江苏扬子江医疗科技股份有限公司
JIANGSU YANGTZE RIVER MEDICAL TECHNOLOGY CORP.

Washable Orthopedic Cast



Washable orthopedic cast

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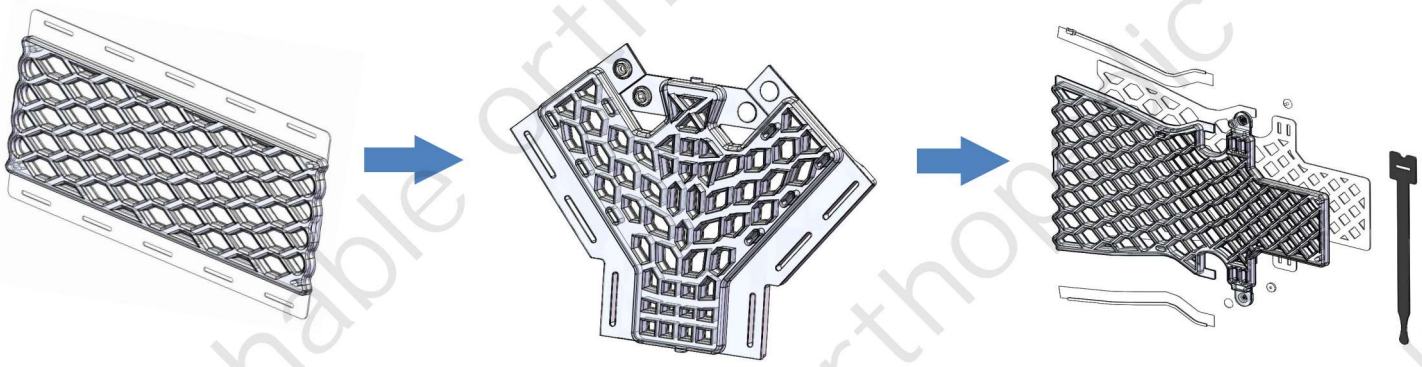

- The orthopedic cast is the first of its kind an orthopedic cast that has the rigidity to hold the fractured parts as well as it ensures proper skin ventilation. comes as an easy to fix wearbale material on the injured part.

- After wearing, light treatment completes the curing process and makes the cast rigid. This process is quick and only takes 3-10minutes, depending on the size of immmobilizer. After the course of therapy, cast can be removed easily without the use of any other external cast cutter/spreader.

- Radiolucency of immobilizer does not interfere with the radiological imaging and diagnosis.

Washable orthopedic cast

CLINICAL TARGET

Fracture



Soft Tissue Inuiry



Orthopedic post-surgical support



- Fracture: especially effective for simple fractures where the bones can be properly aligned and are stable enough to be immobilized, aiding in healing.
- Soft Tissue Injuries: Supports facilitate immbolization and support of injured ligaments.tendons, or soft tissues.
- Orthopedic Post-surgical support: post surgery invloving bone restructuring, immobilization or correction, immobilizer can provide stability and support during the recovery process.
- Bone deformities: used to correct or prevent the worsening of bone deformities and to support the normal development and growth of Child's skeleton.
- Protecting: protecting the injured limb during the healing process, reducing the risk of injury or displacement.

washable orthopedic cast

Background

COMPARISON CHART

	1st Generation	2nd Generation	3rd Generation	4th Generation		5th Generation		6th Generation	
	Plaster of paris (POP)	Fiberglass	Soft cast , Polyester based resin	Hybrid mesh	Soft cast/ Fiberglass with washable liner	Thermoplastic Braces	Thermoplastic cast solution	3D printed cast	I WIN
									
Application process	Normal water bath	Normal water bath	Normal water bath	Normal water bath	Normal water bath	Hot water bath or Hot air oven	Hot air oven	3D scanning - 3d modeling - 3d printing	Cured with light device
Material sensitive to moisture	Yes	Yes	Yes	No	No	No	No	No	No
Mouldablity	Easy and good	Poor	Moderate	Moderate	Moderate	Easy and good	Easy and good	No adjustment after printing	Easy and good
Skills required for application	Advanced	Advanced	Advanced	Advanced	Advanced	Advanced	Moderate	Moderate	Moderate
Application time	30-45 mins	20-25 mins	20-25 mins	20-25 mins	20-25 mins	25-30 minutes	25-30 mins	12-24hrs	10-12 mins
Post curing time	10-12 hrs	15-20 mins	15-20 mins	15-20 mins	15-20 mins	10-15 mins	10-15 mins	NA	5-10 mins
Weight	Very heavy	Light	Light	Light	Light	Light	Light	Very Light	Very Light
Rigidity	Strength reduce over period of time due to moisture	Very rigid, Too strong to cut	Flexible, Easy to cut	Very rigid, Too strong to cut	Very rigid, Too strong to cut	Loss of rigidity with higher temperature	Loss of rigidity with higher temperature	No change due to heat or moisture	No change due to heat or moisture
Washability	No	No	No	Yes (Partial)	Yes (Partial)	Yes (Partial)	Yes (Partial)	Absolute washable	Absolute washable
Drying after washing	NA	NA	NA	30 mins-1 hour (Special care required to dry cast)	30 mins-1 hour (Special care required to dry cast)	30 mins-1 hour (Special care required to dry cast)	Special caring required to dry	Self drying	Self drying
Skin hygiene	Poor	Poor	Poor	Good	Good	Better	Better	Best	Best
Dead skin accumulation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Visibility of skin after application	No	No	No	No	No	No	No	Yes	Yes
Surface of contact	Stockinette	Stockinette	Stockinette	Stockinette	Stockinette/direct padding material	Direct skin	soft layer	Direct skin	Water non-absorbable foam
Skin irritation	Highly irritation	Highly irritation	Highly irritation	Quite less in comparison to fiberglass	Highly irritation	Less irritation	Less irritation	Very less / No irritation	Very less / No irritation
X ray penetration	Very less	Partial	Partial	Yes	Partial	Partial	Partial	Yes	Yes

NOTE: All pictures shown are for illustration purpose only. It is not intending to compare any specific brand / design / company.

I WIN washable orthopedic cast

Absolute washable orthopedic immobilizer: the only way to go!



A Prospective, Multicentric, Open label and Post Marketing Clinical Follow up Study to Monitor the Safety and Performance of Light Cured Limb Orthosis

1. [...Casting applied too tightly can lead to compartment syndrome, impairing circulation and producing local nerve damage. …]

2. [...Skin ulcers can be produced if local pressure over the skin is not avoided with adequate padding,over bony prominences....]

3. […The cast is easy to put on, quickly closed with the zipper, and hardnes in a few minutes, is also 100% waterproof and provides 53% exposed skin area...]

Conclusion: For uncomplicated care of fractures and sports injuries of limbs, Absolute washerable orthopedic immobilizer offfers more than just reliable immobilization and has advantages over contemporary plaster and cast bandages.

IWIN Washable orthopedic cast

The evolution of the orthopedic immobilizer

Yangtze products for better immobilization in clinical usage



Short Arm



Thumb



Splint

IWIN washable orthopedic cast

Washable Orthopedic Cast

Why use washable orthopedic immobilizer?



Shower:Allows daily washing and showers with cast on. water can be easily dried off with a towel and hair dryer.

Odor and itch free: Perspiration is quickly evaporated to prevent itchiness and unwanted odor.

Skin monitoring: Doctors and patients can visually check the condition of the skin through windows while wearing.

Quick application: can be readily applied at clinics or hospitals by medical professional, easily and safely removed.

Comfortable and hygienic

IWIN washable orthopedic cast

I WIN vs. Thermoplastic Cast

I WIN

cured with light device or LED light with around 5mintues and 40 °C. No change due to the heat or moisture. and Full X-ray identification.



Competitors

cured with hot air oven or hot water batch with around 10mintues and 70 °C.
loss of rigidity with higher temperature and dead skin accumulation.
Partial X-ray identification.

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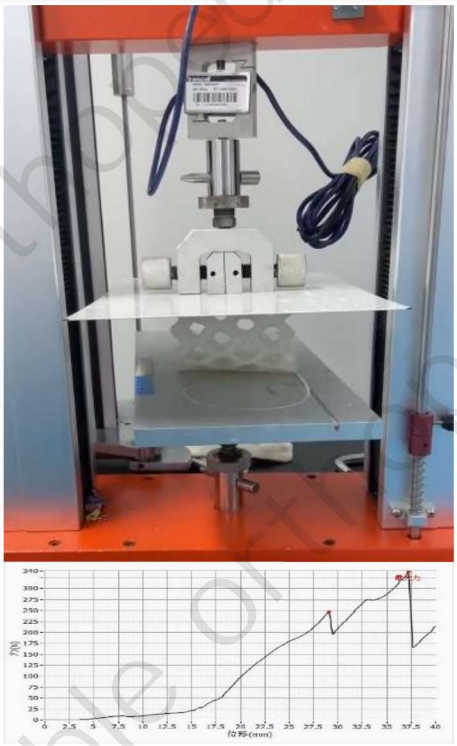
X-ray identification



I WIN's use lower density materials, so the X- ray clarity is higher and obvious.

Pressure resistance 340N



I WIN has a good pressure resistance and reduce the risk of breaking of the cast

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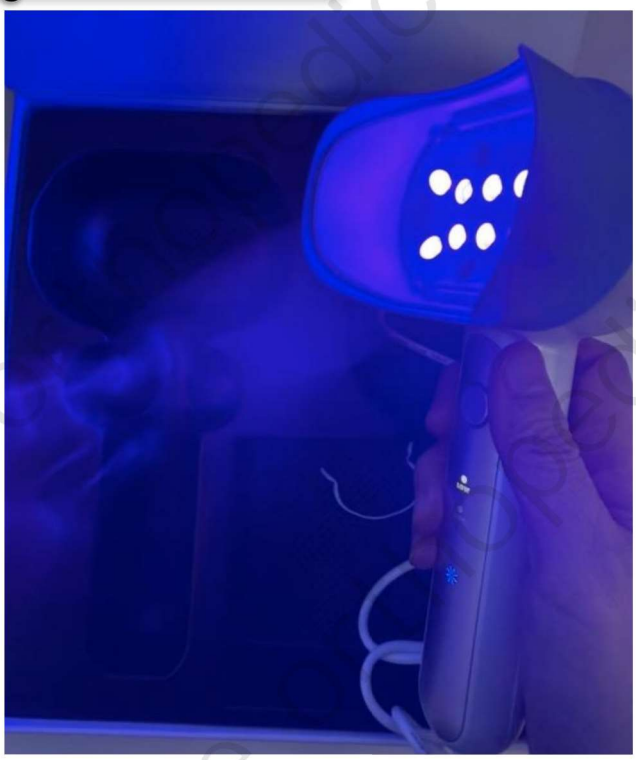
I WIN light curing solution





I WIN's patented light-curing solution has a shorter curing time and lower heat temperature, effectively improving patient comfort.

Washable Orthopedic Cast

Name	No.	Model	Specification
Short Arm	1	GD-S-QN-XS	12.5cm × 19.5cm
	2	GD-S-QN-S	15.5cm × 24.5cm
	3	GD-S-QN-M	18cm × 27.5cm
	4	GD-S-QN-L	20.5cm × 29.5cm
	5	GD-S-QN-XL	23.5cm × 31.5cm
Tong Thumb	6	GD-M-QN-S	15cm
	7	GD-M-QN-M	17cm
	8	GD-M-QN-L	19cm
	9	GD-M-QN-XL	21cm
Radial Gutter	10	GD-R-QN-S	15cm
	11	GD-R-QN-M	17cm
	12	GD-R-QN-L	19cm
	13	GD-R-QN-XL	21cm
Ulnar Gutter	14	GD-C-QN-S	15cm
	15	GD-C-QN-M	17cm
	16	GD-C-QN-L	19cm
	17	GD-C-QN-XL	21cm
Full Arm	18	GD-B-QN-XXS	13cm × 13.5cm
	19	GD-B-QN-XS	16cm × 16.5cm
	20	GD-B-QN-S	20cm × 24cm
	21	GD-B-QN-M	25cm × 28.5cm
	22	GD-B-QN-L	28cm × 33cm
	23	GD-B-QN-XL	32cm × 38cm

Name	No.	Model	Specification
Short Leg	24	GD-T-QN-XXS	20cm × 12cm
	25	GD-T-QN-XS	23.5cm × 14cm
	26	GD-T-QN-S	27.5cm × 16.5cm
	27	GD-T-QN-M	35cm × 20cm
	28	GD-T-QN-L	43cm × 24cm
	29	GD-T-QN-XL	47cm × 27cm
Thumb	30	GD-Z-QN-S	15cm
	31	GD-Z-QN-M	17cm
	32	GD-Z-QN-L	19cm
	33	GD-Z-QN-XL	21cm
Splint	34	GD-J-QN-722	7.6cm × 22.8cm
	35	GD-J-QN-730	7.6cm × 30.5cm
	36	GD-J-QN-738	7.6cm × 38.1cm
	37	GD-J-QN-1030	10.2cm × 30.5cm
	38	GD-J-QN-1038	10.2cm × 38.1cm
	39	GD-J-QN-1045	10.2cm × 45.7cm
	40	GD-J-QN-1230	12.7cm × 30.5cm
	41	GD-J-QN-1238	12.7cm × 38.1cm
	42	GD-J-QN-1245	12.7cm × 45.7cm

IWIN washable orthopedic cast

Great opportunity

A very top unique quality offer:

Competitive price with stable delivery time.

Now run to Sell!

IWIN washable orthopedic cast