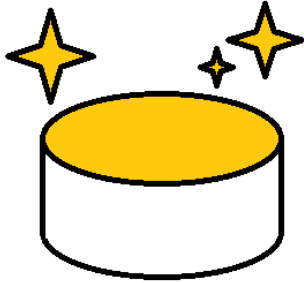
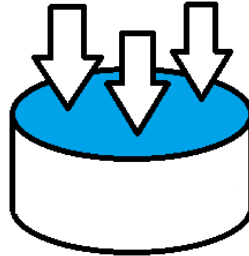


Nano Level Ultra-preciseness

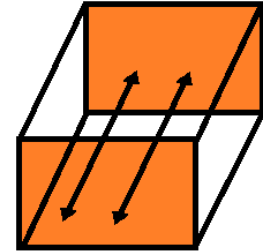
TDC will offer the best solution for customers by combination of various processing methods!



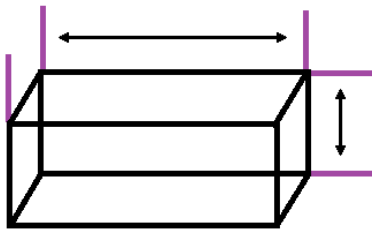
Roughness: Ra 1nm



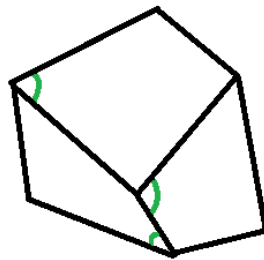
Flatness: 30nm



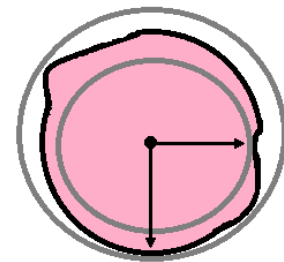
Parallelism: 100nm



Tolerance: 100nm



Angle: ± 3 sec

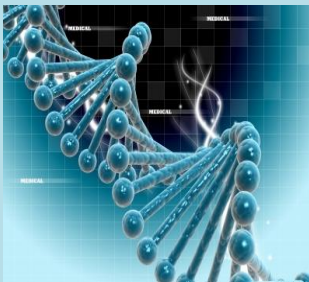


Sphericity: 50nm

We have established an “**exclusive technology**” of super precise mirror polish/lapping from our processing know-hows.

TDC processes wide variety of material such as **metal, ceramics, glass, resin, semiconductor material**, and others.

TDC's technology is used in various industries.



Medical



IT/Electronics



Automotive



Aerospace

Processing example



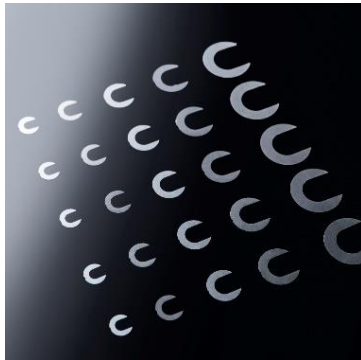
Super precision polished Roll

Applied to high spec film, Nanoimprinting technology.
Max size: dia.450*L3,000mm
Ra1.5nm, Rz8nm (Stainless steel)



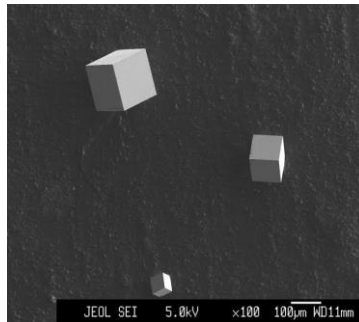
Super precision polished Foil

By using TDC's original polishing system, nano surface in 100M Length is possible.
Ra1nm, Rz6nm (Stainless steel)



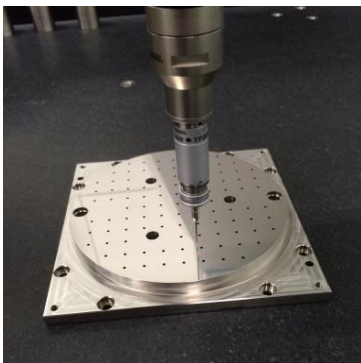
Spacer & Shim

TDC's super precision shims, spacers, washers without dispersion in thickness enable high assembly precision.
We also accept materials and shapes different from TDC standard shim on request.



Micro cube

TDC produces micrometer size cubes using its expertise.
Picture above is SEM image of micro cubes of 50, 100, and 150 micron size.



Chuck plate

We achieve not only precise flatness, but also other extremely difficult requirements such as size tolerance, angle, parallelism at the same time.
Flatness: 0.1micrometer
Size: Φ 100mm



Other shapes

We have many special lapping machines for polishing not only flat items but curves, Inner diameter of cylindrical shape, spherical bodies.
There polishing will also be finished in Ra 1 nm level.

CONTACT

If you have any question or inquiry, please do not hesitate to contact us.

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