

**DIAMOND  
ELEMENTS**



**EXCLUSIVE GLOBAL SALES PARTNER**



**E.I.D. LTD**  
INDUSTRIAL DIAMONDS



# ABOUT US

DIAMOND ELEMENTS, BASED IN SURAT, INDIA, ARE A SPECIALIZED COMPANY WHO FOCUS EXCLUSIVELY ON THE MANUFACTURING OF HIGH PRECISION, FINE QUALITY SINGLE CRYSTAL DIAMOND BLANKS FOR USE EXCLUSIVELY ACROSS A WIDE RANGE OF SUPER FINISHING INDUSTRIAL APPLICATIONS



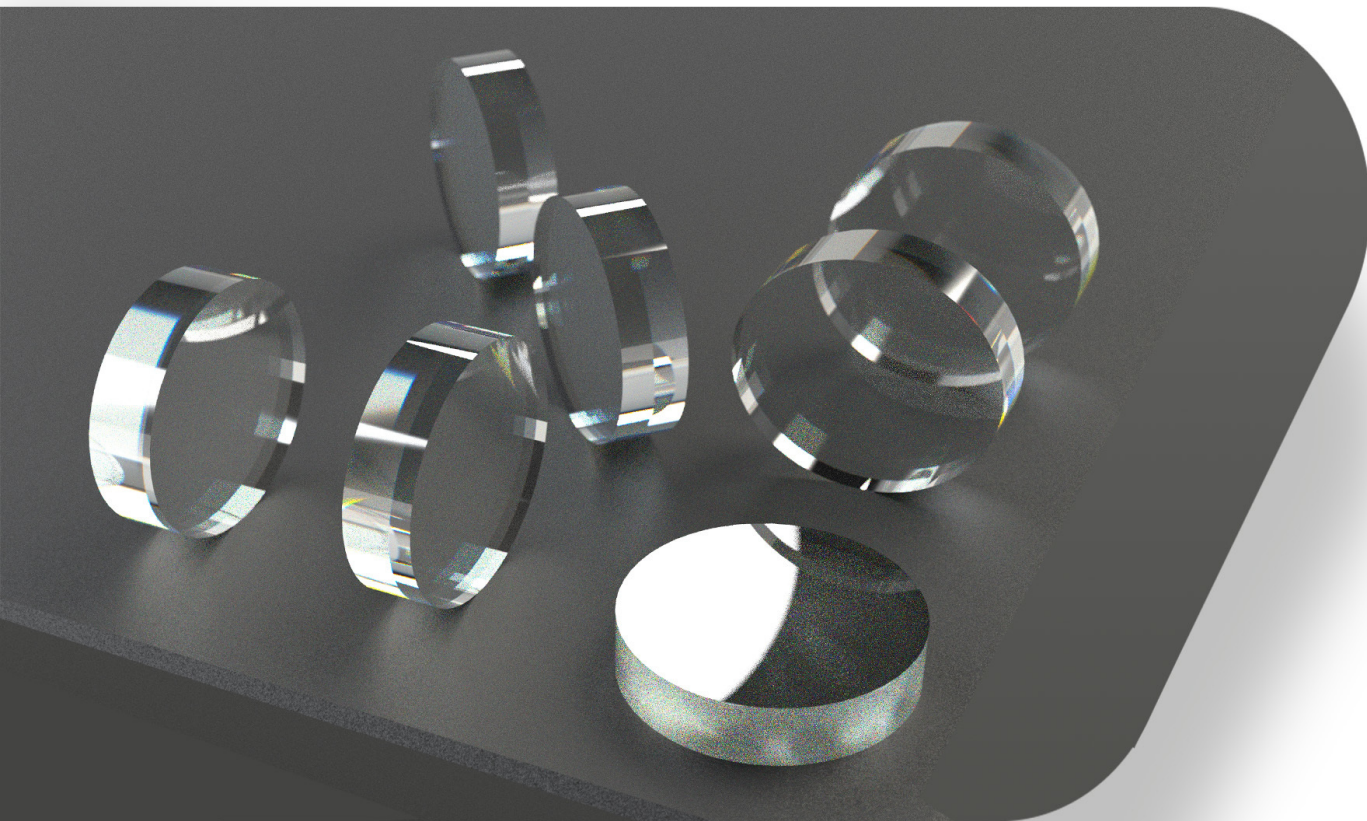




# DIAMOND ELEMENTS - FOR BEST IN CLASS SINGLE CRYSTAL CVD DIAMOND BLANKS

We are uniquely capable of producing superior quality, flawless mechanical grade CVD blanks under stringent testing conditions, enabling:

- Reduction of internal stress to further enhance the diamond performance
- Patented post-growth treatment process for every diamond grown, Targeting isolated regions within the crystal, reducing lattice stress
- Controlled fracture and breakdown behavior in critical ultra-precision applications
- Improved toughness, performance and tool life



Thanks to two decades of proprietary research, we are the only producer in the industry with such capabilities. Diamond Elements perfectly controls nano specifications across multiple properties including custom-built orientation, shape, size, tolerance, waviness and consistency.



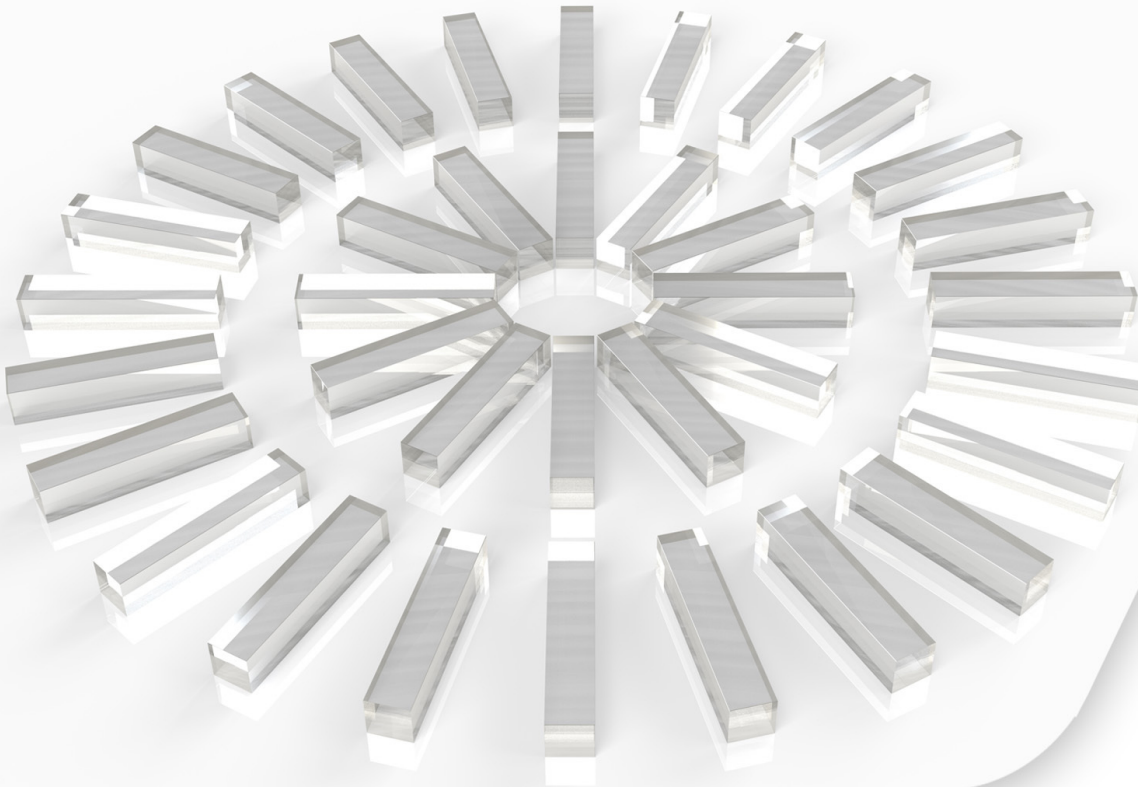
# E.I.D - INDUSTRIAL DIAMONDS



For more than 50 years E.I.D has been providing the widest array of top quality industrial diamond stones, natural and synthetic diamond powders to the industrial tooling world.

With its headquarters in London, England, and worldwide marketing partners, E.I.D has established a global reputation for quality consistency and superior service.

Today E.I.D have customers on every continent. Our sales team speaks more than 10 dialects but we all speak the same language - the right product at the right price when and where you require it.



Together, Diamond Elements and E.I.D are perfectly placed to service all of your CVD single crystal diamond needs





# FEATURES & BENEFITS OF OUR SCD BLANKS

## **FEATURES:**

- High Wear Resistance
- High Chip resistance
- Binder Free
- High Abrasive resistance with thermal stability
- Stress-free material
- Long length availability
- Available in all orientations
- Constant wear along the length

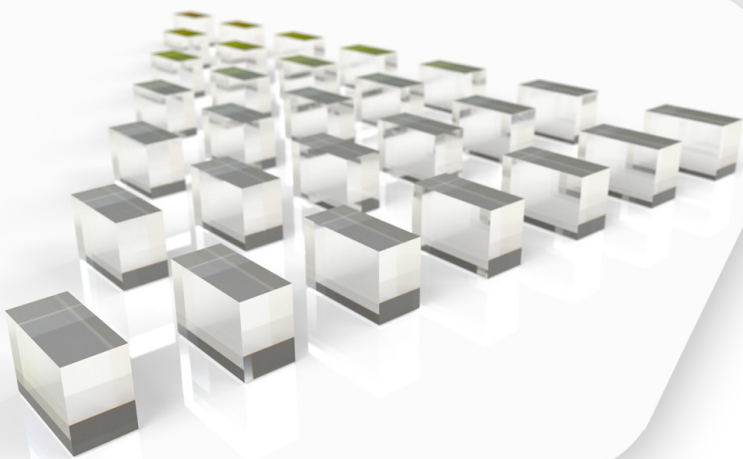
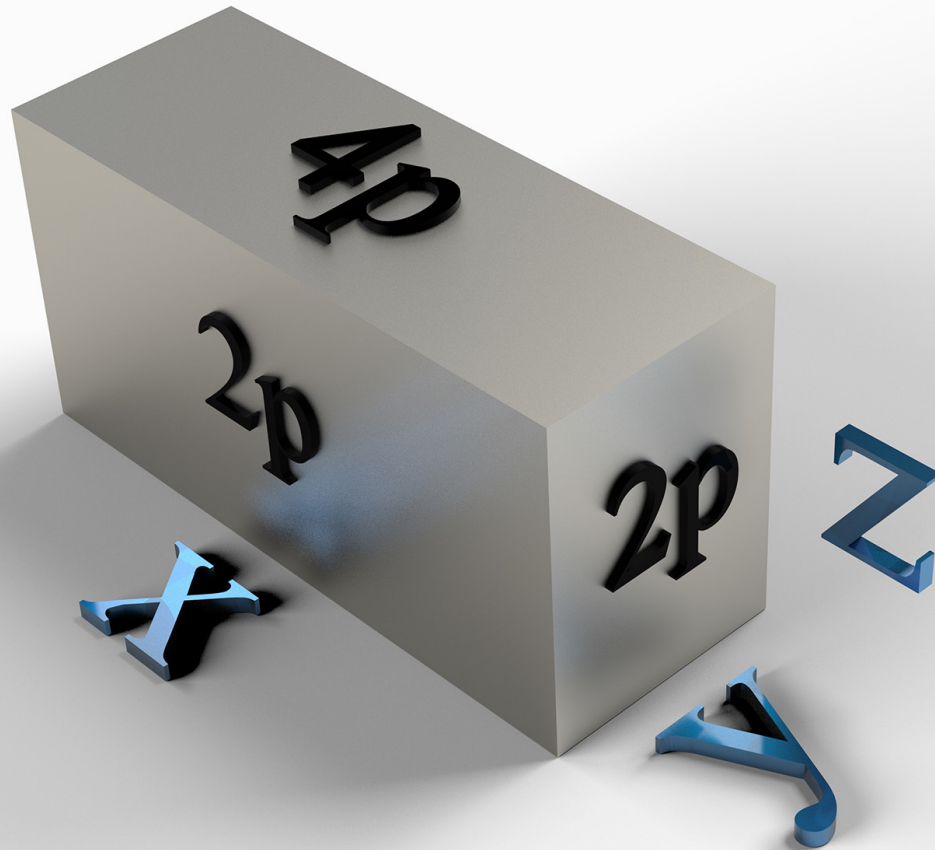
## **BENEFITS:**

- Reduction of operating costs
- Extreme high surface finish
- Best surface roughness achievable
- Consistence of tool life
- High quality surface finish in single cut
- Available in large quantities
- Simplified fabrication of tools



# 2P - DIRECTION 1

SINGLE CRYSTAL DIAMOND



2.0  $\ll$  x  $\ll$  10.0

2.0  $\ll$  y  $\ll$  10.0

0.8  $\ll$  z  $\ll$  5.0

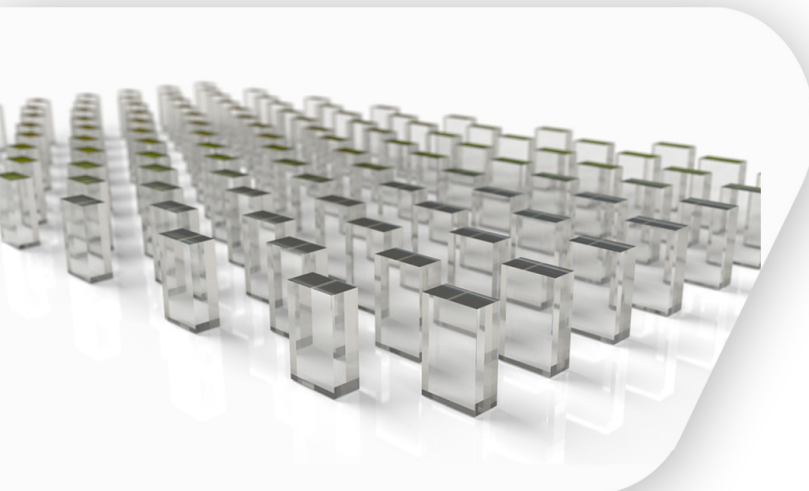
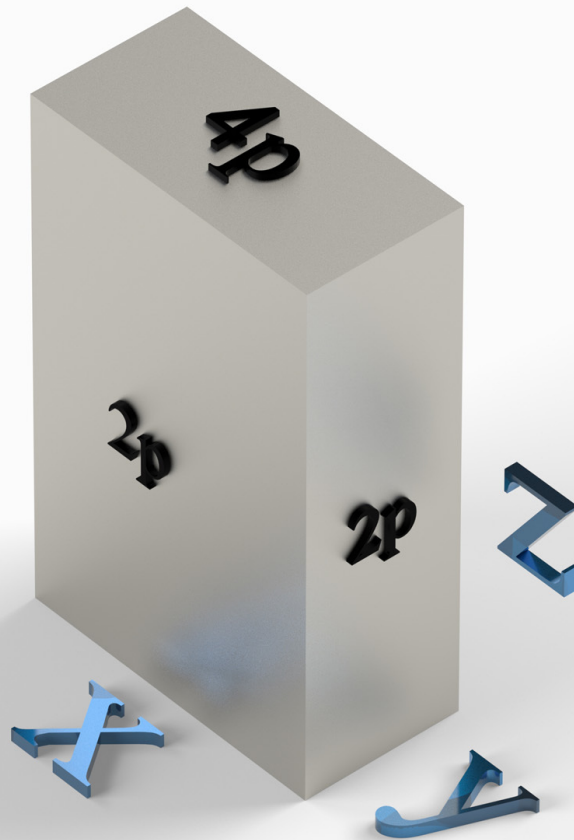
CUSTOM DIMENSIONS AVAILABLE UPON REQUEST  
LASER CUT & POLISHED SURFACE FINISHES AVAILABLE

TOLERANCE +0.1/-0.0  
DIMENSIONS IN MM



# 2P - DIRECTION 2

SINGLE CRYSTAL DIAMOND



1.0  $\ll$  X  $\ll$  5.0

1.0  $\ll$  Y  $\ll$  5.0

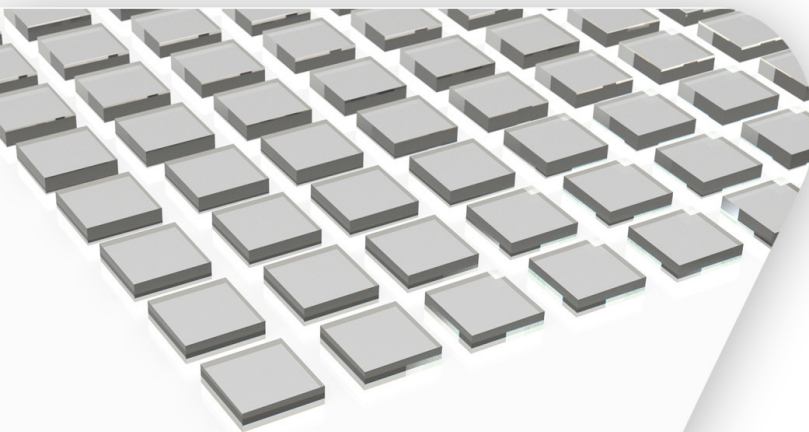
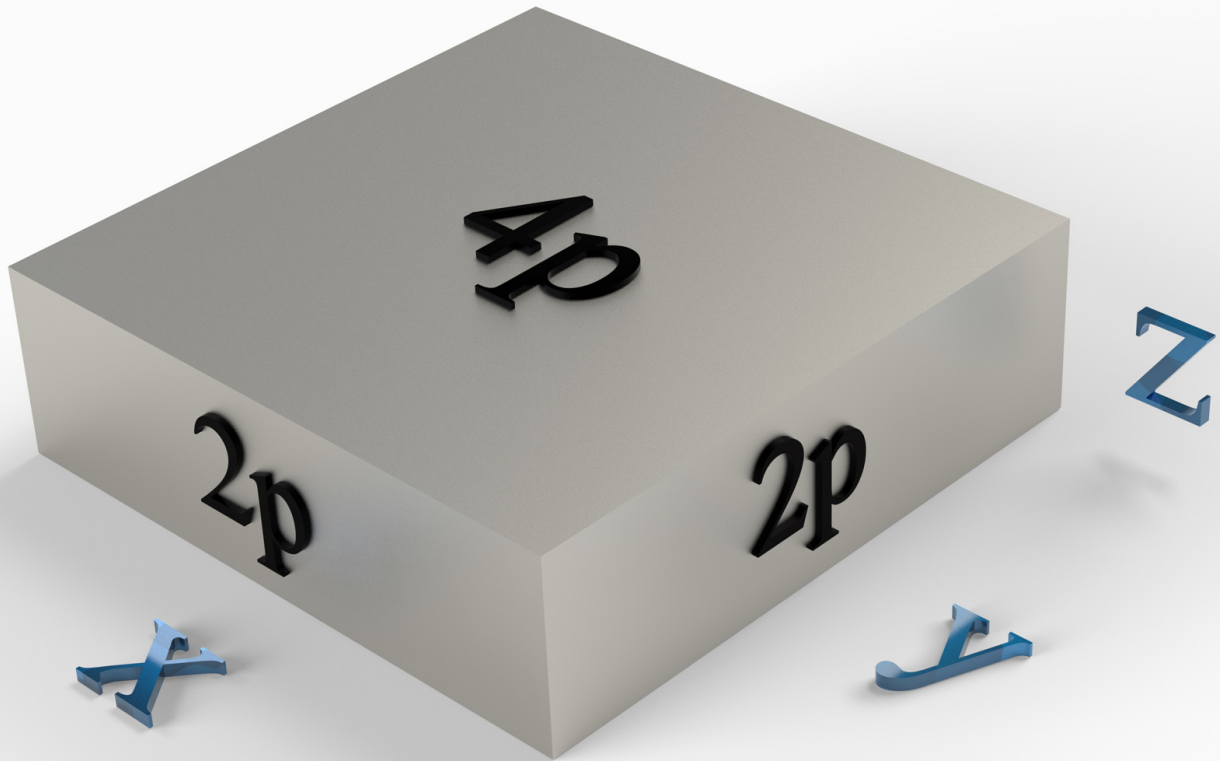
0.8  $\ll$  Z  $\ll$  8.0

CUSTOM DIMENSIONS AVAILABLE UPON REQUEST  
LASER CUT & POLISHED SURFACE FINISHES AVAILABLE

TOLERANCE +0.1/-0.0  
DIMENSIONS IN MM

# 4P - DIRECTION 1

SINGLE CRYSTAL DIAMOND



1.5  $\ll$  X  $\ll$  10.0

1.5  $\ll$  Y  $\ll$  10.0

0.8  $\ll$  Z  $\ll$  5.0

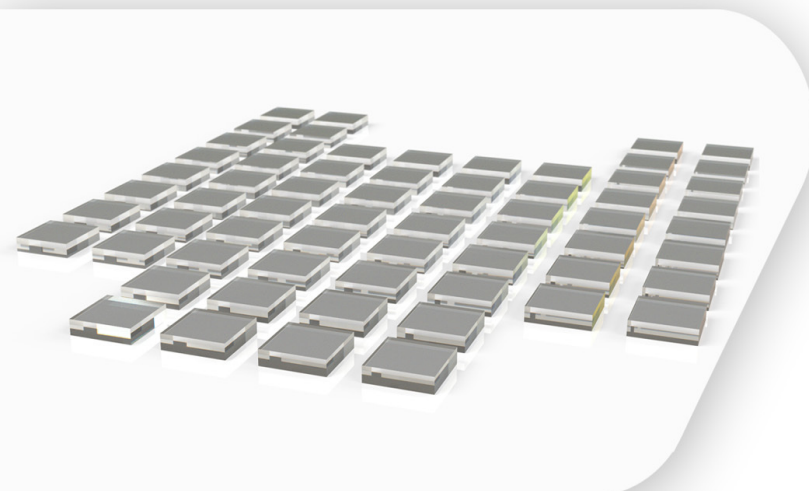
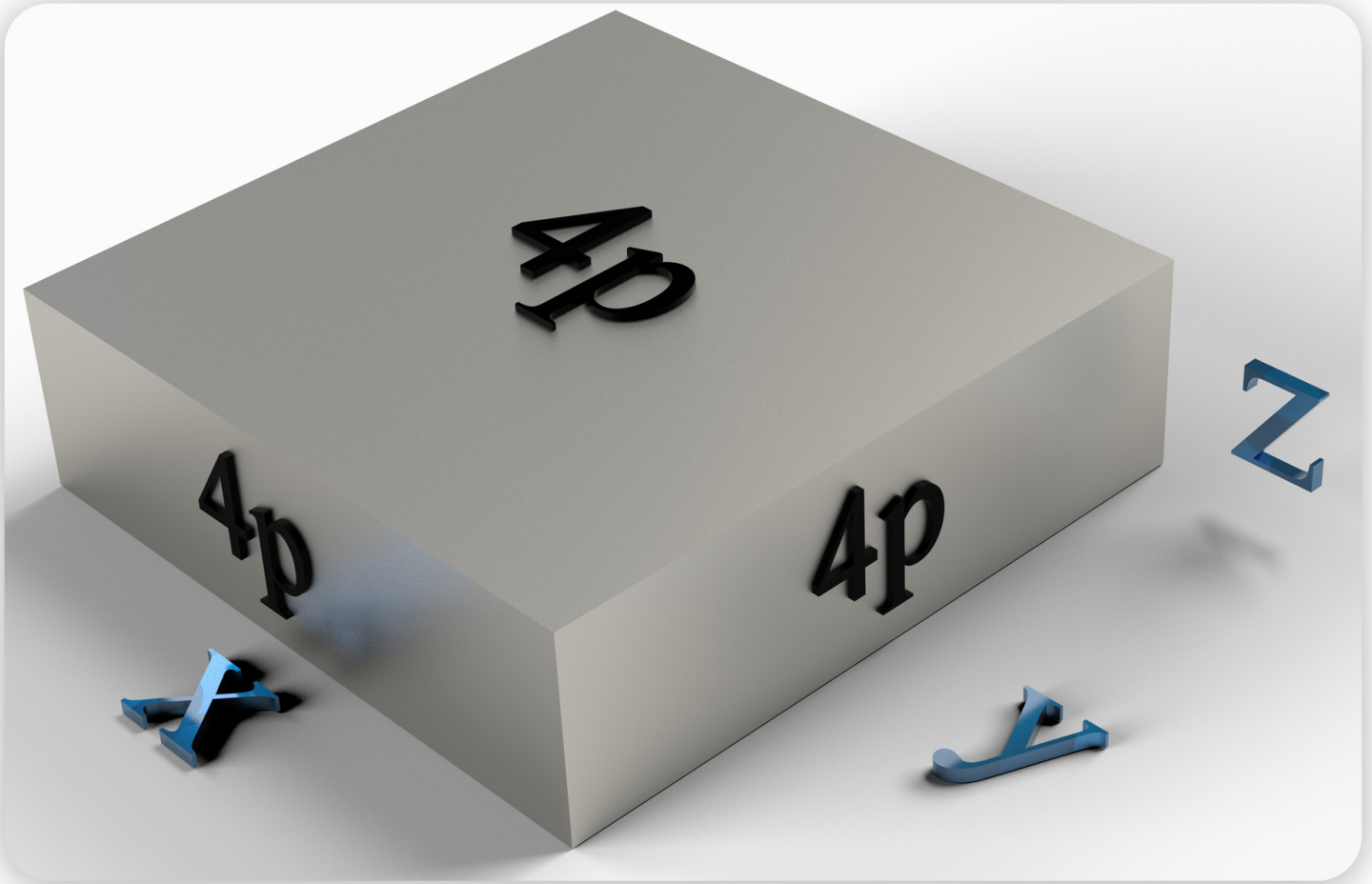
CUSTOM DIMENSIONS AVAILABLE UPON REQUEST  
LASER CUT & POLISHED SURFACE FINISHES AVAILABLE

TOLERANCE +0.1/-0.0  
DIMENSIONS IN MM



# 4P - DIRECTION 2

SINGLE CRYSTAL DIAMOND



1.5 10.0

1.5 10.0

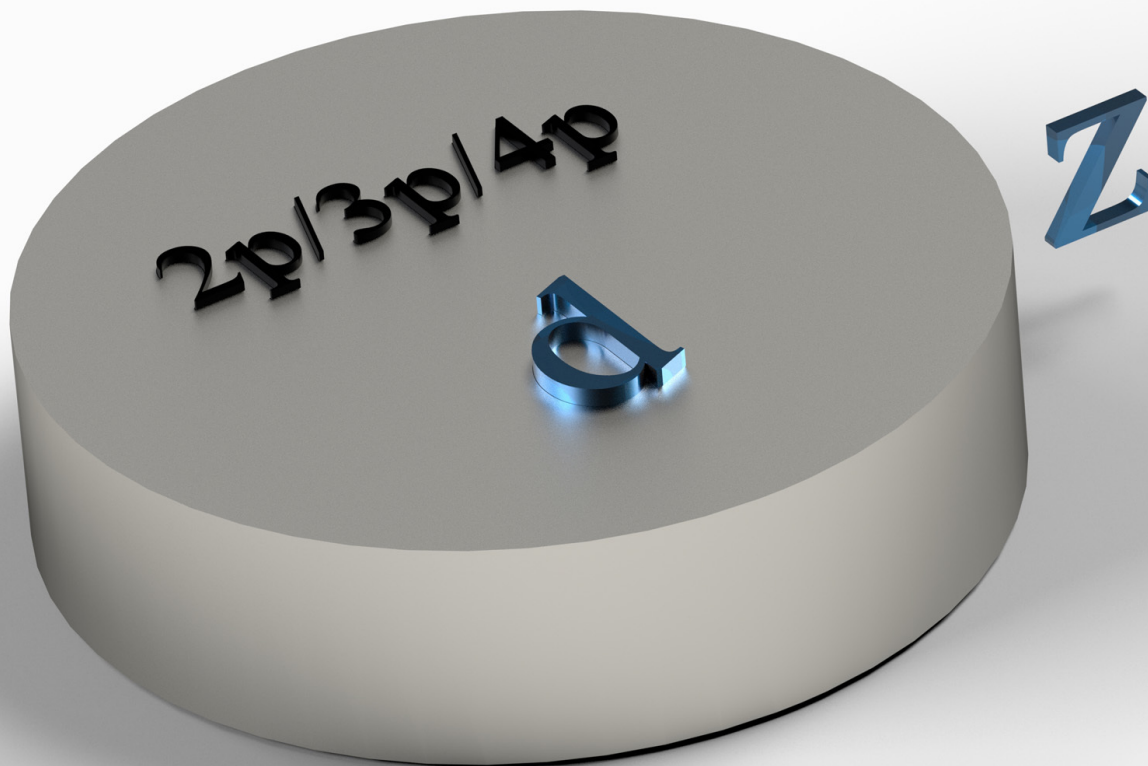
0.8 5.0

CUSTOM DIMENSIONS AVAILABLE UPON REQUEST  
LASER CUT & POLISHED SURFACE FINISHES AVAILABLE

TOLERANCE +0.1/-0.0  
DIMENSIONS IN MM

# SPECIAL SHAPES - CIRCULAR

SINGLE CRYSTAL DIAMOND



1.0  $\ll$  d  $\ll$  10.0

0.8  $\ll$  Z  $\ll$  5.0

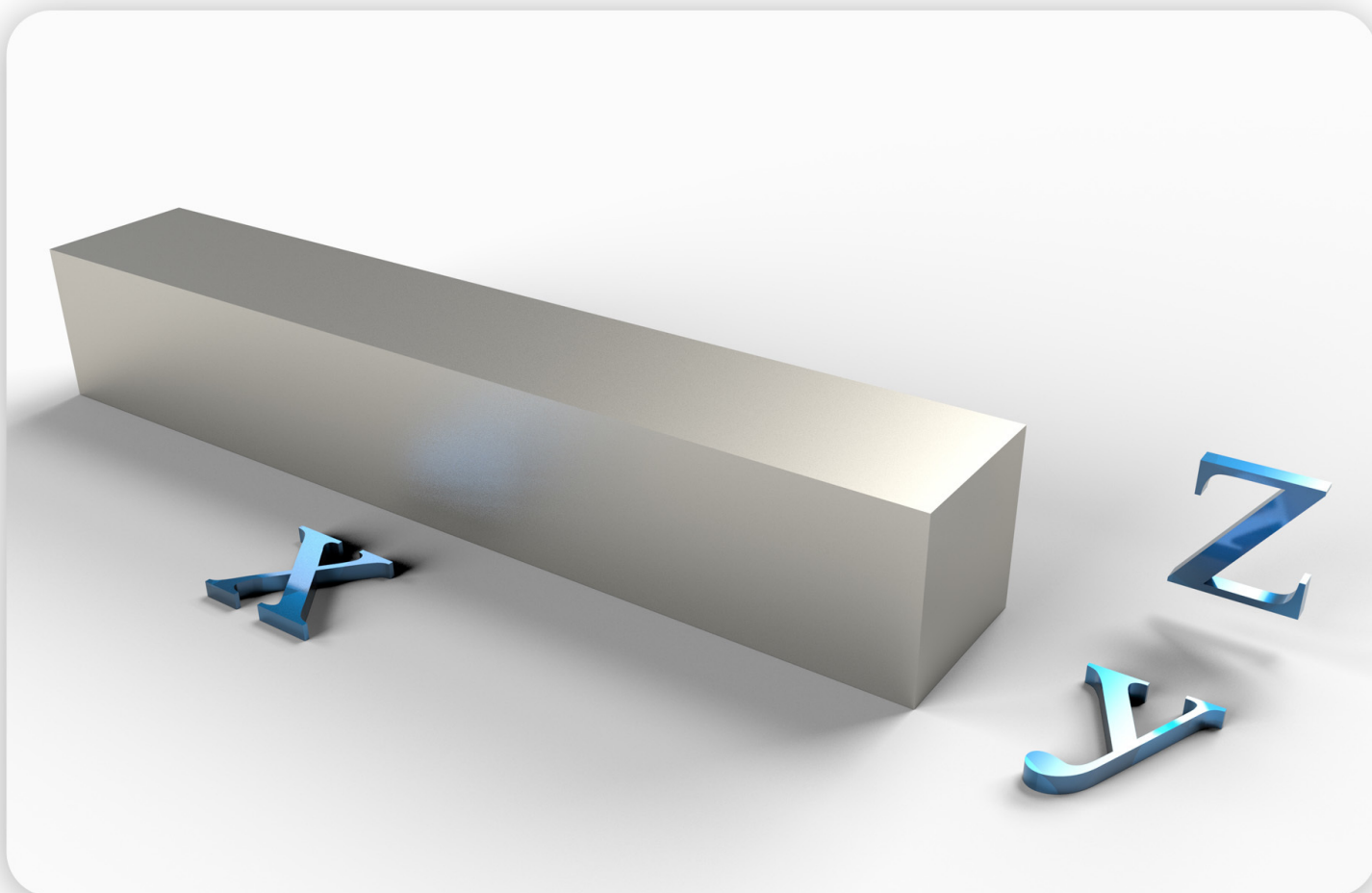
CUSTOM DIMENSIONS AVAILABLE UPON REQUEST  
LASER CUT & POLISHED SURFACE FINISHES AVAILABLE

TOLERANCE +0.1/-0.0  
DIMENSIONS IN MM



# SPECIAL SHAPES - LOG

SINGLE CRYSTAL DIAMOND



1.5 << X << 15.0

0.3 << Y << 3.0

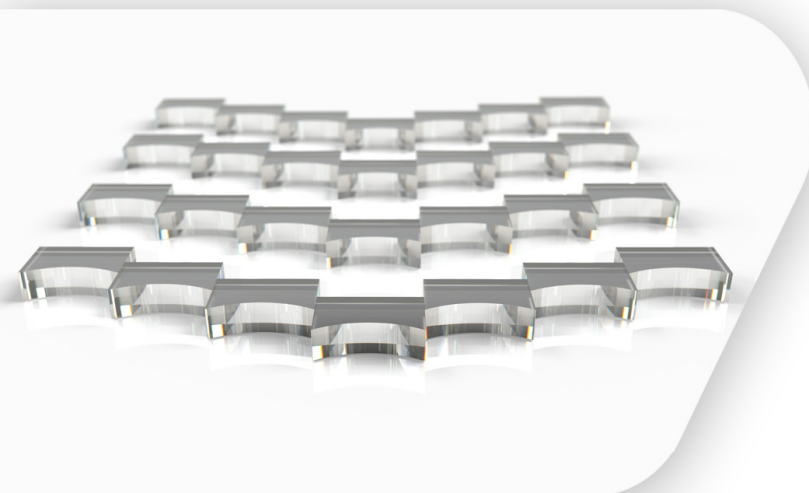
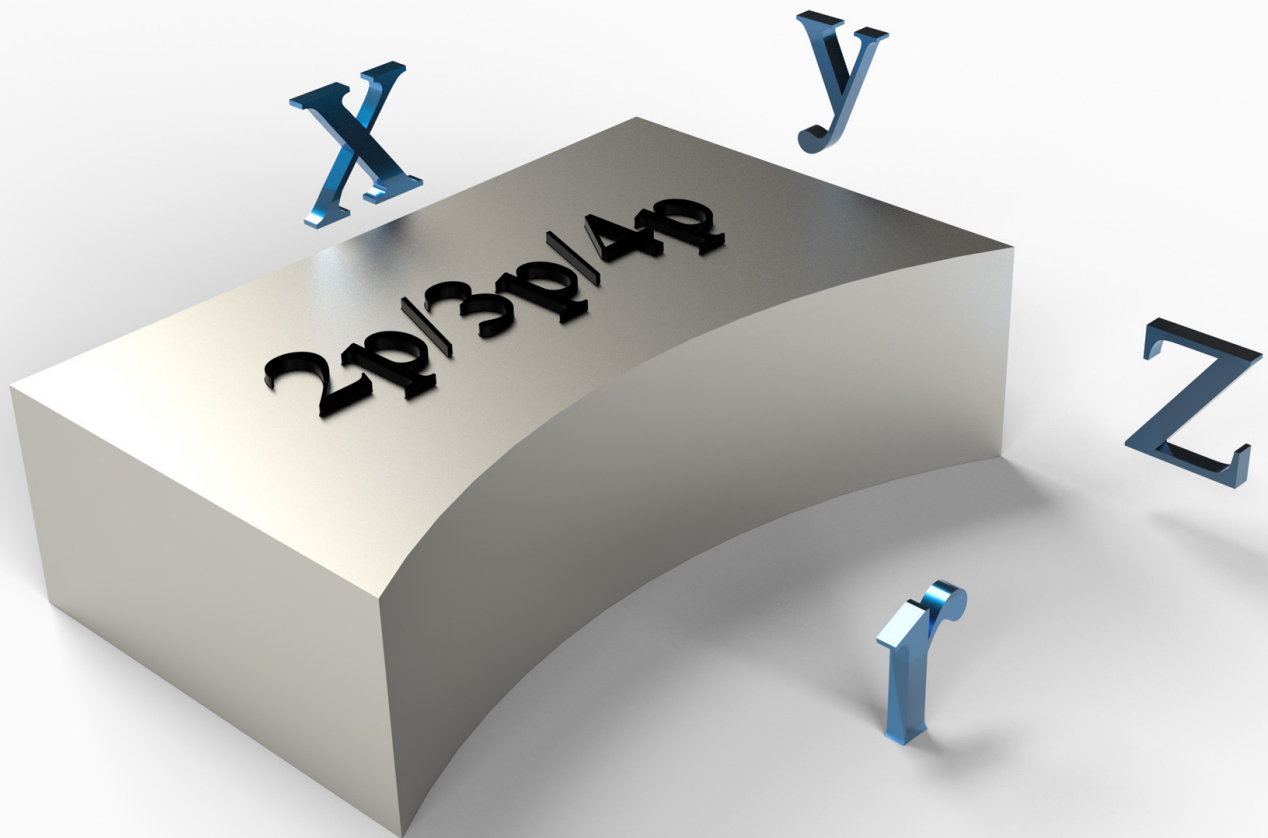
0.3 << Z << 3.0

CUSTOM DIMENSIONS AVAILABLE UPON REQUEST  
LASER CUT & POLISHED SURFACE FINISHES AVAILABLE

TOLERANCE +0.1/-0.0  
DIMENSIONS IN MM

# SPECIAL SHAPES - CONCAVE

SINGLE CRYSTAL DIAMOND



1.0  $\ll$   $r$   $\ll$  5.0

2.0  $\ll$   $x$   $\ll$  10.0

2.0  $\ll$   $y$   $\ll$  10.0

0.8  $\ll$   $z$   $\ll$  5.0

CUSTOM DIMENSIONS AVAILABLE UPON REQUEST  
LASER CUT & POLISHED SURFACE FINISHES AVAILABLE

TOLERANCE +0.1/-0.0  
DIMENSIONS IN MM



# SPECIAL SHAPES - CONVEX

SINGLE CRYSTAL DIAMOND



1.0  $\ll$  r  $\ll$  5.0

2.0  $\ll$  x  $\ll$  10.0

2.0  $\ll$  y  $\ll$  10.0

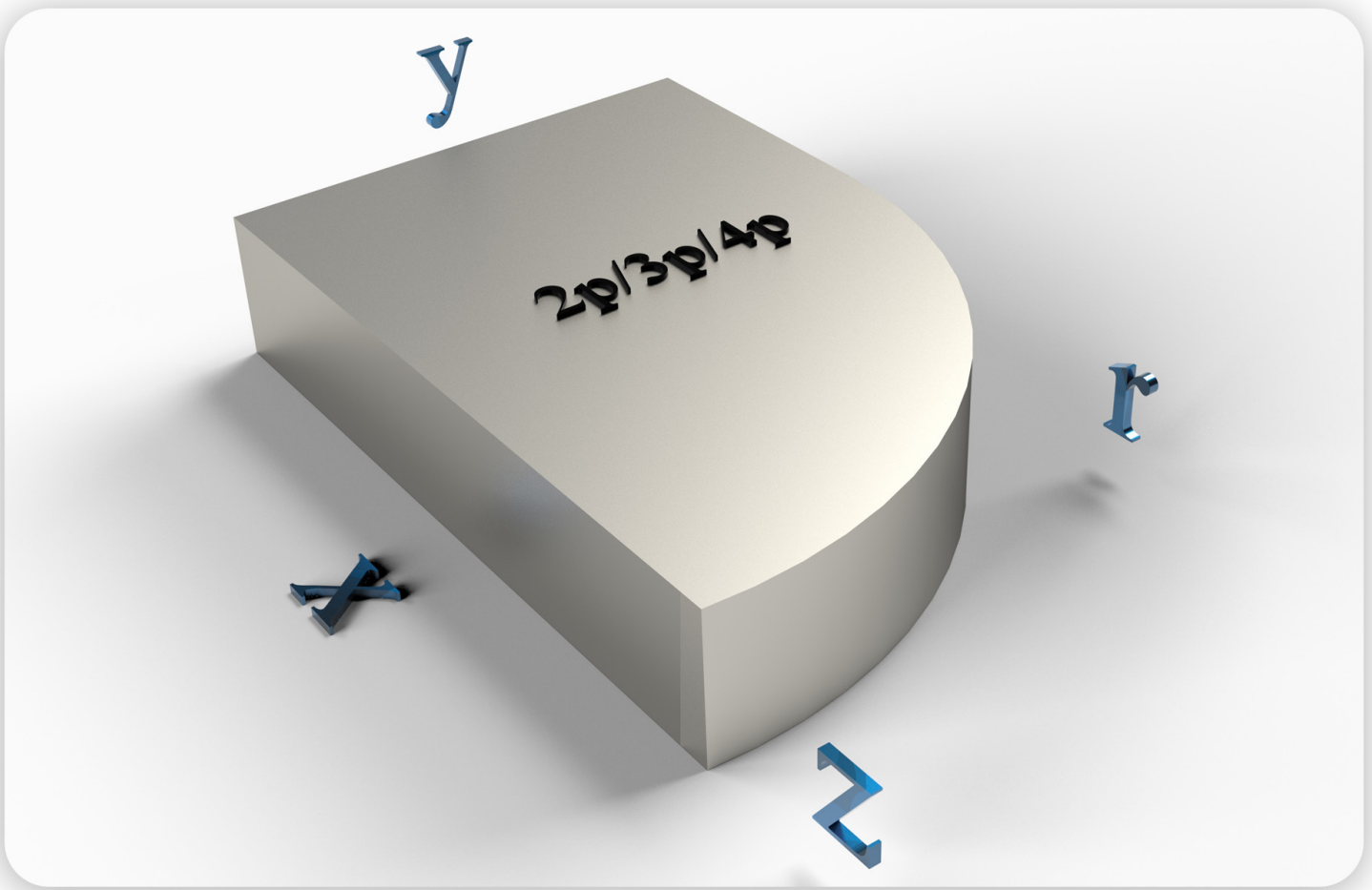
0.5  $\ll$  z  $\ll$  5.0

CUSTOM DIMENSIONS AVAILABLE UPON REQUEST  
LASER CUT & POLISHED SURFACE FINISHES AVAILABLE

TOLERANCE +0.1/-0.0  
DIMENSIONS IN MM

# SPECIAL SHAPES - QUARTER

SINGLE CRYSTAL DIAMOND



1.0 << **r** << 5.0

2.0 << **x** << 10.0

2.0 << **y** << 10.0

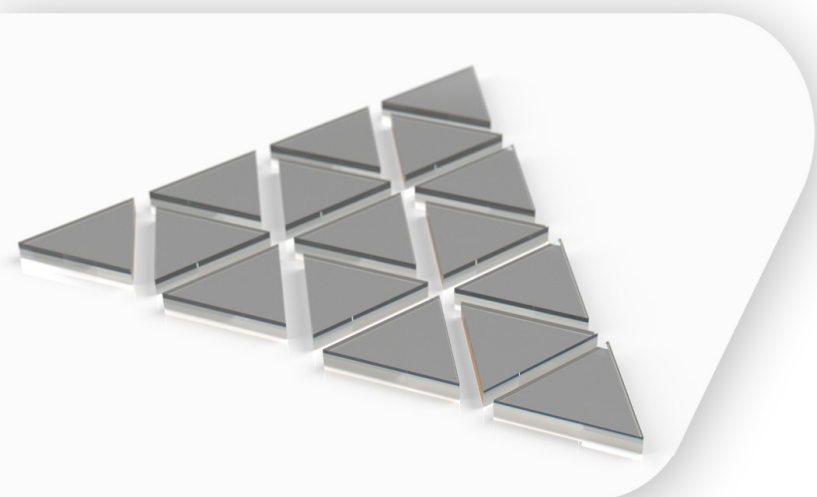
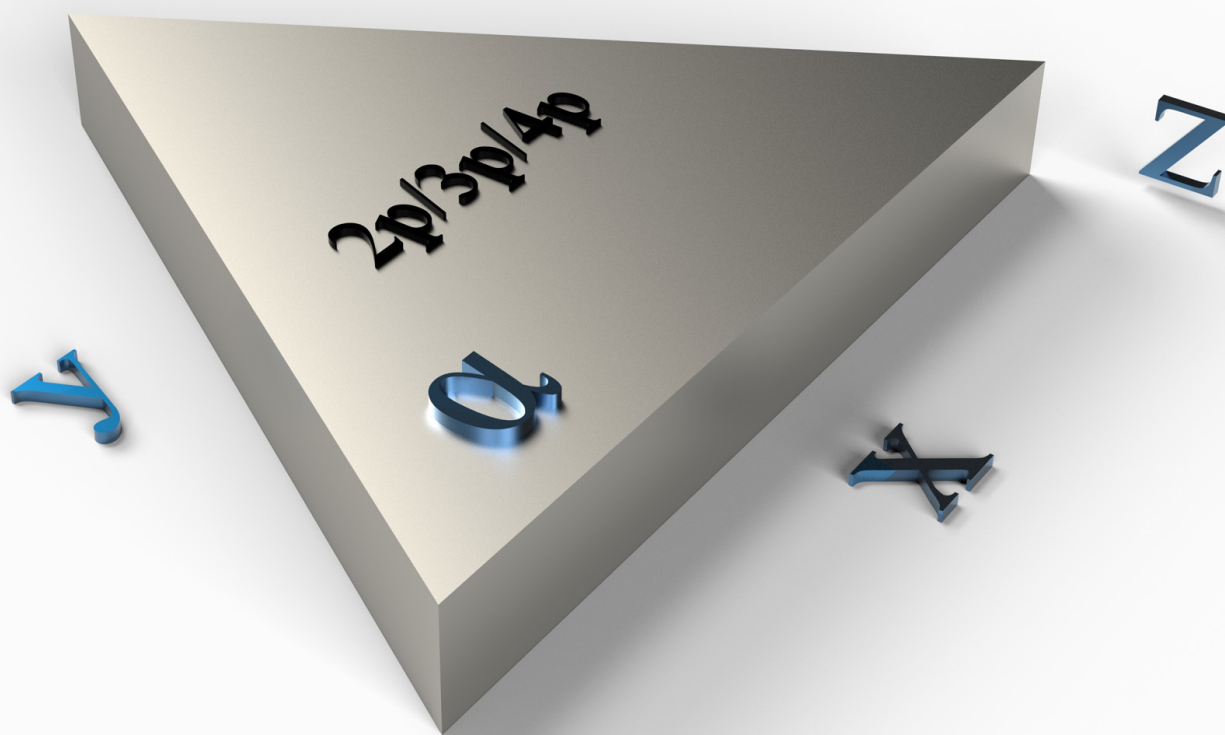
0.5 << **z** << 5.0

CUSTOM DIMENSIONS AVAILABLE UPON REQUEST  
LASER CUT & POLISHED SURFACE FINISHES AVAILABLE

TOLERANCE +0.1/-0.0  
DIMENSIONS IN MM

# SPECIAL SHAPES - TRIANGLE

SINGLE CRYSTAL DIAMOND



35°  $\ll$   $\alpha$   $\ll$  90°

1.5  $\ll$   $X$   $\ll$  7.0

1.5  $\ll$   $Y$   $\ll$  7.0

0.8  $\ll$   $Z$   $\ll$  5.0

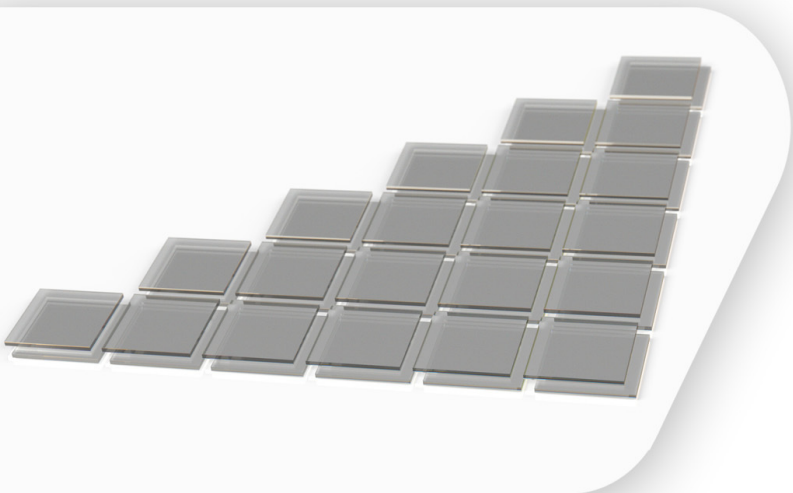
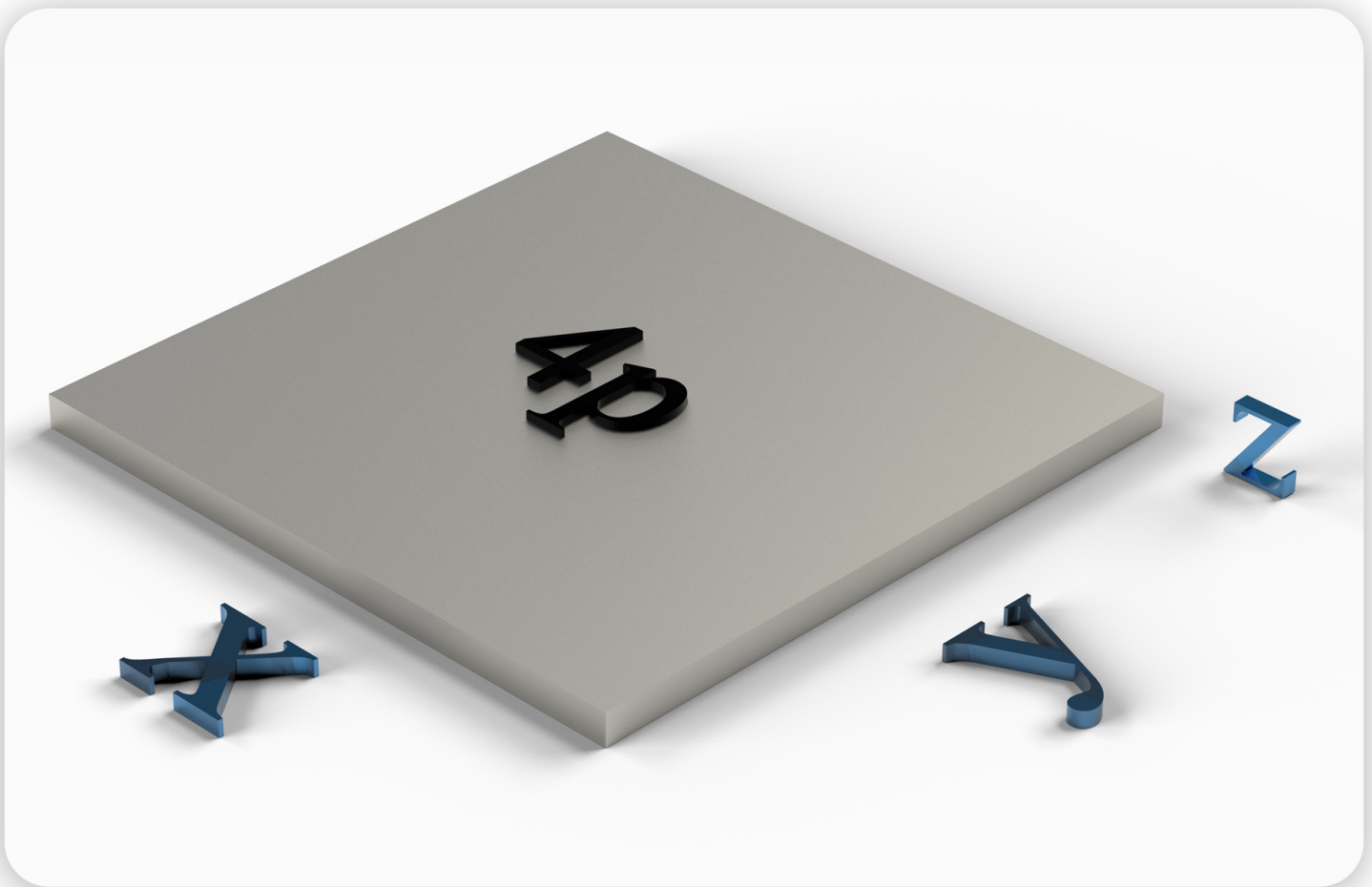
CUSTOM DIMENSIONS AVAILABLE UPON REQUEST  
LASER CUT & POLISHED SURFACE FINISHES AVAILABLE

TOLERANCE +0.1/-0.0  
DIMENSIONS IN MM



# SPECIAL SHAPES - WAFERS - 4P

SINGLE CRYSTAL DIAMOND



1.5 << X << 10.0

1.5 << Y << 10.0

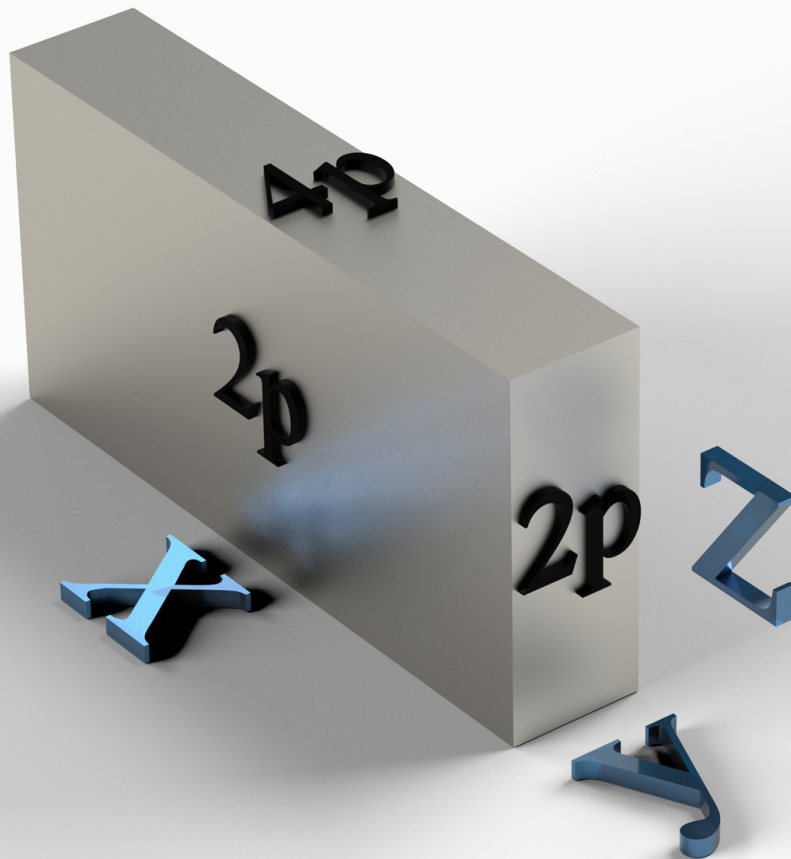
0.3 << Z << 3.0

CUSTOM DIMENSIONS AVAILABLE UPON REQUEST  
LASER CUT & POLISHED SURFACE FINISHES AVAILABLE

TOLERANCE +0.1/-0.0  
DIMENSIONS IN MM

# SPECIAL SHAPES - THIN PLATE - 2P

SINGLE CRYSTAL DIAMOND



1.5  $\ll$  **x**  $\ll$  8.0

0.1  $\ll$  **y**  $\ll$  1.0

0.8  $\ll$  **z**  $\ll$  5.0

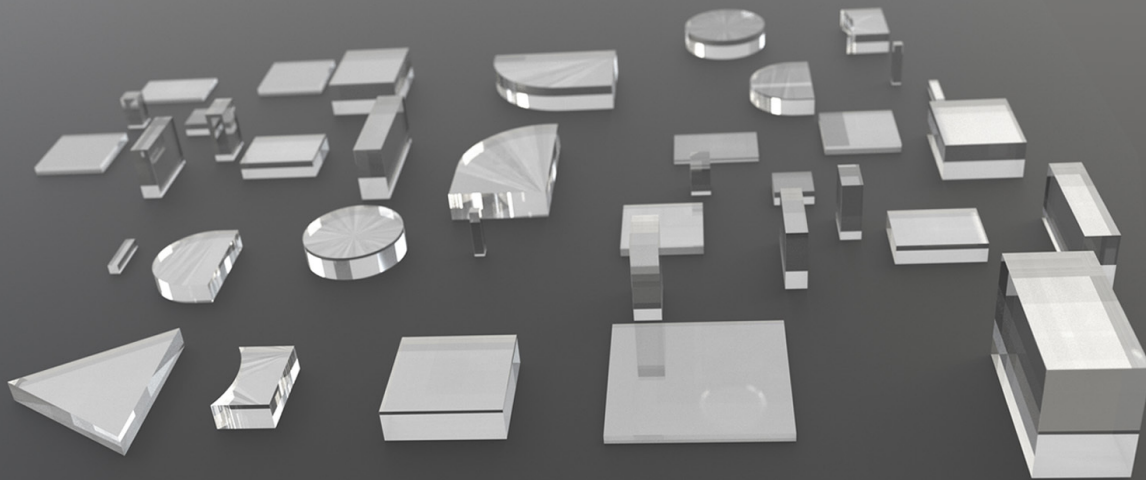
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TOLERANCE +0.1/-0.0  
DIMENSIONS IN MM

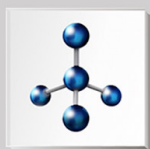


ALL SHAPES AND SIZES ALSO AVAILABLE WITH 3PT (111)  
ORIENTATION ON ANY ONE SURFACE.

CUSTOM MADE TO OTHER SHAPES AND SIZES AVAILABLE  
UPON REQUEST.







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INDUSTRIAL DIAMONDS

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