

Table of Contents



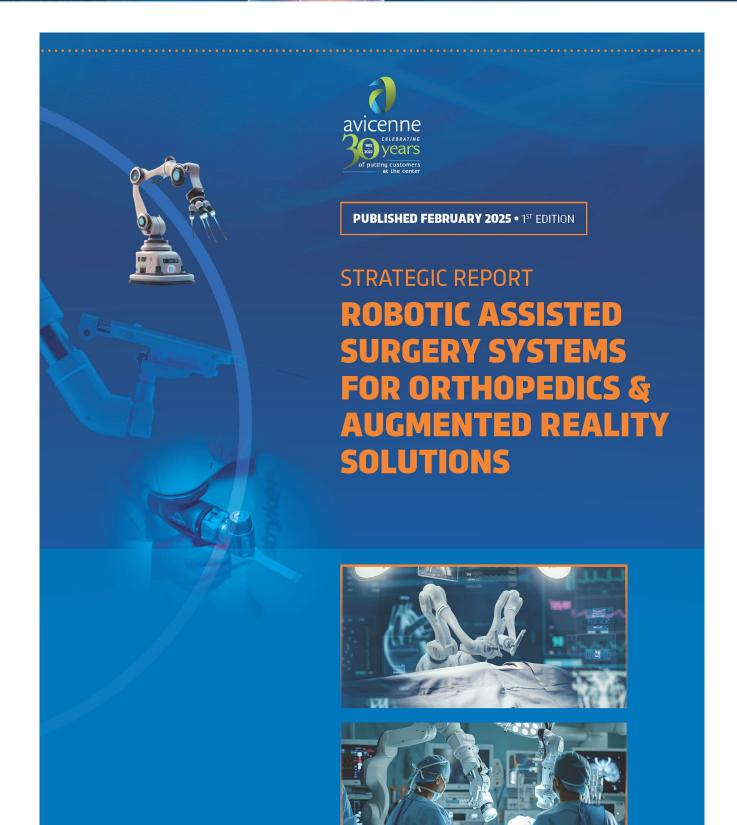


Table of Contents:

- Robotic assisted surgery systems for orthopedics and augmented reality solutions & Top 50+ robotic and augmented reality players
- Contract Development & Manufacturing for Orthopedic implants & instruments & Top 30+ orthopedic CDMO profiles report



Robotic assisted surgery systems for orthopedics and augmented reality solutions

& Top 50+ robotic and augmented reality players - February 2025 – 1st edition

Robotic for orthopedics6

Aim of the Survey and Methodology

	7	MAKO from Stryker					
	7	Navio of Smith, Mazor from Medtronic and Velys from Depuy					
	7	ROSA from Zimmer Biomet & other systems					
	9	Navigation Vs robotic assisted surgery: Tools description – Features - End user price – Pros & Cons					
	7	Mako's acquisition by Stryker boosted the orthopedic robotic market and had a huge impact on instruments market: number of Mako installed base platforms					
	7	Orthopedic robotics surgeries: Stryker opened the mass market, Smith & Nephew, Zimmer Biomet, Depuy and others followed: date of launch for each systems					
	9	New generations of Mako for shoulder and spine surgery are planned for the coming years: knee total, knee partial, hip, spine, shoulder, etc.					
	9	Zimmer Biomet – Rosa: date of launch, history, number of platforms installed base, number of surgeries performed, new applications, etc.					
	9	Smith & Nephew – Navio & Cori: date of launch, history, number of platforms installed base, number of surgeries performed, new applications, etc.					
	9	Depuy Synthes – Velys: date of launch, history, number of platforms installed base, number of surgeries performed, new applications, etc.					
	9	Robotic orthopedic system benchmark: detailed comparison of Mako, Rosa, Navio & Cori and Velys platforms					
	9	Mako, Rosa, Velys and Cori: acquisition, maintenance and consumables costs					
	9	Mako, Rosa, Velys and Cori benchmark: acquisition cost, operating cost and number of installed base					
	7	Products benchmarking regarding the following criteria: Clinical track record & reliability, acquisition cost, operating cost, easy to use, positioning accuracy, cutting it is a second to the contract of th					
	3	guide removal					
	ð a	US Robotic-assisted surgeries 2020-2030: the USA is by far the leading country for robotics usage. Knee surgery is the first target					
	ð ð	After the USA, the geographic growth drivers for robotics are Japan, Australia and Europe					
	•	In Europe, Germany benefits from a special reimbursement for operations carried out with robots. Italy and the UK have historically been the first to launch the					
	7	Mako system Number of knee surgeries performed in Australia, Japan, Germany, Italy, UK and France					
	ð	Robotic-assisted surgeries outside the US: between 2023 and 2030, the number of robotic knee operations outside the USA					
		hobotic assisted surgeries outside the ost between 2023 and 2030, the number of robotic wice operations outside the ost					
II-	Augmented Reality2						
	ð						
	0						
		implant to be placed with that of the patient's virtually reconstructed joint. 2- In intra-operative surgery, the surgeon overlaps the representation of the implant					
		defined during the planning phase with, the patient's joint					
	0						
III-	R	Robotic components supplied by CMOs30					
•••	0						
	0						
	0						
	0						
		Open platforms, CMOs, Major and challenger orthopedic companies					
	0						
		specific instruments and consumables					
	0	·					
		supply the main structure of the robot: Company names by segment					
	0						
	0	Robotic-assisted surgeries market in MUS\$ 2020-2023 by players: Stryker, Zimmer Biomet, Depuy Synthes, Smith & Nephew and other					
	0	Orthopedic contract manufacturer markets in MUS\$ 2020-2023 by mechanical parts for robots, specific instruments and consumables.					
	0	Robotics CMO market shares by player: Tecomet, Intech, etc.					
IV-	R	Robotic players40					
	0	Robotics from Major companies: 6 company profiles					
	0						
	0						
	0						
	0	, , , , , , , , , , , , , , , , , , , ,					
	0	Robotic mechanical part suppliers: 12 company profiles					
V-	F	xecutive summary					

Table of Contents:

- Robotic assisted surgery systems for orthopedics and augmented reality solutions & Top 50+ robotic and augmented reality players
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Contract Development & Manufacturing for Orthopedic implants & instruments & Top 30+ orthopedic CDMO profiles report - February 2025 – 1st edition

Aim of the Survey and Methodology

-	Contract Develor	oment & Manufacturin	ng for Orthopedic imp	mplants & instruments	6
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- Common reasons why companies choose to outsource manufacturing
- Specialized CMDOs like Tyber and Resolve have several design pillars: niche products developed mainly for majors and large challengers, and custom development for OEMs who lack sufficient resources in-house.
- Ocontract & Design Manufacturing Organization: companies like Tyber and Resolve specialize in the design and development of implants and instruments for orthopedic companies. These companies are outperforming the contract manufacturing market.
- Only a few companies generate more than US\$10 million in revenues from orthopedic development. Most of these companies are in the USA.
- 7 Top 30+ players 2023 revenues in MUS\$: Orthopedic development revenues & other revenues
- With the fusion of Resolve and Tyber Medical with Intech the new group will dominate the CDMO market
- The core pillar of a CDMO's business is to identify OEMs' need for products missing from their portfolios, and to quickly develop and bring these missing products to market
- The needs of the majors are focused on the rapid development of new niche products and their improvement, while challengers also need regulatory and certification support

II- 30+ CDMO player profiles15

- ODMOs with revenues: US\$5+M (10 company profiles)
- CDMOs with revenues: US\$5M to US\$2M (13 company profiles)
- ODMOs with revenues: < US\$2M (8 company profiles)</p>

III- Executive summary.......49

Table of Contents:

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- Contract Development & Manufacturing for Orthopedic implants & instruments & Top 30+ orthopedic CDMO profiles report