**FEATURES**

- Fast Speed and High Dexterity
  Operating at a maximum speed of 900 mm/sec (35 inches/sec) with its 5 degrees of freedom, the robot arm exhibits swift motion with great flexibility.

- Durability and Easy Maintenance
  For durability and easy maintenance, the robot arm is aluminium cast and the integral components used are stringently selected for heavy duty operation.

- User Friendly
  SIR-3 is user-friendly, even a novice can program the robot with ease using the teach pendant. It has 42 keys showing all the syntax of the robot programming language and multi-coloured to distinguish the various functions.

- Expandability and Enhancement
  The robot controller adopts a modular design, providing for a wide range of interfacing to vision system, tactile sensing system, voice control system, process control I/Os and additional servo drives.

- Smooth and Precise Movement
  SIR-3 robot arm exhibits smooth and precise movement. This is achieved using dedicated microprocessor and high resolution encoder for each axis.

- Versatile Permanent Program Storage
  In SIR-3, permanent program storage is adequately provided with 32KB RAM, it can store up to a maximum of 99 programs. To achieve high reliability in data storage, a lithium battery is used as back-up source. Alternative storage devices are provided via the RS232 interface and the cassette interface, which allow program storage in computer disk and audio cassette respectively.

- A Wide Range of Accessories/ Peripherals and Versatile I/Os
  A wide range of accessories/peripherals are available to work directly with SIR-3 — no messy interfacing problems. Versatile I/Os are provided for interfacing with other robots and peripherals in a FMS environment.

- Self-Diagnostic and Safety Features
  SIR-3 comes with self-diagnostic capability. For greater safeguard, various safety features such as protection against overload, software and hardware limit etc are also provided in the robot.