In [50]: r.get\_flange\_pose()

Out[50]:

(array([ 0.50921035, -0.14513119, 0.00451856]),

quaternion(0.00291506062216599, -0.853207209236247, 0.521487984007544, -0.00890185736862631))

In [51]: r.get\_flange\_pose()

Out[51]:

(array([ 0.43258284, -0.00665939, 0.00350202]),

quaternion(0.00178712531593783, -0.906321502018865, 0.422442829389368, -0.0109634419266827))

In [52]: r.get\_flange\_pose()

Out[52]:

(array([ 0.43562227, -0.00548624, 0.00355067]),

quaternion(0.00200678946090552, -0.908179011027544, 0.418434288422276, -0.0109363155420372))

In [53]: r.get\_flange\_pose()

Out[53]:

(array([ 0.43561878, -0.00547945, 0.00354303]),

quaternion(0.00199467101270173, -0.908184479853226, 0.418423397956521, -0.0109010037975703))

In [54]: r.get\_flange\_pose()

Out[54]:

(array([ 0.43562248, -0.00548126, 0.00354596]),

quaternion(0.00199577232543471, -0.908183149553715, 0.418426148293619, -0.0109060617862133))

In [55]: r.get\_flange\_pose()

Out[55]:

(array([ 0.43562244, -0.00549061, 0.00354822]),

quaternion(0.0019976510099249, -0.908176864659115, 0.418439520056727, -0.0109160406319002))

In [56]: r.get\_flange\_pose()

Out[56]:

(array([ 0.45398674, -0.08112812, 0.00372813]),

quaternion(0.00119046574250765, -0.889935103074254, 0.455923652715857, -0.0121539294782693))

In [57]: r.get\_flange\_pose()

Out[57]:

(array([ 0.45398612, -0.08113045, 0.00372777]),

quaternion(0.00118904175617681, -0.889934732982792, 0.455924433103425, -0.0121518932627557))

In [58]: r.get\_flange\_pose()

Out[58]:

(array([ 0.50828322, -0.16439345, 0.00416399]),

quaternion(-0.000762029880259943, -0.855983881664267, 0.516884779638851, -0.0110062808946234))

In [59]: r.get\_flange\_pose()

Out[59]:

(array([ 0.50828674, -0.16438746, 0.00416595]),

quaternion(-0.000757683504868622, -0.855989356516659, 0.516875640582612, -0.0110099781206302))

In [60]: r.get\_flange\_pose()

Out[60]:

(array([ 0.50836005, -0.16412939, 0.00416437]),

quaternion(-0.000680438767686743, -0.856107561885059, 0.5166796512764, -0.0110234950538315))

In [61]: r.get\_flange\_pose()

Out[61]:

(array([ 0.44896528, -0.10574705, 0.00417386]),

quaternion(0.00548093183564567, -0.874616157661409, 0.484633920371927, -0.0121036923599481))

In [62]: r.get\_flange\_pose()

Out[62]:

(array([ 0.42591567, -0.00691593, 0.00364596]),

quaternion(-0.00345616522899386, -0.920536200684738, 0.390482806386202, -0.0111506083947955))

In [63]: r.get\_flange\_pose()

Out[63]:

(array([ 0.42406864, -0.0808742 , 0.00338856]),

quaternion(0.000721279310532123, -0.91659378719683, 0.399655740257017, -0.0114279616705873))

In [64]: r.get\_flange\_pose()

Out[64]:

(array([ 0.40971745, -0.14156808, 0.00360525]),

quaternion(-0.00368853277828147, -0.893977622153631, 0.447891872865053, -0.0135379479950788))

In [65]: r.get\_flange\_pose()

Out[65]:

(array([ 0.49657777, -0.14940682, 0.00412278]),

quaternion(-0.000888200738764274, -0.899507576381987, 0.436776496115284, -0.0105652057294642))

In [66]: r.get\_flange\_pose()

Out[66]:

(array([0.44533348, 0.10310558, 0.00379655]),

quaternion(0.00243966734188059, -0.908368384632623, 0.418032546445444, -0.0104745374846432))

In [67]: r.get\_flange\_pose()

Out[67]:

(array([0.4454585 , 0.10313905, 0.00397282]),

quaternion(0.0025799214349616, -0.908365709337874, 0.418032398873154, -0.0106768720534846))

In [68]: r.get\_flange\_pose()

Out[68]:

(array([0.44545891, 0.10313785, 0.003972 ]),

quaternion(0.00257890755879218, -0.908365576811332, 0.418032694136564, -0.0106768315967622))

In [69]: r.get\_flange\_pose()

Out[69]:

(array([ 0.36760581, -0.12884258, 0.00392438]),

quaternion(0.0135969109580501, -0.949350248773524, 0.313849761083833, -0.00689613179018601))

In [70]: r.get\_flange\_pose()

Out[70]:

(array([ 0.67271672, -0.07073674, 0.49505088]),

quaternion(0.187501322421495, -0.802514058165659, 0.424373461123306, -0.375128785926782))

In [72]: r.get\_flange\_pose()

Out[72]:

(array([ 0.58804935, -0.24826256, 0.00488434]),

quaternion(-0.00177342838274178, -0.826587852892386, 0.562686647204055, -0.0115374806949443))

In [73]:

In [73]: r.get\_flange\_pose()

Out[73]:

(array([ 0.58804618, -0.24826274, 0.00488348]),

quaternion(-0.00177248166617732, -0.826587685828258, 0.562686630352627, -0.0115504098730254))

In [74]: r.get\_flange\_pose()

Out[74]:

(array([ 0.59455687, -0.2312132 , 0.0048656 ]),

quaternion(-0.00118371128026042, -0.83161438263388, 0.555224821928658, -0.0118959883307236))

In [75]: r.get\_flange\_pose()

Out[75]:

(array([ 0.57876229, -0.23431439, 0.0047914 ]),

quaternion(-0.000742067766837709, -0.827095485739831, 0.561920224584385, -0.0125764862841454))

In [76]: r.get\_flange\_pose()

Out[76]:

(array([ 0.57916751, -0.23450128, 0.00538538]),

quaternion(-0.00058879257014322, -0.827076218424749, 0.561933226923699, -0.0132525740384478))

In [77]: r.get\_flange\_pose()

Out[77]:

(array([ 0.57881051, -0.23436519, 0.00482008]),

quaternion(-0.000711793041289073, -0.827074099221164, 0.561949180003999, -0.0126904232001938))

In [78]: r.get\_flange\_pose()

Out[78]:

(array([ 0.66469638, -0.23651028, -0.00381636]),

quaternion(-0.00069183693607214, -0.845690439213503, 0.533642622738192, -0.00572307449095434))

In [79]: r.get\_flange\_pose()

Out[79]:

(array([ 0.66512481, -0.22558165, -0.00446621]),

quaternion(-0.00777477499814993, -0.853713766996415, 0.520684243070405, -0.000525292983828543))

In [80]: r.get\_flange\_pose()

Out[80]:

(array([ 0.66506856, -0.225287 , -0.00464447]),

quaternion(-0.00783570701647475, -0.853815597355084, 0.520516548161544, -0.000224719211898594))

In [81]: r.get\_flange\_pose()

Out[81]:

(array([ 0.66506714, -0.22528967, -0.00464565]),

quaternion(-0.00783501591653335, -0.853814921380118, 0.520517667633684, -0.000224132640563854))

In [82]: r.get\_flange\_pose()

Out[82]:

(array([ 0.57336082, -0.23104364, 0.00462919]),

quaternion(-0.000786704490008629, -0.838485834075267, 0.544786816307437, -0.0121742321628986))

In [83]:

In [83]: r.get\_flange\_pose()

Out[83]:

(array([ 0.43332897, -0.0759141 , 0.00351577]),

quaternion(0.00182518156914522, -0.936549912580351, 0.350346217039017, -0.0113339386105274))

In [84]: r.get\_flange\_pose()

Out[84]:

(array([ 0.43364773, -0.07585983, 0.00377421]),

quaternion(0.00196480074431686, -0.936583197753617, 0.350242666200194, -0.011752787610762))

In [85]: r.get\_flange\_pose()

Out[85]:

(array([ 0.43338114, -0.07578956, 0.00351929]),

quaternion(0.00188536674926634, -0.936593707261997, 0.350228547680788, -0.0113418384248551))

In [86]: r.get\_flange\_pose()

Out[86]:

(array([ 0.52328896, -0.16177347, 0.00410192]),

quaternion(-0.0006492812175305, -0.933616392002157, 0.358100142363214, -0.0111489487496225))

In [87]: r.get\_flange\_pose()

Out[87]:

(array([ 0.50947854, -0.14872103, 0.00404574]),

quaternion(-0.000409641927134171, -0.941309992700876, 0.337363696772496, -0.011002996635624))

In [88]: r.get\_flange\_pose()

Out[88]:

(array([ 0.50951029, -0.14882128, 0.00406393]),

quaternion(-0.000411781752013959, -0.94127462437798, 0.337460744411387, -0.0110525073714106))

In [89]: r.get\_flange\_pose()

Out[89]:

(array([ 0.50951124, -0.14881526, 0.00406284]),

quaternion(-0.000406241472675155, -0.941275971486933, 0.337456744605381, -0.0110601080254221))

In [90]: r.get\_flange\_pose()

Out[90]:

(array([ 0.4009656 , -0.09392425, 0.00314577]),

quaternion(0.000262184345005079, -0.95748205500448, 0.28826615026861, -0.0114311947355877))

In [91]: r.get\_flange\_pose()

Out[91]:

(array([ 0.4011014 , -0.09391341, 0.00324375]),

quaternion(0.000285422343530465, -0.957494827879351, 0.288216372637741, -0.0116144591746868))

In [92]: r.get\_flange\_pose()

Out[92]:

(array([ 0.40097042, -0.09392422, 0.00314278]),

quaternion(0.000245936854089819, -0.957485245051637, 0.288255697727032, -0.0114279373192116))

In [93]: r.get\_flange\_pose()

Out[93]:

(array([ 0.58256412, -0.13373142, 0.30736581]),

quaternion(0.139563017319013, -0.796053487901139, 0.444847243184078, -0.385917010286888))

In [97]: r.get\_flange\_pose()

Out[97]:

(array([0.34202319, 0.47929142, 0.00500773]),

quaternion(0.00658614531592012, -0.995190311039836, -0.0970994869999447, -0.011160516415427))

In [98]: r.get\_flange\_pose()

Out[98]:

(array([0.34202164, 0.47934439, 0.00501015]),

quaternion(0.00659394438383778, -0.99519071018565, -0.0970967202983884, -0.0111443781765252))

In [99]: r.get\_flange\_pose()

Out[99]:

(array([0.30996082, 0.45500791, 0.0047515 ]),

quaternion(0.00859212888582708, -0.994366628882268, -0.105040936214236, -0.0112953267221628))

In [100]: r.get\_flange\_pose()

Out[100]:

(array([0.30995354, 0.45500217, 0.00474723]),

quaternion(0.00859300119123813, -0.994366581121055, -0.105041418913171, -0.0112943788168353))

In [101]: r.get\_flange\_pose()

Out[101]:

(array([0.35300821, 0.52366262, 0.0054293 ]),

quaternion(0.00645371393586532, -0.994137816597993, -0.107389009937173, -0.0107680885454304))

In [102]: r.get\_flange\_pose()

Out[102]:

(array([0.25792242, 0.50463949, 0.00477539]),

quaternion(0.00685453488555024, -0.98561526162639, -0.168566210207751, -0.0100500834245792))

In [103]: r.get\_flange\_pose()

Out[103]:

(array([0.22265825, 0.47801189, 0.00454833]),

quaternion(0.00853072366971983, -0.983521244053801, -0.180489539353393, -0.00605932607921061))