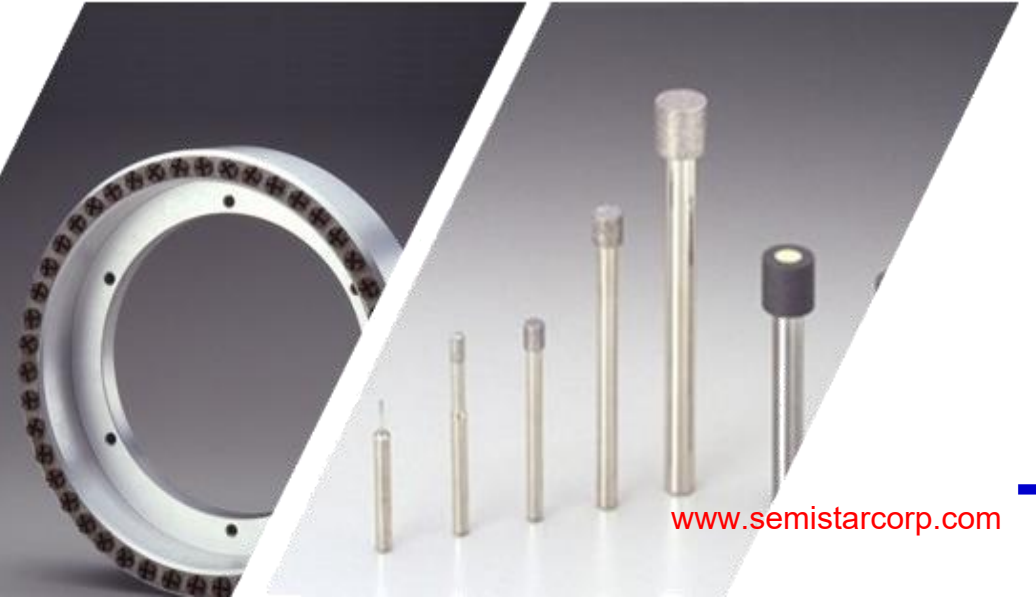


Sales Contact: [sales@semistarcorp.com](mailto:sales@semistarcorp.com)

[www.semistarcorp.com](http://www.semistarcorp.com)

# Tokyo Diamond Tools Mfg. Co., Ltd.



SemiStar Address: 380 Tennant Ave, Suite 5, Morgan Hill, CA 95037, USA

[www.semistarcorp.com](http://www.semistarcorp.com)



# Who is “Tokyo Diamond Tools” ?

By Diamond Tools, we’ve contributed Japanese “Monozukuri/Manufacturing” for more than 90 years.

We “Tokyo Diamond Tools” is located at heart of Tokyo, Japan.

And we have enormous experience at wide range of the production process regarding diamond tools, for more than 90 years.

## What we can bring?

We, Tokyo diamond Tools, provide you the solution for your problems

Regarding the diamond tools which you are currently using at your production, are you facing any issues of Quality, Cost, Delivery and Service?

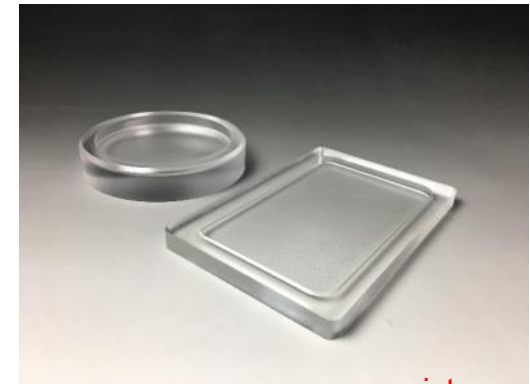
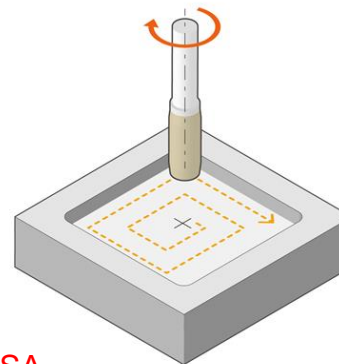
If you do, please kindly contact to us. It would be our pleasure to provide you the solutions by designing special equipment together with you.

Depending on your requirements, we will custom-design the product even from 1pc.

# For what kind of application?

Our wheels suit for the SPE parts processing

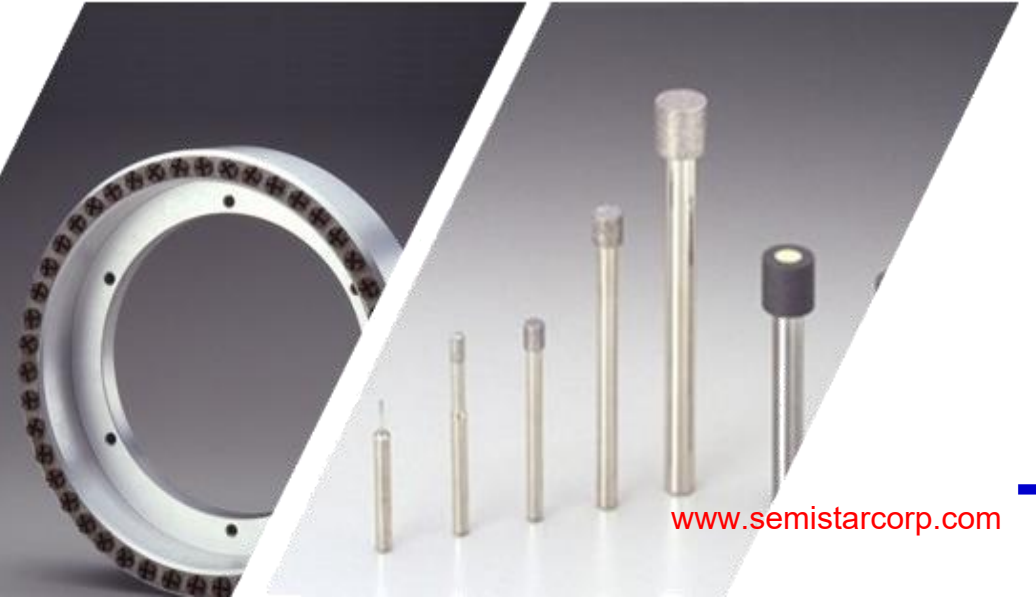
Our special designed metal/resin/electroplating bonding diamond wheels have been used for the world major manufacturers who takes the process of SPE parts processing for semiconductor and other industries.



# “SPE parts processing” products Spec introduction

- Metal/Resin/Electroplating bond Wheel -

Tokyo Diamond Tools Mfg. Co., Ltd.



# Specifications

## Mounted wheel



| Items          | Specification                                                                  |
|----------------|--------------------------------------------------------------------------------|
| Grain size     | #60~ #1500                                                                     |
| Bonding        | Metal/Resin/Electroplating bonding                                             |
| Shaft diameter | $\phi 3Y \sim \phi 32Y$ h6                                                     |
| Wheel diameter | $\phi 6D \sim \phi 42D$                                                        |
| Base material  | Carbon Steel (SC,SK) & SUS                                                     |
| Lead time      | New wheel: 30-40days                                                           |
| Work materials | Quartz, Glass, Ceramics, Carbon, Ferrites, SiC and other Hard brittle material |

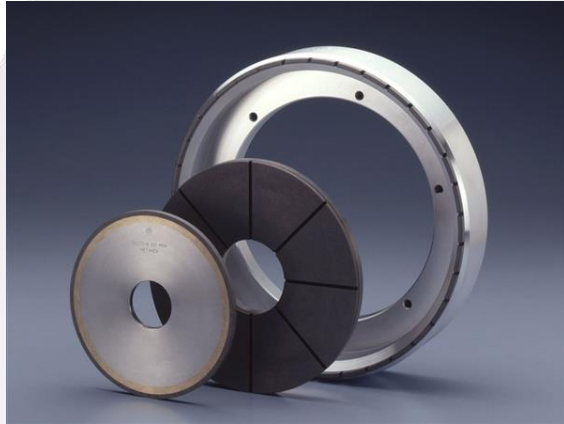
## Diamond mounted wheel for outer/inner processing



Ring processing

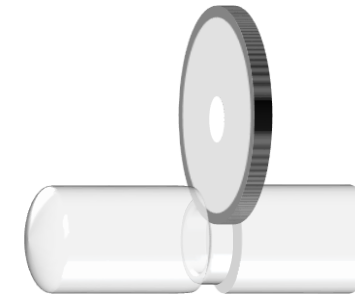
# Specifications

## Grinding wheel "Metarex"



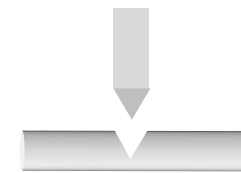
| Items          | Specification                                                                       |
|----------------|-------------------------------------------------------------------------------------|
| Grain size     | #60 ~ #1500                                                                         |
| Bonding        | Metal/Resin bonding                                                                 |
| OD range       | φ60D~φ1000D                                                                         |
| ID range       | Depend on M/C spec.                                                                 |
| Base material  | Carbon Steel (SC,SK) & SUS & Al                                                     |
| Lead time      | New M wheel: 40days                                                                 |
| Work materials | Quartz, Glass, Ceramics, Carbon, Ferrites and other Hard brittle material, Sapphire |

## Diamond wheel for cylindrical grinding

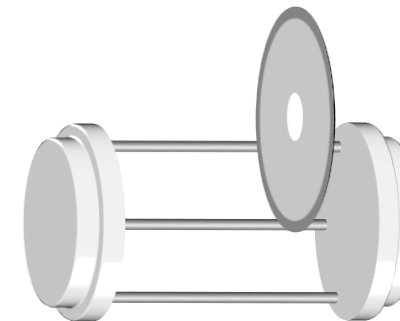


Tube processing

## V face diamond wheel for grooving



Work materials



Quartz Boat

# Specifications

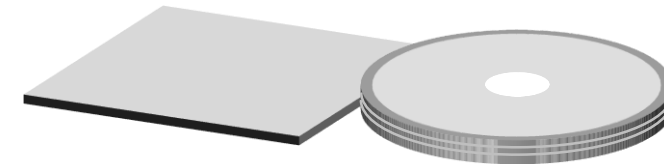
## Edge Grinding wheel



| Items              | Specification                                                                         |
|--------------------|---------------------------------------------------------------------------------------|
| Grain size         | #325~#2500                                                                            |
| Bonding            | Metal/Resin/Electroplating bonding                                                    |
| OD                 | ~202D                                                                                 |
| ID                 | H6 (TBD)                                                                              |
| Dynamic Balance    | ≥0.2g@Min.                                                                            |
| Groove θ tolerance | ≥0.5°                                                                                 |
| Number of groove   | Up to 10                                                                              |
| Base material      | SUS, Al, SC and others                                                                |
| Lead time          | New wheel: 40-50days                                                                  |
| Work materials     | Quartz, Glass, Ceramics, Ferrites, Sapphire, FPD, SiC and other Hard brittle material |

## Diamond wheel for edge grinding

Work materials



Photomask substrate

# Specifications

## Cutting wheel

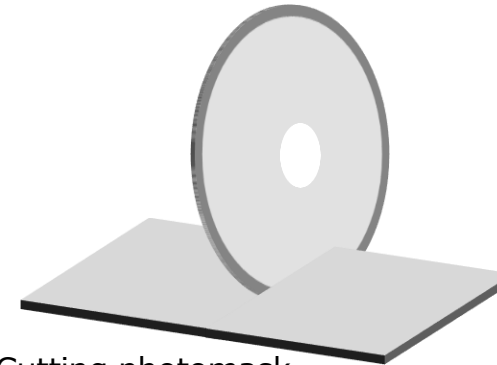


| Items          | Specification                                                                           |
|----------------|-----------------------------------------------------------------------------------------|
| Grain size     | #40~ #800                                                                               |
| Bonding        | Metal/Resin/Electroplating bonding                                                      |
| OD range       | 50~350D                                                                                 |
| T range        | 0.3~3T                                                                                  |
| ID range       | Depend on M/C spec.                                                                     |
| Base material  | Rim saw type: SK,SKH,SC,SKS,SUS<br>Slicing saw type: same as bond material              |
| Lead time      | New wheel: 40days                                                                       |
| Work materials | Quartz, Glass, Ceramics, Carbon, Ferrites ,<br>Sapphire and other Hard brittle material |

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\*Multiple size available

## Diamond cutting blade for cutting



Cutting photomask  
substrate material



Crucible cutting

We “challenge to change” with you

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