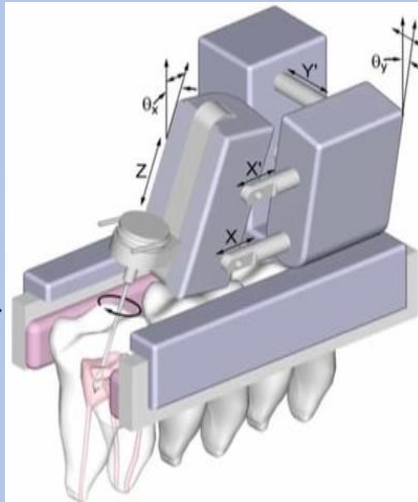
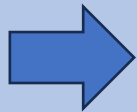


ROBOTIC DENTISTRY : EXPLORING THE UNTRAVELLED AREA

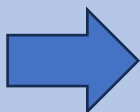
MICRO-ROBOTS

Dimension 20 x 20 x 28mm

Computer aided treating system and miniature robot which perform endodontic treatment automatically.



This machine is mounted within patient's mouth.



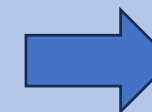
NANOBOTS

Helical shaped devices.
Dimension < 300nm

Nanobots made up of SILICON DIOXIDE and IRON embedded into silica body to provide magnetic property to nanobot.



Nanobots are suspended in DEIONIZED WATER & injected into cleared canal of tooth.



IRON has an intrinsic magnetic moment which follows applied rotating field from triaxial coil to move inside dentinal tubules upto depth of 2000nm. Heat generated at surface due to magnetic field kills the bacteria.

