

ANDOR<sup>®</sup> DIAMOND ANDOR<sup>®</sup> DIAMOND ANDOR<sup>®</sup> DIAMOND

# SUPERIOR QUALITY DIAMOND SAW BLADES



# ANDOR<sup>®</sup> DIAMOND

THE INTELLIGENT CHOICE



# ANDOR® DIAMOND

## SUPERIOR QUALITY DIAMOND SAW BLADES

### THE INTELLIGENT CHOICE



Selection of the correct type of diamond saw blade will ensure that the blade suits the application, and will provide the most effective and economical solution for the job.

- The correct saw blade offers:**
- a rapid rate of cut
  - less power required (from the thin kerf width)
  - a relatively constant depth of cut
  - minimal risk of breakage
  - less downtime

The 2 main considerations when choosing a diamond saw blade are **SAW BLADE DESIGN** and **QUALITY**.

#### 1. DIAMOND SAW BLADE DESIGN

##### Segmental Saw Blades

Segmental Saw Blades consist of diamond segments on the periphery of a steel body, and are excellent for the rapid and economical cutting of a wide range of masonry materials, such as bricks and concrete, and the production cutting of products such as granite and marble. They are used where the quality of the cut (such as chipped edges) is of secondary importance.

Grinding Techniques (Pty) Ltd. offers three different qualities of segmental saw blades to satisfy identified customer needs:

- SS UNIVERSAL** A fast cutting, economically priced product, offering good blade life - ideal for small jobs on all but the hardest of materials.
- SS PREMIUM** A fast cutting, slightly more expensive product, offering excellent blade life - ideally suited for contractors or people who do a lot of cutting.
- LGP PREMIUM** A top quality blade with laser welded segments providing superior service when cutting steel reinforced concrete.

##### Continuous Rim Saw Blades

Continuous rim saw blades have diamonds in a matrix around the entire periphery of the blade which results in an uninterrupted cut. They are particularly effective for accurate, smooth cutting with an absolute minimum of chipping of the cut edges. Ideally suited for use on ceramic, hard vitreous tiles, porcelain, glass, stone and precision cutting of small granite and marble jobs.

##### Turbo Saw Blades

Turbo Saw Blades have a continuous rim of diamond in a matrix set in an offset pattern around the blade periphery. This design combines the advantages of both the segmental and continuous rim designs and provides a general purpose product capable of rapid stock removal with reduced risk of edge chipping.

These blades can be used for a wide range of applications, such as cutting marble, granite, concrete, bricks, tiles, roof tiles and other masonry materials.

**HFT-N PREMIUM** Turbo FLAT saw blades with an offset pattern on the cutting periphery helps with swarf removal, to cool the blade and to eliminate loading.

**HWT PREMIUM** Turbo WAVE pattern saw blades have been engineered for extreme performance, durability and cutting speed. The wave pattern core design adds to the structural strength, helps with better heat dissipation, helps remove cutting debris and assist with noise suppression.

#### 2. DIAMOND SAW BLADE QUALITY

##### Diamond Concentration

The concentration of and the distribution of the diamond particles has an effect on the overall cutting performance and the price of the saw blade. Diamond concentrations and grit sizes are selected by Grinding Techniques to suit the various applications.

Scientifically designed diamond matrix constructions, steel centres, and adhesion methods of diamond matrix to steel centres, ensure the quality of the diamond saw blades we supply.

##### FACTORS AFFECTING DIAMOND SAW BLADE LIFE

It is extremely difficult to stipulate diamond saw blade life as this can be affected in any number of ways, by any of the factors listed below. Even when cutting concrete, factors such as the source of the aggregate used (affecting its hardness and abrasive characteristics) and whether the concrete is old cured concrete or new "green" concrete, all play a huge part in the operating life of the diamond saw blade.

The only guarantee that can be offered is that given the right selection of product, the correct machine conditions and the correct operating procedures, diamond saw blades can be extremely cost effective for cutting a wide variety of products.

In addition to the composition of the item being cut, machine conditions and heat generation are the main factors affecting saw blade life.

##### Machine conditions affecting performance:

- The blade must operate at the correct speed, and there must be sufficient power available to keep up the correct speed under load conditions.
- There must be not be any play in the machine bearings.
- Flanges must be clean, of the correct size and correctly aligned to the machine spindle.
- Excessive force must be avoided at all costs.

##### Coolant

Overheating causes the most damage to diamond blades and coolant should be used wherever possible to alleviate this. Diamond saw blades marked "DRY CUTTING" may be used either dry or wet (with coolant), but blades marked "WET CUTTING" may only be used wet.

**Andor Diamond Saw Blades are available in a range of sizes from 115mm up to 350mm. Other sizes and specifications are available on request.**

Andor® Superior Quality Diamond Saw Blades

Another High Quality Technical Abrasive Product from Grinding Techniques (Pty) Ltd.



28 Van Eck Street • Chamdor • Krugersdorp • South Africa  
 PO Box 51 • Krugersdorp 1740 • South Africa  
 Tel +27 11 271 6400 • Fax +27 11 271 6464

E-Mail: [diamondsaw@grindtech.com](mailto:diamondsaw@grindtech.com) • Website: [www.grindtech.com](http://www.grindtech.com)