



FEPSim Brand + Product Snapshot 2023



Hi... I'm FEP Sim.®

Flexion **E**xtension **P**ronation **S**upination Simulator



THE FEPSim STORY

Designed by therapists ... for therapists
... with the Glenrose Rehabilitation Hospital.

FEPSim was first prototyped by KARMA Machining and Manufacturing in cooperation with NAIT and the project was sponsored by Gwen D. from G.R.H

Glenrose (GRH) is the largest free-standing, rehabilitation hospital in Canada, serving patients of all ages who require complex rehabilitation.



PHASE 01



PHASE 02



PHASE 03



PHASE 04



ABOUT KARMED

Karma Medical Products

Incorporated in 2018 to commercialize **FESim**

US Utility Patent granted March, 2022



WHAT WE AIMED FOR

A response to the therapist's needs ... FEPSim's initial design scope included the following requirements:

01. Lightweight

- Be less than 20 lbs.
- **FEPSim** weighs 10 lbs

02. Have **attachments**

- that mimic daily tasks.
- **FEPSim** does 50+

03. Have a **protractor** to

- determine 'Range of Motion'

04. Have discrete **increments of resistance.**

05. Portable yet can be fixed to a table

06. Easily disinfected

- Optimized for IPC best practices

07. Counts rotations

- 360° full rotations
- bi-directional

08. Compact

- 15in x 15in x 15in



WHY TWO MODELS



01. Zero Resistance Capable

- Enable the protractor horizontal shaft to rotate freely. Burns, Geriatrics, etc.

02. Two Horizontal Shafts

- Resistive exercise + assessment, target unilateral or bilateral

03. Simulates Common Daily Activities

- eg. turning a key or door knob



FEPSIM 1000 - HORIZONTAL

WHY TWO MODELS

Simple and capable of exercise in three axis.

01. Simulates Work Hardening Tasks

- Bolt and Screw attachments for return-to-work exercises

02. Vertical Shaft

- Targeting specific resistance exercises + assessment

03. Incremental Increases

- Allows load bearing for return-to-work exercises



FEPSIM 1000 - VERTICAL



COMPLETE SYSTEM

50+ EXERCISES

FEPSim® Treats Multiple Issues:

- Neurological Conditions including Stroke
- Pre and Post-Surgical Upper Extremity Conditions
- Upper Extremity Weakness
- Osteoarthritis
- Forearm, Wrist and Hand Fractures
- And Many More



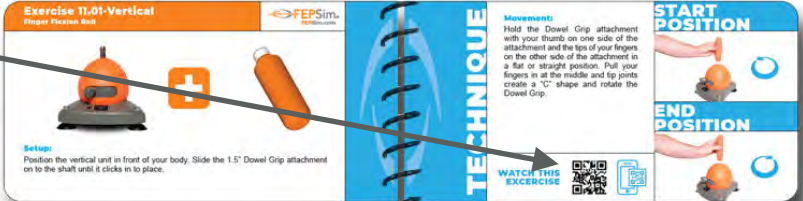
ACTION BOOK

LEAD BY EXAMPLE

The Action Book has 50+ exercises:

Designed to assist both the patient and therapist in choosing exercises to perform. Goals can be set and performance charted.

Scan the code with your phone and watch a sample exercise video on demand



WATCH THIS EXERCISE





THANK YOU

