

[See all 447 Products in Family](#)

TECHSPEC<sup>®</sup> 25.4mm Dia., 4mm Thick, Uncoated  $\lambda/4$  N-BK7 Window



Stock #15-425 20+ In Stock

-

1

+

€81<sup>.50</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | €81,50 each                   |
| Qty 6-25       | €65,50 each                   |
| Qty 26-49      | €62,00 each                   |
| Need More?     | <a href="#">Request Quote</a> |

! Prices shown are exclusive of VAT/local taxes

Product Downloads

217.00

#Sorting:

General

Protective Window

Type:

Physical & Mechanical Properties

22.86

Clear Aperture CA (mm):

|                      |                          |
|----------------------|--------------------------|
| 25.40 +0.0/-0.25     | Diameter (mm):           |
| 4.00 ±0.20           | Thickness (mm):          |
| <1                   | Parallelism (arcmin):    |
| Protective as needed | Bevel:                   |
| 90                   | Clear Aperture (%):      |
| Fine Ground          | Edges:                   |
| 0.21                 | Poisson's Ratio:         |
| 82                   | Young's Modulus (GPa):   |
| 610.00               | Knoop Hardness (kg/mm²): |

Optical Properties

|                       |                                        |
|-----------------------|----------------------------------------|
| Uncoated              | Coating:                               |
| <a href="#">N-BK7</a> | Substrate: □                           |
| 1.516                 | Index of Refraction (n <sub>d</sub> ): |
| 60-40                 | Surface Quality:                       |
| 64.17                 | Abbe Number (v <sub>d</sub> ):         |
| 350 - 2200            | Wavelength Range (nm):                 |
| λ/4                   | Surface Flatness (P-V):                |

Material Properties

|                                           |                                                              |
|-------------------------------------------|--------------------------------------------------------------|
| 2.51                                      | Density (g/cm³):                                             |
| 7.1 (-30 to +70°C)<br>8.3 (+20 to +300°C) | Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C): |

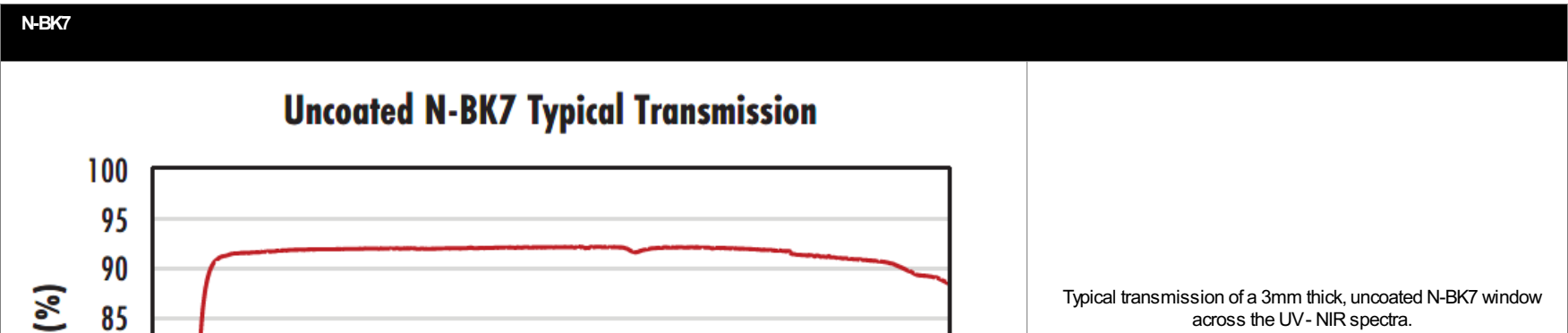
Regulatory Compliance

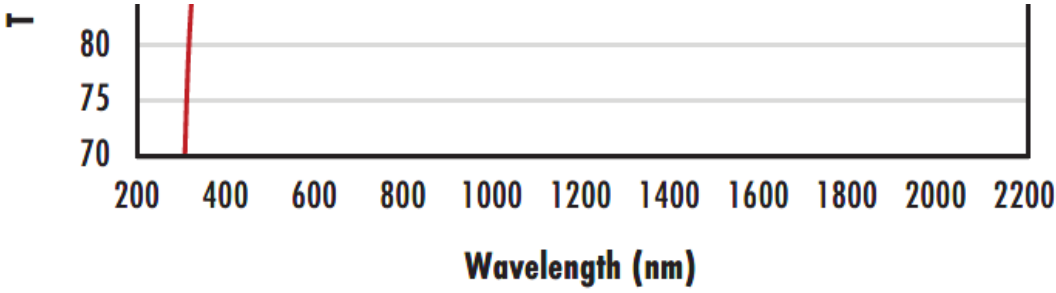
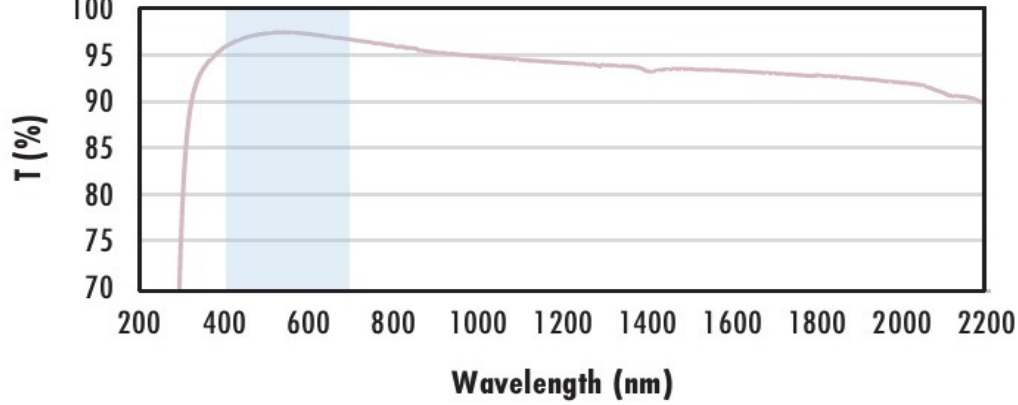
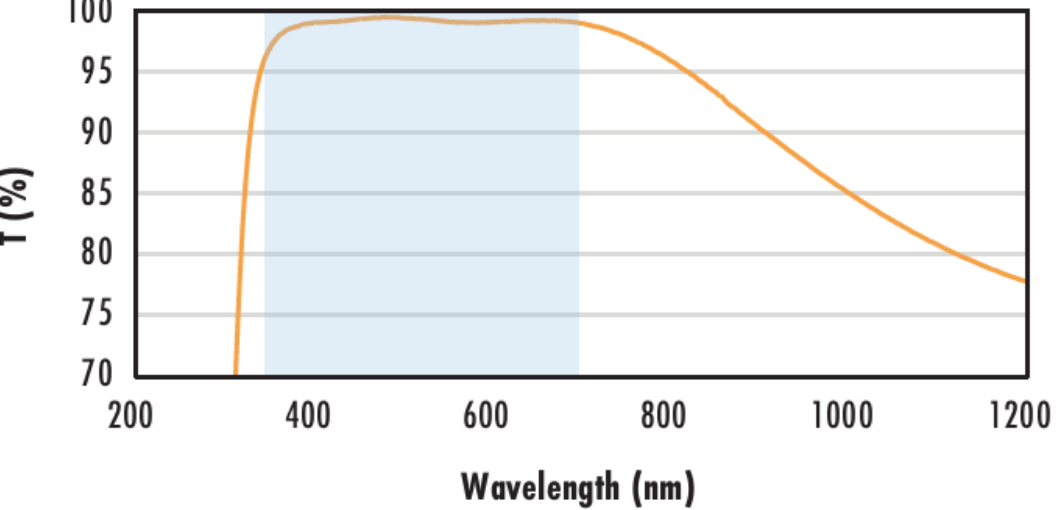
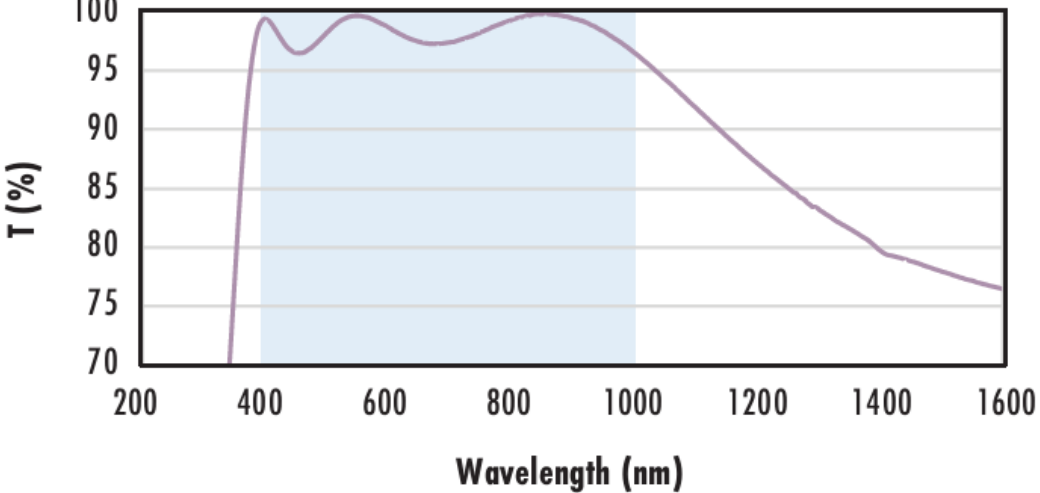
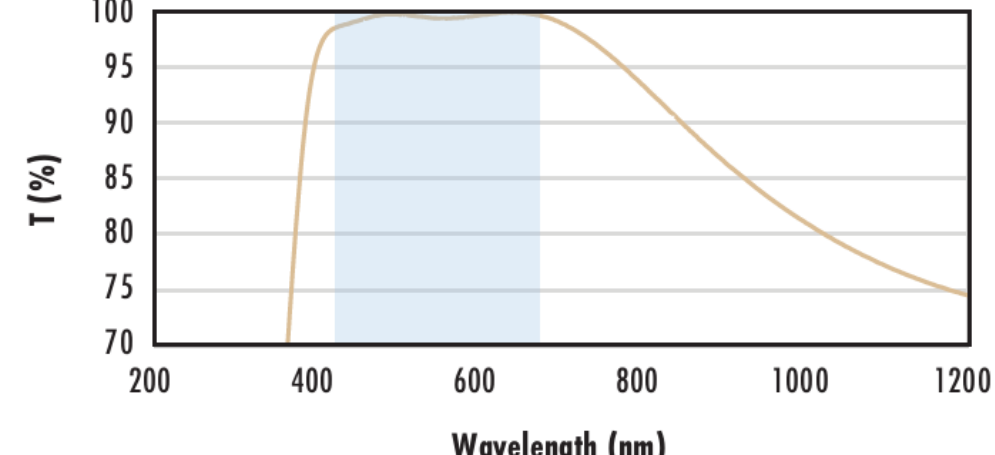
|                           |                             |
|---------------------------|-----------------------------|
| <a href="#">Compliant</a> | Reach 223:                  |
| <a href="#">View</a>      | Certificate of Conformance: |

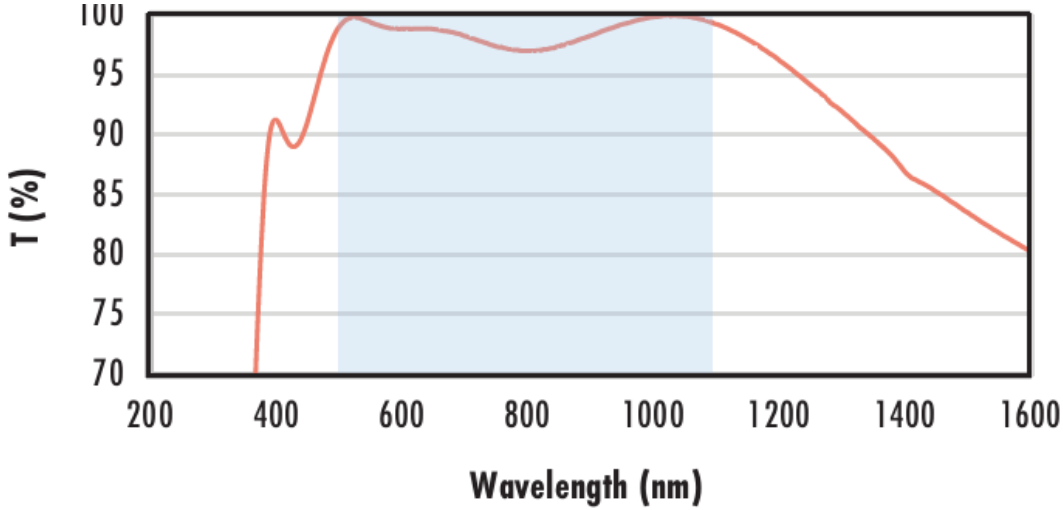
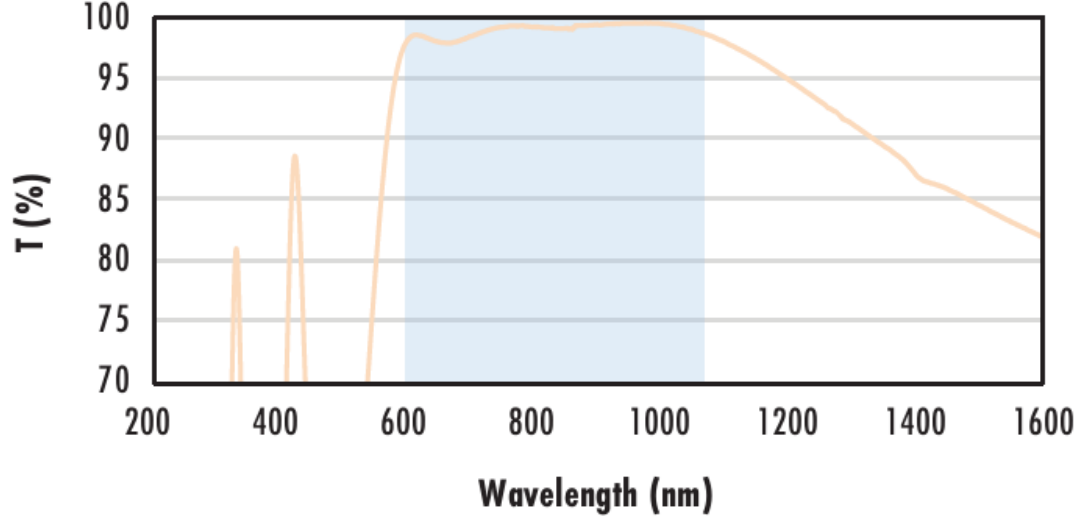
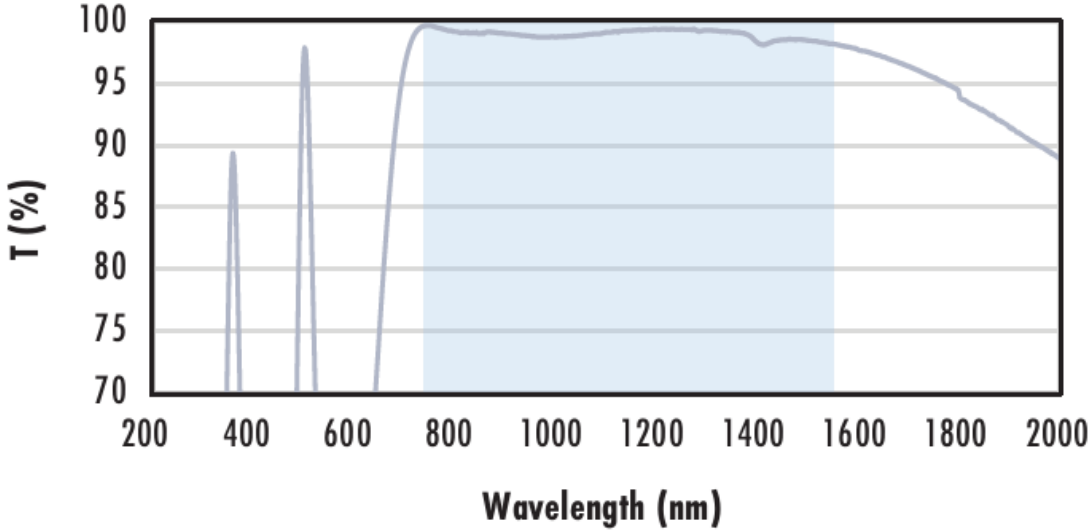
## Product Details

- Circular and Rectangular Sizes from 2mm to 200mm
  - 8 Broadband Anti-Reflection Coating Options Available
  - World's Largest Selection of Standard N-BK7 Windows
  - Also Available with [Ultra-Thin N-BK7 Windows](#)
- TECHSPEC® λ/4 N-BK7 Precision Windows are ideally suited for industrial and low-power laser applications. The high tolerance design yields minimal beam distortion and scatter. Broadband coating options extend the range of these precision windows through the visible and near-infrared spectra. TECHSPEC® λ/4 N-BK7 Precision Windows are offered in circular and rectangular sizes ranging from 2mm to 200mm.
- Note:** New additions to this product family may be specified with a transmitted wavefront distortion (TWD) specification instead of a surface flatness. For more information on the difference between these two specifications, see our application note on [Understanding Optical Windows](#).

## Technical Information



|                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                | <a href="#">Click Here to Download Data</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <p data-bbox="588 415 955 498"><b>N-BK7 with MgF<sub>2</sub> Coating</b><br/><b>Typical Transmission</b></p>  | <p data-bbox="1339 498 1843 549">Typical transmission of a 3mm thick N-BK7 window with MgF<sub>2</sub> (400-700nm) coating at 0° AOI.</p> <p data-bbox="1339 563 1850 614">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1438 629 1747 652"><math>R_{avg} \leq 1.75\% @ 400 - 700\text{nm}</math> (N-BK7)</p> <p data-bbox="1339 667 1839 718">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 733 1709 756"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                 |
| <p data-bbox="588 928 1018 1023"><b>N-BK7 with VIS-EXT Coating</b><br/><b>Typical Transmission</b></p>      | <p data-bbox="1339 1092 1850 1142">Typical transmission of a 3mm thick N-BK7 window with VIS-EXT (350-700nm) coating at 0° AOI.</p> <p data-bbox="1339 1157 1850 1207">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1474 1222 1709 1246"><math>R_{avg} \leq 0.5\% @ 350 - 700\text{nm}</math></p> <p data-bbox="1339 1261 1839 1311">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 1326 1709 1350"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                        |
| <p data-bbox="588 1567 1008 1662"><b>N-BK7 with VIS-NIR Coating</b><br/><b>Typical Transmission</b></p>     | <p data-bbox="1339 1685 1850 1736">Typical transmission of a 3mm thick N-BK7 window with VIS-NIR (400-1000nm) coating at 0° AOI.</p> <p data-bbox="1339 1751 1850 1801">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1495 1816 1688 1840"><math>R_{abs} \leq 0.25\% @ 880\text{nm}</math></p> <p data-bbox="1474 1840 1709 1863"><math>R_{avg} \leq 1.25\% @ 400 - 870\text{nm}</math></p> <p data-bbox="1474 1863 1709 1887"><math>R_{avg} \leq 1.25\% @ 890 - 1000\text{nm}</math></p> <p data-bbox="1339 1914 1839 1964">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 1979 1709 2003"><a href="#">Click Here to Download Data</a></p> |
| <p data-bbox="588 2187 976 2282"><b>N-BK7 with VIS 0° Coating</b><br/><b>Typical Transmission</b></p>       | <p data-bbox="1339 2320 1843 2371">Typical transmission of a 3mm thick N-BK7 window with VIS 0° (425-675nm) coating at 0° AOI.</p> <p data-bbox="1339 2386 1850 2436">The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p data-bbox="1474 2451 1709 2475"><math>R_{avg} \leq 0.4\% @ 425 - 675\text{nm}</math></p> <p data-bbox="1339 2490 1839 2540">Data outside this range is not guaranteed and is for reference only.</p> <p data-bbox="1474 2555 1709 2579"><a href="#">Click Here to Download Data</a></p>                                                                                                                                                                                         |
| <p data-bbox="567 2781 1039 2875"><b>N-BK7 with YAG-BBAR Coating</b><br/><b>Typical Transmission</b></p>                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

|                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                             | <p>Typical transmission of a 3mm thick N-BK7 window with YAG-BBAR (500-1100nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 0.25\%</math> @ 532nm<br/><math>R_{abs} \leq 0.25\%</math> @ 1064nm<br/><math>R_{avg} \leq 1.0\%</math> @ 500 - 1100nm</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>           |
| <p><b>N-BK7 with NIR I Coating</b><br/><b>Typical Transmission</b></p>    | <p>Typical transmission of a 3mm thick N-BK7 window with NIR I (600 - 1050nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{avg} \leq 0.5\%</math> @ 600 - 1050nm</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p>                                                                                                       |
| <p><b>N-BK7 with NIR II Coating</b><br/><b>Typical Transmission</b></p>  | <p>Typical transmission of a 3mm thick N-BK7 window with NIR II (750 - 1550nm) coating at 0° AOI.</p> <p>The blue shaded region indicates the coating design wavelength range, with the following specification:</p> <p><math>R_{abs} \leq 1.5\%</math> @ 750 - 800nm<br/><math>R_{abs} \leq 1.0\%</math> @ 800 - 1550nm<br/><math>R_{avg} \leq 0.7\%</math> @ 750 - 1550nm</p> <p>Data outside this range is not guaranteed and is for reference only.</p> <p><a href="#">Click Here to Download Data</a></p> |

## Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Compatible Mounts