SMART SPLINT

The smart way to heal

SMART SPLINT

ABOUT US:

Smart Splint is a Canadian medical device innovator redefining orthopedic care with smart, personalized splints. Our 3D-printed solutions integrate temperature regulation, hygiene automation, and smart connectivity making recovery faster, safer, and more comfortable.

www.s-splint.com

OUR VISION

- To lead the future of orthopedic care through intelligent, patient-centered technologies.

OUR MISSION

- We develop advanced orthopedic solutions that empower recovery with precision, comfort, and innovation delivering better outcomes for patients and providers alike.

"SMART HEALING. TAILORED COMFORT."

FUNCTIONALITY AND HOW IT WORKS

Smart Splint is more than a brace it's a complete orthopedic support system. Designed using biocompatible 3D-printed PLA, it provides:

- Adaptive Temperature Control: Electric heating/cooling elements optimize recovery conditions.
- Auto-Cleaning Mechanism: A built-in disinfectant system maintains hygiene using a micro-pump and Java-programmed controller.
- Smart Connectivity: Patients monitor temperature, hygiene, and healing progress via a mobile app, while healthcare providers gain remote access to treatment data.

SPECIAL FEATURES THAT MAKE SMART SPLINT STAND OUT

3D Custom Fit: Printed to patient-specific anatomy for superior comfort and healing.

Temperature Regulation: Promotes circulation and reduces inflammation via microcontroller-managed heating.

Auto-Disinfection System: Built-in cleaning with precise spray control, reducing infection risks.

Porous Design: Allows airflow, skin access, and visual monitoring of the healing area.

Smart App Integration: User and physician dashboards for temperature, hygiene, and recovery data.

Eco-Friendly: Made from renewable PLA, aligning with green medical practices.

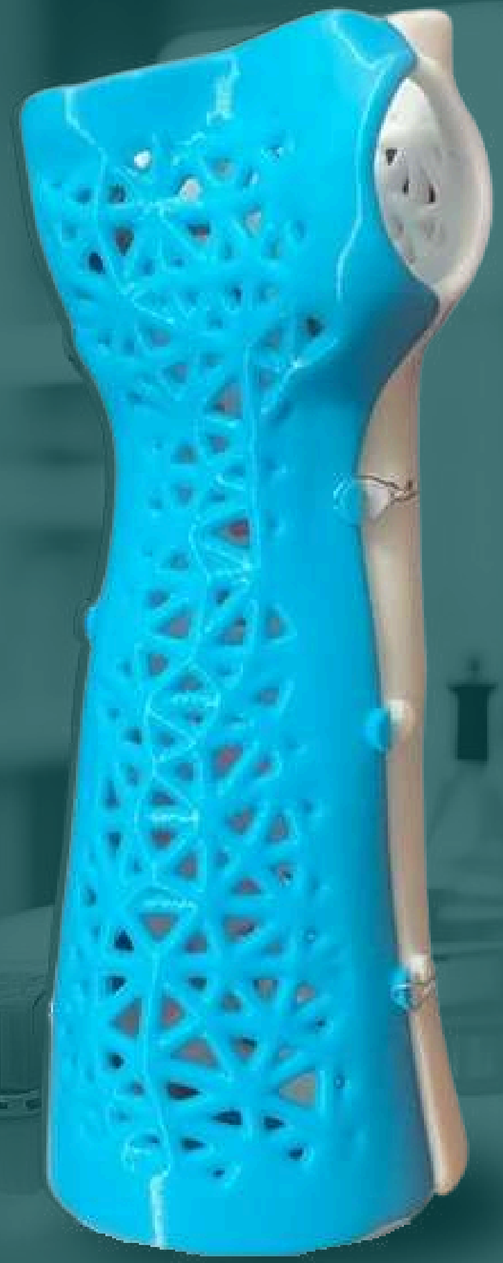
Multi-Zone Support: Customizable for all body parts, from limbs to spine.

PRODUCT DETAILS TABLE + EXPANDABILITY

Feature	Description	Expandability
Material	3D-printed Polylactic Acid (PLA)	Can integrate other biocompatible resins
Temperature Control	Java-programmed heating/cooling with sensors	AI-based predictive adjustment coming
Cleaning Mechanism	Mini pump-controlled disinfectant spray	Medication injection module (planned)
Sizes	Multiple standardized + fully customizable options	Full-body support prototypes in testing
Ventilation	Porous polycarbonate structure	Adjustable pore size/design
Connectivity	Smartphone app for monitoring and control	Cloud-based physician dashboard in dev
Use Case Coverage	Fractures, tendon repair, carpal tunnel, burns, orthopedic recovery	Pediatric and geriatric models underway

TARGET MARKET

1. Hospitals, clinics, orthopedic surgeons
2. Sports medicine and rehabilitation centers
3. Elderly and high-risk fracture patients
4. Healthcare systems in Canada, the US, and North America



FINANCIAL POTENTIAL

- Total Addressable Market (TAM): CAD 1.03 billion
- Serviceable Available Market (SAM): CAD 217 million
- Smart Splint Target (3-Year): CAD 3 million
- Projected Sales Revenue:

Year 1: CAD 213,891
Year 2: CAD 1,213,626
Year 3: CAD 2,710,863

- Break-even anticipated in Year 3

AWARDS AND INDUSTRY HONORS

1.ISO 14001:2015

2.ISO 14971: 2019

3.ISO 13485: 2016

SMART SPLINT

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Join the Revolution in Orthopedic Recovery

Visit our website to explore clinical trials, purchase options, and see how Smart Splint is changing lives. Stay informed, be connected, and empower your healing with the smartest splint on the market.