

## XPD DIAMOND TECHNOLOGY



It is almost impossible to have a perfect solution for diamond saw blades. A blade which can be used in every situation under any condition and which cuts fast, long and with the highest efficiency.

Our Mandrex diamond saw blades have this solution: **In the Mandrex diamond saw blades we have incorporated our high-tech XPD Technology** With this technology we are able to create the perfect grid layout in three dimensional patterns. Each diamond can work optimally and can be kept cool under any conditions.

The performance stays consistent at all times and you will experience that these blades cut faster, strong, more efficient and much longer!



## HOW TO CHOOSE THE CORRECT DIAMOND SAW BLADE

### Before you get started

Decide which is most important to you: the initial price of the blade or the cost per cut. For smaller jobs or occasional use, a low priced blade may be preferable. For larger jobs or regular use, a higher priced blade will actually be less expensive to use because it will deliver the lowest cost per cut. For really big jobs, the lowest possible sawing cost (cost per cm) is usually much more important than the initial price. Mandrex has a grading system to help you identify the different performance levels of blades.

### Correctly identify what you're cutting

Correctly identifying the material you are going to cut is the most important factor in choosing a blade. It directly affects the cutting speed and the life of the blade. You will find diamond blade recommendations charts throughout this catalogue to help you locate the proper blade for your job. Most Mandrex blades cut a RANGE of materials. For maximum performance (cutting speed and life), the material should be matched to the blade as closely as possible. As a general rule, determine the material which will be cut most often, or the material for which top blade performance is most important.

### Choose wet or dry cutting

Choosing wet or dry may be a matter of user preference or job requirement. When using a power hand tool such as a power hand saw, it is not safe to use water because of the electrical power source. For tile and masonry saws, either wet or dry cutting blades can be used. Wet blades **MUST** be used with water. Dry blades may be used **EITHER** dry **OR** wet, as the job or equipment allows.

### The significance of segment height

Total segment heights may be misleading because of non-diamond bearing segment bases necessary for the laser welding or brazing process. Diamond blade segment height by itself is not a true measure of a blade segment height by itself is not a true measure of a blade's value. Many other factors affect a blade's performance and consequent value. Consider the diamond size, concentration and quality, the hardness of the bond, the cutting power (torque) of the saw, and how well the blade specification is matched to the material being cut.

## THE oSA®-TRADEMARK

### **MANDREX DIAMOND SAW BLADES ARE PRODUCED AND CONTROLLED BY SUPPLIERS WHICH ARE MEMBERS OF THE ORGANISATION FOR THE SAFETY OF ABRASIVES (oSA)**

Regrettably, there are no globally binding safety requirements for abrasive products. This is why responsible manufacturers of abrasives from a number of European countries set up the Organisation for the Safety of Abrasives (oSA) in 2000.

Membership includes most of the major abrasives manufacturers worldwide:

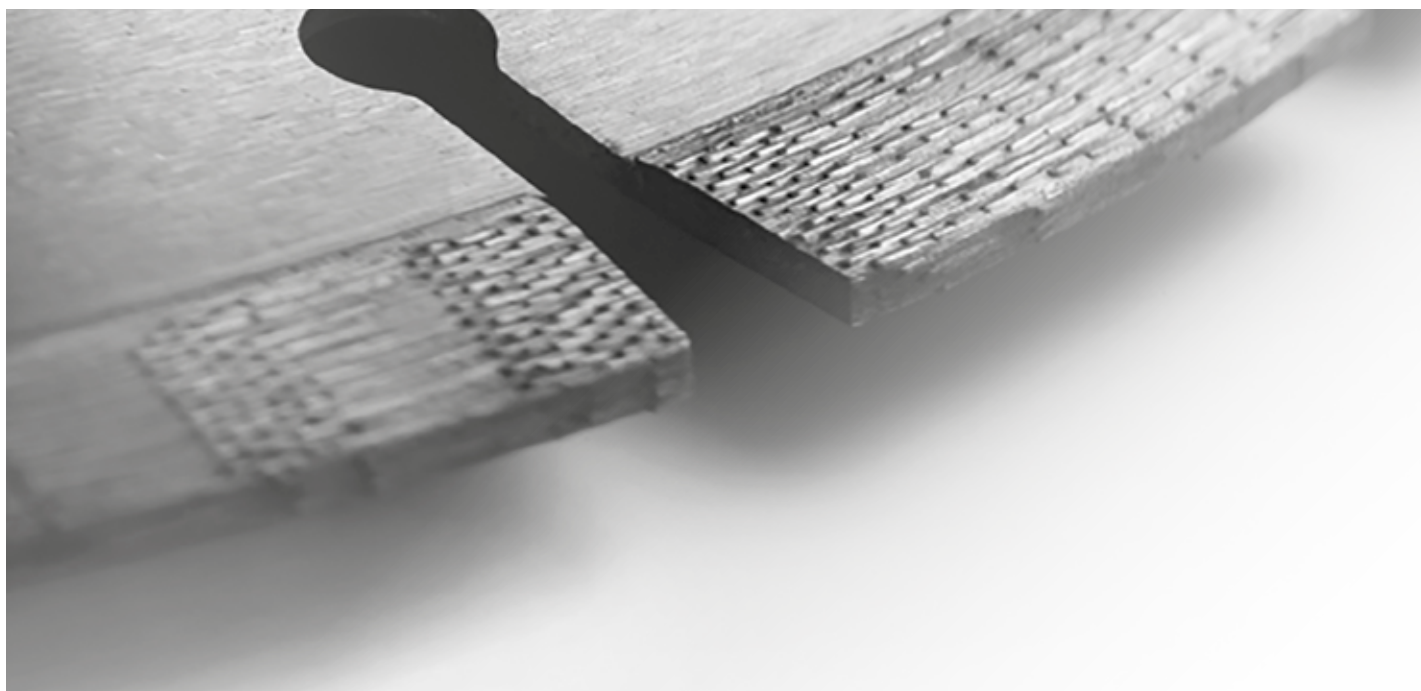
- who operate an ISO certified quality system
- whose products meet or exceed the safety requirements of the EN standards
- whose products have been independently tested for compliance to the EN standards
- whose factories have been independently audited for compliance to the EN standards

These companies are setting a clear signal against inferior and dangerous products which even when used properly, still represent a serious risk. Users of diamond tools and abrasives should be aware that these products rotate at extremely high speeds for efficient operation. Care must therefore be taken in order not to abuse these tools. The risk of product failure is increased with low quality products that are not designed and manufactured to conform to the respective standards and regulations in place. Such non-conforming products may not withstand mechanical loads and heat generated during use.

All member companies of oSA have to implement strict manufacturing, safety and quality standards that comply with the requirements of EN13236 and EN12413, and are regularly audited to ensure conformity. The oSA symbol displayed on an abrasive or diamond product is a further guarantee to the user of product safety and quality.

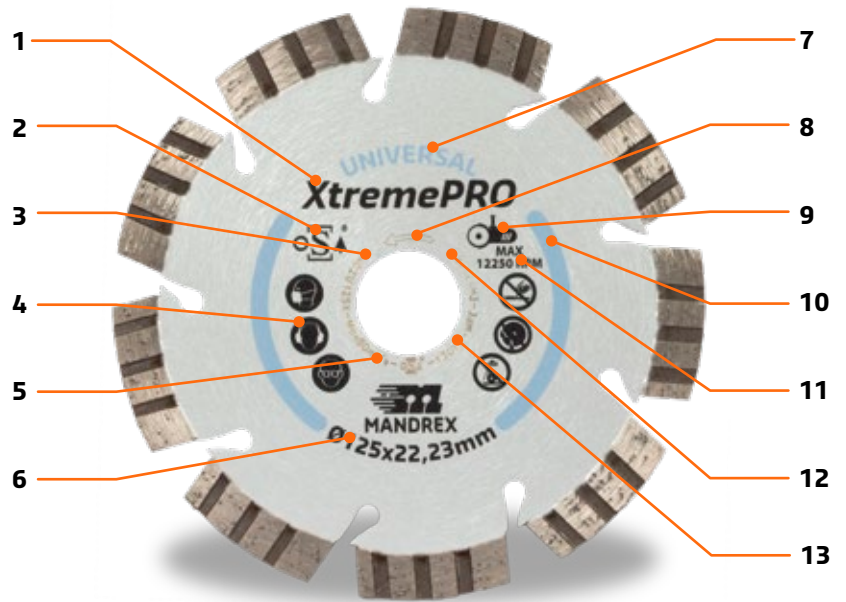
The EN 13236 marking shows that the producer has followed the essential safety requirements of the European safety standard for diamond saws in order to reduce the risks for the end-user. This marking will be used in combination with the oSA logo.

Diamond saw blades without EN 13236 AND "oSA" marking are prohibited and will be removed from the French and most European markets.

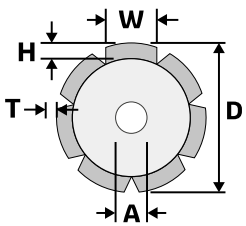


## RECOGNIZE YOUR BLADE

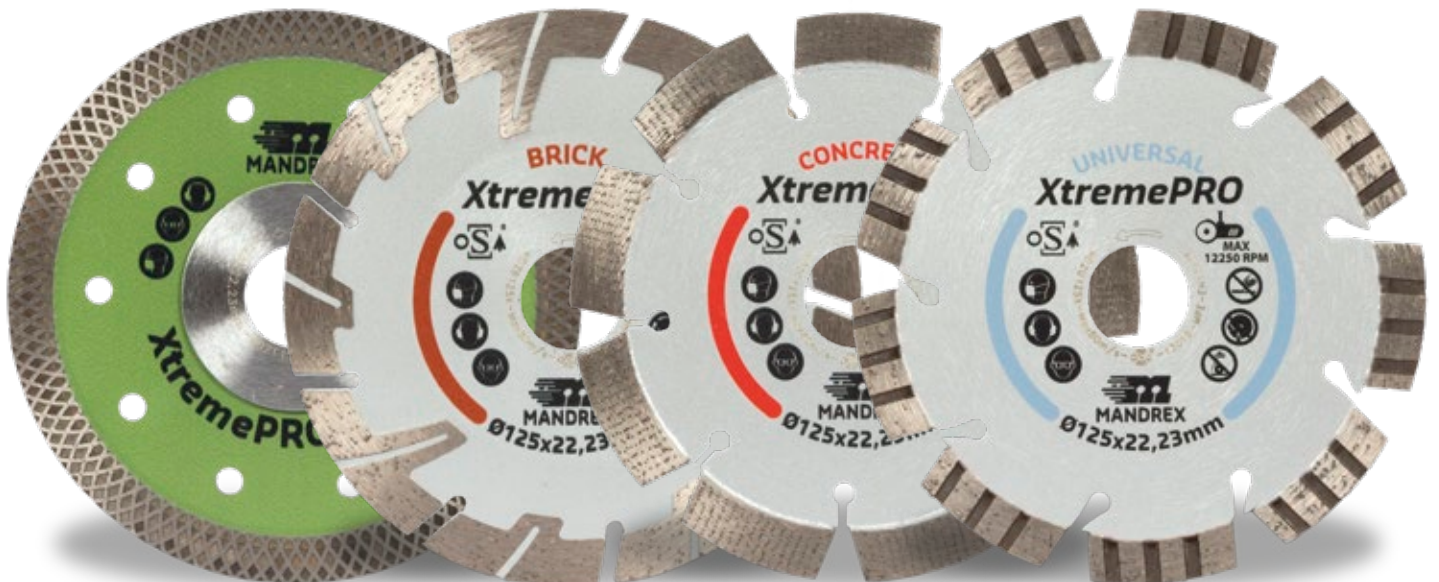
1	Product name
2	oSA - safety recognition
3	Part Number
4	Restriction of use / Safety pictograms (PPE)
5	Maximum allowed operational rotation speed
6	Blade diameter and mounting hole
7	Intended use
8	Rotation of the blade (direction)
9	Suitable for machine ( e.g. grinder )
10	Colour code
11	Maximum allowed operational rotation speed
12	Conform EN 13236
13	Internal traceability code



### Dimensions (mm)


















D	Blade diameter
A	Arbor hole
W	Segment length
H	Segment height
T	Segment thickness



## DIAMOND SAW BLADE SELECTOR

Select a material and you will see which diamond saw blade is most suitable.

Quality Rating	Type		Quality	Speed	Lifetime
	<b>XtremePro</b>	The best and most extreme saw blade in our range. All benefits which are needed to cut professional with extreme lifetime, speed and result.			
	<b>Profi</b>	Professionals need to have the best performance, speed and cost/cut. That's what Profi blades are used for: Fast cutting and proper lifetime.			
	<b>Standard</b>	The most suitable quality for users who want a good result.			

	 XtremePro				 Profi		 Standard
	Bricks	Tiles	Concrete	Universal	Tiles	Universal	Universal
Bricks	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Pavement bricks/ blocks	<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>
Clay Bricks / Poroton	<input type="checkbox"/>						
Cement	<input type="checkbox"/>						
Mortar	<input type="checkbox"/>						
Roof tiles	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Stone		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Natural stone		<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
Floor tiles		<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
Wall tiles		<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
Tiles		<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
Marble		<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
Porcelain		<input type="checkbox"/>			<input type="checkbox"/>		
Concrete			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Green concrete	<input type="checkbox"/>		<input type="checkbox"/>				
Reinforced concrete			<input type="checkbox"/>				
Concrete pipe			<input type="checkbox"/>				
Limestone / Ytong	<input type="checkbox"/>		<input type="checkbox"/>				
Sandstone	<input type="checkbox"/>		<input type="checkbox"/>				
Asphalt	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Cast iron				<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Steel				<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>