



POST OPERATIVE KNEE BRACE



01 Research

IDEA conducted an in depth research into the dynamics of the market the product will sell in. We identified key challenges that would have to be addressed in order to create a winning product. This included the study of the existing products in the market followed by patent study. Feature comparison of the existing products, their cost, usability study by visiting hospitals and meeting doctors gave valuable inputs at an early stage of conceptualization.

03 Engineering

The Engineering team developed all the internal mechanism for a wonderful product interface. Team devised a solution for compact assembly by detailing of all the components and assembly keeping in mind the product manufacturing. The design was a light weight and cost effective knee brace. Various software analysis were conducted to ensure that the design can take up the required load and is safe in all conditions.

02 Industrial Design

Product Usability, ergonomics and aesthetic were the prime concerns of the design team. The team proposed a unique solution for the Post operative knee brace, that represented a huge improvement in terms of ease of use and safety as this is a medical product. The team also focused at product differentiation in terms of its looks and aesthetics making it look stunning and like nothing else on the market!

04 Prototype

IDEA developed several prototypes to prove the concept and to ensure functionality of all the components and assemblies. Prototypes were created using CNC machining of components, Rapid prototyping (SLA) , and by soft molding. The assembly was tested to check its functionality.

For more information about this product, contact info@ideaproductdesign.com



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