

T SYM™

Tabletop Simulator

Technical Specifications

July 2023

A decorative graphic consisting of a series of blue, wavy, overlapping lines that create a 3D wireframe effect, resembling a stylized wave or a mesh structure. It starts from the bottom left and extends towards the top right, with some lines curving back down.

symgery



Table of Contents

- 1. Introduction 3
- 2. T SYM™ (Tabletop Simulator)..... 4
- 3. Patient Cases / Techniques / Dry Lab 5
- 4. Features 7
- 5. Surgical Instruments 7
- 6. Physical specifications 8
- 7. Contacts..... 8



1. Introduction

Symgery™ is pioneering immersive and progressive learning experience using high-fidelity simulation that mirrors real-life clinical scenarios.

The product strategy is to develop a portfolio of immersive simulators to target different learners' needs and different learning situations.

The Symgery team imagines, creates, and crafts learning experiences that go beyond traditional teaching, with a unique blend of technologies, practical techniques, and proven methodologies.

Our learning strategy is to create blended-learning syllabi using a competency- & problem-based approach for each procedure. We deliver this engaging and behavior-changing learning experience in a learner-oriented pathway.



2. T SYM™ (Tabletop Simulator)

The T SYM™ is our flagship simulator. It is designed to help learners to acquire new surgical skills in a reduced timeframe. With its best-in-class high fidelity haptics, the T SYM™ encourages learners to perform deliberate practice of defined procedures and techniques in a safe environment, while its metrics help the learner and tutor to capture, measure and track performance.

T SYM™ covers a comprehensive package for the learning of:

- Patient case procedures - Spine
- Technique procedures - Spine
- Instrumentation - Dry Lab
- Real time fluoroscopy



3. Patient Cases / Techniques / Dry Lab

Patient Cases – Spine

- L4-L5 Right Paramedian Disc Herniation - Discectomy - Release 4.1
- L2-L3 Diffuse Bulging Disc - Laminectomy - Release 4.2
- C4-C6 Stenosis - Laminectomy - Release 4.3
- C3-C7 Adjacent Segment Disease – Decompression and Fusion- Release 4.5

Techniques – Spine

- L1-S1 Pedicle Screw Insertion - Release 4.2
- C3-C7 Lateral Mass Screws Insertion - Release 4.3
- L4-L5 Transforaminal Lumbar Interbody Fusion (TLIF) - Release 4.4
- C1-C2 Screw Insertion - Release 4.5

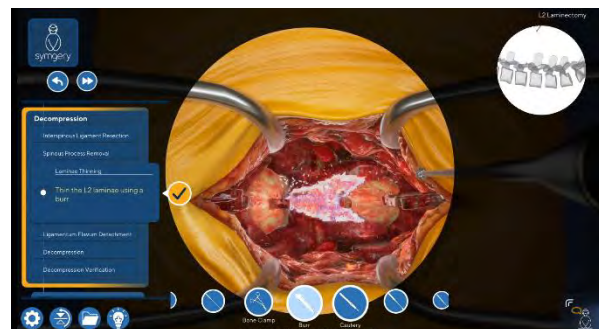
Dry Lab

- Introduction to the Awl, Burr, Depth Gauge, Drill, Kerrison and Pedicle Finder - Release 3.3
- Free form spine - Scoliosis - Release 3.3

L4-L5 Right Paramedian Disc Herniation - Discectomy
Release 4.1



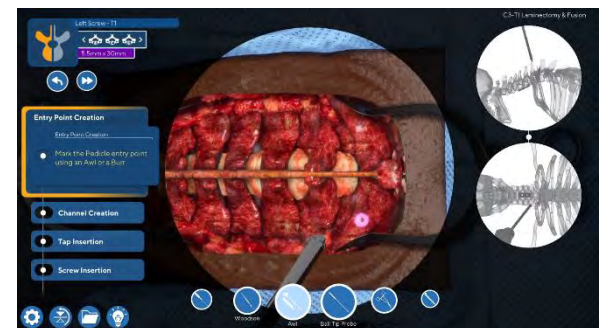
L2-L3 Diffuse Bulging Disc - Laminectomy
Release 4.2



C4-C6 Stenosis - Laminectomy
Release 4.3



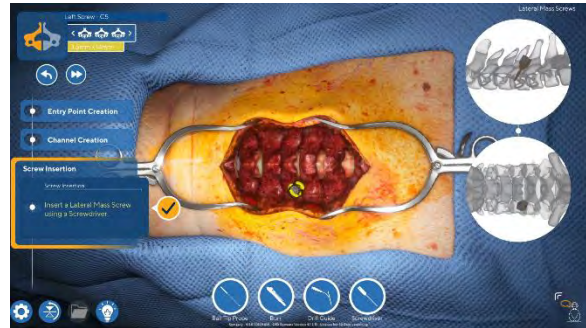
C3-C7 Adjacent Segment Disease – Decompression
and Fusion
Release 4.5



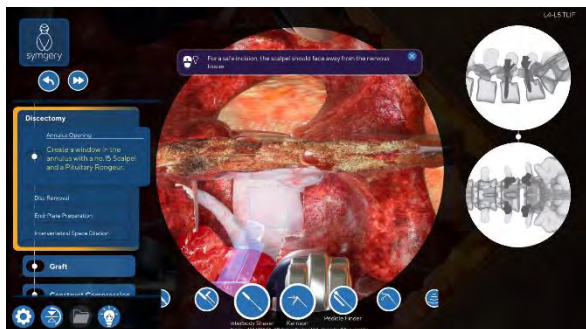
L1-S1 Pedicle Screw Insertion
Release 4.2



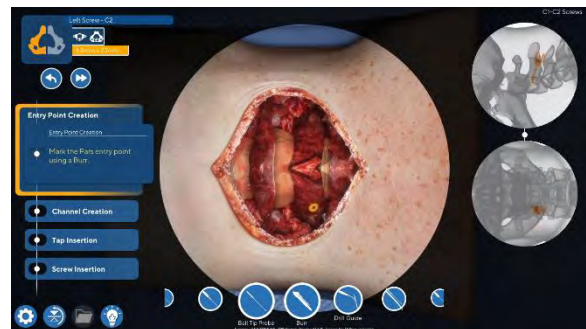
C3-C7 Lateral Mass Screws Insertion
Release 4.3



L4-L5 TLIF
Release 4.4



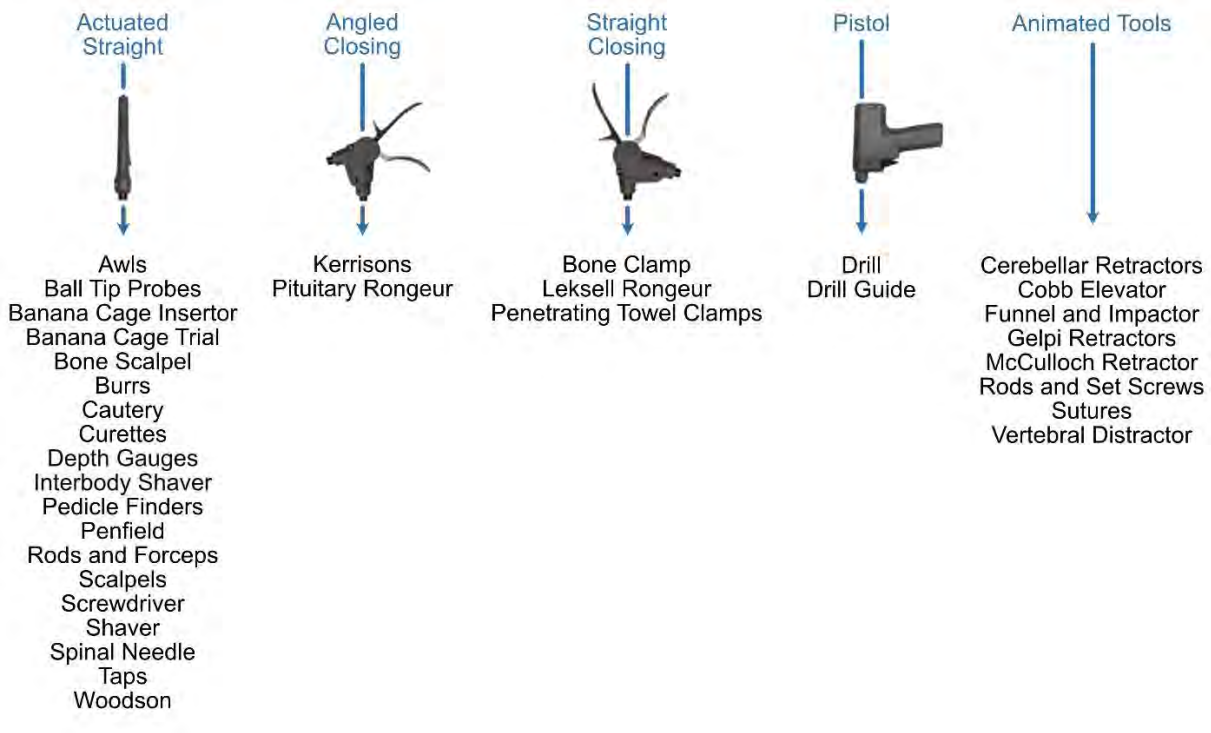
C1-C2 Screw Insertion
Release 4.5



4. Features

- Magnification (from 1.5x to 10x) and full camera controls
- Pedal-controlled tools
- Real-time fluoroscopy
- AP, LAT and fully custom views in X-ray mode
- Instant feedback and OR tips
- Results and final imaging saved to user account.

5. Surgical Instruments





6. Physical specifications

The T SYM™ simulator consists of a haptic robot module (approx. 45 cm x 45 cm X 40 cm), a high-performance computer and a single medical-grade 24" touch-screen.

- The robot generates haptic feedback on 5 degrees of freedom.
- Tool handles that connect to the robot and emulate the shapes of the handles of real surgical instruments.
- A pedal unit that plugs into the computer, used to control the fluoroscopy and some power tools such as the burr.
- Product can optionally be delivered with custom Pelican cases for transport.

7. Contacts

Symgery

224 rue de l'Hopital,
Montréal, Qc, H2Y 1V8

Tel : 1-438-403-7465

Email : info@symgery.com