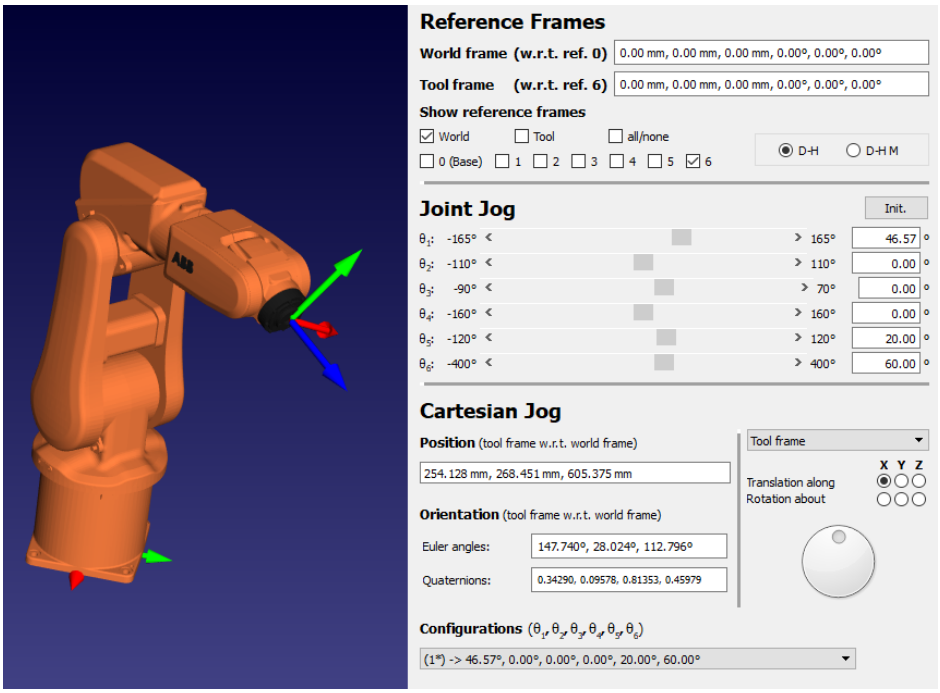


For Euler angles we get:

$$\begin{bmatrix}\phi\\ \theta\\ \psi\end{bmatrix} = \begin{bmatrix}\arctan\frac{2(q_0q_1+q_2q_3)}{1-2(q_1^2+q_2^2)}\\ \arcsin(2(q_0q_2-q_3q_1))\\ \arctan\frac{2(q_0q_3+q_1q_2)}{1-2(q_2^2+q_3^2)}\end{bmatrix}$$

Copio el Quaternion:
0.34290,0.09578,0.81353,0.45979

$$q := \begin{pmatrix}0.34290\\ 0.09578\\ 0.81353\\ 0.45979\end{pmatrix}$$

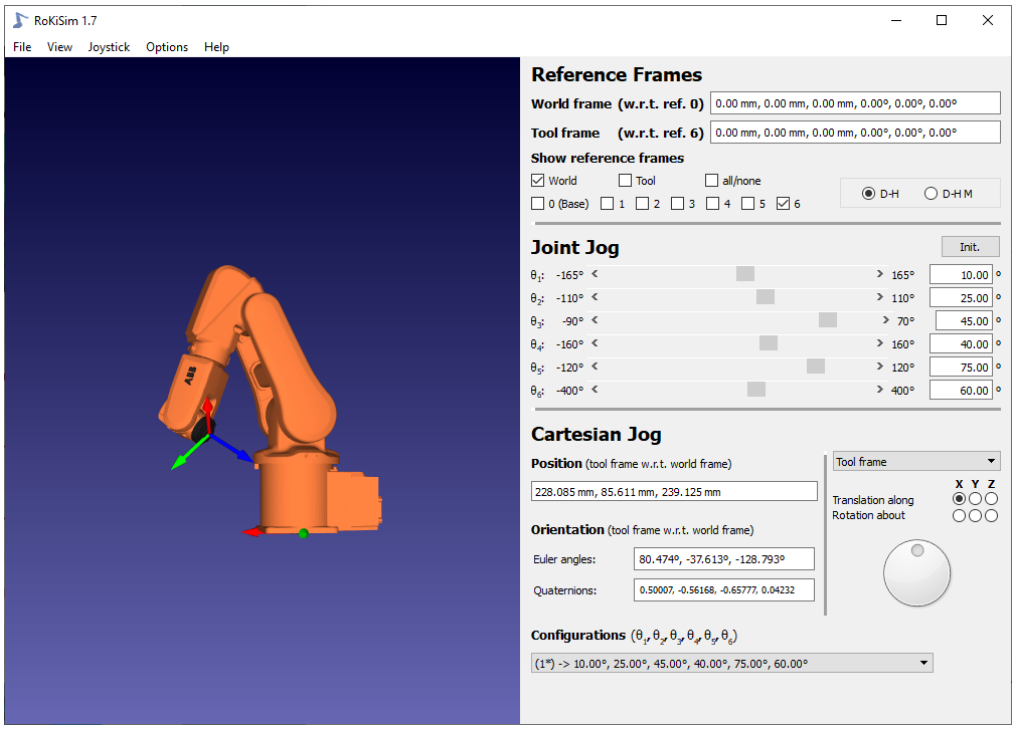
$$Euler_\phi := 180 + 57.3\cdot\operatorname{atan}\left[2\cdot\frac{\left(q_0\cdot q_1 + q_2\cdot q_3\right)}{1-2\cdot\left[\left(q_1\right)^2+\left(q_2\right)^2\right]}\right] = 112.79$$

sumo 180 para ver el lado +

$$Euler_\theta := 57.3\cdot\operatorname{asin}\left[2\cdot\left(q_0\cdot q_2 - q_3\cdot q_1\right)\right] = 28.026$$

$$Euler_\psi := 180 + 57.3\cdot\operatorname{atan}\left[2\cdot\left[\frac{q_0\cdot q_3 + q_1\cdot q_2}{1-2\cdot\left[\left(q_2\right)^2+\left(q_3\right)^2\right]}\right]\right] = 147.738$$

sumo 180 para ver el lado +



Copio el Quaternion:
0.50007, -0.56168, -0.65777, 0.04232

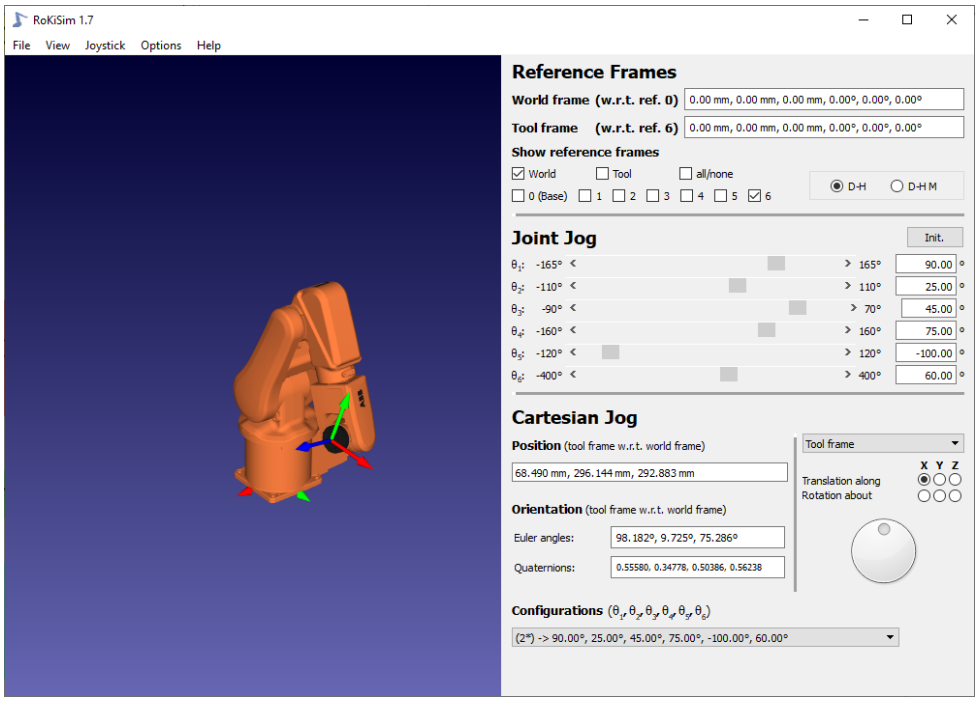
$$q := \begin{pmatrix} 0.50007 \\ -0.56168 \\ -0.65777 \\ 0.04232 \end{pmatrix}$$

$$Euler_{\phi} := -180 + 57.3 \cdot \operatorname{atan}\left[2 \cdot \frac{\left(q_0 \cdot q_1 + q_2 \cdot q_3\right)}{1 - 2 \cdot \left[\left(q_1\right)^2 + \left(q_2\right)^2\right]}\right] = -128.789$$

resto 180 para ver el lado -

$$Euler_{\theta} := 57.3 \cdot \operatorname{asin}\left[2 \cdot \left(q_0 \cdot q_2 - q_3 \cdot q_1\right)\right] = -37.616$$

$$Euler_{\psi} := 57.3 \cdot \operatorname{atan}\left[2 \cdot \left[\frac{q_0 \cdot q_3 + q_1 \cdot q_2}{1 - 2 \cdot \left[\left(q_2\right)^2 + \left(q_3\right)^2\right]}\right]\right] = 80.48$$



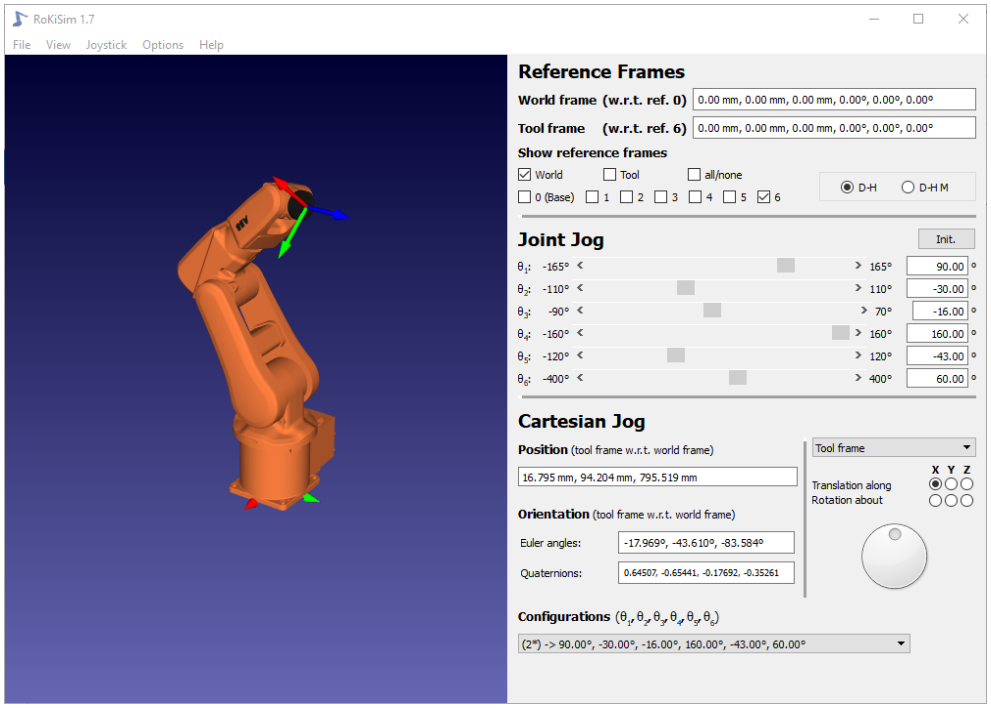
Copio el Quaternion:
0.55580, 0.34778, 0.50386, 0.56238

$$q := \begin{pmatrix} 0.55580 \\ 0.34778 \\ 0.50386 \\ 0.56238 \end{pmatrix}$$

$$Euler_{\phi} := 57.3 \cdot \operatorname{atan}\left[2 \cdot \frac{\left(q_0 \cdot q_1 + q_2 \cdot q_3\right)}{1 - 2 \cdot \left[\left(q_1\right)^2 + \left(q_2\right)^2\right]}\right] = 75.291$$

$$Euler_{\theta} := 57.3 \cdot \operatorname{asin}\left[2 \cdot \left(q_0 \cdot q_2 - q_3 \cdot q_1\right)\right] = 9.726$$

$$Euler_{\psi} := 180 + 57.3 \cdot \operatorname{atan}\left[2 \cdot \left[\frac{q_0 \cdot q_3 + q_1 \cdot q_2}{1 - 2 \cdot \left[\left(q_2\right)^2 + \left(q_3\right)^2\right]}\right]\right] = 98.177$$



Copio el Quaternion:
0.64507, -0.65441, -0.17692, -0.35261

$$q := \begin{pmatrix} 0.64507 \\ -0.65441 \\ -0.17692 \\ -0.35261 \end{pmatrix}$$

$$Euler_{\phi} := 57.3 \cdot \operatorname{atan}\left[2 \cdot \frac{\left(q_0 \cdot q_1 + q_2 \cdot q_3\right)}{1 - 2 \cdot \left[\left(q_1\right)^2 + \left(q_2\right)^2\right]}\right] = -83.591$$

$$Euler_{\theta} := 57.3 \cdot \operatorname{asin}\left[2 \cdot \left(q_0 \cdot q_2 - q_3 \cdot q_1\right)\right] = -43.614$$

$$Euler_{\psi} := 57.3 \cdot \operatorname{atan}\left[2 \cdot \left[\frac{q_0 \cdot q_3 + q_1 \cdot q_2}{1 - 2 \cdot \left[\left(q_2\right)^2 + \left(q_3\right)^2\right]}\right]\right] = -17.97$$