

# Genie-A Solution

## Preimplantation Genetic Testing for Aneuploidy



### Comprehensive detection

A single solution to detect CNV, Ploidy and ROH  
(regions of homozygosity)

### Default SNP analysis

Genie-A uses Genome-wide SNP information to detect  
Ploidy and ROH

### High Resolution

>4Mb CNVs (unknown), and >1 Mb inherited CNVs (known)

### High throughput & Scalability

500M reads/run, 5M reads/samples, 1 x 100 bp reads, Up  
to 48, 96 samples/run



**Genie-A Fast:** Fast workflow, combining WGA and library preparation to reduce cost and time.

**Genie-A Advanced:** Separate WGA (MDA) followed by a patented library preparation method to support wider genome coverage.

Two version of Genie-A kits with different sample preparation methods for greater flexibility, but with the same outcome.

Genie-A Kits	Amplification method	Sequencers	Reporting content
Genie-A Fast	PicoPlex	Genie Sequencer DNBSEQ-G400*	<ul style="list-style-type: none"> <li>Aneuploidy, Triploidy, Haploidy</li> <li>z4Mb CNVs in unknown regions</li> <li>≥1Mb known inherited CNVs</li> <li>Mosaicism ≥30% C ≥10Mb</li> <li>Whole chromosome level ROH</li> </ul>
Genie-A Advanced	MDA		

### Competitive Pricing

Offering significant cost savings without compromising on quality

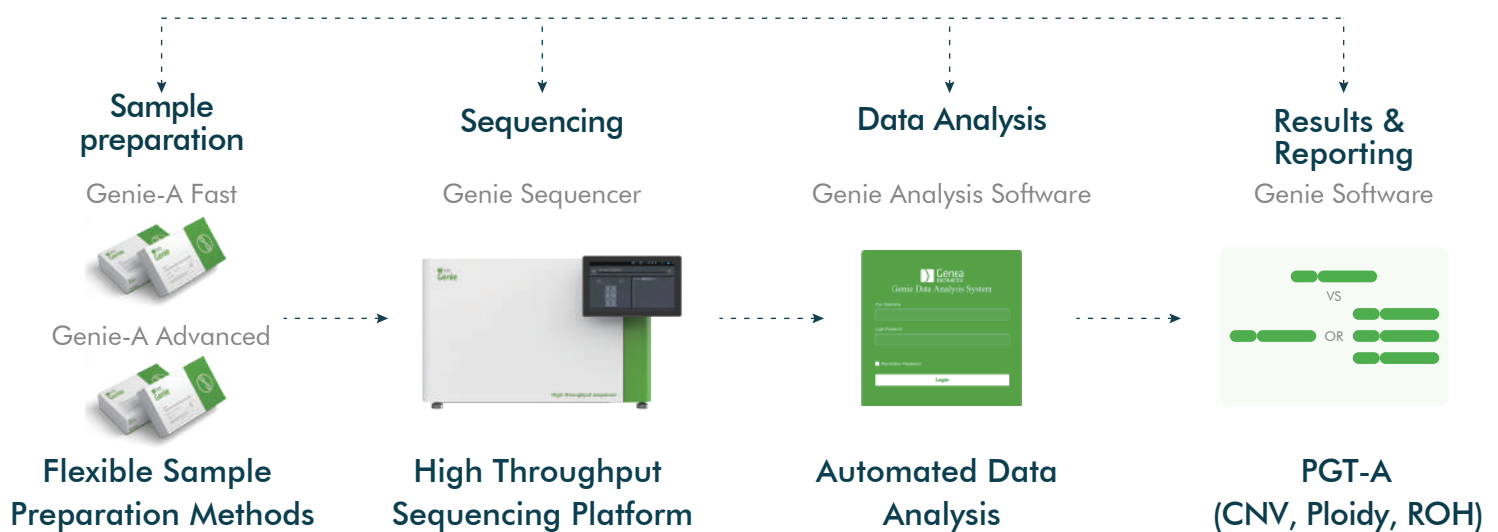
### Superior Data Volume and Detection Capabilities

Data volume starts at 5M, allowing for the detection of a wide range of diseases

### Supports Localised Deployment

Compatible with various devices and capable of quick report generation

## End-to-end Support



# Genie-Plus Solution

All-in-one test kit combining PGT-A, PGT-M & PGT-SR



## Comprehensive detection

A single solution for combined detection of PGT-M, PGT-SR and PGT-A, including Triploidy, UPD and ROH

## Genome-wide coverage

WGA by MDA and a Patented library preparation method for better whole-genome coverage

## High Resolution

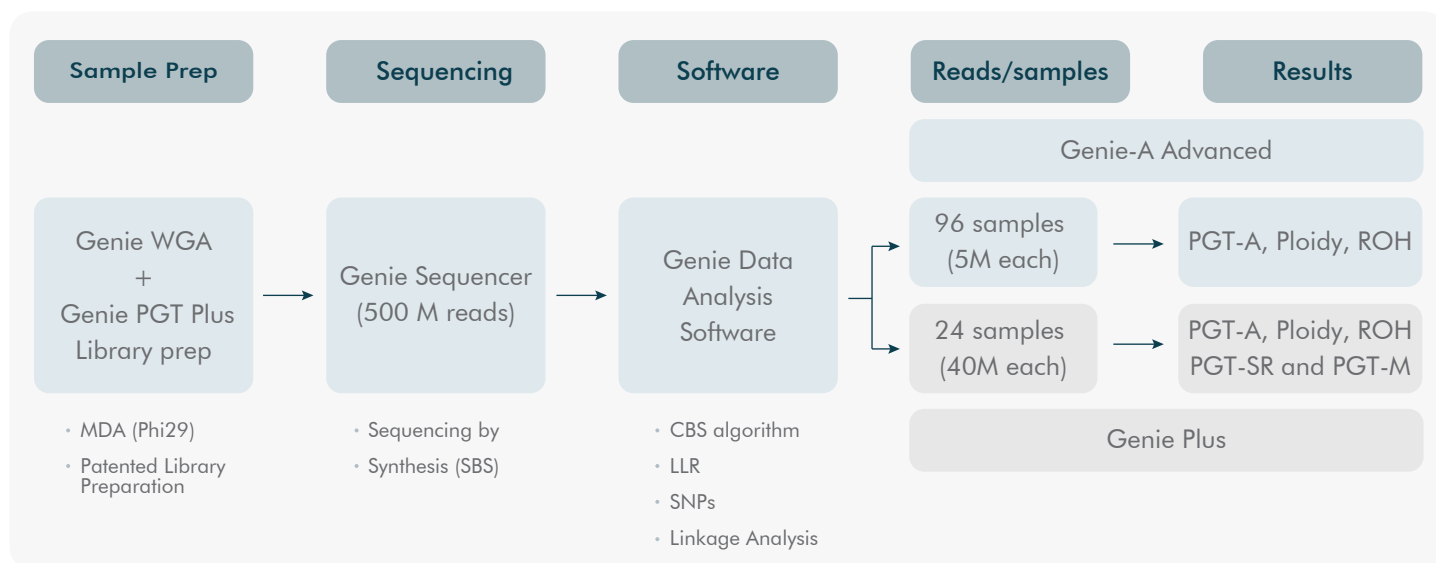
>4Mb CNVs (unknown), and >1 Mb inherited CNVs (known)

## High throughput & Scalability

500M reads/run, 40M reads/samples, 2 x 100 bp reads, up to 24, 48 samples/run



# Genie Plus: A Single workflow for PGT



## Competitive Pricing

Offering significant cost savings without compromising on quality

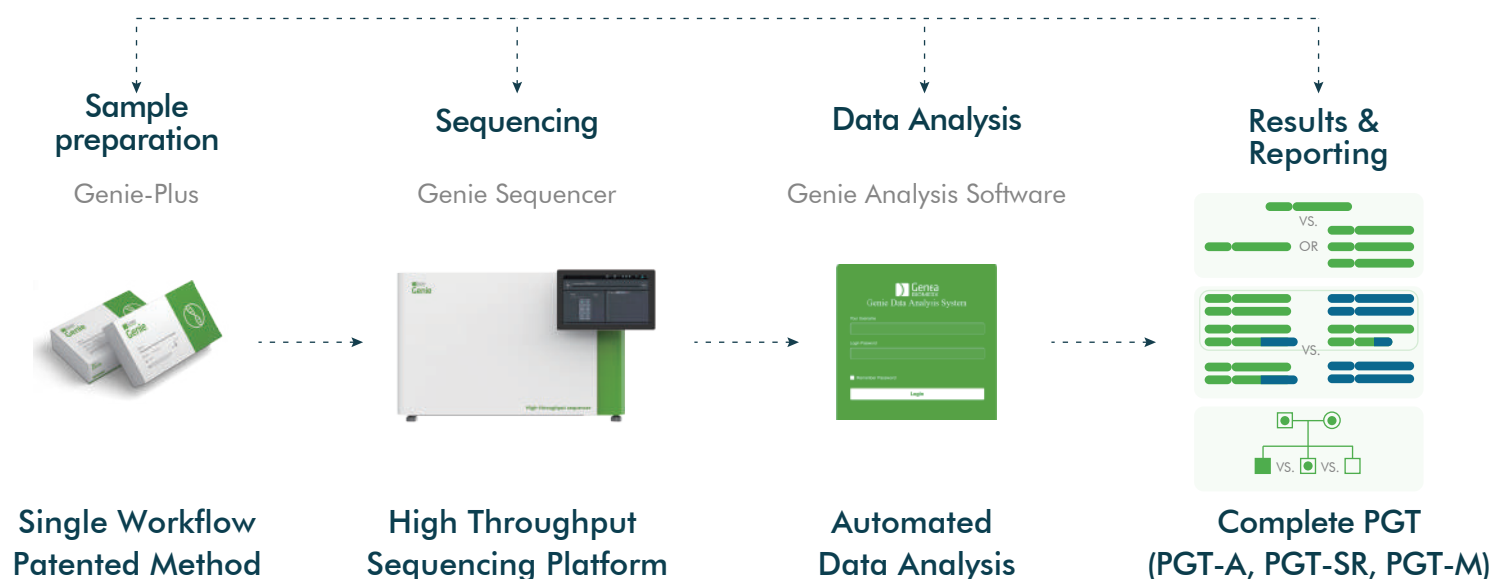
## Superior Data Volume and Detection Capabilities

Data volume starts at 5M, allowing for the detection of a wide range of diseases

## Supports Localised Deployment

Compatible with various devices and capable of quick report generation

## End-to-end Support



[1] Xie P, Hu X, Kong L, et al. Hum Reprod. 2022

[2] Note: risk warning available when using Genie PGT-Plus Analysis Software  
QRTM485

For more information visit: [geneabiomedx.com](http://geneabiomedx.com)

For research use only. Not for use in diagnostic procedures.