

Technical drawing of the R654-88 robot arm, showing its operating range and dimensions. The drawing includes a side view of the arm and a top-down view of the end effector. The operating range is defined by a circular sector with a radius of 222 mm and an angle of 170°. The dimensions of the arm are as follows:

- Overall length: 222 mm
- Radius of the end effector: R241.34
- Radius of the base: R654.88
- Dimensions of the end effector: 67 mm, 59 mm, 79 mm, 51 mm
- Dimensions of the base: 67 mm, 59 mm, 79 mm, 51 mm
- Dimensions of the arm: 67 mm, 59 mm, 79 mm, 51 mm

The drawing also shows the rotation of the end effector, with a range of $\pm 360^\circ$ and $\pm 190^\circ$. The end effector is labeled "P点" (Point P).

Technical drawing of a circular part with four holes. The part has a central hole and four surrounding holes. Dimensions are given for the holes and the part's overall size.

- Top hole: $\Phi 40h8$ $\begin{smallmatrix} 0 \\ -0.038 \end{smallmatrix}$
- Bottom hole: $\Phi 20H7$ $\begin{smallmatrix} +0.021 \\ 0 \end{smallmatrix}$
- Right hole: $\Phi 5H7$ $\begin{smallmatrix} +0.012 \\ 0 \end{smallmatrix}$
- Left hole: $\Phi 40h8$ $\begin{smallmatrix} 0 \\ -0.038 \end{smallmatrix}$
- Central hole: $\Phi 40h8$ $\begin{smallmatrix} 0 \\ -0.038 \end{smallmatrix}$
- Top hole depth: 4-M5 深8 (P.C.D.31.5)
- Bottom hole depth: 深6
- Right hole depth: 深7
- Left hole depth: 深6

Technical drawing of a square plate with a central circular hole. The plate has a side length of 200 mm. The central hole has a diameter of 160 mm. There are four mounting holes, each with a diameter of 12 mm (4-Φ12). The mounting holes are located at the corners of the plate, with a center-to-center distance of 160 mm between opposite holes. The distance from the center of the plate to the center of each mounting hole is 66 ± 0.05 mm. The mounting holes are 10.812 mm from the edges of the plate (2-Φ6H7, 基準穴). The plate has a thickness of 184 ± 0.05 mm. A detail view of the mounting hole shows a 4-Φ12 hole with an M10 tapping hole (M10取付用). The plate has a radius R20 at the corners.

