves that cover the pelvis and torso, mainly on the sides and back.
- ► The outer part is used only after the inner part has been put on, providing additional stability and support.







60

Mobility

## ERH 48/3.STIFF

INDIVIDUAL

SCOLIO

Let The corset stabilizes the pelvis and torso of patients with neurogenic scoliosis, providing support during standing, sitting, and locomotion in a wheelchair or car. It is especially recommended for people who are overweight and have posture deformities, providing effective stabilization and comfort in everyday activities.

#### **APPLICATION**

Reduced muscle tone, paralysis, and paresis that make it hard to sit properly and can lead to sideways curvature of the spine in cases of:

- ► muscular dystrophy,
- meningomyelocele,
- cerebral palsy,
- ► Paralytic scoliosis.

#### МРАСТ

- Improved stability when sitting and standing upright, allowing for better head control and greater functionality of the upper limbs.
- $\mbox{\ensuremath{\textbf{L}}}$  Increased respiratory efficiency in a corrected sitting position.
- Enables stabilization of the pelvis and torso.

The purpose of using the corset is:

- ▶ To counteract deformation of the skeletal and joint system
- lacksquare To assist in normalizing muscle tone
- ► To ensure upright posture
- ► To facilitate/enable locomotion
- ► To improve posture when standing and sitting
- ▶ To facilitate/enable the performance of daily activities
- ► To consolidate therapeutic progress















## KANGAROO.SCOLIO

INDIVIDUAL SCOLIO

and correct the position of the torso in relation to the pelvis. It effectively counteracts lateral curvature of the spine. Used in cases of muscle weakness and in the treatment of easily correctable curvatures. It helps to achieve symmetry of the torso and improve spinal function.

#### **APPLICATION**

Reduced muscle tone, paralysis, and paresis that make it hard to sit properly and can lead to sideways curvature of the spine in cases of:

- muscular dystrophy,
- meningomyelocele,
- ∟ cerebral palsy,
- ► Paralytic scoliosis.

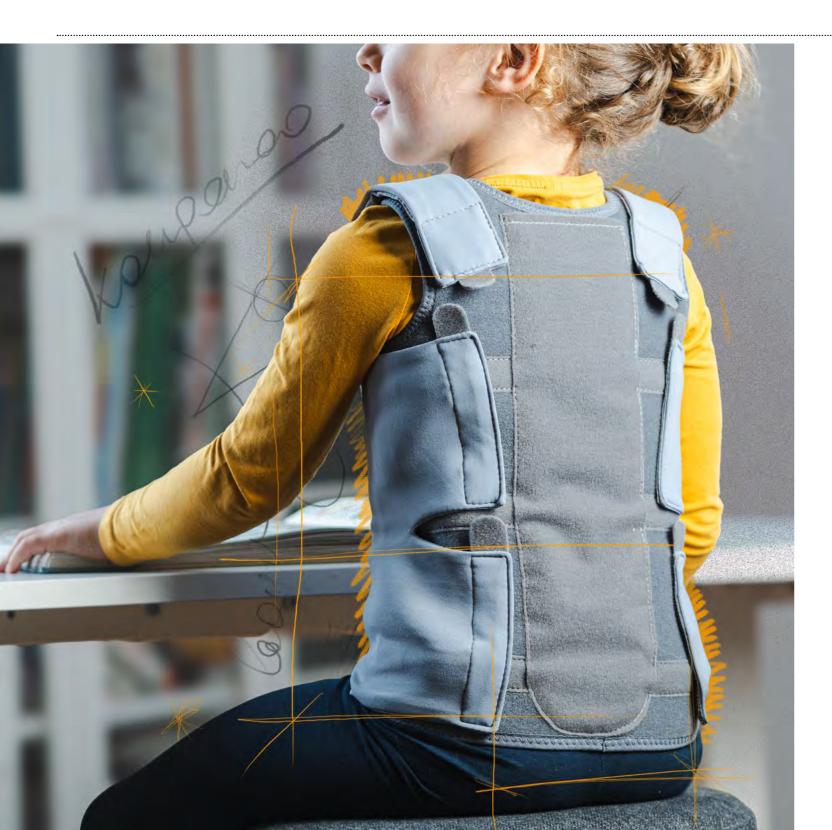
#### IMPACT

**ERHEM** 

- ▶ Improved stability when sitting and standing upright, allowing for better head control and greater functionality of the upper limbs.
- ► Increased respiratory efficiency in a corrected sitting position.
- ► Enables stabilization of the pelvis and torso.

The purpose of using the corset is to:

- ► Prevent deformation of the skeletal and joint system
- ► Facilitate/enable standing upright
- ► Improve posture when standing upright and sitting
- Consolidate therapeutic progress achieved



The dorsal section features vertical and transverse metal stiffeners that provide correction in the frontal and sagittal planes. These stiffeners can be individually molded.



The corset has a two-piece design, which ensures comfort and ease of use. The back section effectively stabilizes and corrects the position of the spine in relation to the pelvis, improving posture. The abdominal section, thanks to the compression used, supports the stabilization of the torso while allowing for free breathing.











## ERH 80.SCOLIO

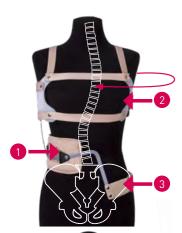
INDIVIDUAL

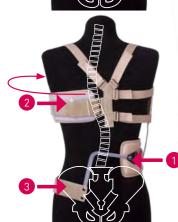
■ The purpose of the corset is to correct and slow down the progression of spinal curvature.

► Scoliosis up to 30° according to Cobb.

#### **IMPACT**

- ► Passive therapy aims to achieve and maintain the right, corrected position of the spine.
- Spinal correction is achieved by stabilizing the pelvis and relieving pressure on the vertebrae and cartilage on the concave side of the
- ▶ The relief is the result of stretching the contracted ligamentous and muscular structures.
- ▶ The passive action of the corset directs the patient's activity during free movements for self-correction.
- ▶ The goal is to regenerate and achieve symmetrical muscle and ligament tension on both sides of the spine.





INDIVIDUAL

The movable joint under the armpit allows for small movements of the torso, supporting the active process of rehabilitation and selfcorrection.

Comfort and discretion of use thanks to a minimalist, openwork design.





C€ MD



INDIVIDUAL

#### **APPLICATION**

**ERHEM** 

- Scheuermann's disease
- ► Hyperkyphosis, Hyperlordosis

#### IMPACT

It has a corrective effect on the affected section of the spine by reducing deepened physiological curvatures in the sagittal plane. Lateral The corset is intended for patients with severe kyphosis or Scheuermann's disease. The corset has a strong straightening effect on the thoracic spine, correcting its alignment. It also acts on the shoulder girdle, improving its alignment with the torso









### **KANGAROO**

INDYWIDUALNY

■ The brace was designed to improve the static and dynamic conditions of the torso and the entire body. Made of flexible material and equipped with individually selected pressurerelieving and stabilizing elements. Available in 6 models with different properties and purposes.

#### **APPLICATION**

- ▶ Neurophysiological disorders (cerebral palsy, psychomotor development delay).
- Spina bifida.
- Muscular dystrophy.
- Down syndrome.
- ▶ Sensory integration disorders accompanied by sudden loss of balance and gravitational uncertainty.

#### IMPACT

- Stabilizes the torso and pelvis.
- ► Corrects excessive forward or backward tilting of the pelvis.
- ► Shoulder protraction and retraction.
- ► Facilitates spinal elongation.
- Supports the formation and development of proper posture
- ▶ Enables and facilitates the development of balance reactions and defensive support.
- ▶ Facilitates the correction of posture defects in children with intermediate stages of postural hypotonia.
- ► Supports the development of sensorimotor integration.





An additional layer of Lycra at the front and sides ensures a tight fit and ease of use. The two-piece design makes it quick and easy to put on. An optional version with additional back stabilization is available and can be precisely adjusted thanks to its ability to be molded







**ERHEM** 

Mobility

## **KANGAROO**

INDIVIDUAL







# REGULAR PANTS



CE MD





► NAME OF CUSTOM-MADE PRODUCT: KANGAROO dynamic postural stabilizer

## ERH 48/3.MEDIUM STIFF

INDIVIDUAL

┗ Semi-rigid orthosis with an extension effect. It enables stabilization and correction of the torso position relative to the pelvis, mainly in the frontal plane. It counteracts lateral curvature of the spine. Used in cases of laxity and easily correctable

#### THE PURPOSE OF USING A CORSET IS TO:

- ► Prevent deformation of the skeletal and joint system,
- ► Assist in normalizing muscle tone,
- ► Facilitate/enable standing and locomotion,
- ► Improve posture while sitting.

### **APPLICATION**

- ► Pigeon chest
- **L** Chest deformities

Latin The brace is designed to correct chest deformities. It is available in several designs based on individual indications.

**PECTUS** CORSET



The corset is made of elastic material with vertical metal stiffeners that help maintain proper posture and relieve pressure on the spine. Additional straps allow for correction of shoulder alignment.

### INDIVIDUAL

► NAME OF CUSTOM-MADE PRODUCT: Relief and stabilizing corset



#### SERIAL

■ SERIAL PRODUCT NAME:

Trunk corset brace

ERH 48/3 Children's thoracic-lumbar-sacral pot corset

S	М	L	XL
40-50	45-60	55-70	65-80
15	20	25	30
	40-50	40-50 45-60	40-50 45-60 55-70



FUNNEL CHEST

▶ The brace provides anterior-posterior compression, which has a

corrective effect on bones and joints and restores their physiological

▶ The brace is designed to reduce the protrusion of the sternum and ribs.

PIGEON CHEST





The corset allows for adjustment of the width of the pads used and the pressure applied.

Depending on individual indications there is 2 version: one central pad that acts directly on the sternum or two small pads based on the rib arches.



C€ MD





► NAME OF CUSTOM-MADE PRODUCT: Relief and stabilizing corset

## **ERH 69**

SERIAL

INDIVIDUAL

└ The brace stabilizes and relieves pressure on the affected section of the spine. It helps correct its alignment and excessive lumbar lordosis and thoracic kyphosis. Depending on individual indications, it is made in a semi-rigid or rigid form.

#### **APPLICATION**

- Scheuermann's disease
- ► Excessive deepening of spinal curvatures.
- ► Incomplete stabilization of the torso and pelvis.

- ${\bf {\scriptscriptstyle L}}$  A brace with a straightening effect mainly in the sagittal plane.
- f L It stabilizes and relieves the thoracolumbar-sacral spine.
- ▶ It corrects the position of the shoulder girdle and deepened thoracic kyphosis.





The back section can be adjusted in height and the strength of the backward tilt of the shoulders. Reinforcements in this section help to stabilize and correct posture. The lumbar section is reinforced with two metal braces.

C€ MD

### INDIVIDUAL

■ SERIAL PRODUCT NAME:

Thoracolumbar sacral orthosis TLSO

SERIAL

► NAME OF CUSTOM-MADE PRODUCT:

Torso corset brace

ERH 69 Children's high semi-rigid lace-up brace with underarm supports



SIZE	S	М	L
WAIST CIRCUMFERENCE	40-50	50-60	60-70
BACK LENGTH	25-30	30-35	35-40



Upper limb

## ERH 63.JEWETT

#### **APPLICATION**

- Pathological vertebral fractures.
- ▶ Fractures of vertebral bodies and articular processes.
- ► Postoperative treatment.

#### **IMPACT**

 ${\bf \ \ \ }$  Three-plane stabilization of the spine in the range of Th6-L5 or C3-L5.

A corset with a straightening effect, immobilizing in three planes with the possibility of additional stabilization of the cervical





SIZE	XS	S
HIP CIRCUMFERENCE	50-70	60-80
HEIGHT ADJUSTMENT BETWEEN THE CHEST AND THE PELVIS	30-38	37-45

SERIAL

of the corset allows for individual

adjustment by bending.

► SERIAL PRODUCT NAME: Spinal brace ERH 63 Jewett corset

## **ERH 53**

SERIAL

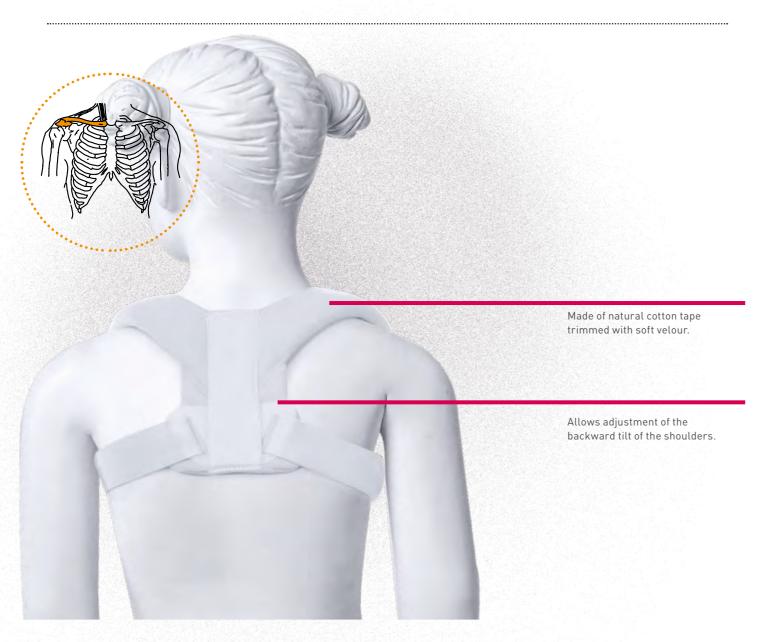
Leadilizes the shoulder girdle during conservative treatment of clavicle fractures.

### **APPLICATION**

- Round back
- Funnel chest
- ► Conservative treatment of clavicle fractures

#### **IMPACT**

- **▶** Stabilizes the shoulder girdle
- ▶ Corrects thoracic kyphosis by straightening the shoulder girdle



SERIAL

► SERIAL PRODUCT NAME: Torso corset brace ERH 53 Orthopedic straightener 'eight'

SIZE XS CHEST CIRCUMFERENCE IN 46-54 54-64 76-90 64-76 THE ARMPIT LINE



ERH 53/1

SERIAL

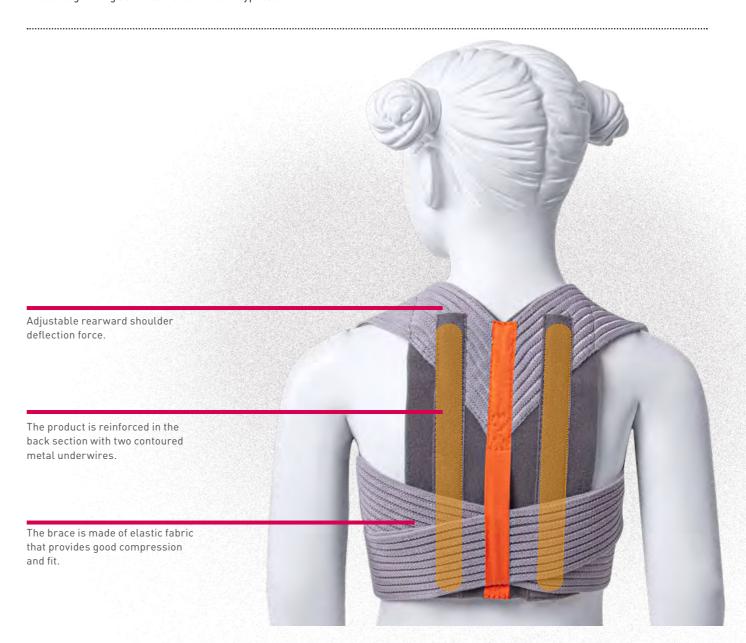
### **APPLICATION**

- ▶ Developing the habit of correct posture
- Round back
- ► Funnel chest

#### **IMPACT**

- ▶ Relieves and stabilizes the thoracic spine.
- ▶ Its straightening action corrects thoracic kyphosis.

Lit complements the corrective gymnastics program in the process of developing the habit of correct posture.





C€ MD

SIZE XS CHEST CIRCUMFERENCE IN 46-54 54-64 76-90 64-76 THE ARMPIT LINE

SERIAL

► SERIAL PRODUCT NAME: Torso corset brace ERH 53 Orthopedic straightener 'eight'



### **HKAFO.**BASIC

└ The Basic version is recommended for the youngest patients. It enables standing, changing the center of gravity, balance training, and reflex training. This version of the orthosis is made without movable joints. Its very light and compact design allows for more frequent standing in any location.

#### **APPLICATION**

The HKAFO brace stabilizes the lower limbs, pelvis, and trunk during standing and walking training in cases of:

- cerebral palsy,
- myelomeningocele,
- poliomyelitis,
- traumatic brain injury.



## **HKAFO.**JOINT PLUS

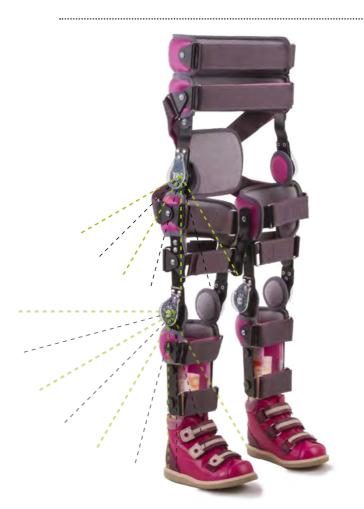
#### APPLICATION

The HKAFO brace stabilizes the lower limbs, pelvis, and trunk during standing and walking training in cases of:

- ∟ cerebral palsy,
- myelomeningocele,
- poliomyelitis,
- traumatic brain injury.

Depending on individual indications, the HKAFO JOINT PLUS version is equipped with hip, knee, and ankle joints. The joints allow for adjustment of the range of motion in 15° increments.

It is recommended for older children, mainly those with limited range of motion in the joints and limb shortening. It enables standing, balance training, and the beginnings of movement.





### + AFO/DAFO

The version with an integrated AFO/ DAFO orthosis inserted into the shoe enables learning and improving walking. The orthosis can be easily removed to change the size.



#### 2 VERSIONS OF HIP AND KNEE HINGES



1R/30° Enables immobilization or restriction of movement, adjustment eve



Enables immobilization or restriction of movement, adjustable in 15° increments.

**HKAFO Joint Plus** 

INDIVIDUAL





C€ MD



► NAME OF CUSTOM-MADE PRODUCT: Brace covering the hip girdle, thighs, shins, and feet HKAFO





## **HKAFO.**JOINT PLUS EXTENSE

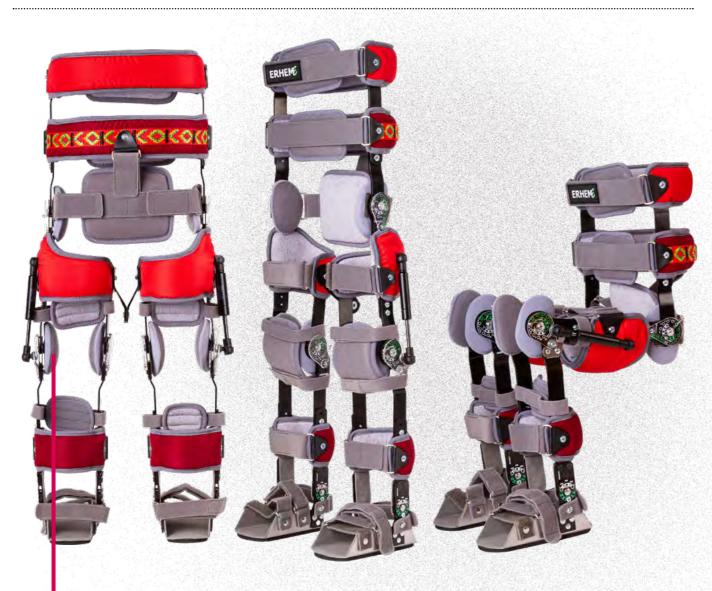
#### INDIVIDUAL

Latin This version of the brace is equipped with 1R/15 DYNAMIC EXTENSE joints and an additional function supporting extension. The joints allow for adjustment of the range of motion for flexion and extension in 15° increments. The pneumatic extension mechanism dynamically supports increasing the range of motion in the joint. The brace is intended for patients with incomplete extension in the knee and hip joints.

#### **APPLICATION**

The HKAFO brace stabilizes the lower limbs, pelvis, and trunk during standing and walking training in cases of:

- cerebral palsy,
- meningomyelocele,
- ▶ poliomyelitis,
- traumatic brain injury.



Knee joints equipped with a pneumatic knee extension mechanism dynamically support training in everyday locomotor activities.







## HKAFO.JOINT PLUS EXTENSE

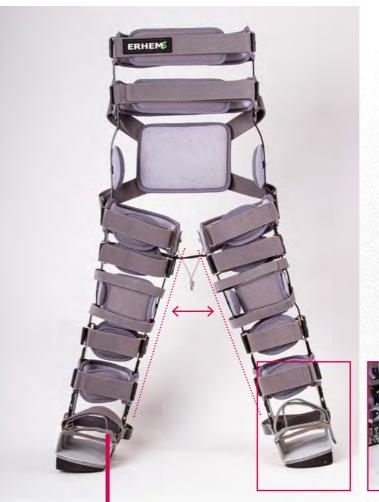
INDIVIDUAL

#### APPLICATION

The HKAFO brace stabilizes the lower limbs, pelvis, and trunk during standing and walking training in cases of:

- cerebral palsy,
- ► myelomeningocele,
- poliomyelitis,
- traumatic brain injury.

Latin This version of the brace is equipped with MANUAL EXTENSE joints and an additional function that corrects the position of the hip joint. MANUAL EXTENSE joints allow for smooth increase of the range of extension in the knee joint. The brace is intended for patients with extension deficit in the knee or hip joint who require verticalization in abduction.





The joints have a manual extension mechanism that allows for smooth stretching and redressment of contracted muscles.





The orthosis enables verticalization, taking into account the correction of hip abduction.

### MANUAL EXTENSE

The angle of flexion or extension of the joint is adjusted by rotating the spiral gear mechanism directly in the hinge. As rehabilitation progresses, the brace allows for gradual increase in extension.

C€ MD



INDIVIDUAL

INDIVIDUAL

**HKAFO.**JOINT PLUS EXTENSE

■ The NEURO version with 2 STEPS LOCK or 1 STEP LOCK hinges is recommended for active rehabilitation, which allows the patient to be involved in the process of their recovery.

In STAND mode, it allows the entire body to be strengthened at home while attempting to stand up and become upright.

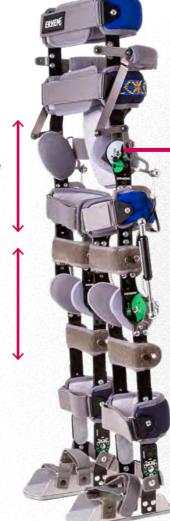
In WALK mode, with a caregiver or therapist, it allows for training using elements of walking such as pelvic control, double-leg support, lunges, and step-overs.

The HKAFO brace stabilizes the lower limbs, pelvis, and trunk during standing and walking training in the following conditions:

- cerebral palsy,
- spinal meningocele,
- poliomyelitis,
- traumatic brain injury.



Adjustment of the length of the hip and ankle rails.



Switching between STAND and WALK modes is done by turning the lock.

#### 2 HINGE VERSIONS + AUTOMATIC RELEASE CABLE SYSTEM



with self-locking bolt after achieving full extension

Used only for the knee joint. It is intended for patients with quadriceps insufficiency who achieve full extension in the joint without contractures.



with a self-locking bolt after reaching full extension or 30° (depending on the operating mode)

Used for the hip joint. Enables alternating operation in two modes: STAND and WALK.

### **WALK**

The orthosis in this mode allows for free flexion and extension  $(30^{\circ} - 0^{\circ} - 30^{\circ})$  in the hip joint. Quick release of the lock allows for a smooth transition to a sitting position.

Within a secured range of 30°, the patient exercises independent flexion and extension during walking, while trying to overcome their own weight during double-leg support, lunges, and step-overs.





### STAND (TO SEAT)

The orthosis in STAND mode allows for easy transition from sitting to standing and vice versa. The orthosis automatically locks all joints once full extension is achieved. An additional pneumatic extension mechanism corrects the position of the knee joint and supports locomotor training. A lever release mechanism allows for simultaneous release of all joint locks and transition to a sitting position (SEAT).

The orthosis ensures active verticalization and patient participation in the process of changing position.

The one-pull cable system allows simultaneous release of the hip and knee joints.







▶ NAME OF CUSTOM-MADE PRODUCT: HKAFO brace covering the hip girdle, thighs, shins, and feet HKAFO Joint Plus Extense

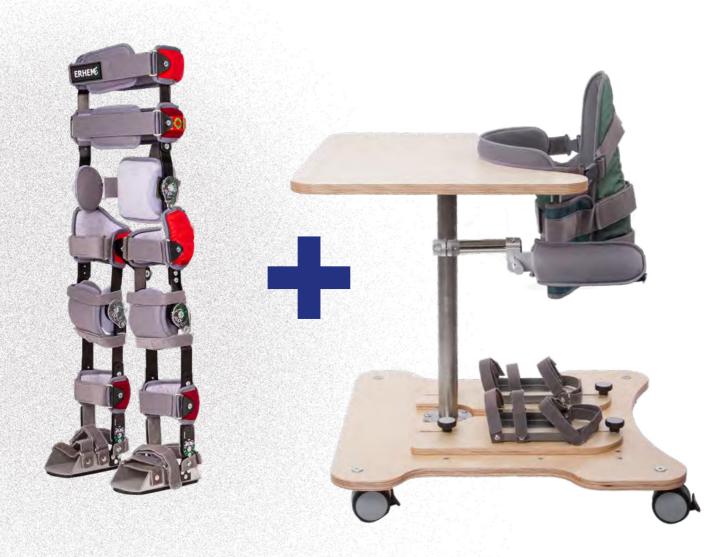
**ERHEM** 

## ERH 90.COMPLETE + HKAFO

SERIAL

└ The ERH 90.BASE standing frame is designed for children who already use HKAFO orthoses.

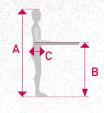
It allows the child to stand independently with stable support without the need for assistance from caregivers. They feel comfortable at their own table, which can serve as a dining table, a desk for play, manual therapy, and work. The easy and quick integration with the HKAFO orthosis increases the frequency of patient standing, facilitating full social development.



JERRAL
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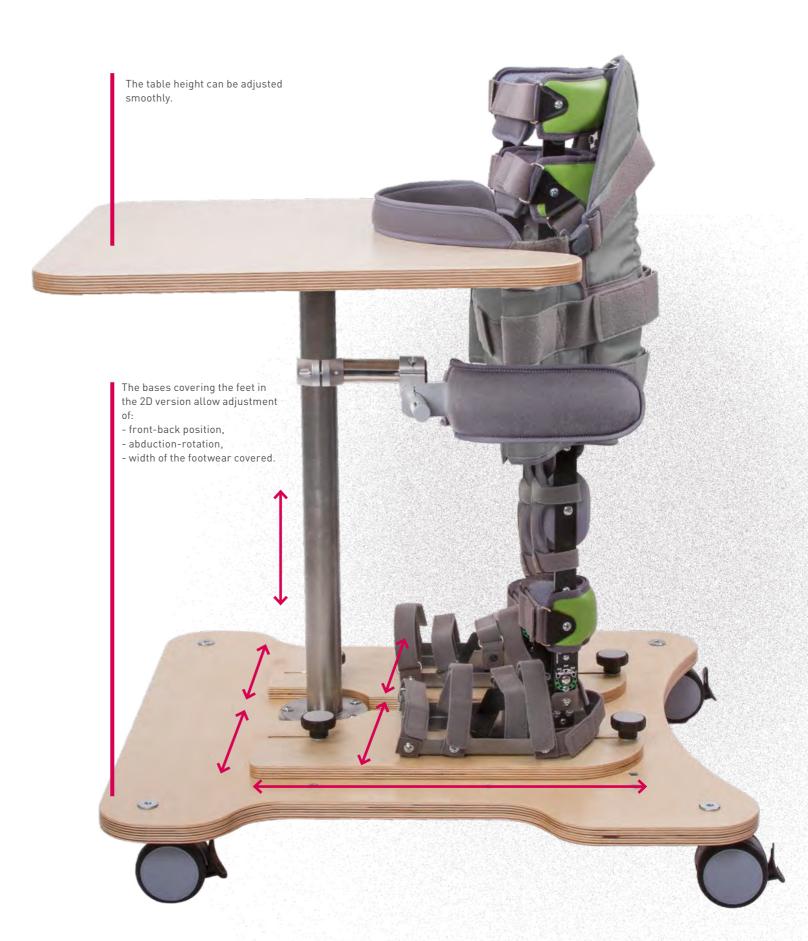
► SERIAL PRODUCT NAME: Static standing frame ERH 90 Complete





SIZE OF THE STANDING FRAME	S	М	L
A - APPROXIMATE USER HEIGHT	60-105	82-150	97-180
B - TABLE HEIGHT MIN-MAX (min. = distance from the ground to the bent elbow joint)	40-70	55-100	65-120

1	SIZE PELOTY TLS	S	М	L
	C - HIP CIRCUMFERENCE	57-75	65-88	78-110



## ERH 90.COMPLETE





► ERH 90.COMPLETE enables verticalization without additional devices. It is designed for children and adolescents with neurological disorders who are unable to stand independently but require verticalization. The ERH 90 standing frame enables vertical mobility, has a beneficial effect on urinary tract drainage and the circulatory system, and facilitates digestion. It also helps to reduce contractures and prevent bedsores.

#### **APPLICATION**

- cerebral palsy
- **∟** meningocele
- **▶** genetic syndromes involving limb paresis
- cranial brain injuries
- demyelinating diseases





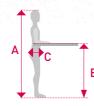


The minimalist and simple design of the standing frame allows for easy and independent adjustment of each section: the table, hip ring, knee joints, foot settings, and hip abduction.



► SERIAL PRODUCT NAME: Static standing frame ERH 90 Complete





SIZE OF THE STANDING FRAME	S	М	L
A - APPROXIMATE USER HEIGHT	60-105	82-150	97-180
B - TABLE HEIGHT MIN-MAX (min. = distance from the ground to the bent elbow joint)	40-70	55-100	65-120

SIZE PELOTY TLS	S	М	L
C - HIP CIRCUMFERENCE	57-75	65-88	78-110

Thoracolumbar sacral pad The anatomical contouring on the pelvis properly supports the patient's weight. The pad is equipped with an internal, flexible frame that can be individually shaped.

> Adjustable hip belt pads ensure proper stabilization of the pelvis in both the frontal and sagittal planes.

The table height can be adjusted smoothly.

Adjustment of height, depth, and width of knee joint support.



Choice of stable legs or casters with brakes.

The foot-enclosing bases allow adjustment of:

- the width of the enclosed footwear,
- the front/back position,
- abduction/rotation in the hip joints,
- pronation at maximum abduction in the hip joints.







### MORE INFORMATION ABOUT PRODUCTS:



- ► The manufacturer reserves the right to make changes to the products.
- ► The photos in the catalog may differ slightly from the actual appearance of the product.
- ► The information contained in the catalog is for informational purposes only and should not be used to make decisions about whether to undergo treatment or other medical procedures.
- ▶ Interpretation should be made by a medical specialist.
- ► These are medical devices; use them in accordance with the instructions for use or the label.

