

Robot Assisted Drilling on Curved Surfaces

Name and Last Name:

Age:

Sex:

Date:

Time:

How long have you been working in the manufacturing industry?

Do you believe that it is difficult to drill holes on a curved surface?
If yes, please explain.

Did you face any problems while conducting the experiments?
If yes, please explain.

Please specify to what extent you agree with the statements below.

- 1 I have experience in using non-motorized machine tools (hammer, screw driver, handsaw, etc).

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

- 2 I have experience in using motorized machine tools (drill, sander, polisher, etc).

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

- 3 I have experience in using robotic arms.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

- 4 I have experience in using augmented/virtual reality systems.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

- 5 I enjoyed working with the AR interface.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

6 I could not successfully complete the task with the robot.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

7 I was in control during the task when using the robot.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

8 Working with the robot was difficult.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

9 The AR interface was not helpful.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

10 I was satisfied with my task performance when using the robot.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

11 I trusted the robot during the task.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

12 It felt natural to use the robot for doing this task.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

13 Working with the AR interface was easy.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

14 I did not enjoy working with the robot.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

15 Working with the robot was safe.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

16 I was afraid of the robot when performing this task.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

17 Working with the AR interface was not joyful.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

18 I did not get tired when working with the robot.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

19 I did not achieve satisfying performance when working with the robot.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

20 I would be willing to use the robot again.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

21 The AR interface was helpful in carrying out the task.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

22 The interaction I had with the robot did not feel natural.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

23 I did not feel any fear while working with the robot.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

24 I could not control the robot the way I wanted to.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

25 I had a hard time working with the AR interface.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

26 I trusted the robot when working with it.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

27 Working with the robot was exhausting.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

28 I enjoyed working with the robot.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

29 Working with the robot was easy.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

30 It was not safe to work with the robot.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

31 I was successful in performing the task with the robot.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

32 I would not want to use the robot again.

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Somewhat Disagree	Undecided	Somewhat Agree	Agree	Strongly Agree

I hereby confirm that I filled out this questionnaire with my own free will, without being forced or coerced in any way against my wish. I declare that I was honest and sincere in answering the questions of the form.

Signature