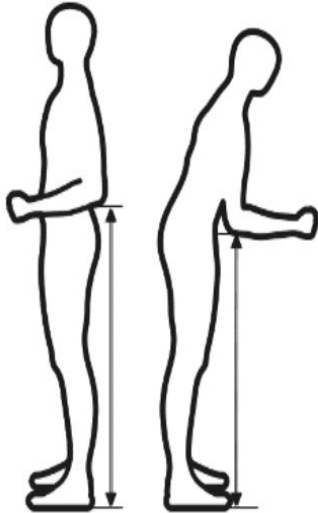


# Smart Crutches

SmartCRUTCH's patented modular design distributes your body weight over your forearm, releasing pressure and pain from your hands, wrists and shoulders. Fully adjustable, it can be used comfortably as both a platform or forearm crutch.



<b>SPECIFICATIONS</b>	<b>JUNIOR</b>	<b>PETITE</b>	<b>ADULT</b>
Weight of Single SmartCRUTCH	520g	1004g	1007g
Forearm Length Range	15-21cm	22-25cm	24-32cm
Circumference Range of Cuff	18-25cm	28-32cm	28-32cm
Height Ranges for user with length of lower leg used at that range	122-160cm	146-165cm (500mm Lower Leg)	166-185cm (600mm Lower Leg) 186-195cm (700mm Lower leg)
Elbow Height Range at 20° - 60° Angle Setting	75-100cm	86-108cm	96-130cm
Elbow Height Range at the 60° – 90° Angle Setting	71-98cm	82-104cm	92-124cm
User Weight Limit – <b>NON-Weight Bearing Use</b>	50kgs	120kgs	120kgs
User Weight Limit – <b>Weight Bearing Use (for Stability &amp; Balance)</b>	60kgs	130kgs	130kgs



- *To measure your elbow height, stand next to a wall, in your preferred shoes*
- *Hold your arms and posture in the position that YOU would naturally use the crutch*
- *Make a mark on the wall at your elbow*
- *Measure from the mark to the floor*

## FEATURES

- Ergonomically designed grips provide natural wrist angle and even load across palm.
- 15° to 90° forearm platform settings to meet personal comfort and mobility requirements.
- Locking spline allows for secure rotational angle settings.
- 3-point forearm length settings for additional customization.
- 10-position push-pin height adjustment (Range between sizes: 4' 8" to 6' 7").
- Hourglass-shaped foot design maximizes surface contact.
- Shock absorption built into the design of the specialized ferrule and cuff memory foam.

## BENEFITS

- Transfer of weight to forearm results in less fatigue and injury prevention.
- Less pressure on hands reduces pain, discomfort or blistering.
- Mitigates the potential of pinched or damaged nerves.
- Improves posture and gait resulting in less pain or fatigue.
- Allows freedom of hands while still providing support.
- Easier to navigate while ascending or descending stairs.
- 10 fashion colors to suit personal style.

## Compare conventional crutches to smartCRUTCH®

smartCRUTCH® also helps maintain proper posture, relieve stress and minimize fatigue

### Axillary Crutches



For more than 80 years the conventional underarm (axillary) crutch has been the standard issued walking device for temporary disabilities or injuries in the United States.

Not much has changed since their inception apart from replacing wood construction to lighter weight aluminum in the early 1960's.

They have certainly served a purpose but their primitive design continues to cause irritation and severe injury to nerves, tendons and soft tissue found in the axilla (armpit).

Also, direct load on the hands and wrists can cause additional joint and nerve damage along with blistering or callusing of the palms.

### Forearm Crutches



Forearm crutches are commonly used throughout Europe for both short term and long term use.

They are beginning to gain popularity in the United States and Canada but are mostly used by individuals with long term disabilities.

The forearm crutch design does have some advantages over underarm crutches by eliminating damage to the axilla (armpit) region of the body.

However, their inherent design places direct weight load on the hands and wrists which can cause damage to palms, joints, nerves and tendons with limited use.

smartCRUTCH®



The smartCRUTCH® design incorporates all of the benefits of a forearm style while minimizing or eliminating the compressive forces on the hands and wrists.

It does this by allowing the user to adjust the angle of the forearm platform to reduce or increase the amount of weight load to the hands and wrists.

Transferring this load to the forearm can reduce or potentially eliminate injuries commonly found with the use of standard underarm or forearm crutches as stated above.

smartCRUTCH® also helps maintain proper posture, relieve stress and minimize fatigue setting you up for a safe and speedy recovery.

**smartCRUTCH is modular in design, setting new standards in mobility.**

**smartCRUTCH® Modular Design.**



### **Allows even weight distribution for maximum comfort**

- Maximizes comfort through even distribution on hands, wrists and forearms.
- Spreads load over larger surface area minimizing pressure.
- Fully adjustable to meet personal comfort and mobility requirements.

### **Ergonomically design grips**

- Enhances comfort and maximizes load displacement.
- Grips are offset 7° to ensure stability and comfort.
- Specifically designed left and right hand grips.

### **Fully adjustable, modular design**

- User variation and customization.
- 3 point forearm length settings.
- Hourglass-shaped foot maximizes surface contact.

## Conventional Axillary Crutches.



### Pressure on axilla (armpit)

- Discomfort.
- Pain.
- Nerve Impingement or Damage.

### Wrist strain

- Discomfort.
- Pain & inflammation.
- Damage to joints.

### Pressure on palms of hands

- Excessive pressure causing blistering/callusing.



### **Requires the ability to grip**

- Use limitations.

### **Shock transmitted through the body with every step**

- No effective suspension mechanism to minimize the effect of jolts.