

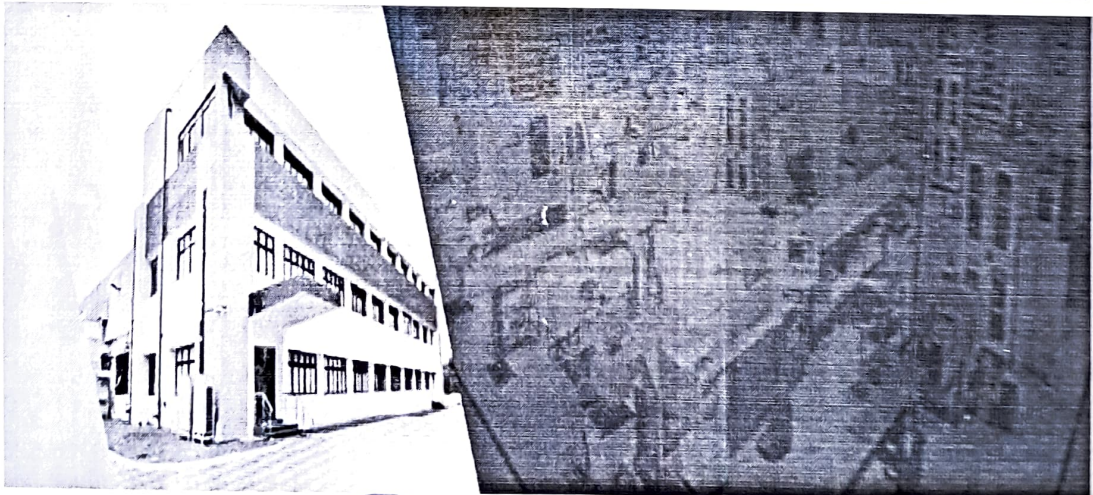
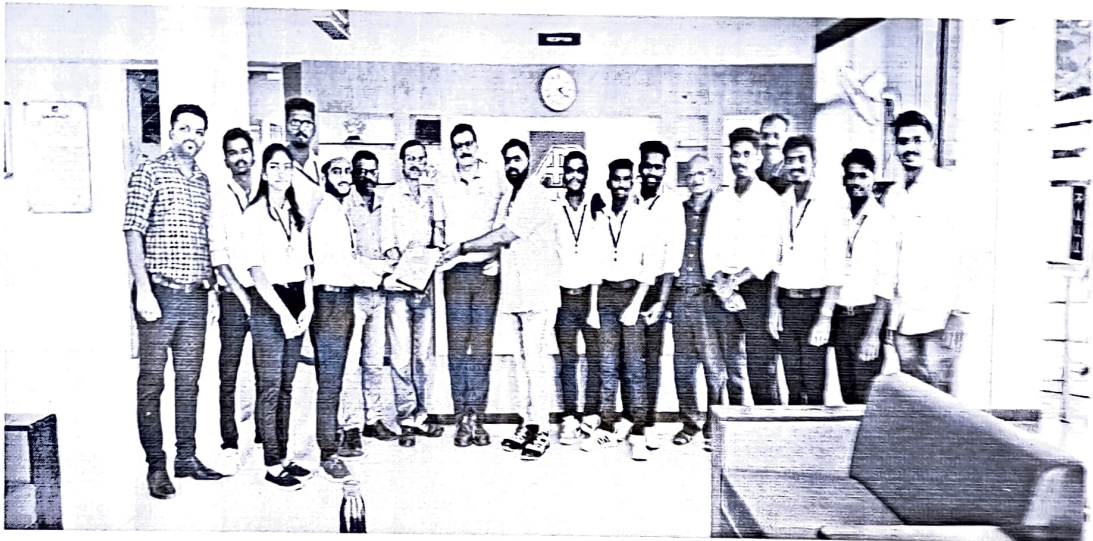


PSPS'S
RAJENDRA MANE COLLEGE OF ENGINEERING
AND TECHNOLOGY, AMBAV

INDUSTRIAL VISIT REPORT

A complete report on industrial visit organized by Rajendra Mane Collage of Engineering & Technology, for the students of Mechanical & Automobile Engineering [4th SEM] in order to get the practical knowledge about "advanced technology used in CNC Machines" carried out by "Adler Healthcare Pvt. Ltd. Sadwali".

- Adler Healthcare Pvt. Ltd. Sadwali



Sainhad

Mr. Dongare V.K.



Achyt
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1. DETAILS OF JOURNEY:

Rajendra Mane College of Engineering and Technology had organized an industrial visit on 23 March, 2024 to "Adler Healthcare Pvt. Ltd. Sadwali located in Sadwali industrial Area (MIDC) for the students of Mechanical and Automobile Engineering.

The visit was organized by Mechanical engineering branch Prof. Dongare V. K. & Prof. R. D. Wategaonkar was the Faculty Co-ordinators for the industrial visit.

We started travelling from the college campus at 09:00 am via our bus. Total **11 no of students** along with **4 coordinators faculty** were there in the journey.

2. COMPANY PROFILE:

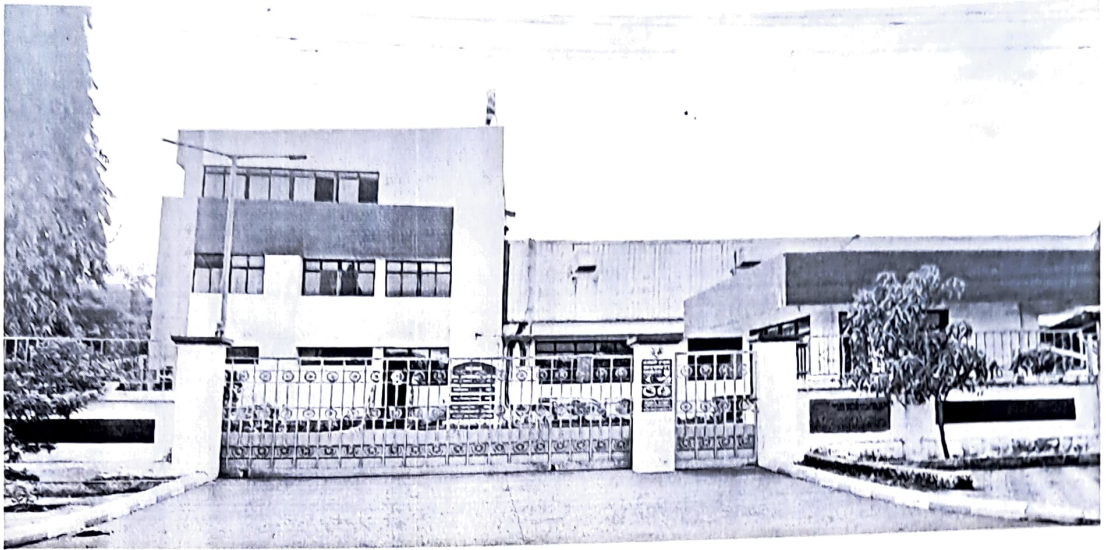
Adler Healthcare Pvt. Ltd. Sadwali



Adler Healthcare Pvt. Ltd.
अडलर हेल्थकेअर प्रा. लि.

Established in the year 1973, Adler Healthcare Pvt. Ltd. (formerly known as Adler Mediequip Pvt. Ltd.) has emerged as India's first ever and most trusted name in the field of hi-tech & organized contract manufacturing of medical devices including orthopaedic implants and instrumentation for traumatology, spine and reconstructive surgery. The manufacturing unit, spread over 8000 SQM of built up area is equipped with state-of-the-art technology for the manufacturing of various types of medical devices. Adler Healthcare is an ISO 13485 certified company and is a licensed manufacturer under IMDR 2017 for class C & class D devices and has been supplying to leading multinational companies. Adler Healthcare is on a mission to continually improve its capabilities & provide world-

class products that meet the highest possible standards of safety and suit the needs of the advancements in the field of orthopaedic implants at competent and affordable prices.



3. GROUP OBSERVATION:

- This Industrial visit is very helpful in our future practical Life & bring a positive change in our thinking & practical behavior regarding Education & specializing our technical skills.
- Got practical knowledge about the advancement in technology of machines.
- Use of programming in field of Mechanical engineering.
- Precise cutting and surface finishing of the jobs.
- Information on different parts & use of CNC machines with multiple cutting tools.
- Different types of machines available tools And Machines For Various Operations.
- Management of manpower and machines.
- Different courses offered by training section

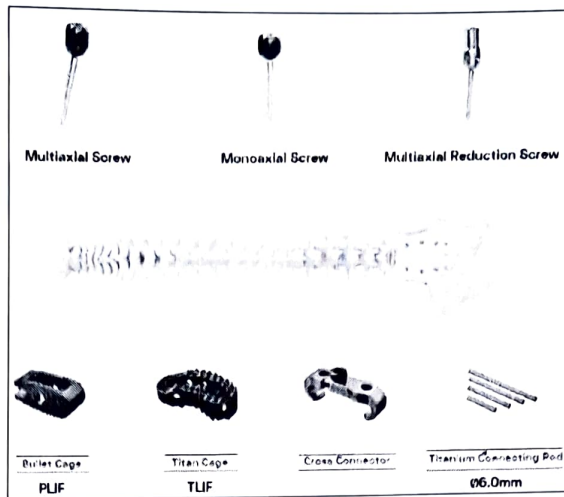
Product Manufacture: 34e



(Hip Stem)



Limb Salvage

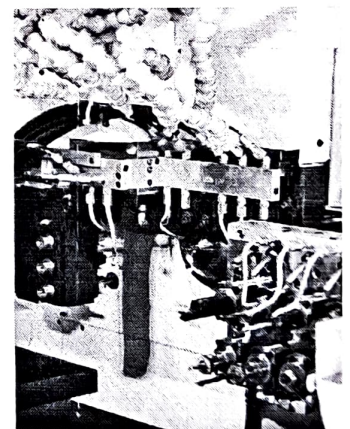
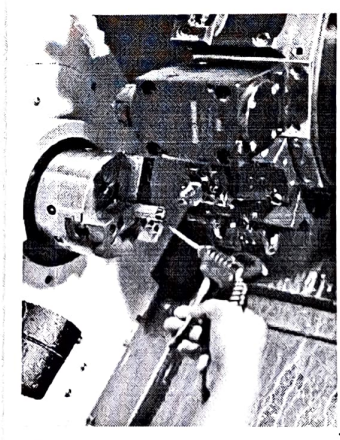
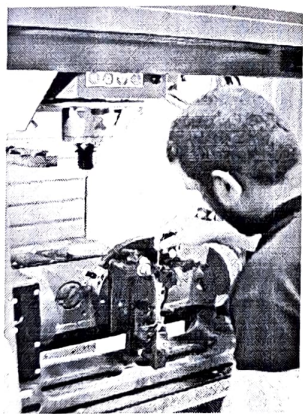


MANUFACTURING TECHNOLOGIES:

Our state of the art, environmentally controlled manufacturing facility encompasses various advance technologies like CNC Turning 2 Axis to 12 Axis – Fixed Head & Sliding Head (Swiss Turn), Vertical machining centres 3 Axis to 5 (4+1 & 5 continuous axis) with Renishaw Probing systems, Swiss SPMs for Thread Milling & Whirling, Controlled environment plastic machining, CNC Deep Hole drilling, Wire EDM, Laser Welding, Laser Marking etc.

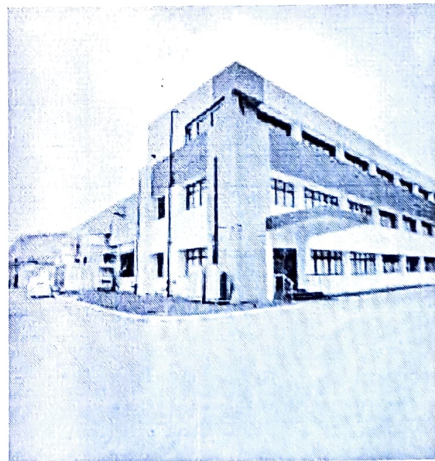
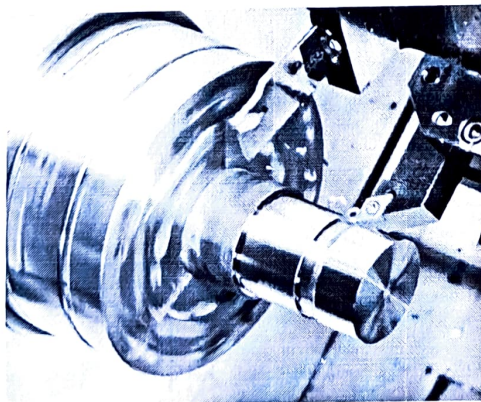
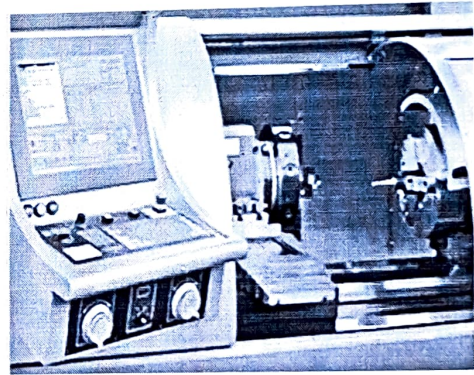
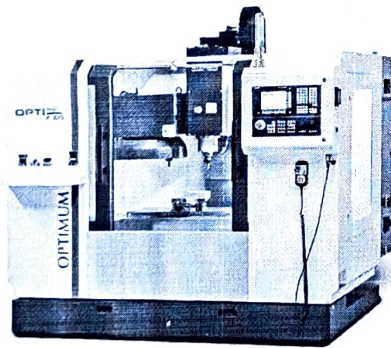
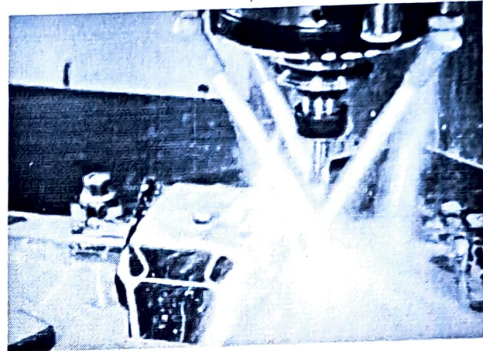
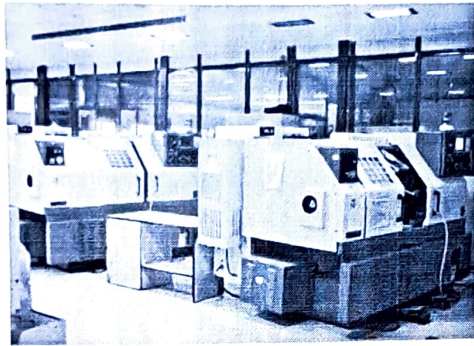
A unique in-house forging facility supported by an induction billet heater & a press shop enables a wide range of forging and sheet metal work.

Post machining, grinding and finishing operations, including skilled hand- polishing as well as grit-blasting, deburring, ultrasonic cleaning, electropolishing, titanium anodizing & solvent cleaning facilitates offer a desired finish as well as clean and hygienic products to the customers.



QUALITY MANAGEMENT:

All manufacturing steps are subject to strict quality control. Quality control processes at receiving, in-process & final inspection are established to achieve a defect free production. Process optimization is an essential part of our goal. Matured Quality Management systems are in place in accordance with ISO 13485: 2016. All special processes are validated according to the ISO and CDSCO requirements. Training & awareness lead to manufacturing of the highest quality. It is therefore one of our Key Performance Indicators. Well-selected business partners and well-trained employees in a combination with modern technologies ensure that quality is achieved and maintained at the highest possible level.

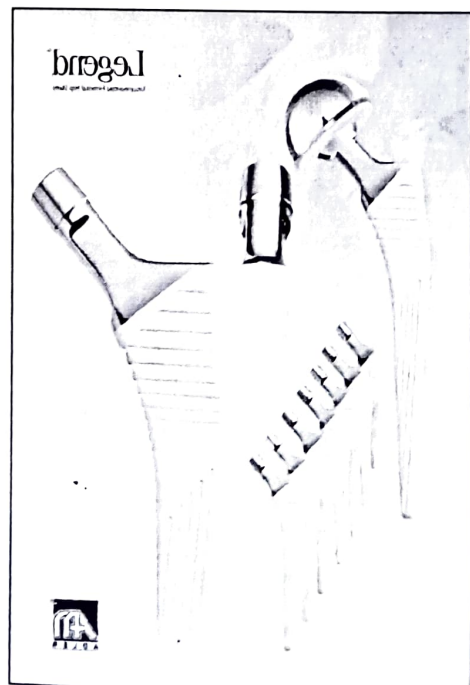
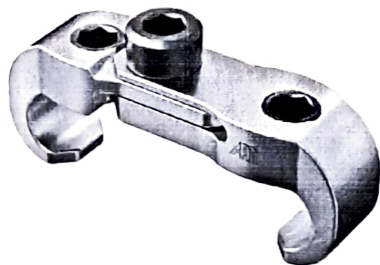
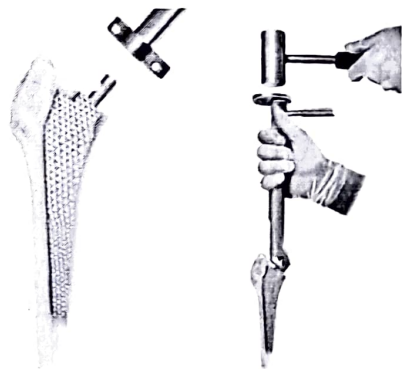
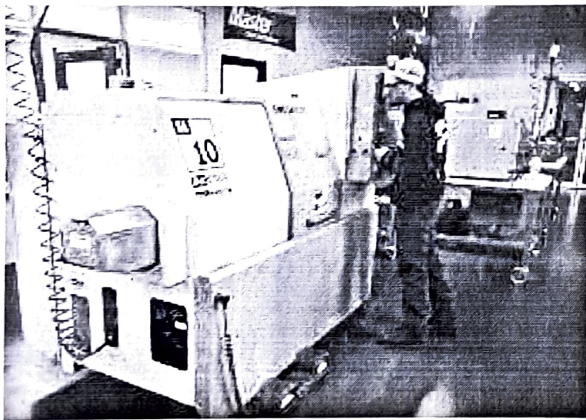


MATERIALS AND PROCESSES:

As experts in the field of precision machining for medical devices, Adler has an extensive equipment list for your machining needs. The manufacturing unit at Adler has over 30 advanced CNC machines and around 60 conventional machines, including an inhouse forging facility. Precision machining with very close tolerances as well as critical geometrical tolerances is possible due to multi-axis machines along with world-class equipment of reputed brands that are installed in the facility. This coupled with skilled staff with relevant experience in machining and assembly of medical devices. The facility can handle most of the medical grade materials including Titanium, Stainless Steel, Cobalt Chrome, Polypropylene, PMMA, PPSU, PEEK, and UHMWPE.

DESIGN AND DEVELOPMENT:

We support you with the latest CAD software in the designing, development and optimization of your product. We accompany you right from the conceptual stage of your product with our know-how and technical support through to the final product. In the design phase, we offer rapid prototyping to verify your product prior to series production.



We are thankful to Dr. Raut A.S. (HOD, Mech) & Dr. Bhagwat M. M. (Principal, RM CET) for permitting us for conducting this visit. We are thankful for all company officials for organizing such an Informative event for us in crucial for development of our practical skills regarding CNC Machining.

We hope to get more chances further to have such an informative & wonderful experiences of visiting different industries.

