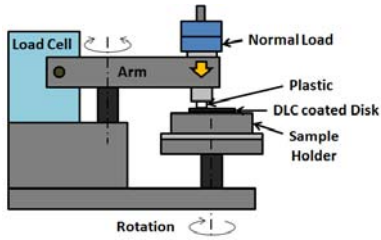
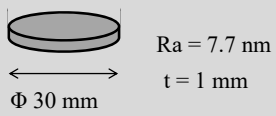


Apparatus (Roller-on-Disk)



Substrate : SUS304 **DLC**



VS.

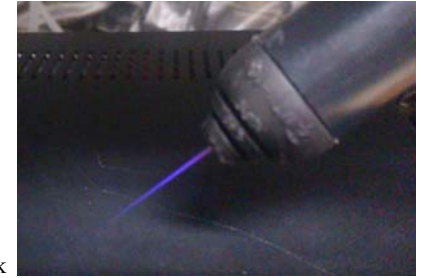
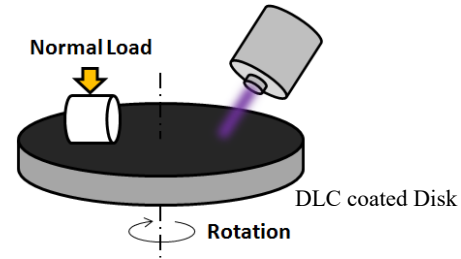
POM : Polyoxymethylene



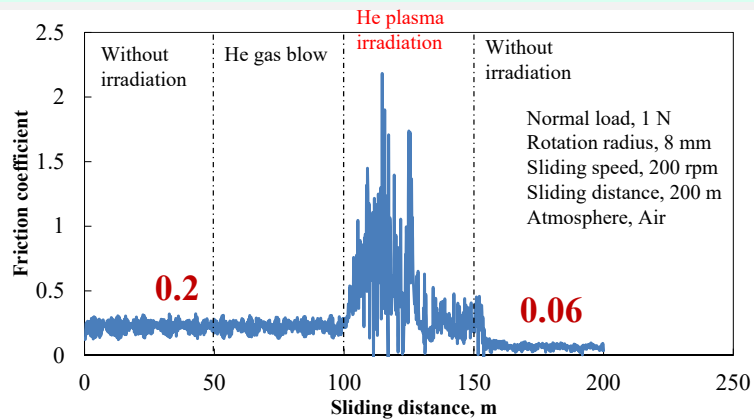
Young's modulus	1940 [MPa]
Poisson ratio	0.35

Load N	1.0
Radius, mm	8
Rot. Velocity, rpm	200
Sliding distance, m	200
Environment	Ambient Air

W, W/O
He Plasma Irradiation



Sliding dist., m	Plasma condition
0 – 50	Without irradiation
50 – 100	He gas blow
100 – 150	He plasma irradiation
150 – 200	吹き付けなし



Plasma irradiation	Friction coefficient
OFF (Before)	0.2 (constant)
ON	High-friction, unstable
OFF (After)	Decreased to 0.066