

Opentrons Flex® Pipette Accuracy and Precision



Flex 1-Channel Pipette (1–50 µL)	Tip Size	Volume (µL)	Random Error (% CV)	Systematic Error (% D)
	20 µL	1	3.50%	+/- 8.00%
	50 µL	1	7.00%	+/- 8.00%
	20 µL	5	0.75%	+/- 1.50%
	50 µL	10	0.50%	+/- 1.50%
	50 µL	50	0.40%	+/- 1.25%



Flex 1-Channel Pipette (5–1000 µL)	Tip Size	Volume (µL)	Random Error (% CV)	Systematic Error (% D)
	50 µL	5	2.50%	+/- 5.00%
	50 µL	50	0.30%	+/- 0.50%
	200 µL	200	0.15%	+/- 0.50%
	1000 µL	1000	0.15%	+/- 0.50%



Flex 8-Channel Pipette (1–50 µL)	Tip Size	Volume (µL)	Random Error (% CV)	Systematic Error (% D)
	20 µL	1	6.00%	+/- 10.00%
	50 µL	1	8.00%	+/- 10.00%
	20 µL	5	1.00%	+/- 2.50%
	50 µL	10	1.00%	+/- 2.50%
	50 µL	50	.60%	+/- 1.25%

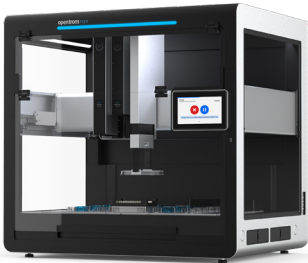


Flex 8-Channel Pipette (5–1000 µL)	Tip Size	Volume (µL)	Random Error (% CV)	Systematic Error (% D)
	50 µL	5	4.00%	+/- 8.00%
	50 µL	50	0.60%	+/- 2.50%
	200 µL	200	0.25%	+/- 1.00%
	1000 µL	1000	0.15%	+/- 0.70%



Flex 96 Channel Pipette (1–200 µL)	Tip Size	Volume (µL)	Random Error (% CV)	Systematic Error (% D)
	20 µL	1	3.00%	+/- 10.00%
	50 µL	1	6.00%	+/- 10.00%
	20 µL	5	1.00%	+/- 4.00%
	50 µL	50	1.00%	+/- 1.50%
	200 µL	200	1.00%	+/- 1.00%

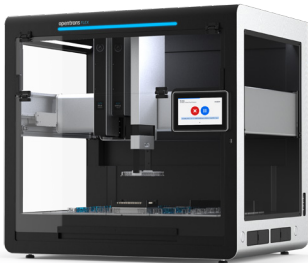
Flex 96-Channel Pipette (5–1000 µL)	Tip Size	Volume (µL)	Random Error (% CV)	Systematic Error (% D)
	50 µL	5	5.00%	+/- 10.00%
	50 µL	50	1.25%	+/- 2.50%
	200 µL	200	1.25%	+/- 1.50%
	1000 µL	1000	1.50%	+/- 1.50%



Technical Data Sheet
Opentrons Flex® Pipette Accuracy and Precision

	Tip Size	Volume (µL)	Systematic Error (% D)	Random Error(% CV)
Flex 1-Channel Pipette (1–50 µL)	50 µL	1	+/- 8.00%	+/- 7%
	50 µL	10	+/- 1.50%	+/- 0.50%
	50 µL	50	+/- 1.25%	+/- 0.4%
	Tip Size	Volume (µL)	Systematic Error (% D)	Random Error(% CV)
Flex 1-Channel Pipette (5–1000 µL)	50 µL	5	+/- 5.00%	+/- 2.50%
	50 µL	50	+/- 0.50%	+/- 0.30%
	200 µL	200	+/- 0.50%	+/- 0.15%
	1000 µL	1000	+/- 0.50%	+/- 0.15%

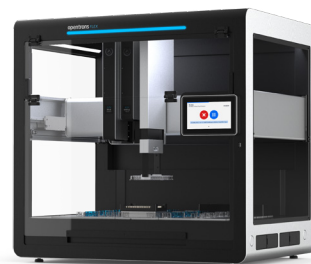




Technical Data Sheet
Opentrons Flex® Pipette Accuracy and Precision

	Tip Size	Volume (µL)	Systematic Error (% D)	Random Error(% CV)
Flex 8-Channel Pipette (1–50 µL)	50 µL	1	+/- 10.00%	+/- 8.00%
	50 µL	10	+/- 2.50%	+/- 1.00%
	50 µL	50	+/- 1.25%	+/- 0.60%
	Tip Size	Volume (µL)	Systematic Error (% D)	Random Error(% CV)
Flex 8-Channel Pipette (5–1000 µL)	50 µL	5	+/- 8.00%	+/- 4.00%
	50 µL	50	+/- 2.50%	+/- 0.60%
	200 µL	200	+/- 1.00%	+/- 0.25%
	1000 µL	1000	+/- 0.70%	+/- 0.15%





Technical Data Sheet

Opentrons Flex® Pipette Accuracy and Precision

Flex 96 Channel Pipette (1–200 µL)	Tip Size	Volume (µL)	Systematic Error (% D)	Random Error(% CV)
	50 µL	1	+/- 10.00%	+/- 6.00%
	50 µL	5	+/- 4.00%	+/- 2.00%
	50 µL	50	+/- 1.50%	+/- 1.00%
	200 µL	200	+/- 1.00%	+/- 1.00%
Flex 96-Channel Pipette (5–1000 µL)	Tip Size	Volume (µL)	Systematic Error (% D)	Random Error(% CV)
	50 µL	5	+/- 10.00%	+/- 5.00%
	50 µL	50	+/- 2.50%	+/- 1.25%
	200 µL	200	+/- 1.50%	+/- 1.25%
	1000 µL	1000	+/- 1.50%	+/- 1.50%

