

Cutting



Technox® Zirconia ceramic cutting edges possess steel-like strength and ultra-high hardness and these materials display typical life increases of 10 to 60 times, with our record performance being 1,000 times the life of a conventional steel blade. Following several years of extensive development and product testing, the Technox® range of industrial blades is now available to the converting and cutting industry.

Benefits

- Edge-life increase of up to 1,000 times
- Vastly improved wear performance
- Delivery of the ultimate edge-cut
- Reductions in down-time
- Major reductions in the production of scrap
- Low wear rates
- Extremely sharp cutting edge
- No contamination due to oxidation
- Anti-static
- Flex similar to that of steel blades
- High-temperature capabilities
- Corrosion-resistant
- Chemically inert
- Non-porous
- Non-magnetic
- Low adhesion

The highest-quality manufacturing techniques are used during the production of our blades. Cost benefit analyses comparing Technox® and steel blades, show that Technox® provides the most cost effective cutting solution. Nearly all forms of Technox® cutters and slitters can be supplied to cope with any cutting technique.

Applications

Typical applications include:

- shear cutting (paper, film, metal foil), leather cutting, crush cutting and guillotine cuts
- slitting of flexible webs from ultra-thin to 1 mm thick
- plastic monofilm (clear or white pigment)
- co-extruded, laminated and coated films

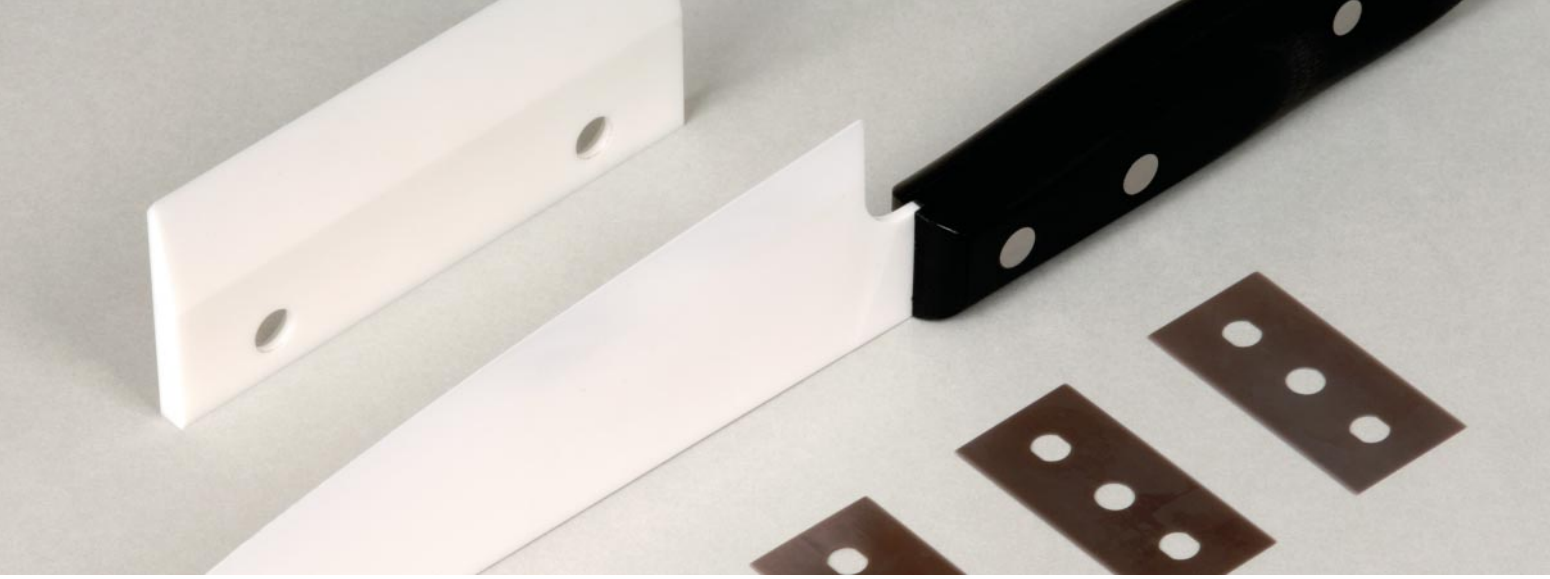
Scalpel blades, hand tools and other wear-resistant parts are also available in Technox® Zirconia Ceramics.

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Cutting continued...



Materials

Two grades of Technox® have been developed to satisfy performance, application and budget requirements:

- 1 **Technox® 2000** - General purpose application grade
- 2 **Technox® 3000** - Suitable for higher-performance applications where the blade is subjected to higher stress

As the UK's only specialist producer of zirconia ceramics, Dynamic-Ceramic offers the complete solution for ceramic blade design and application.

Sizes

Technox® Blades and Cutters are available in a range of sizes. For Paper-Cutting (Lower Blade Slitters) standard sizes are available from 100 to 300 mm O.D. The inner diameter and cutter width can be customised to individual customer requirements.

Use against steel blades

Technox® Zirconia Blades can be used against conventional metallic blades subject to minor adjustments on blade angles and geometry.

Customer Support

Dynamic-Ceramic manufactures custom-made parts to our customers' specifications. For more details of our products and services or to discuss your specific requirements, please contact one of our Sales Engineers.

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