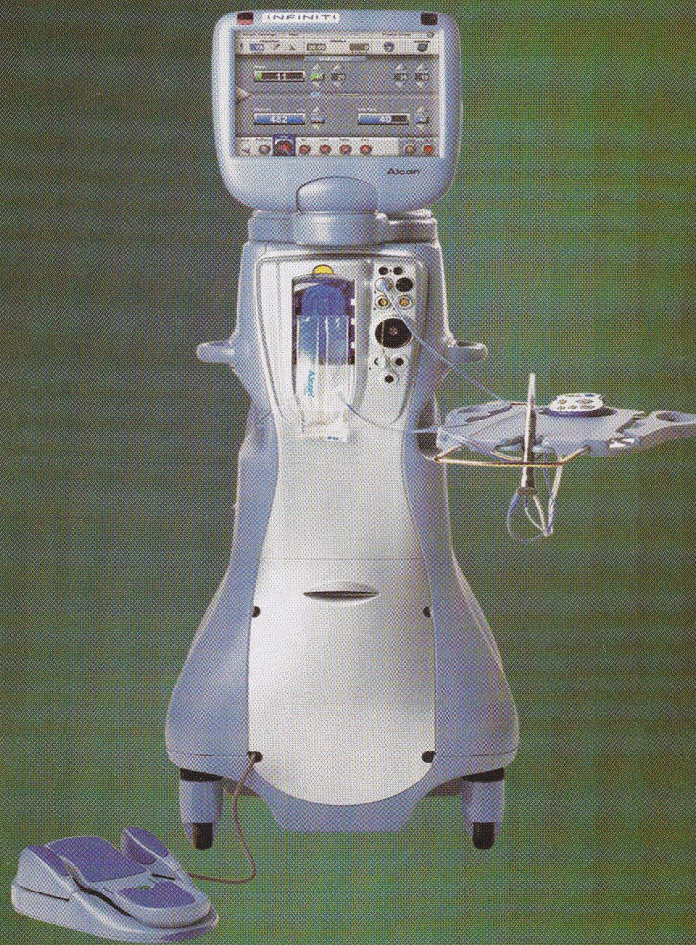


TECHNOLOGY

CATARACT SURGERY REDEFINED WITH
OZil[™] TORSIONAL ULTRASOUND:
AN EDGE OVER TRADITIONAL PHACO



INFINITI[™]
VISION SYSTEM

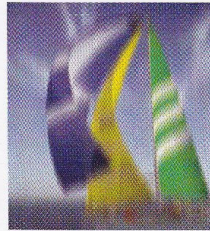
Welcome to the world of true custom

TECHNOLOGY

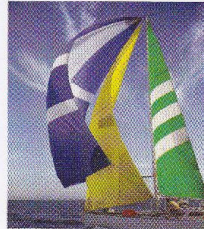
A cataract is a clouding of the normally clear lens in the eye. It is possible to have a cataract in either or both eyes. Cataracts are very common, affecting most Indians over the age of 60, although they may occur as early as age 40. If left untreated, they can cause blindness.

A VISUAL DEPICTION OF VISION WITH CATARACT AND NORMAL EYE

Before cataract surgery

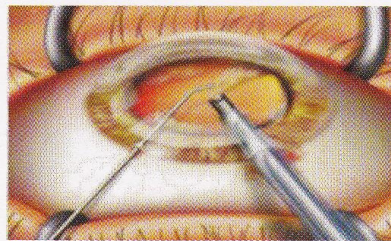


After cataract surgery



TREATMENT

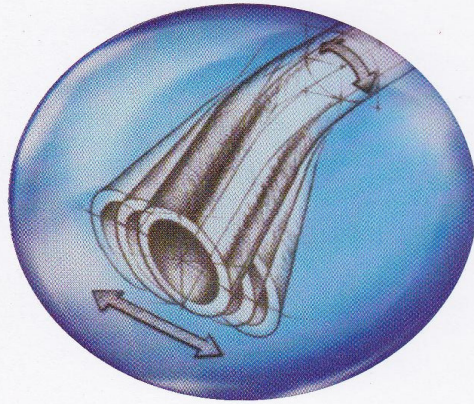
Cataracts are detected through a comprehensive eye examination. If diagnosed early, new prescription eyeglasses and other vision aids may be sufficient. However, a doctor may recommend surgery when a cataract reduces your vision to the point that you can't do the things you like to do, such as reading or driving. This involves replacing the cloudy lens with an artificial one, a common procedure which is effective in most of the cases.



KNOW MORE ABOUT PHACO SURGERY

Phacoemulsification is the newest advancement in cataract surgery and it is performed with a small incision made on the side of the cornea, a probe is inserted into the eye and vibrates, breaking the cataract into tiny particles. These particles are then removed via suction. This type of removal requires smaller incisions than traditional cataract surgery and can be completed in less than 15 minutes.

OZil™ TORSIONAL HANDPIECE



The *OZil™* Torsional Handpiece is a totally new approach to ultrasound lens removal. Torsional phaco utilizes ultrasonic oscillatory movement that can benefit lens removal for all densities of lenses. The side-to-side movement of torsional phaco provides decreased repulsion while improving the thermal safety profile over traditional ultrasound. There are multiple surgical benefits to decreased repulsion: increased followability, reduced potential for turbulence, and increased cutting efficiency.

IMPROVED FOLLOWABILITY AND EFFICIENCY

Lack of repulsion facilitates occlusion and effective delivery of energy into nuclear fragments.

Improved followability and decreased dispersion of lens material.

Potential to reduce fluid usage and increase your surgical efficiency.

Increased ability to utilize lower fluidics without sacrificing surgical efficiency.

REDUCED REPULSION

Ultrasonic oscillations cut lens material using a shearing effect.

Eliminates repulsions of traditional ultrasound induced by the jackhammer effect.

Side-to-side movement delivers increased cutting efficiency by emulsifying lens material with both directions of movement.

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ART

IMPROVED THERMAL SAFETY PROFILE

Less frictional movements within the incision and lower frequency (32 kHz) reduce the risk for thermal injury by 2/3* (*based on comparison to traditional ultrasound with same modulation).

Allows the use of sealed incisions and continuous torsional modes increasing surgical efficiency.

FACILITATES THE EMERGING TREND OF MICRO-COAXIAL PHACO

Operating Frequency for torsional ultrasound 32 kHz as compared to 40 kHz with traditional ultrasound.

The unique Kelman[®] Tip design minimizes the stress and friction at the incision site providing better thermal safety to the wound and amplifies the cutting effect(Arc) at the distal end.

Dr. Mackool Thermal Imaging Comparison



7.5 sec fully occluded, no flow situation at 100% torsional amplitude and 100% ultrasound power

Small and Lightweight Handpiece.

The titanium handpiece weighs only 60 grams. Allows use of either ultrasonic oscillations, traditional ultrasound, or a combination of the two ultrasound modalities customized to surgical needs and lens densities.

For more information ask your Ophthalmologist

