

On mechanical end change

This document describes changing some mechanical ends for robots.

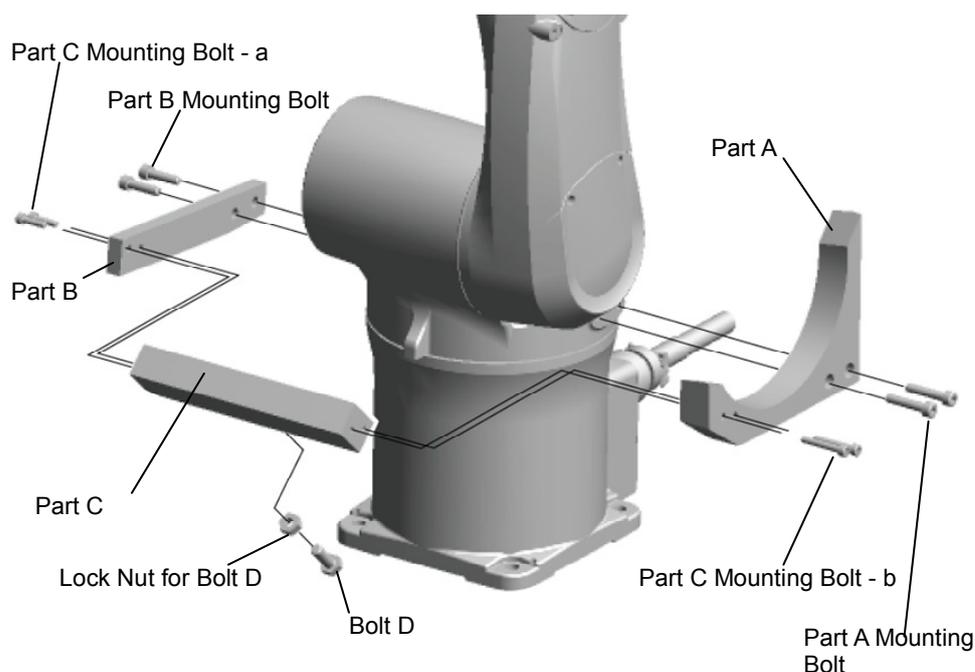
For mechanical ends not described in this, refer to INSTALLATION & MAINTENANCE GUIDE of each series of robots.

1. Changing the 2nd-axis Mechanical Ends for VS-G Series of Robots

This section contains changing the 2nd-axis mechanical end for robot units having no internal threads dedicated to mechanical end change.

1. 1 Changing the 2nd-axis Mechanical End

Install the parts shown below on the robot body to change the 2nd-axis mechanical end.



Part A [Refer to the reference drawing of part A](#)

Part B [Refer to the reference drawing of part B](#)

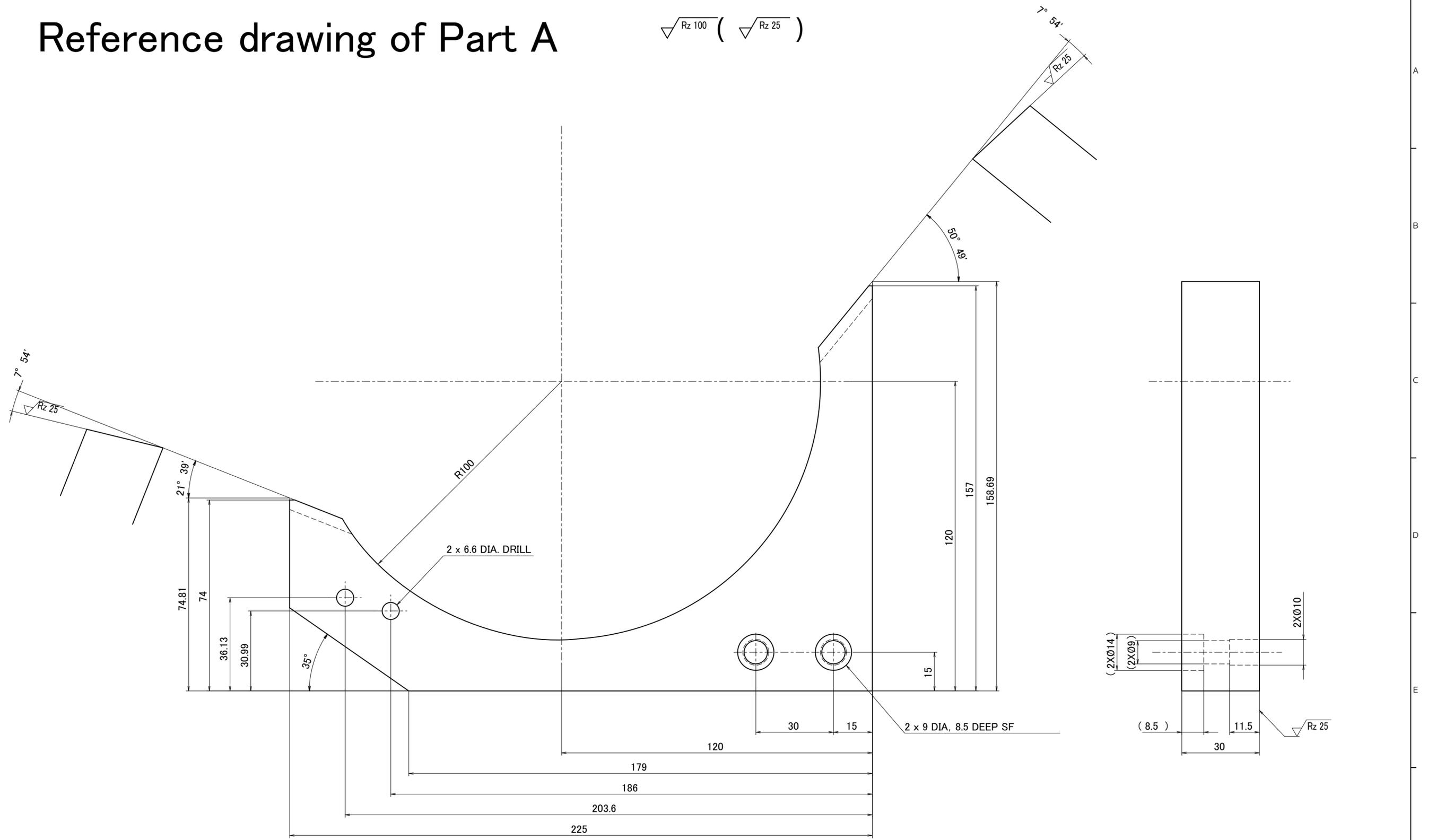
Part C [Refer to the reference drawing of part C](#)

Part A Mounting Bolt Hex. socket-head bolts
2 x M8 x 40 (Strength class: 12.9)
Tightening torque: 19.6 +/- 3.9 Nm

Part B Mounting Bolt	Hex. socket-head bolts 2 x M8 x 30 (Strength class: 12.9) Tightening torque: 19.6 +/- 3.9 Nm
Part C Mounting Bolt - a	Hex. socket-head bolts 2 x M6 x 22 (Strength class: 12.9) Tightening torque: 10 +/- 2 Nm
Part C Mounting Bolt - b	Hex. socket-head bolts 2 x M6 x 40 (Strength class: 12.9) Tightening torque: 10 +/- 2 Nm
Bolt D	Hexagon head screw M10 x 30 (Strength class: 12.9)
Lock Nut for Bolt D	Hexagon nut M10 (Strength class: 12.9) Tightening torque: 38 +/- 7.6 Nm

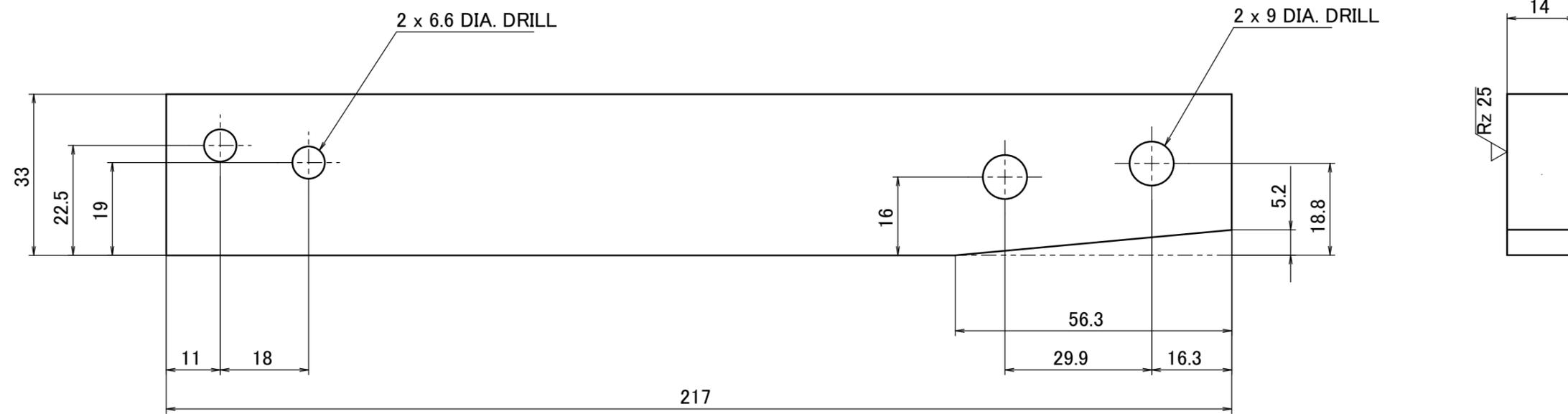
Reference drawing of Part A

$\sqrt{Rz 100}$ ($\sqrt{Rz 25}$)



Reference drawing of Part B

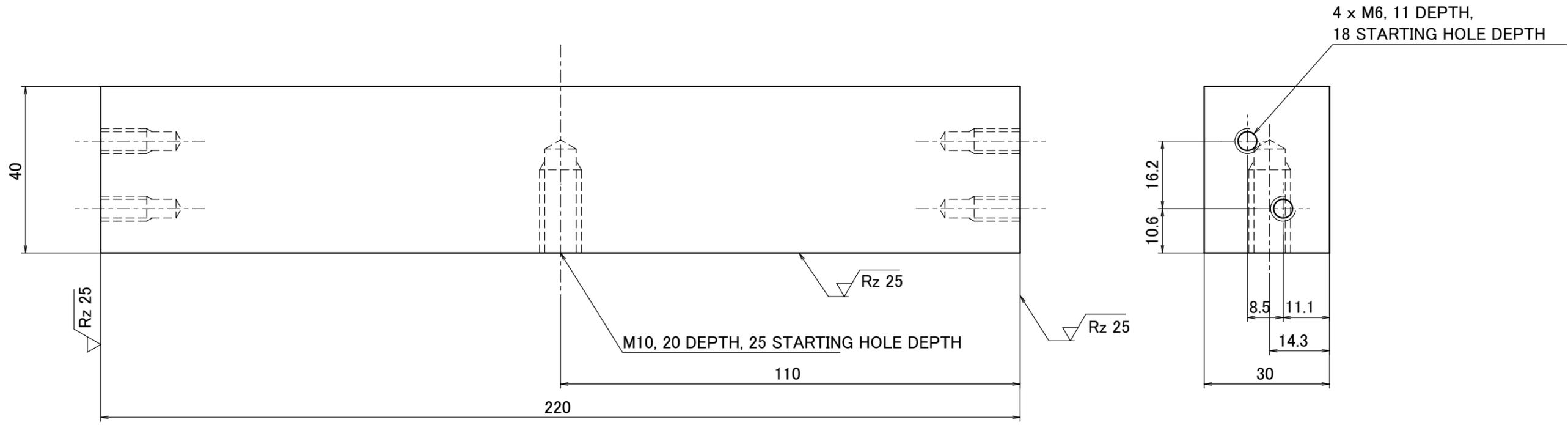
$\sqrt{Rz\ 100}$ ($\sqrt{Rz\ 25}$)



MATERIAL A2017-T4

Reference drawing of Part C

$\sqrt{\text{Rz 100}}$ ($\sqrt{\text{Rz 25}}$)



MATERIAL A2017-T4

1. 2 Mounting bolt D

When mounting the bolt D, adjust its position so that its head may come in contact with the part of the robot body as shown in the figure below.

