

Hybrid-Mesh

NEW CAST & SPLINT

HM Cast has unique mesh structure, completely different from other conventional casts.



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One and only water-friendly,
wet-able and dry-able cast

New Cast

Hybrid-Mesh

NEW CAST & SPLINT



Safe and comfortable next-generation cast

NEW CAST

About Us

Do you know how uncomfortable and unpleasant to wear orthopedic casts?
After years of research, New Cast Industry Co., Ltd. has opened a new chapter in orthopedics treatment by developing HM Cast, a new type of cast that is completely different from conventional casts.


Unlike plaster or fiberglass based cast, new and groundbreaking HM Cast allows orthopedic cast patients to take a shower or enjoy water activities without worrying about skin irritation.

Now the era of plaster casts has gone.


Superb breathability, ease of application, X-ray transmission and light-weight are some of key benefits of HM Cast. In addition, the materials used in HM Cast are environment-friendly. Above all, HM Cast will significantly improve patients' quality of life.




01
HM Cast is a new generation of cast utilizing stocking type application method



02
HM Cast is superior in ventilation.



03
HM Cast allows taking a shower




- 2001. 06 Found New Cast Industry Co., Ltd. [110111-2256025]
- 2001. 07 Licensed for manufacturing medical devices [No 1061]
- 2001. 12 Registered with the U.S. FDA [No 9049386]
- 2002. 03 CE SDOC (Supplier's Declaration of Conformity) [No 93/42/EEC]
- 2003. 07 Obtained a US patent [No US 6,585,671 B2]
- 2004. 04 Appeared in International Patent Publication
- 2004. 06 Obtained CLEAN business place certification [No 7602 Issue]

- 2004. 10 Obtained CE approval (British FDA) [No CA 008401]
- 2004. 12 Obtained Quality Management System certification (ISO 13485: 2000 /certification) [No 18269-QMS-3958]
- 2014. 04 Obtained Quality Management System certification (ISO 13485: 2003 /NS-EN ISO 13485:2012)
- 2014. 06 Registered a patent on a cast for fracture patients [Patent No. 10-1409235]
- 2015. 10 Applied for skin protector design

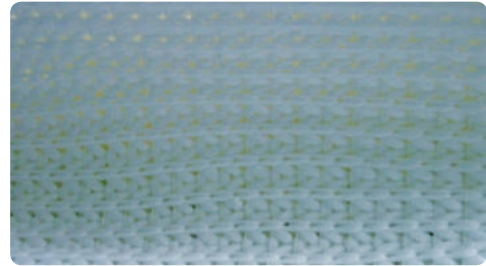
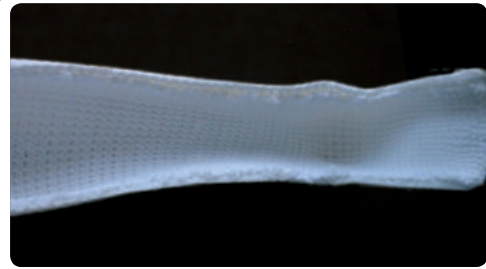


Comparison with existing products in case of liquid permeation



Conventional Cast

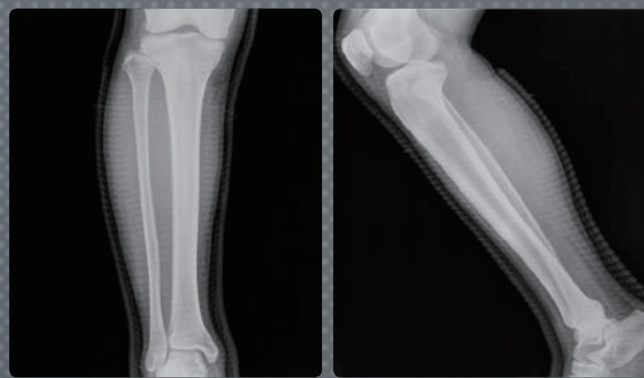
Cotton bandage used in combination with conventional cast provides poor or no ventilation, causing unsanitary conditions inside the cast like decay, foul odor and itching. When conventional cast is exposed to moisture for extended period, skin irritation or maceration occurs.



HM CAST

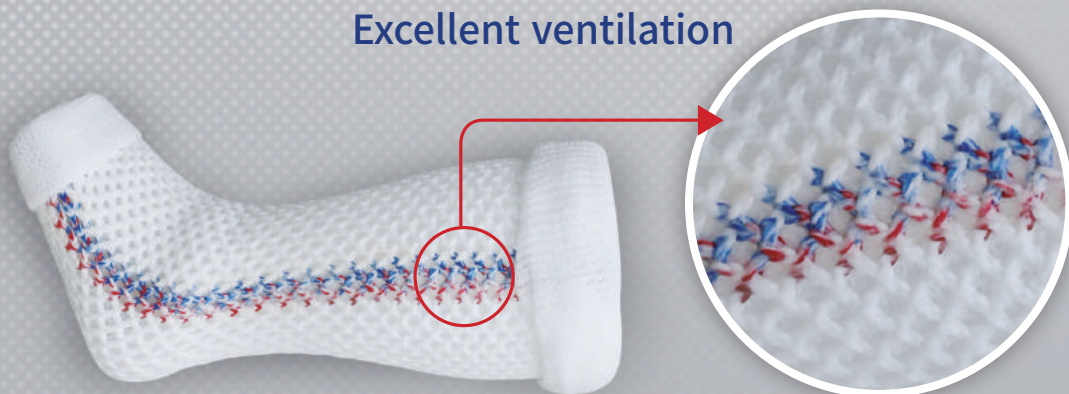
HM Cast's skin protector is made of polyolefin material instead of cotton. Polyolefin is water-repellent and dry-able fabric.

Excellent X-ray Penetration



Sample
▶ **HM CAST**
Application

Excellent ventilation



[An enlarged image]

Introduce Product

Features and Advantages of HM CAST



Ventilation

HM Cast is made of polyester fabrics and is specially-woven so that it creates an air layer, thus minimizing itching and odor significantly. HM Cast's skin protector can easily be dried after shower with good ventilation and body heat.



Ease of Application

HM Cast is easily applied like wearing a sock or stocking. Its elasticity makes it conform to the contour of each patient's body without the risk of pressure point.



X-ray Penetration

HM Cast has good X-ray penetration which enables checking of fine synostosis progress.



Lightness

HM Cast's unique skin protector using a special material create an air layer enabling an easy absorption and excretion of water. Completed HM cast is 30% lighter than other conventional casts.



Customizable

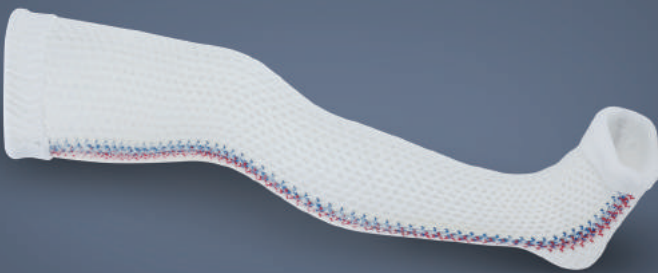
HM Cast can be made in custom color or design.



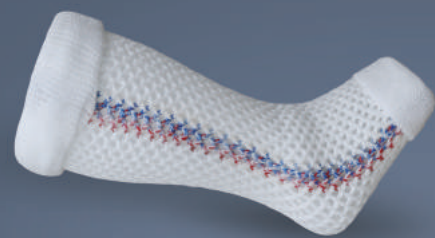
Eco-friendliness

HM Cast is disposable as it is made of poly cotton fabrics.

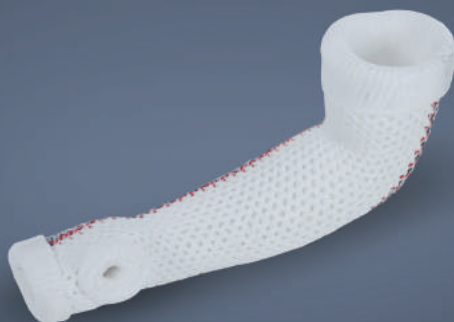
Long Leg Cast



Short Leg Cast



Long Arm Cast



Short Arm Cast



A whole new concept cast that never existed before.

NEW CAST

Features and Advantage of HM SPLINT

1 Strength

HM Splint Uses a special cotton based elastic fabric, allowing perfect fit on curved parts with proper hardness.

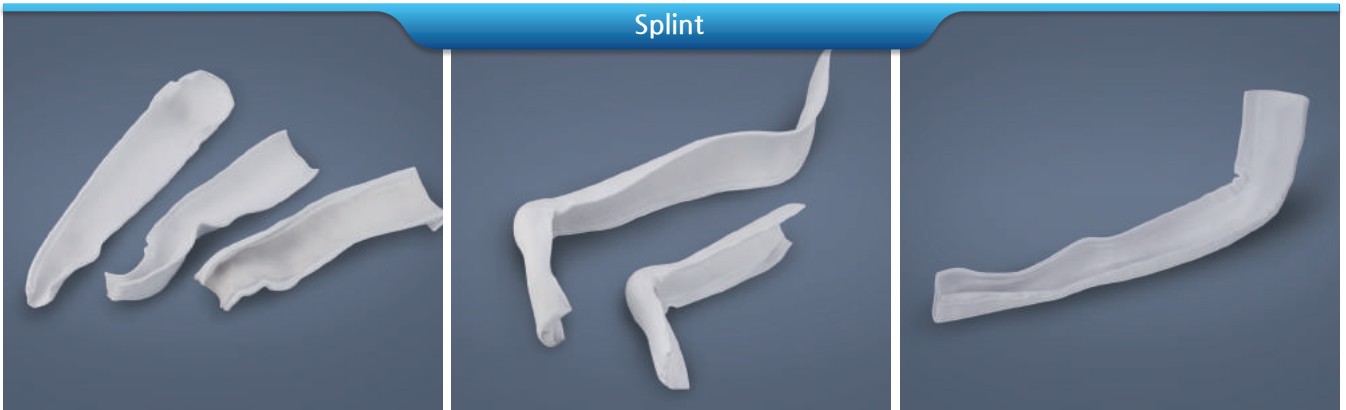
2 Ease of Application

HM Splint has smoother surface than conventional fiberglass splints and is superior in correcting broken bones. HM Splint is especially effective when fastening winding parts.

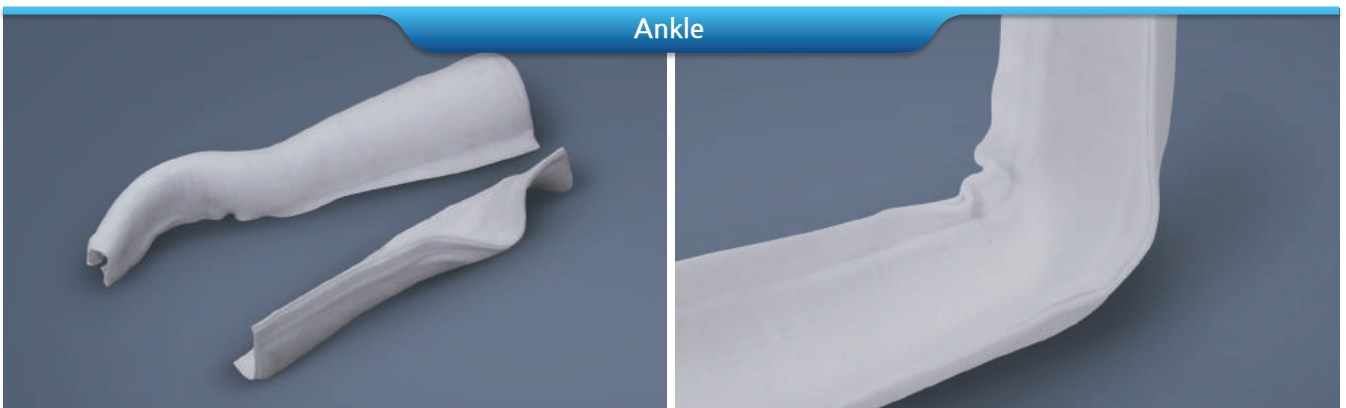
3 Protection of Injury

- HM Splint's elasticity creates a perfect elliptic shape on folded parts, preventing injury from friction.
- Unlike existing fiberglass splints with sharp edges which cause cuts on both patients' and operators' skin, HM Splint has protected and smooth edges.

Splint



Ankle



Introduce Product

01

Photos of HM CAST application
Short Arm



Roll the skin protector like a donut, place it on the fingertips and pull it up.



Applied skin protector



Take HM Cast out of packing paper and roll it in donut shape. Cut parts of the cast if fixing the thumb.



Dip it in the water for 3 to 5 seconds, and gently shake couple times it out once or twice.



Leave about 3cm on the ends of the skin protector (This is for the easy completion of folding the protector on the ends after treatment) on the thumb part, roll the sectioned cast and fold up the protector to fix it.



The completed cast



When doing molding, rub the cast with lightly moistened palms to make the cast fit and hard.



Unroll and raise the cast to the end, and then fold the end of the skin protector for the finish.

NEW CAST

02

Photos of HM CAST application
Short Leg



Roll the skin protector in donut shape, place it on the toes and un-roll it.



State of the skin protector applied



Leave about 3cm (~1 inch) on the ends of the skin protector (This is for the easy completion of folding the protector on the ends after treatment) and put on the cast over the protector and pull it up.



Dip it in the water for 3 to 5 seconds, and gently shake couple times it out once or twice.



Take a cast out of packing paper and roll it into a donut shape.



Fold the both ends of the protector to wrap the cast up and mold it. When doing molding, rub the cast with lightly moistened palms to make the cast fit and hard.



Completed cast



Sample HM Cast Application