



Product	MiniSeq	MiSeq	NextSeq 500*		HiSeq 2500		HiSeq 3000	HiSeq 4000	HiSeq X Five [†]	HiSeq X Ten [†]
Description	Simplicity and accessibility for examining single genes or entire pathways	Speed and simplicity for targeted and small-genome sequencing	Speed and simplicity for everyday genomics		Power and efficiency for large-scale genomics		Maximum throughput and lowest cost for production-scale genomics		Maximum throughput and lowest cost for population- and production-scale human WGS	
Key methods	Targeted DNA and targeted RNA sequencing	Small genome, amplicon, targeted gene panel sequencing	Everyday genome, exome, transcriptome sequencing, and more		Production-scale genome, exome, transcriptome sequencing, and more				Population-scale human WGS	
Run mode	—	—	Mid-output	High-output	Rapid run	High-output	—	—	—	—
Flow cells processed per run	1	1	1	1	1 or 2	1 or 2	1	1 or 2	1 or 2	1 or 2
Output range	0.6–7.5 Gb	0.3–15 Gb	20–39 Gb	30–120 Gb	10–300 Gb	50–1000 Gb	125–750 Gb	125–1500 Gb	900–1800 Gb	900–1800 Gb
Run time	4–24 hours	5–55 hours	15–26 hours	12–30 hours	7–60 hours	< 1–6 days	< 1–3.5 days	< 1–3.5 days	< 3 days	< 3 days
Reads per flow cell[‡]	25 million [¶]	25 million [§]	130 million	400 million	300 million	2 billion	2.5 billion	2.5 billion	3 billion	3 billion
Maximum read length	2 x 150 bp	2 x 300 bp	2 x 150 bp	2 x 150 bp	2 x 250 bp	2 x 125 bp	2 x 150 bp	2 x 150 bp	2 x 150 bp	2 x 150 bp