

TCP and Center of Mass of Robotiq Products

1. Adaptive Grippers, Sensor and Wrist Camera

Products	Center of mass (mm)			TCP (mm)						Mass (g)
	X	Y	Z	Gripper 1			Gripper 2			
				X	Y	Z	X	Y	Z	
FT Sensor	-6.0	0.0	13.5	0.0	0.0	37.5	-	-	-	410
Camera	-6.5	6.6	4.0	0.0	0.0	13.5	-	-	-	195
Dual grippers plate	0.0	0.0	15.5	-	-	-	-	-	-	265
2F-85	0.0	0.0	60.0	0.0	0.0	174.0	-	-	-	921
2F-140	0.0	0.0	75.5	0.0	0.0	244.0	-	-	-	1013
Hand-E	0.0	0.0	59.0	0.0	0.0	157.0	-	-	-	1068
FT Sensor + 2F-85	-1.7	0.0	71.7	0.0	0.0	211.5	-	-	-	1413
FT Sensor + 2F-140	-1.6	0.0	84.1	0.0	0.0	281.5	-	-	-	1505
FT Sensor + Hand-E	-1.6	0.0	73.6	0.0	0.0	194.5	-	-	-	1560
Camera + 2F-85	-1.3	1.3	55.9	0.0	0.0	175.5	-	-	-	1000
Camera + 2F-140	-1.2	1.2	70.9	0.0	0.0	246.5	-	-	-	1092
Camera + Hand-E	-1.1	1.1	56.3	0.0	0.0	159.5	-	-	-	1147
FT Sensor + Camera + 2F-85	-2.6	0.9	70.2	0.0	0.0	213.0	-	-	-	1410
FT Sensor + Camera + 2F-140	-2.5	0.9	82.5	0.0	0.0	284.0	-	-	-	1502
FT Sensor + Camera + Hand-E	-2.4	0.8	72.6	0.0	0.0	197.0	-	-	-	1557
Hand-E/Hand-E	0.0	0.0	62.8	154.0	0.0	138.0	-154.0	0.0	138.0	2401
Hand-E/2F-85	5.2	0.0	62.8	154.0	0.0	138.0	-166.0	0.0	150.0	2254
Hand-E/2F-140	-3.1	0.0	67.7	154.0	0.0	138.0	-215.5	0.0	199.5	2346
2F-85/2F-85	0.0	0.0	62.6	166.0	0.0	150.0	-166.0	0.0	150.0	2107
2F-85/2F-140	-8.6	0.0	68.0	166.0	0.0	150.0	-215.5	0.0	199.5	2199
2F-140/2F-140	0.0	0.0	72.9	215.5	0.0	199.5	-215.5	0.0	199.5	2291
Camera + Hand-E/Hand-E	-0.4	0.4	79.1	154.0	0.0	161.5	-154.0	0.0	161.5	2646
Camera + Hand-E/2F-85	4.3	0.4	78.6	154.0	0.0	161.5	-166.0	0.0	173.5	2499
Camera + Hand-E/2F-140	-3.2	0.4	83.4	154.0	0.0	161.5	-215.5	0.0	223.0	2591
Camera + 2F-85/2F-85	-0.4	0.4	78.1	166.0	0.0	173.5	-166.0	0.0	173.5	2352
Camera + 2F-85/2F-140	-8.2	0.4	83.2	166.0	0.0	173.5	-215.5	0.0	223.0	2444
Camera + 2F-140/2F-140	-0.4	0.4	87.9	215.5	0.0	223.0	-215.5	0.0	223.0	2536
FT Sensor + Hand-E/Hand-E	-0.8	0.0	87.9	154.0	0.0	175.5	-154.0	0.0	175.5	2975
FT Sensor + Hand-E/2F-85	3.4	0.0	87.1	154.0	0.0	175.5	-166.0	0.0	187.5	2828
FT Sensor + Hand-E/2F-140	-3.4	0.0	91.7	154.0	0.0	175.5	-215.5	0.0	237.0	2920
FT Sensor + 2F-85/2F-85	-0.9	0.0	86.3	166.0	0.0	187.5	-166.0	0.0	187.5	2681
FT Sensor + 2F-85/2F-140	-7.9	0.0	91.1	166.0	0.0	187.5	-215.5	0.0	237.0	2773
FT Sensor + 2F-140/2F-140	-0.9	0.0	95.6	215.5	0.0	237.0	-215.5	0.0	237.0	2865

Note: When grippers are not mounted on the Wrist Camera, a coupling is included. A dual gripper adapter plate is included when required.

2. EPick Gripper and Configurations

Products	Center of mass (mm)			TCP (mm)						Mass (g)
	X	Y	Z	Gripper 1			Gripper 2			
				X	Y	Z	X	Y	Z	
EPick (without suction cups)	0.0	0.0	51.5	0.0	0.0	113.0	-	-	-	706
EPick (with one suction cup)	0.0	0.0	55.2	0.0	0.0	145.0	-	-	-	741
EPick (with two suction cups)	0.0	0.0	81.9	0.0	0.0	196.0	-	-	-	1116
EPick (with four suction cups on Universal Robots)	0.0	0.0	92.0	0.0	0.0	196.0	-	-	-	1341
EPick (with four suction cups on Techman Robot or Omron TM)	0.0	15.1	87.0	0.0	0.0	196.0	-	-	-	1343
FT Sensor + Epick (without suction cups)	-2.1	0.0	62.8	0.0	0.0	150.5	-	-	-	1198
FT Sensor + Epick (with one suction cup)	-2.0	0.0	65.8	0.0	0.0	182.5	-	-	-	1233
FT Sensor + Epick (with two suction cups)	-1.5	0.0	90.6	0.0	0.0	233.5	-	-	-	1608
FT Sensor + Epick (with four suction cups on Universal Robots)	-1.3	0.0	101.6	0.0	0.0	233.5	-	-	-	1833
FT Sensor + EPick (with four suction cups on Techman Robot or Omron TM)	-1.4	11.6	98.5	0.0	0.0	233.5	-	-	-	1753
Camera + Epick (without suction cups)	-1.6	1.6	48.3	0.0	0.0	115.5	-	-	-	785
Camera + Epick (with one suction cup)	-1.5	1.6	51.9	0.0	0.0	147.5	-	-	-	820
Camera + Epick (with two suction cups)	-1.1	1.1	78.7	0.0	0.0	198.5	-	-	-	1195
Camera + Epick (with four suction cups)	-0.9	0.9	89.2	0.0	0.0	198.5	-	-	-	1420
FT Sensor + Camera + Epick (without suction cups)	-3.1	1.1	61.0	0.0	0.0	153.0	-	-	-	1195
FT Sensor + Camera + Epick (with one suction cup)	-3.0	1.0	64.1	0.0	0.0	185.0	-	-	-	1230
FT Sensor + Camera + Epick (with two suction cups)	-2.3	0.8	89.9	0.0	0.0	236.0	-	-	-	1605
FT Sensor + Camera + Epick (with four suction cups)	-2.0	0.7	101.3	0.0	0.0	236.0	-	-	-	1830

Note: When grippers are not mounted on the Wrist Camera, a coupling is included.

3. AirPick Gripper and Configurations

Products	Center of mass (mm)			TCP (mm)						Mass (g)
	X	Y	Z	Gripper 1			Gripper 2			
				X	Y	Z	X	Y	Z	
AirPick (without suction cups)	0.5	-10.0	22.0	0.0	0.0	44.7	-	-	-	463
AirPick (with one suction cup)	0.5	-9.3	24.7	0.0	0.0	76.7	-	-	-	498
AirPick (with two suction cups)	0.3	-5.3	42.6	0	0	127.7	-	-	-	873
AirPick (with four suction cups on Universal Robots)	0.2	-4.2	49.1	0	0	127.7	-	-	-	1098
AirPick (with four suction cups on Techman Robot or Omron TM)	-0.2	14	45.6	0	0	127.7	-	-	-	1100
FT Sensor + Airpick (without suction cups)	-2.9	-5.1	39.2	0	0	82.2	-	-	-	955
FT Sensor + Airpick (with one suction cup)	-2.8	-5	41.3	0	0	114.2	-	-	-	990
FT Sensor + Airpick (with two suction cups)	-2.1	-3.6	58.5	0	0	165.2	-	-	-	1365
FT Sensor + Airpick (with four suction cups on Universal Robots)	-1.7	-3.1	66.0	0	0	165.2	-	-	-	1590
FT Sensor + AirPick (with four suction cups on Techman Robot or Omron TM)	-1.8	10.2	64.2	0	0	165.2	-	-	-	1510
Camera + Airpick (without suction cups)	-2.3	-6.3	21.0	0	0	47.2	-	-	-	542
Camera + Airpick (with one suction cup)	-2.2	-5.9	23.5	0	0	79.2	-	-	-	577
Camera + Airpick (with two suction cups)	-1.3	-3.6	41.4	0	0	130.2	-	-	-	952
Camera + Airpick (with four suction cups)	-1.1	-2.9	48.1	0	0	130.2	-	-	-	1177
FT Sensor + Camera + Airpick (without suction cups)	-3.9	-3.6	39.1	0	0	84.7	-	-	-	952
FT Sensor + Camera + Airpick (with one suction cup)	-3.8	-3.4	41.3	0	0	116.7	-	-	-	987
FT Sensor + Camera + Airpick (with two suction cups)	-2.7	-2.5	59.2	0	0	167.7	-	-	-	1362
FT Sensor + Camera + Airpick (with four suction cups)	-2.3	-2.1	67	0	0	167.7	-	-	-	1587

Note: When grippers are not mounted on the Wrist Camera, a coupling is included.