



Operation Unit



Vision Unit



Surgeon Cockpit

hinotori Surgical Robot System



System dimensions

	Operation Unit	Surgeon Cockpit	Vision Unit
Height	188-240 cm	131-180 cm	30 cm
Width	97 cm	94 cm	45 cm
Depth	138 cm	110 cm	42 cm
Weight	860 kg	330 kg	24 kg

*While changing position, it may exceed 240cm.

Power supply specifications

	Operation Unit	Surgeon Cockpit	Vision Unit
Rated voltage	AC 100~240 V	AC 100~240V	AC 100~240V
Power consumption	1500 VA	1500 VA	150 VA
Frequency	50Hz	50Hz	50Hz
Battery backup	5 minutes	Not applicable	Not applicable

*Specifications and appearance are subject to change without notice for improvement.
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Medicaroid aims to develop medical robots that serve and support humans, rather than replacing them. hinotori is as a robotic-assisted surgery system specifically designed to replicate a surgeon's precise movements, an essential aspect of surgical procedures. This was made possible through Kawasaki Heavy Industries' 50+ years of cultivated expertise in robot technology and Sysmex Corporation's network and knowledge in the healthcare field. Medicaroid is committed to open-platform development, aiming to create new features and services to make patient-friendly minimally invasive surgery a reality.

- Wide (16:9) / high-definition / true color / 3D image
- Fully articulating robotic arms with less collision
- Optimal ergonomics for the surgeon
- Cantilever system with a minimal footprint
- Docking free technology creates more space for the assistant and a wider working range of instrument arms



Open operating space in the sterile area

The unique design allows for a compact setup of the operation arms, providing a wide operating space in the sterile area to enhance surgical maneuverability.

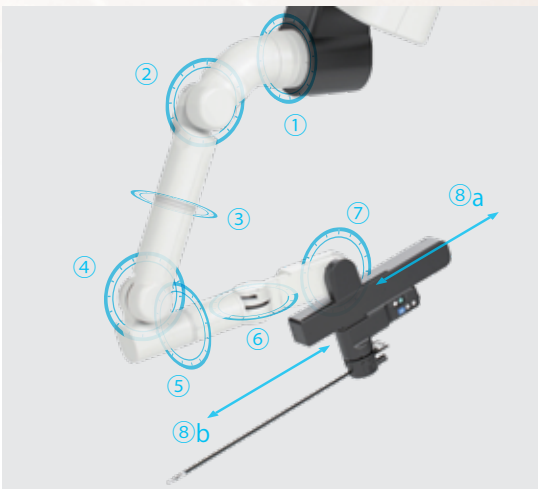


Less external collision of robotic arms

Eight-axis operation arms move smoothly, just like human arms. The arm-to-arm and arm-to-assistant interferences are expected to be reduced to ensure smooth surgery.

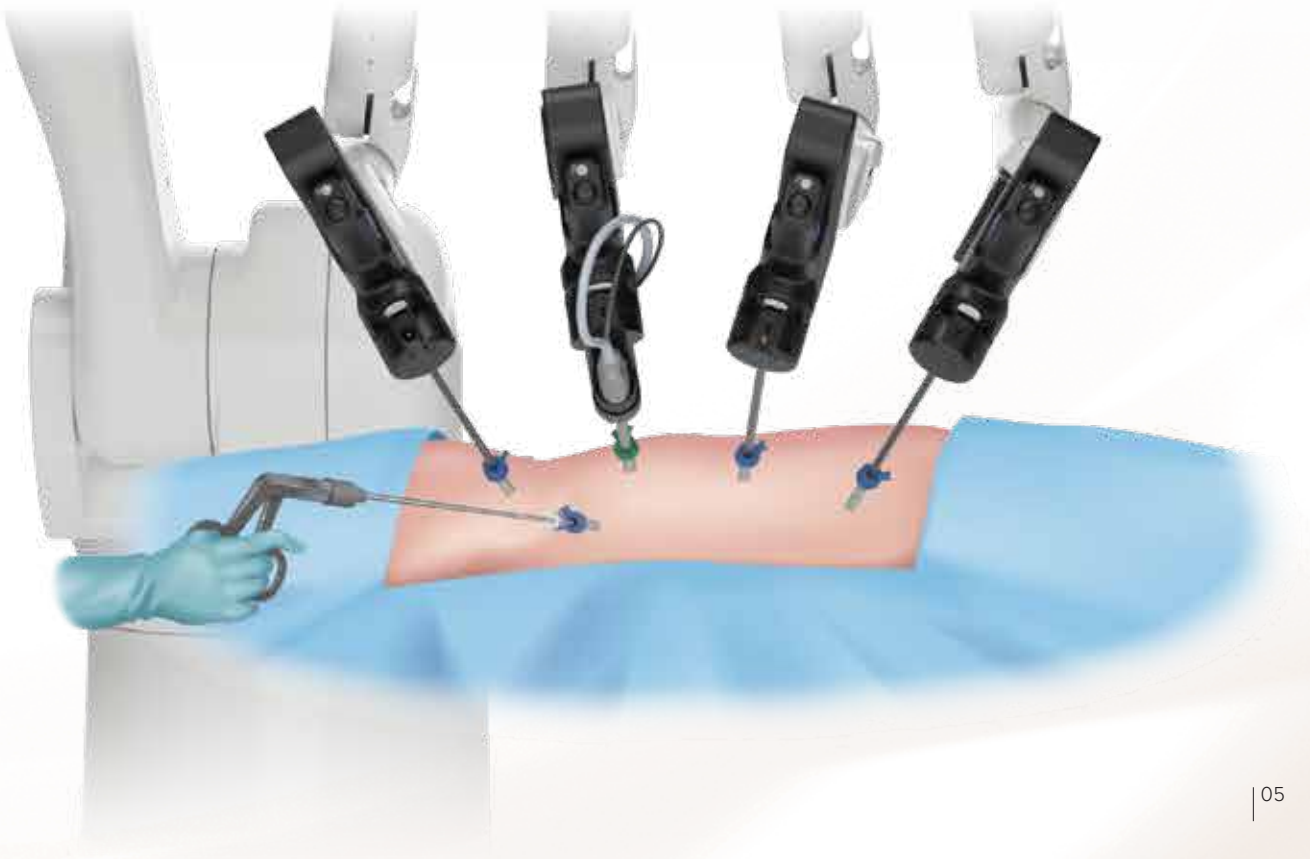
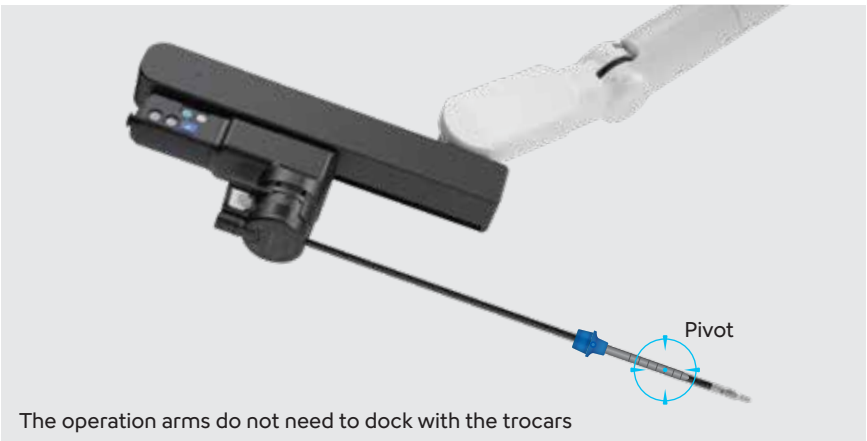
More space for the assistant and a wider working range of instrument arms

The software sets the pivot point, which is the fulcrum point of the instrument. The operation arms do not require docking with trocars, ensuring a clear workspace around them.



Eight-axis* operation arm

*The dual linear-motion structure reduces both insertion axis motion and interference.



Vibrant high-definition image

A 4K high-definition 3D system provides a high-quality image to enhance surgical precision.



High quality image by full high-definition 3D system

Hand control
Equipped with clutch function



Hand Clutch

Microphone/speaker
Supports clear communication with those in the sterile area

Touch Panel
Adjustable operation feeling upon preference

Ergonomic design for various operating postures

The surgeon cockpit is ergonomically designed to reduce the physical burdens of surgeons.



3D viewer
Adjustable for personalised posture



Adjustable for personalised posture

Foot unit
Adjustable for the most suitable position
Pedal layout designed for optimal operability