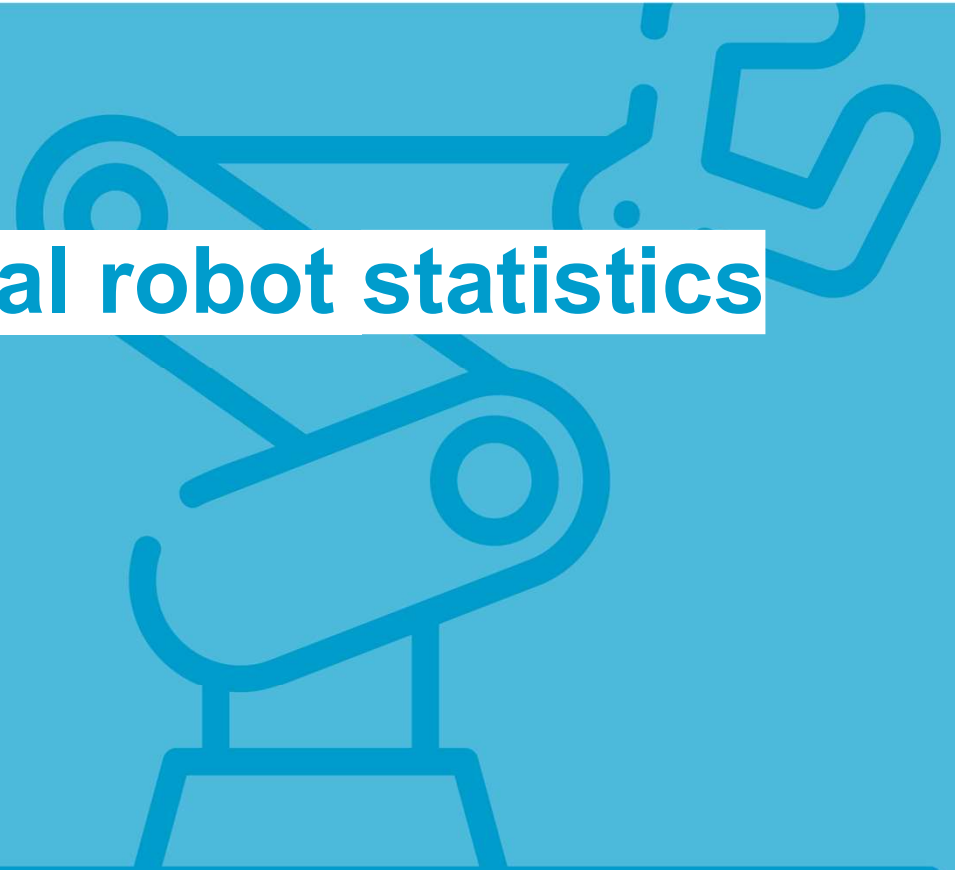



WALKTROUGH

IFR service and medical robot statistics questionnaire



Cover page

Fill in your contact information here.

1	IFR SERVICE ROBOTS Statistics 2023- including medical robots												
2													
3													
4	Company name:												
5	Your name:												
6	Business address:												
7	Telephone number:												
8	E-mail:												
9													
10													
11	Please return to Ms. Anne Jurkat (aj@ifr.org) by February 14th, 2024												
12	You are cordially invited to include case studies and photos (with captions) of your products, too. Please remember to complete the permission form (enclosed in the email that came with this survey).												
13	Aims and scope of the survey												
14	The IFR Service Robot Survey is an annual survey among service and medical robot producers. Its aim is to give a comprehensive overview of the global market for service robots.												
15	Compliance and privacy												
16	IFR Statistical Department (IFR SD) adheres to antitrust compliance laws. IFR compliance and privacy rules guarantee that company-level data will neither ever be revealed nor be mathematically retrievable from published data. Only the IFR staff directly involved in data processing has access to company-level data.												
17	Please contact Christopher Müller (cm@ifr.org), Director of IFR SD, if you have any question regarding compliance or privacy of your data.												
18	Definition of "service robots"												
19	IFR generally adopts the definitions and terminology of ISO 8373:2012. There are, however, some refinements and intentional deviations from these definitions. The PDF that came with this questionnaire elaborates on these details as well as on excluded applications. Please read this document carefully to make sure your reporting is correct - The "garbage in - garbage out" rule applies to statistics, too.												
20	Classification												
21	IFR service robot statistics 2024 classify service robots by application and by type of movement.												
22	The questionnaire contains brief descriptions or examples for each class. In case of doubt, IFR SD (statistics@ifr.org) will be glad to assist you finding the most suitable class for your robot.												
23	Data requested/survey items												
24	Units	Number of robot units sold											
25	RaaS fleet	Number of robot units that your company operates as Robots-as-a-Service.											
26													
27													
28													
29													

A summary of what this survey is about.

The questionnaire consists of three sheets.

Questionnaire service and medical robots - by application

Enter your sold units for the years 2022 and 2023 and the number of robots you offered for RaaS

Description of service robot application classes

			Unit sales		RaaS fleet	
			Number of robot units. "Sales" means the property of the robot hardware is transferred to the customer.		Number of robots offered for Robot-as-a-Service business models. RaaS are all types of business models where the property of the robot hardware remains at the robot supplier.	
			2022	2023	2022	2023
3	Application	Description				
4	AC Consumer robots	Robots intended for use by everyone. No professional training required.	0	0	0	0
5	AC1 Robots for domestic tasks	Robots for housekeeping and similar tasks around the house				
6	AC11 Domestic floor cleaning (indoor)	Wet and dry cleaning of floors, e.g. vacuuming and wiping of floors				
7	AC12 Domestic window cleaning	Cleaning of windows				
8	AC13 Gardening	Gardening tasks, e.g. lawn mowing				
9	AC14 Domestic cleaning (outdoor)	Outdoor cleaning tasks around the home, e.g. pool cleaning, yard cleaning				
10	AC19 Other domestic tasks	Domestic tasks other than AC11 to AC14				
11	AC2 Social interaction, education	Robots with social interaction functions, robots for children and student education	0	0	0	0
12	AC21 Social interaction, companions	Main purpose of the robot is to interact with and entertain users at home				
13	AC22 Education	Robots designed specifically to educate children or students				
14	AC3 Care at home	Robots that support people in need of care (e.g. seniors or handicapped people) in their homes or home-like environments (e.g. retirement homes)	0	0	0	0
15	AC31 Mobility assistants	Robotic wheelchairs, robotic rollators/walkers, exoskeletons for walking disabilities. Includes robotic devices.				
16	AC32 Manipulation aids	Robots that support seniors or disabled people in the manipulation or their environment (e.g. meal assistance robot, manipulators mounted to wheelchairs). Includes robotic devices.				
17	AC39 Other care robots	Robots for care at home that do not fit into AC31 or AC32. Includes robotic devices.				
18	AC9 Other consumer robots	Consumer robots that do not fit into any of above classes	0	0	0	0
19	AC39 Other consumer robots	Consumer robots that do not fit into any of above classes				
20	AP Professional service robots	Robots intended for use by trained professionals.	0	0	0	0
21	AP1 Agriculture	Robots for agricultural and farming applications	0	0	0	0
22	AP11 Cultivation	Plowing, seeding, harvesting, weeding, fertilizing, pesticide spraying off/for crop plants and fruit indoors (greenhouse) and outdoors (field, vineyard)				
23	AP12 Milking	Milking				
24	AP13 Other livestock farming	Livestock farming, except milking, e.g. feeding, barn cleaning				
25	AP19 Other agriculture	Agriculture, but none of the above				

No suitable class found?



You offer robots for applications not explicitly mentioned here?

We may add more classes in the future but this only makes sense if there are sufficient robot suppliers in this class. **Spread the word among your peers and rivals and encourage them to report!**

If you have questions, comments or suggestions, contact us at statistics@ifr.org

Interested in representing your company in the global industry association? Contact IFR secretariat at secretariat@ifr.org

No suitable class found?
Put it in "other".

	A	B	C	Unit sales		RaaS fleet	
				D	E	F	G
		Application	Description	2022	2023	2022	2023
1							
2							
3							
7	AP6	Medical robotics	Robots in medical applications	0	0	0	0
8	AP61	Diagnostics	Robotic diagnostic systems. Includes robotic devices.				
9	AP62	Surgery	Robots for invasive therapy (surgery). Includes robotic devices.				
0	AP63	Rehabilitation and non-invasive therapy	Robots for therapy (except surgery) and rehabilitation of patients after surgery or accidents. Includes robotic devices.				
1	AP64	Medical laboratory analysis	Handling or processing of samples in medical laboratories				
2	AP69	Other medical robots	Other robots for medical applications. Note: Robots for transportation in hospitals are included in class AP52				
3	AP7	Search and rescue, security	Robots for emergency situations	0	0	0	0
4	AP71	Firefighting	Robots for firefighting. Includes robotic devices.				
5	AP72	Disaster relief	Robots for detection or rescue of survivors. Includes robotic devices.				
6	AP73	Security services	Robots for security functions, e.g. surveillance, bomb squad support. Includes robotic devices.				
7	AP8	Hospitality	Robots for interaction with guests or visitors	0	0	0	0
8	AP81	Food and drink preparation	Robots for food or drink preparation				
9	AP82	Mobile guidance, information, telepresence	Robotic information desks or guides, e.g. in museums, shops, hotel receptions. Robots for virtual participation in real-world events. Note: Telepresence robots specifically designed for the medical field are covered in AP69				
0	AP9	Other professional service robots	Robots that do not fit into any of the above classes	0	0	0	0

Questionnaire service and medical robots - by type of movement

Enter your sold units for the years 2022 and 2023 and the number of robots you offered for RaaS

Type of movement does not distinguish between service robots for consumer and professional use.

Description of service robot movement types

			Unit sales		RaaS fleet	
			Number of units robots. Sales means the property of the robot hardware is transferred to the customer.		Number of robots offered for Robot-as-a-Service business models. RaaS are all types of business models where the property of the robot hardware remains at the robot supplier.	
Type	Description		2022	2023	2022	2023
A	Ground-based	Robots that move or stand on the ground	0	0	0	0
A1	Rolling	Rolling on wheels or chains				
A2	Walking	Walking on legs				
A3	Fixed in place	Immobile, cannot change physical location by itself, standing on the ground, desk or other fixed place, also hanging				
A4	Other ground-based	Ground-based but none of the above (A1-A3), e.g. crawling, snakeing, climbing				
B	Water-based	Robots that swim or dive	0	0	0	0
B1	Swimming	Swim on the surface of the water, Note: If the robot can both swim and dive, it is counted as diving (B2)				
B2	Diving	Dive under the surface of the water				
C	Aerial	Robots that move through the air	0	0	0	0
C1	Fly	Fly in the air				
C2	Hover	Hover above ground				
D	Wearables	Robots that are worn by people	0	0	0	0
D1	Exoskeletons	Powered human exoskeletons				
D2	Other wearables	Wearable robots other than D1				
E	Others	Robots that are not A-D	0	0	0	0
E1	Other robots	Robots that do not fit into classes A-D, e.g. robots for orbital space Robots that fit into multiple classes, e.g. hybrid robots for water and ground or air				

Submission



That's it!

Save and mail to aj@ifr.org and you're eligible to receive the results for free!*

*If your report is complete and consistent.

We're always looking for case studies that show how service robots improve our lives. Have an interesting story? Contact us to put it on www.ifr.org.

We're also looking for robot pictures to use in our presentations and publications, including World Robotics Service Robots. Attach your footage (and the permission form) when you send us your data!

Want to see your robot on the World Robotics Service Robots cover?
Contact us to talk about sponsoring opportunities!