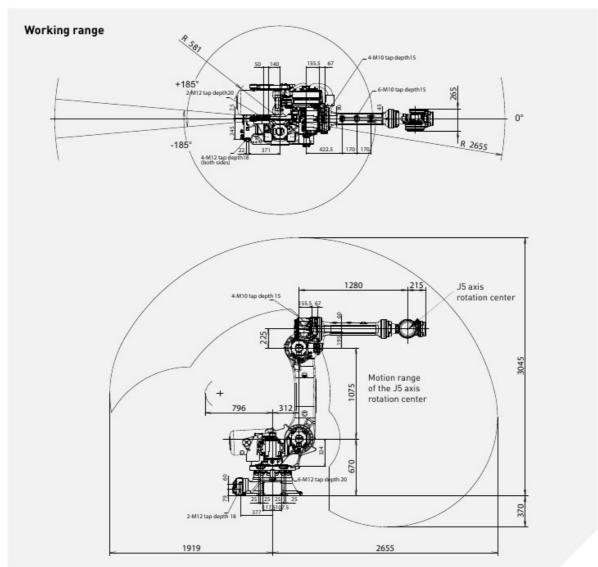
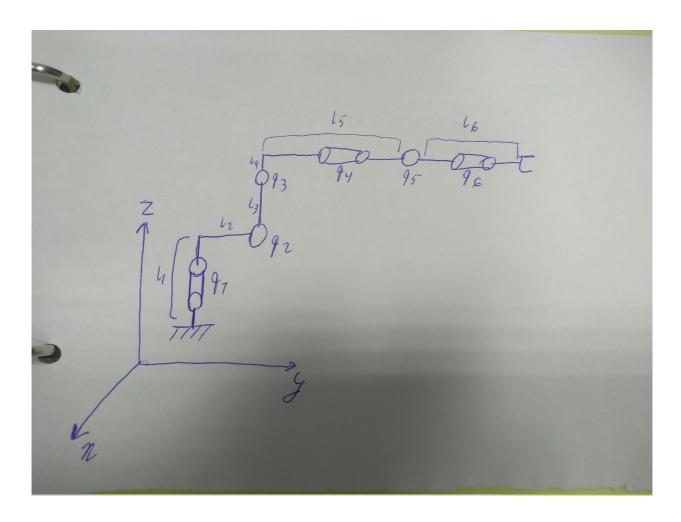
## **Assignment 1**

## **Robot description**

- 6 degree of freedom manipulator with spherical wrist FANUC R-2000iC/165
- Construction weight 1090kg
- Maximal weight of the load 165kg
- Maximal reachable distance 2655mm



Geometrical data about the robot



Kinematic scheme of the robot

• Transformation matrix for the direct kinematic of the robot is H = T(z, I1)R(z, q1)T(y, I2)R(x, q2)T(z, I3)R(x, q3)T(z, I4)T(y, I5)R(y, q4)R(x, q5)R(y, q6)T(y, I6) where T - translation matrix along one of axis on the defined length, R - rotation matrix around one of axis on defined angle