

SMART ORTHOTIC TREATMENT to improve function, compliance, and comfort

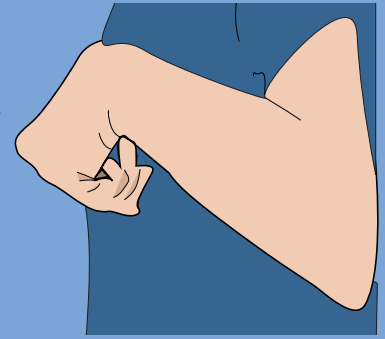


- Innovative Resting Hand Orthosis designed with the patient in mind
- NO bulky straps! Easy for patient to don and doff
- NOW also available in Pediatric Sizes!



BACKGROUND

Over time many stroke patients will develop a variety of complications such as spasticity, paralysis, pain, loss of sensation, decreased proprioception, and edema of the hand and arm. These complications can cause a reduction of mobility in the hand and eventually contractures may develop. Spasticity in patients diagnosed with cerebral palsy leads to flexion at the wrist and fingers. Therefore, it is important to start with orthotic treatment along with hand therapy at an early stage before spasticity is established and contractures occur.



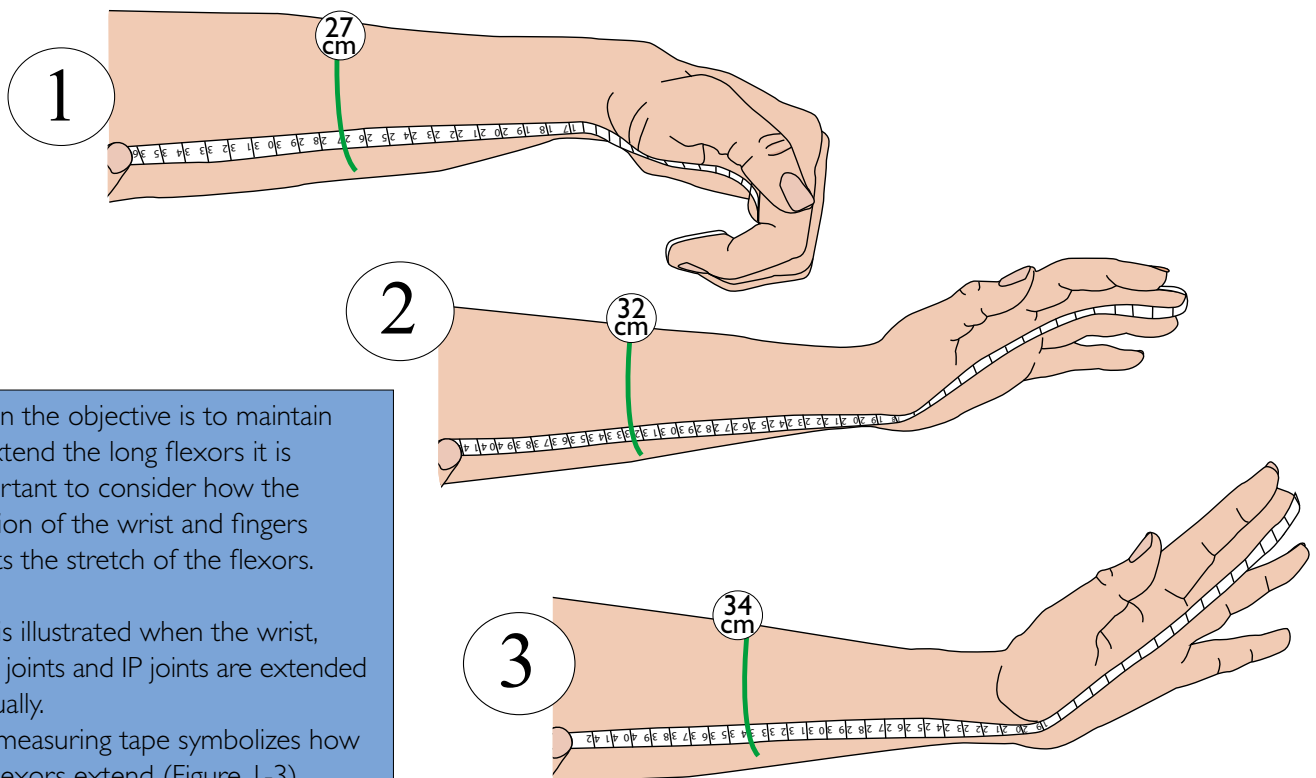
INTENDED USE

S.O.T is a resting orthosis designed for patients with spasticity or paresis of the hand and arm when the objective is to maintain or increase the mobility of the upper limb. The S.O.T is smooth, light weight and has an aluminum core that allows adjustment to the desired position. The aluminum core is embedded into polyethylene foam and covered with fabric. The brace is delivered in a resting position, this position offers relaxation to the hand and may also give pain relief to the patient. It also provides a good biomechanical position that may reduce the risk of flexor shortening at the wrist and fingers. Patients suffering with rheumatoid pain may benefit from S.O.T, as it prevents the hand from falling into unfavorable painful positions. The orthosis can be readjusted into a POSI or Intrinsic-Plus Position.

The main indications for S.O.T in a resting position are, stroke, CP, rheumatoid arthritis, radialis paresis, muscular dystrophy, edema, and plexus injury.

MAINTAIN OR INCREASE ELONGATION OF LONG FLEXORS

- When contractures and deformities are present



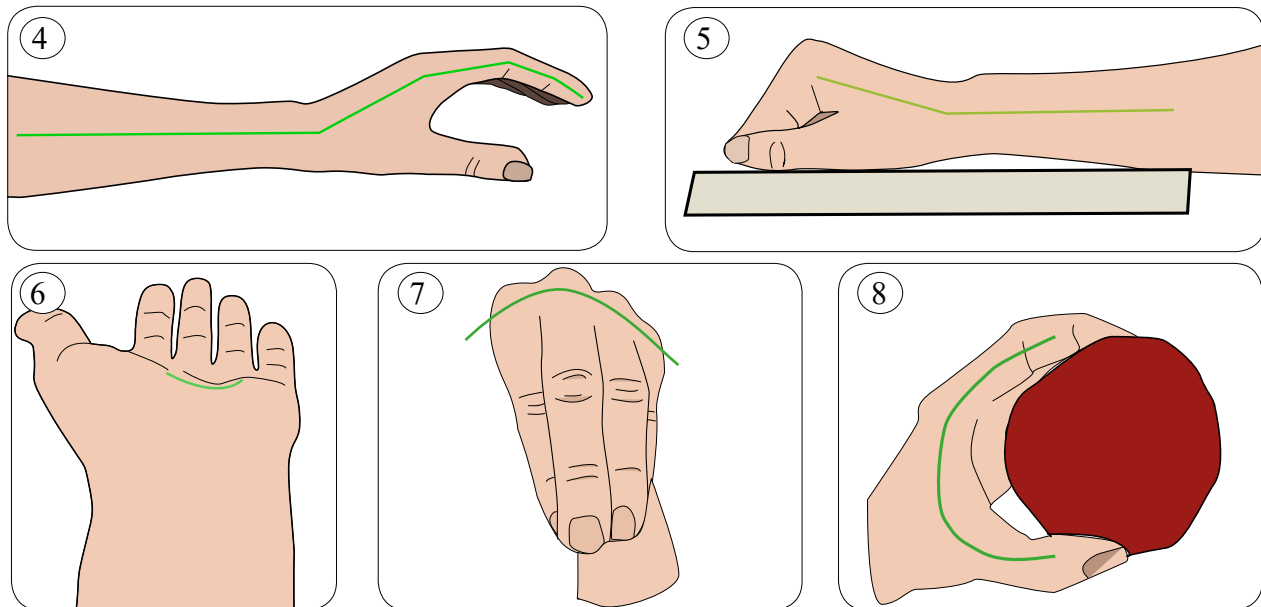
When the objective is to maintain or extend the long flexors it is important to consider how the position of the wrist and fingers affects the stretch of the flexors.

This is illustrated when the wrist, MCP joints and IP joints are extended gradually.

The measuring tape symbolizes how the flexors extend (Figure I-3).

RESTING POSITION SUPPORT FOR THE MCP AND CMC JOINTS IN THE THUMB

- S.O.T Resting Orthosis is supplied in a resting position. Figure 4 and 5 are a guide of how the wrist (4) and the fingers (5) generally should be positioned. An individual assessment of the patient should always be done before fitting.
- S.O.T Resting Orthosis supports the arches of the hand (picture 6 -8) and the position of the thumb. The orthosis anatomic configuration supports the important thenar muscles, and the CMC and MCP joints. This is particularly important for the intended patient groups as the thumb tends to adduct at the CMC joint and hyperextend at the MCP joint.
- S.O.T Resting Orthosis increases the conditions for an effective grip (Figure 8).



PREVENTS OR REDUCES THE RISK OF EDEMA

Instead of conventional straps over the fingers, hand and arm (that can cause edema) the S.O.T Resting Orthosis has a soft elasticized cover, which keeps the hand and arm in place. The pressure-distributing cover, in combination with an optimal position of the wrist and hand reduces the risk of edema as it facilitates venous return. The material's smooth outer surface, and its low profile allow the orthosis to fit under clothing (9). To provide firmer pressure over the wrist (for spasticity), the cover can be supplemented with the non-elastic wrist strap (10).



Using S.O.T wedges, the degree of stretching is changed during treatment to achieve gradual change.

BETTER POSITIONING OF THE FINGERS

S.O.T finger divider prevents skin irritations between the fingers. It also prevents ulnar/radial deviation at the fingers and contributes to a better resting position (Figure 11).

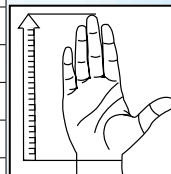
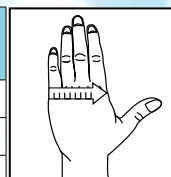


NOW AVAILABLE IN SIZES TO FIT FROM TODDLER TO ADULT!



**NEW
Smaller
Sizes**

Item no. Left	Item no. Right	Description	Side	Size	MCP Width	Wrist to finger top
28710 1008	28710 2008	S.O.T Resting Orthosis	L/R	XXX-Small	5.5cm (2")	≤ 12cm (4.75")
28710 1009	28710 2009	S.O.T Resting Orthosis	L/R	XX-Small	≤ 6.5cm (2.5")	≤ 14cm (5.5")
28710 1010	28710 2010	S.O.T Resting Orthosis	L/R	X-Small	≤ 7.5cm (3")	≤ 16cm (6.25")
28710 1011	28710 2011	S.O.T Resting Orthosis	L/R	Small	≤ 7.5cm (3")	≤ 18.5cm (7.25")
28710 1012	28710 2012	S.O.T Resting Orthosis	L/R	Medium	≤ 9cm (3.5")	≤ 20cm (7.75")
28710 1013	28710 2013	S.O.T Resting Orthosis	L/R	Large	≤ 9 cm	≤ 21cm (8.25")
28711 0009		MCPWedge	Bilat.	XX-Small	Width 65mm (2.5")	Height 10mm (.4")
28711 0011		MCPWedge	Bilat.	Small	Width 75mm (3")	Height 15mm (.6")
28711 0013		MCPWedge	Bilat.	Large	Width 90mm (3.5")	Height 20mm (.75")
28712 0003		Finger Divider	Bilat.	Pediatric		
28712 0005		Finger Divider	Bilat.	Medium		
28712 0007		Finger Divider	Bilat.	Large		
28713 0009		Extra Strap	Bilat.	XXXS-XS		
28713 0012		Extra Strap	Bilat.	Small-Large		
28714 1008	28714 2008	Additional Cover	L/R	XXX-Small		
28714 1009	28714 2009	Additional Cover	L/R	XX-Small		
28714 1010	28714 2010	Additional Cover	L/R	X-Small		
28714 1011	28714 2011	Additional Cover	L/R	Small		
28714 1012	28714 2012	Additional Cover	L/R	Medium		
28714 1013	28714 2013	Additional Cover	L/R	Large		



Item no.	Description	XXXS	XXS	XS	S	M	L
28710	S.O.T Resting Orthosis	X	X	X	X	X	X
28714	Additional Cover	X	X	X	X	X	X
28712	Finger Divider	Pediatric/Sm Adult		Medium		Medium/Large	
28711	MCPWedge	XX-Small		Small		Small/Large	
28713	Extra Strap	XXXS-XS			Small-Large		