

# Professional Prestressed Concrete Blades



**Your Partner in Building  
A Sustainable Infrastructure**







## Professional Prestressed Concrete Blades

- **Over 45 years of experience** in the development and production of professional diamond tools.
- **Knowledge and skill** in all types of hollow core saw machines worldwide.
- **Solutions and optimization** according to customer needs.
- **100% quality assurance (QA).**

DIAMETER (mm)	STANDARD DIMENSIONS			IMPORTANT ORDER INFO
	L (mm)	T (mm)	H (mm)	
600	40	6.0	12	Bore hole diameter - BH
650	40	6.0	12	
700	40	7.0	12	
750	40	7.0	12	Extra holes design drawn according to the cutting machine type
800	40	7.0	12/15	
850	40	7.0	12/15	
900	40	8.0	12/15	Steel core types: Standard, Silent DTS - Laser cuts, Silent DTE - Laser cuts with epoxy
1000	40	8.0	12/15	
1100	40/24	8.0	12/15/20	
1200	40	9.0	12/15	Additional diameters on request
1300	40	9.0	12/15	
1350	40	9.0	12/15	

Curing time and conditions

Rienforcement

Aggregate type

KEY FACTOR  
IN HOLLOW  
CORE SLAB  
CUTTING

Speed

Performance

Cost effectiveness

## Bonding system:

**Toolgal** possesses various types of bonding systems according to the customer's working conditions and the concrete aggregates.

## Innovation:

**Toolgal GE LINE** – The company has launched an innovative bonding system

The new technology permits higher output (speed, life performance) and is especially designed as an environment friendly product (no heavy metals).

## Segment shapes and structure

In order to maximize the tool efficiency, our company combines the bonding system with the right shape and inner structure of the segment

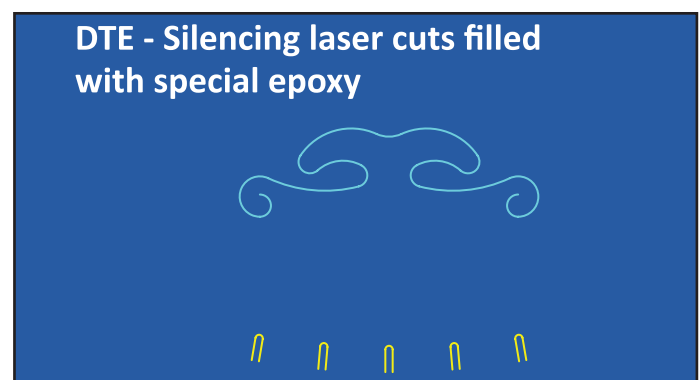
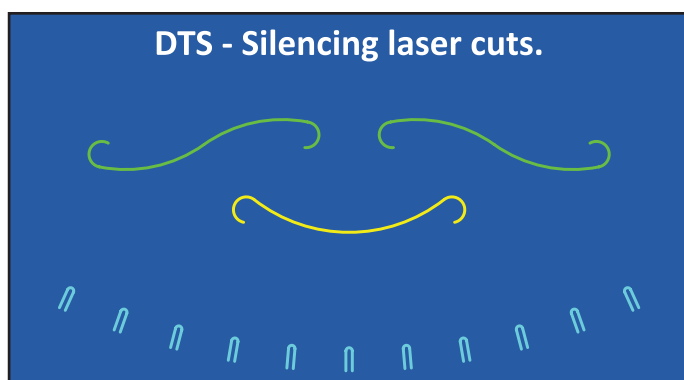
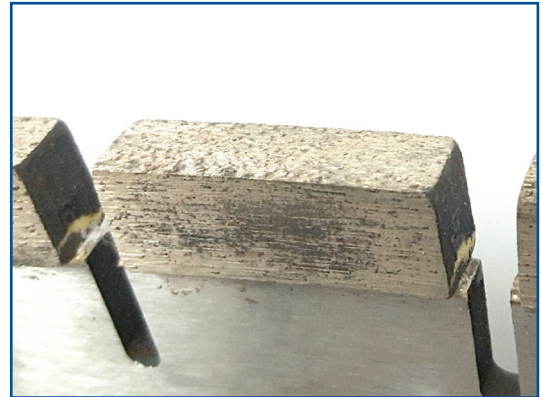
## STEEL CORE TYPES

There are four steel core types.

The main difference between them is the noise level when in use.

- Normal Core: Full body steel - the most economical, most stable during cut - 102-105 dBA
- DTS steel core: Same as normal core, but has special shaped laser cuts for noise reduction
- Around 15-20% more expensive, moderate noise damping – 100-102 dBA
- DTE steel core: Similar to DTS but the laser cuts are filled with special epoxy adhesive substance which would reduce noise dramatically. Significantly more expensive – 97-99 dBA
- LN (Sandwich) steel core: This steel core is the most silent solution. The core consists of copper foil that is laid between two steel layers. This would be the optimal noise damping solution, but is the most expensive one (approximately 50% more) – 94-97 dBA

- Noise levels are given for 1100mm saw blade on ELEMATIC saw during cross cut

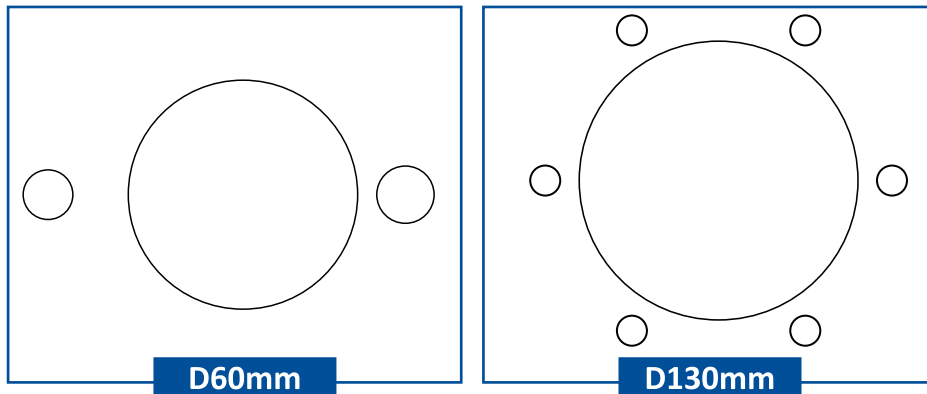




## Standard bore holes:

**Toolgal** stocks steel cores, stock that fits most of the popular bore-hole sizes 60mm +2 extra holes

- 130mm + 6 extra holes
- 100mm
- Other bore holes in request

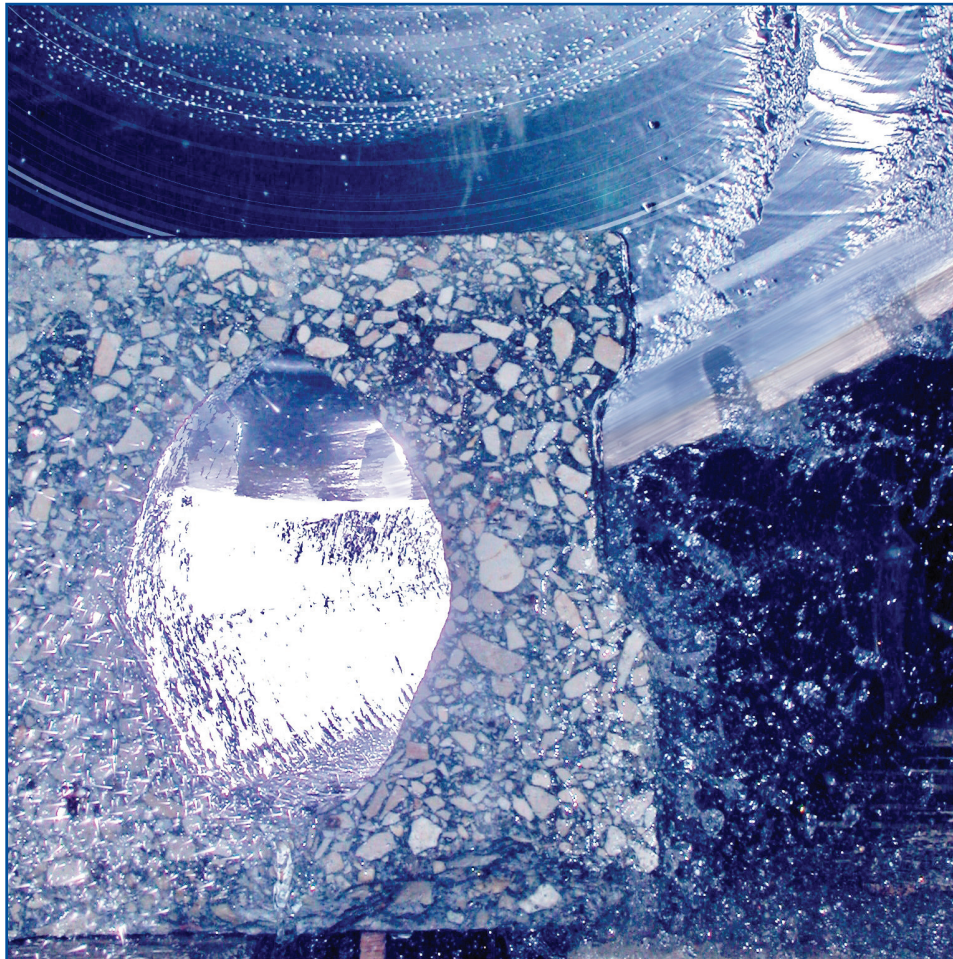


## Cutting speed and life performance:

Cutting speed is mainly affected by slab thickness, curing stage, type of aggregates and cable reinforcement content.

The optimal speed (limestone aggregates) 200mm slab is 1.8- 2 m/Min and can drop to 0.5-0.8 m/Min in 500mm slabs.

The blade life is mainly affected by aggregate type, curing stage and machine maintenance condition.



Shulamit 17032018



**Toolgal Industrial Diamonds Ltd.** Degania Alef 1512000 Israel  
Tel: +972 4 6608445/6 Fax: +972 4 6752620  
E-mail: [Info@toolgal.com](mailto:Info@toolgal.com) | [www.toolgal.com](http://www.toolgal.com)