

H E A L T H

Technologies for Better Quality of Life

SURGICAL CARBON DI-OXIDE LASER

Lasers have distinct advantages over conventional surgery. Their use reduces operative complications and minimizes trauma of patient, if not eliminate them. Laser cuts are precise and are controllable with no damage to surrounding tissue. Post-operative bleeding, oedema and pain are reduced which in turn reduces hospitalization time. The noncontact nature, further, minimizes chances of infection. Several complicated operation procedures have been changed to outpatient clinical procedures which translates to more number of patient being able to receive treatment, a great boon for India where in the number of hospital beds to patients is dismally low.



Surgical Carbon di-oxide laser, Model C-40, developed at Centre for Advanced Technology (CAT), Indore, can be used for a range of surgical modalities, such as in, ENT, Gynaecology, General Surgery, Dermatology, Plastic Surgery etc. Fourteen laser systems have been supplied to various hospitals across the country.

The Model C-40 Surgical Carbon di-oxide laser system is a stand alone, self contained system having a seven joint articulated arm beam delivery system with a reach of 1.5 meters. Laser can be operated in continuous mode with power variable from few 10's of milliwatts to full power, chopped mode with variable exposure time from 0.1 sec. to 1.0 sec. and in super pulse mode with average power of up to 15 watts. With these three

modes of beam delivery, a whole range of surgical modalities are addressed to by Model C-40.

A memorandum of understanding (MoU) has been signed with M/s BEL, Pune for the transfer of technology for the surgical carbon di-oxide laser system.

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