

# Armeo® Spring Pediatric

## Functional Arm and Hand Therapy for Children



The Armeo® Spring Pediatric is specifically designed for and adapted to the needs of children with movement impairments in their arms and hands resulting from neurological conditions and is based on the Hocoma product ArmeoSpring.

### **Key Facts**

- The Augmented Performance Feedback motivates the patient with intensive and functional movement exercises.
- The Assessment Tools allow an easy documentation and precise assessment of the therapy process.
- The Arm Weight Support helps to reveal any remaining motor functions and increases movements within a 3D workspace.
- The length of the orthosis and the amount of Arm Weight Support can be adjusted to children in the age group of about 4-12 years.

### **Availability**

Depending on national registration procedures.

### **Further Information**

For information on the ArmeoSpring, please see the Armeo Therapy Concept brochure published by Hocoma. Or contact your Hocoma Sales Representative.

## Product Overview Armeo® Therapy Concept

		Armeo® Power	Armeo® Spring Armeo® Spring Pediatric	Armeo® Boom
<b>Arm Weight Support</b>	Arm Weight Support Exoskeleton for movement guidance Active arm support	• • •	• •	•
<b>Software Features</b>	Augmented Performance Feedback Grasp and release exercises Training supported by force fields	• • •	• •	•
<b>Assessment Tools</b>	A-MOVE A-GOAL A-COORD A-ROM A-FORCE A-STIFF	• • • • • •	• • • •	• •
<b>Therapeutic Goals</b>	Increase active range of motion Increase strength and endurance Facilitate self-initiated movement Increase selective control Mobilize patients	• • • • •	• • • •	• • •

## Technical Details Armeo® Spring Pediatric

<b>Technology:</b>	<ul style="list-style-type: none"> <li>Instrumented arm orthosis with integrated Arm Weight Support</li> <li>Pressure sensitive handgrip for functional grasping tasks</li> <li>Software library with functional exercises for motivating patient interaction</li> </ul>
<b>Features:</b>	<ul style="list-style-type: none"> <li>System mounted on a trolley for easy transfers of the ArmeoSpring Pediatric</li> <li>Electric lifting column for comfortable height adjustment (range: 400 mm)</li> <li>Instrumented degrees of freedom for               <ul style="list-style-type: none"> <li>Shoulder flexion / extension, horizontal abduction / adduction, internal / external rotation</li> <li>Elbow flexion / extension</li> <li>Forearm pro / supination</li> <li>Wrist flexion / extension</li> </ul> </li> <li>Pressure sensitive handgrip for intensive reach and grasp exercises at an early stage of therapy</li> <li>Fast and easy swapping between right- and left sided application</li> <li>The length of the orthosis is adjustable between 14 to 22 cm for the upper arm and 15 to 30 cm for the forearm (elbow to wrist)</li> <li>Flat screen monitor (24 inch) with integrated power supply and speakers</li> </ul>
<b>Armeocontrol Software:</b>	<ul style="list-style-type: none"> <li>User database allows managing of patient settings &amp; individual therapy schedules</li> <li>Exercise workspace &amp; difficulty level adjustable to the patient capabilities</li> <li>Functional exercises for intensive and motivating therapy</li> <li>Assessment exercises that capture hand trajectory and joint angles</li> <li>All exercises can be adjusted to choose the appropriate level of difficulty for challenging patient interaction</li> <li>Export routine to produce detailed, Excel readable therapy reports</li> </ul>
<b>Dimensions:</b>	85 x 75 cm (L x W) Maximum weight: 82 kg

Subject to technical modifications without notice.

### Product disclaimer

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