

PUMA 260 Links:

```
PL1 = Link('d', 13, 'a', 0, 'alpha', -pi/2);
PL2 = Link('d', 0, 'a', 8, 'alpha', 0);
PL3 = Link('d', -3, 'a', 0, 'alpha', pi/2);
PL4 = Link('d', 8, 'a', 0, 'alpha', -pi/2);
PL5 = Link('d', 0, 'a', 0, 'alpha', pi/2);
PL6 = Link('d', 2, 'a', 0, 'alpha', 0);
```

Creation of 2 PUMA 260 arms:

```
puma260 = SerialLink([PL1 PL2 PL3 PL4 PL5 PL6], 'name', 'Puma260');
puma2602 = SerialLink([PL1 PL2 PL3 PL4 PL5 PL6], 'name', 'Puma260-2')
```

puma2602 =

Puma260-2:: 6 axis, RRRRRR, stdDH, slowRNE

j	theta	d	a	alpha	offset
1	q1	13	0	-1.5708	0
2	q2	0	8	0	0
3	q3	-3	0	1.5708	0
4	q4	8	0	-1.5708	0
5	q5	0	0	1.5708	0
6	q6	2	0	0	0

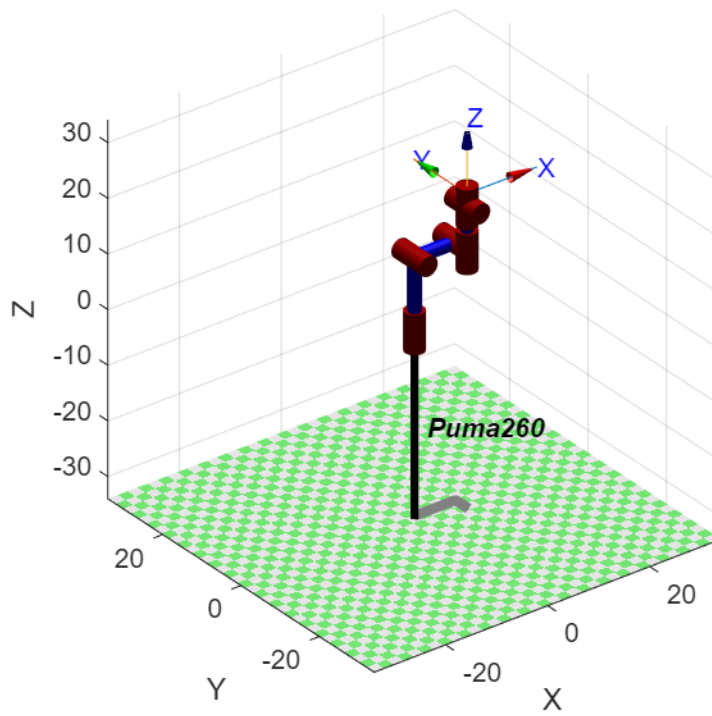
0 degree position:

```
qz = [0,0,0,0,0,0];
inv1 = puma260.fkine(qz)
```

inv1 =

1	0	0	8
0	1	0	-3
0	0	1	23
0	0	0	1

```
puma260.plot(qz)
```

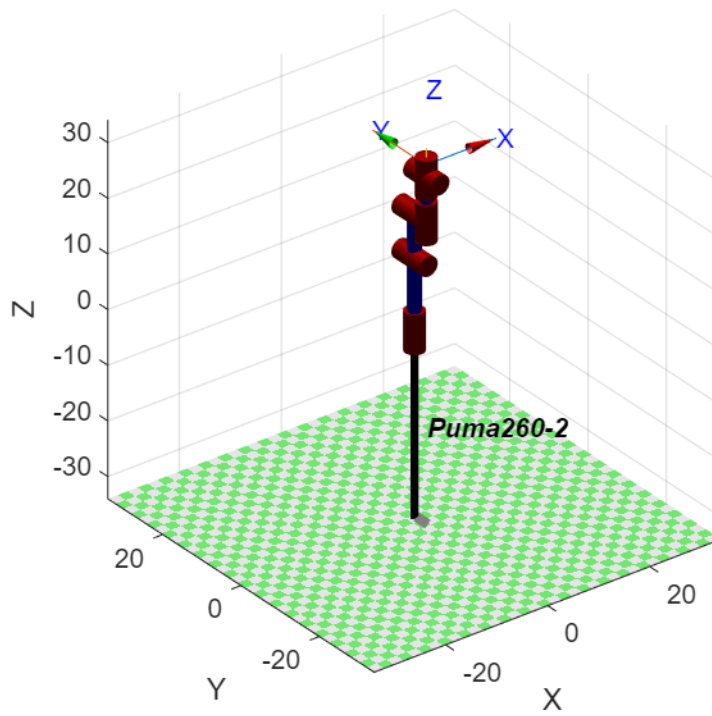


Upright Position

```
qz = [0,-pi/2,pi/2,0,0,0];
inv2 =puma2602.fkine(qz)
```

```
inv2 =
    1     0     0     0
    0     1     0    -3
    0     0     1    31
    0     0     0     1
```

```
puma2602.plot(qz)
```

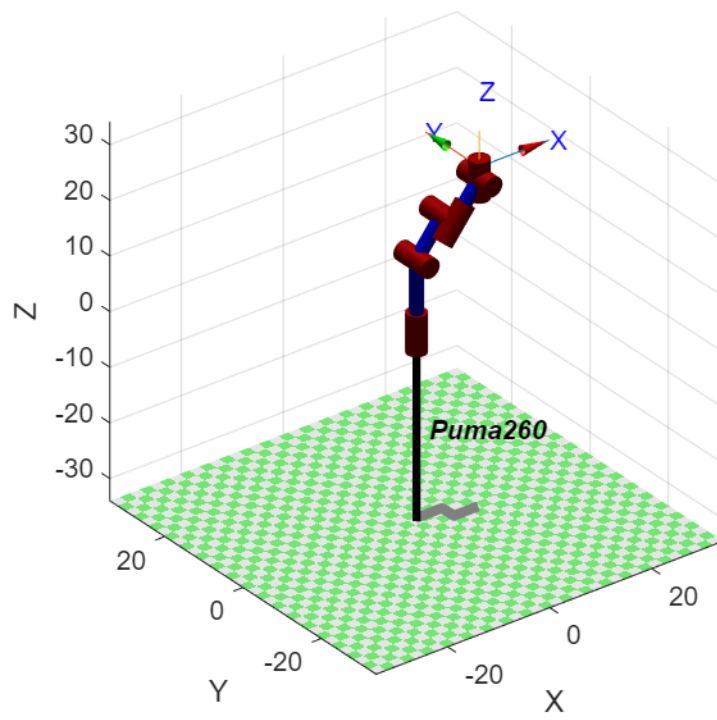


Obtaining the inverse kinematics of the previous movements

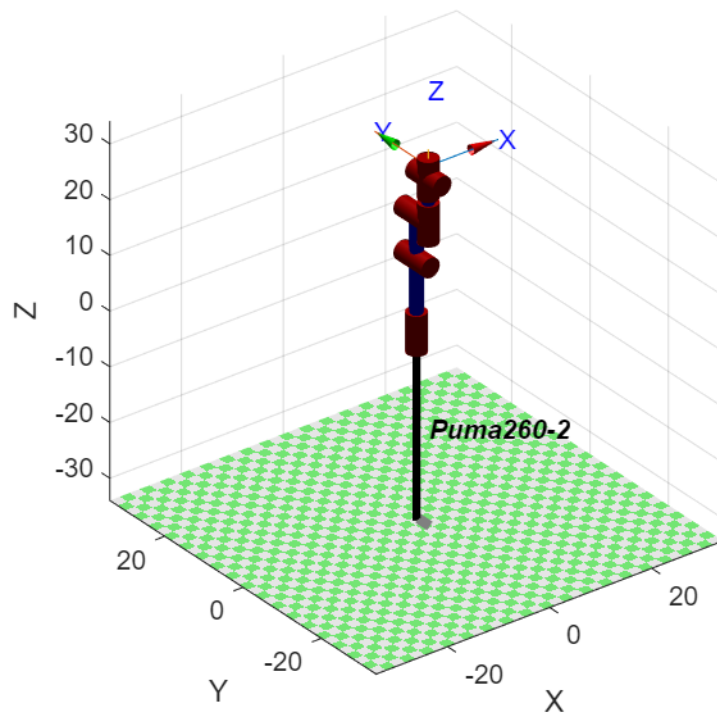
```
qi1 = puma260.ikine6s(inv1,'lu');  
qi2 = puma2602.ikine6s(inv2,'lu');
```

Plotting the results of the obtained inverse kinematics:

```
puma260.plot(qi1);
```



```
puma2602.plot(qi2)
```



Conclusions:

The position of each joint may be different than the one established with forward kinematics, but the end effector position is the same in both.