

NAVIGATION GENIUS

Specifications

Maximum Mobility

Compact Dimensions and Lightweight: When folded, the robot measures 37 cm tall, 37 cm wide, and 17 cm deep. With the battery attached, the depth increases to 21 cm. The robot weighs 3.65 kg without the battery and 4.3 kg with the battery. It is compact and easy to carry by hand.

Fully Integrated Design: All power and control electronics are built directly into the robot, making it fully self-contained and battery-powered. No external components are required.

Super Strong

Powerful Performance: Despite its lightweight design, Robotic Genius is capable of lifting up to 1 kg at the end effector when stretched out.

Reach and Height: In its fully extended position, the robot is 88 cm tall to the end effector, with an arm length and reach of 65 cm.

Highest Flexibility Due to Modular Design

Customizable Configuration: The modular 3D-printed design allows for quick customization and adaptation to a wide range of applications.

USB and Bluetooth Connectivity

Easy Control: The robot can simply be connected to any computer via USB. This allows control without programming knowledge using simple commands via a terminal.

Wireless Options: In addition to the USB connection, control via Bluetooth and WLAN is also possible using small additional modules

Easy Integration of Navigation

Optical Marker Spheres: By attaching our optical marker spheres to the end effector and/or the robot's limbs, the robot is able to adaptively track hand-held instruments to the patient's movement or align them with other instruments. Thanks to the modular design, this is possible within a very short time.

Fast and Easy Teaching

Intuitive Programming: With the simple teaching mode, the robot can be programmed in a matter of seconds. And this can also be done by non-technical people - in other words, by anyone



Technical specifications

FEATURE	ROBOTIC GENIUS
Supply voltage	18 Volt
Maximum power consumption	60 VA
Dimensions	37 x 37 x 17 cm - Extended arm 88 x 65 cm
Weight	4.3 kg
Safe working load	1 kg optional 2 kg
Driven axis	6
Universal Joint & Endoscope holder multiuse	Yes
Endoscope size	2.0 to 12 mm
OR table adaption	Quick Adaptor, suitable for all European and US OR tables additional adapters for UK OR tables
Main application fields	• General surgery • ENT surgery • GYN surgery • Thoracic surgery • Cardiac surgery • Microscope • Exoscope