

The VELYS™ Robotic-Assisted Solution versus Mako®

# A comparison of system compactness<sup>1-2</sup>

## Background

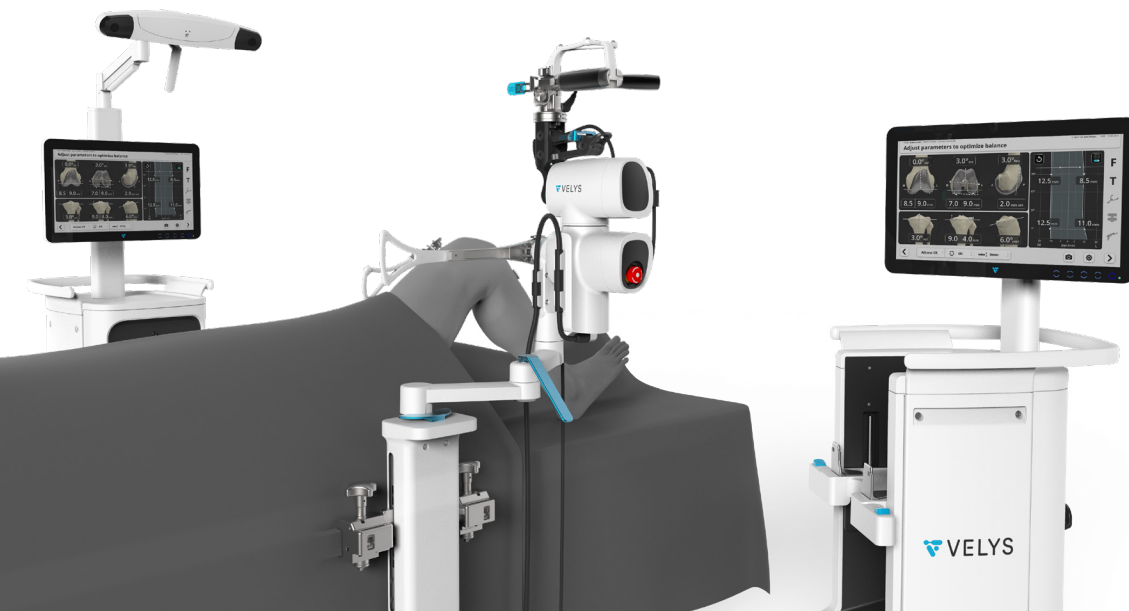
Space in the operating room (OR) is a valuable commodity, one that should not be compromised or wasted. Because certain robotic-assisted system equipment can take up much-needed space in the OR and limit room to move for the OR staff, it is advantageous to incorporate a system that minimizes space requirements to maximize surgical efficiencies.

## Methodology

The dimensions of the VELYS Robotic-Assisted Solution were compared to Mako, which included carts, robotic arms, arrays, cameras, and other components. The comparison was based on specifications found in the RIO® Technical User Guide.

## The VELYS Robotic-Assisted Solution

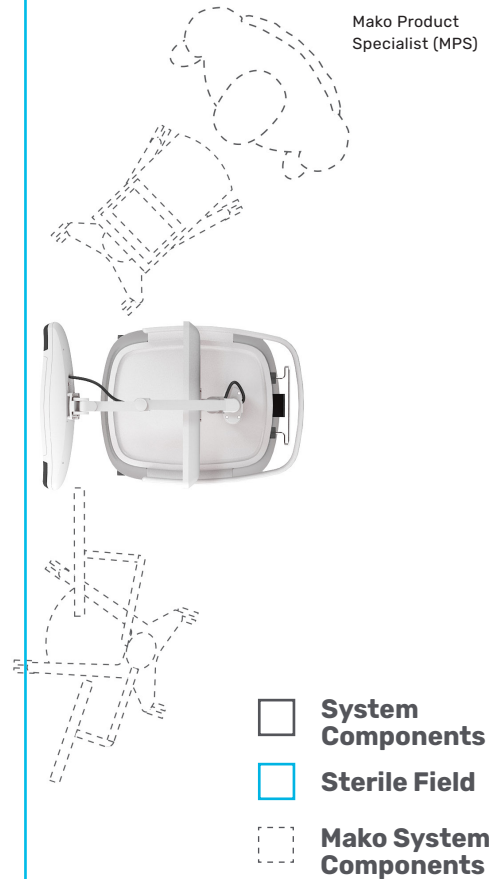
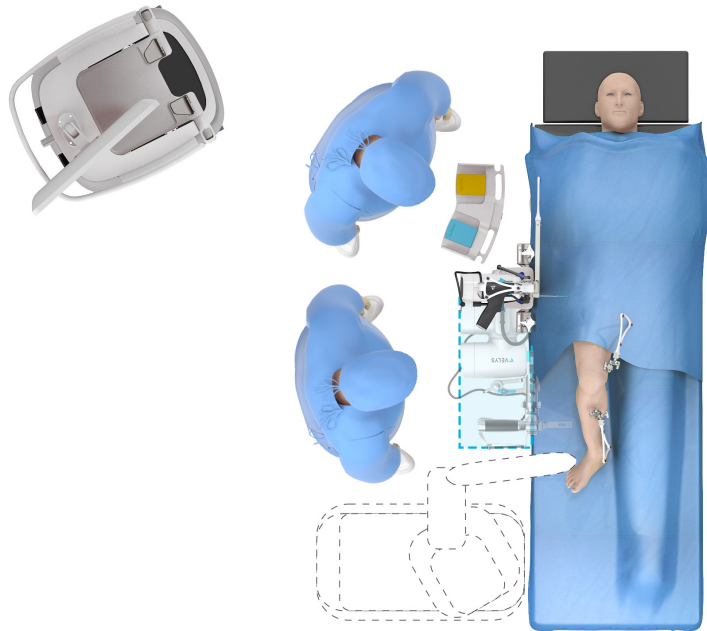
With a considerably smaller footprint, the VELYS Robotic-Assisted Solution provides more space for the surgical team to maneuver and operate.



# The VELYS Robotic-Assisted Solution delivers a reduced footprint versus Mako<sup>†</sup>

**55% reduction** in space of system components<sup>‡</sup>

VELYS Robotic-Assisted Solution: 1816 in<sup>2</sup>  
Mako: 4064 in<sup>2</sup>



Mako depiction shows one extra person in the OR representing the MPS

## The advantages of a reduced 2D footprint<sup>‡</sup>

The reduced footprint of the robotic device, components in the sterile field, and components near the bed table may improve operating room flow and surgical access.

**80% reduction** in size of robotic device<sup>‡</sup>

Surgical Access:  
VELYS Robotic-Assisted Solution: 336 in<sup>2</sup>  
Mako: 1715 in<sup>2</sup>

**75% reduction** without the Satellite Station<sup>‡</sup>

Components in Sterile Field:  
VELYS Robotic-Assisted Solution: 436 in<sup>2</sup>  
Mako: 1715 in<sup>2</sup>

**32% reduction** using the Satellite Station<sup>‡</sup>

Components in Sterile Field:  
VELYS Robotic-Assisted Solution: 1165 in<sup>2</sup>  
Mako: 1715 in<sup>2</sup>

**References:** 1. VELYS Robotic-Assisted Solution Operation Dimension (February 24, 2021). Internal Report 103486302. 2. RIO Technical User Guide (February 24, 2021). Internal Report 103732371.

<sup>†</sup>Room utilization is defined as the proportion of the surgical field that the surgical team can access.  
<sup>‡</sup>The worst-case scenario clinically relevant positions of the VELYS Robotic-Assisted Solution components were used to calculate maximum footprints of the respective system configurations.  
<sup>‡</sup>The footprint is defined as the sum of the projection of each of the system components onto the floor beneath it.

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