



WELCOME TO
AKAR AUTO INDUSTRIES LTD.





GROUP COMPANIES



**R L STEEL & ENERGY
LIMITED
(FLAG SHIP COMPANY)**

**Akar Auto Industries Ltd
(UNIT I)
Hand Tools Division**

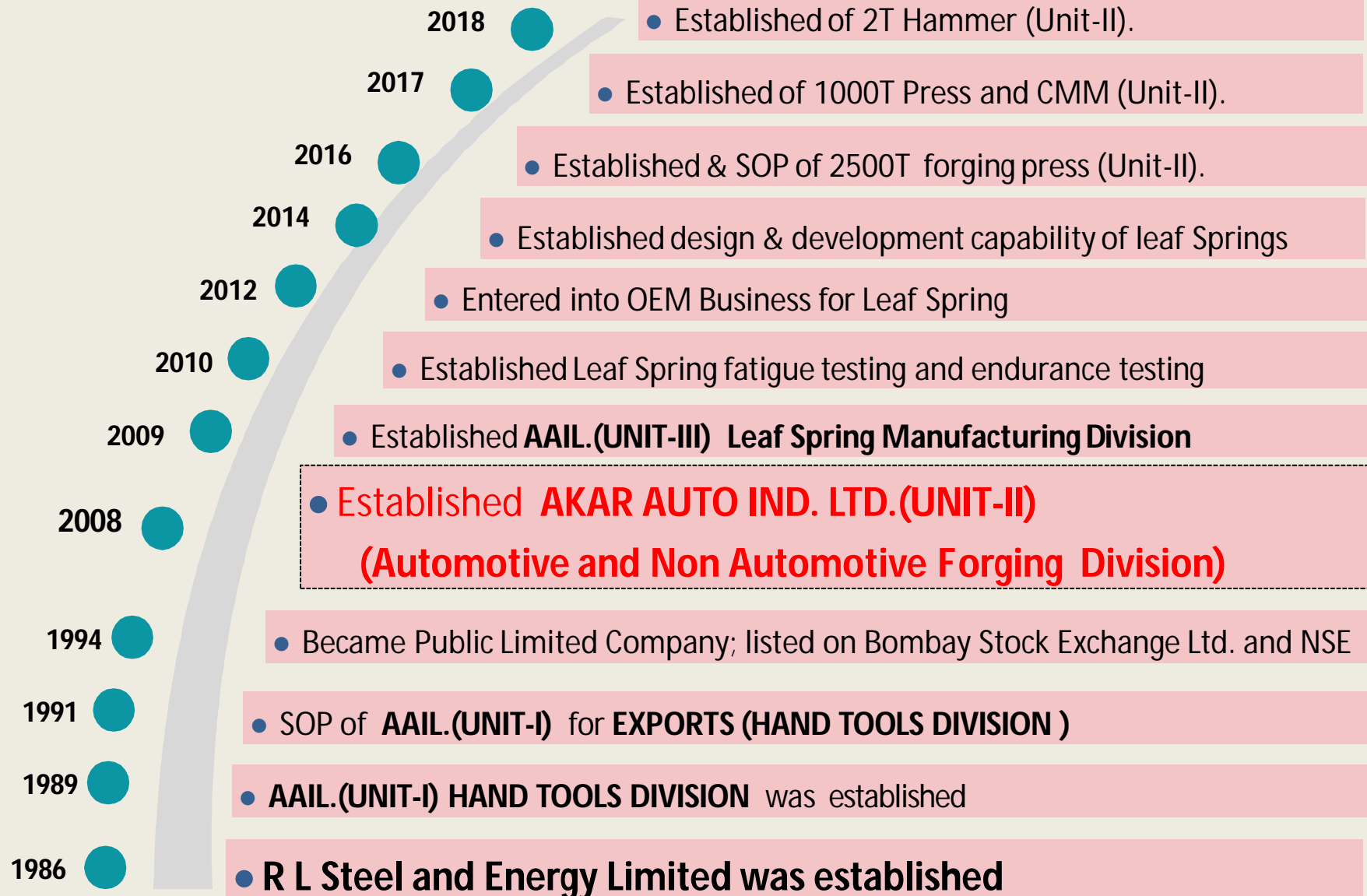
**Akar Auto Industries Ltd
(UNIT II)
Forging Division**

**Akar Auto Industries Ltd
(UNIT III) & (UNIT IV)
Suspension Division**



AKAR AUTO INDUSTRIES LTD.

MILESTONES ACHIEVED





AKAR AUTO INDUSTRIES LTD. (UNIT-II) - AUTOMOTIVE & NON-AUTO FORGINGS DIVISION

SALIENT FEATURES & FACTS

- **AAIL UNIT-II Established in Year 2008**
- **Fully Integrated Close Die Forging Facility with annual Forging Capacity of 14,000 Tons**
- **In-house Forging Die Design and Manufacturing**
- **In-house Heat Treatment Facility**
- **In-House Laboratory with Optical Emission Spectrometer**
- **Machining Facilities – over 80% parts supplied in Machined Condition**
- **Customized Forgings from 0.20 Kg. to 25 Kg.**
- **Employee Strength : - over 300+ employees**
- **Total Manufacturing Space :- 9900 SQM (Plot Area), 3865 SQM (covered)**



AKAR AUTO INDUSTRIES LTD. (UNIT-II) - AUTOMOTIVE & NON-AUTO FORGINGS DIVISION - IATF CERTIFICATION



Indian Register Quality Systems

(A Division of IRCLASS Systems and Solutions Private Limited)

CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of

Organisation: Akar Auto Industries Limited - Unit II

Address: C-5 & C-6,
M.I. D.C. Area,
Waluj, Aurangabad - 431 136,
Maharashtra, India

**Support Location &
Annexure:** Refer Annexure

having been audited in accordance with the "Rules for Achieving
and Maintaining IATF Recognition 5th Edition"

Standard Certified: IATF 16949:2016
(1st Edition 1st Oct-2016)
[Exclusions : Product Design
Input and Output (8.3.3.1 & 8.3.5.1)]

Scope: Manufacture of Forgings and Forged
Machined Components

IATF Certificate No.: 0446403

Certificate No.: IRQS/220500105-B granted on: 21st March 2022

Current Issue Date: 21/03/2022

Valid Till Date: 20/03/2025



Shashi Nath Mishra
Head IRQS

This approval is subject to continued satisfactory maintenance of the Quality Management Systems of the organization to the above standard which will be monitored by IRQS. Condition Overleaf

COA/IRQS/IATF/Rev 01

Head Office: 52A, Adi Shankaracharya Marg, Opp. Powai Lake, Powai, Mumbai - 400 072, India.



AKAR AUTO INDUSTRIES LTD. (UNIT-II) - AUTOMOTIVE & NON-AUTO FORGINGS DIVISION - IATF CERTIFICATION

Certificado · Sertifika · प्रमाण पत्र · Zertifikat · شهادة

CERTIFICATE OF REGISTRATION



AKAR AUTO INDUSTRIES LTD -UNIT II
C5/6, Waluj MIDC, Aurangabad- 431136, Maharashtra, India

This certificate verifies that the above Organisation has been audited on the above address for scope as under and found to be in accordance with the requirements of Management system.

ISO 14001:2015
Environmental Management System

Manufacturing of Forgings and Forged Machined Components

Certificate No. : Q-19011601

| | |
|--|---------------|
| Date of Initial registration | 16-01-2019 |
| Date of this certificate/ Issue No. | 14-01-2023/05 |
| Certificate Expiry | 15-01-2024* |
| Recertification Due | 15-01-2025 |

*After successful completion of Annual Surveillance Audit, New Certificate will be issued.

This Certificate is valid as per Rules and Regulations of ECL & also the surveillance audits conducted atleast once a year.
To check the certification validity please visit our website- www.theecl.com or contact at info@theecl.com



Equalitas Certifications Limited
Accreditation by International Accreditation Service, 3060 Saturn Street Suite 100 Brea, California 92821-1732, USA
512, DDA 1, District Center, Janakpuri, New Delhi-110058, India, Ph: +91 11 48681431, 9540751844
Email : info@theecl.com, Website: www.theecl.com

Rev. 01



AKAR AUTO INDUSTRIES LTD. (UNIT-II) - AUTOMOTIVE & NON-AUTO FORGINGS

DIVISION DIE DESIGN & DIE MANUFACTURING



- Forging 2D Drawings, Forging 3D Models, Die Drawings prepared by well experienced engineers using AUTO CAD and CREO PARAMETRIC 3.0
- High-end **MASTER CAM** software, like "**Delcam**" and "**UG-NX**" for generating NC tool paths for high-speed die cutting, to reduce turnaround time in die manufacturing.
- Die Shop fully equipped with **3 nos. VMC's (Makino)**, Wire-cut EDM, conventional machines include Surface grinder, Lathe Machine, Milling, Shaper, Cutting, Drilling, manufacturing all the required Tooling In-house. Facilities operated by a team of highly qualified and experience manpower.
- Simulation software implemented.



AKAR AUTO INDUSTRIES LTD. (UNIT-II) - AUTOMOTIVE & NON-AUTO FORGINGS

DIVISION FORGING FACILITIES



- BILLET CUTTING – BAND SAW – 13 no's.
 - CIRCULAR BAND SAW – 2 no's
- BILLET HEATING – ELECTRIC INDUCTION HEATERS – 8 no's.
- CLOSE DIE FORGING DROP HAMMERS:
 - NKH HAMMER - 0.75 Ton – 1 no.
 - NKH HAMMER - 1.00 Ton – 1 no.
 - NKH HAMMER - 1.50 Ton – 1 no.
 - RATTAN HAMMER- 2.00 Ton – 1 no.
 - NKH HAMMER - 3.00 Ton – 1 no.
 - EUMUCO FORGING PRESS - 2500 Ton – 1 no.
 - EUMUCO FORGING PRESS - 1000 Ton – 1 no.
- TRIMMING PRESSES – 9 no's.
- SHOT BLASTING MACHINES – 3 no's.
- COINING PRESS - 1 no
- REDUCER ROLLER - 1 no.



AKAR AUTO INDUSTRIES LTD. (UNIT-II) - AUTOMOTIVE & NON-AUTO FORGINGS

DIVISION **FORGING STEEL GRADES**

| COMMONLY FORGED GRADES | | | |
|---|---|---|---|
| Carbon & Low Alloy Steels | Case Carburizing Steels | Through Hardening Steels | Stainless Steels |
| ASTM A105 C45/CK45 /C40 SAE1050 CLIV/ EN3A/ CL2 ST52-3 /S355J2 ASTM A350 LF2 CL1 AISI 4130 AISI 4140 | 16MnCr5 20MnCr5 AISI 8620H/8630H En353/En355 En355 815M17 / ZF7B 20/25MoCr4M 15CrNi6 | En19 / 42CrMo4 En24 / 817M40 ASTM A 182 F22 41Cr4/40Cr4B En32B AISI1030/AISI 1045 En8 / En8D / En9 SAE15B41/SARE1141 | AISI 410 AISI 420 AISI 304 AISI304L AISI316 AISI316L |

- **STEEL REQUIREMENT MAJORLY FULLFILLED FROM OWN PARENT COMPANY – R. L. STEELS**
- STRATEGIC RELATIONSHIPS WITH OTHER RENOWNED STEEL COMPANIES HELP GET STEEL IN SHORTEST LEAD TIMES
- FULL TRACEABILITY ON FORGINGS WRT STEEL HEAT CODES

FORGINGS DIVISION UNIT II (MAJOR RAW MATERIAL SUPPLIERS)





AKAR AUTO INDUSTRIES LTD. (UNIT-II) - AUTOMOTIVE & NON-AUTO FORGINGS

DIVISION **HEAT TREATMENT FACILITIES**



- **HEAT TREATMENT – CAPACITY 30 TONS / DAY** Facility Calibrated by NABL accredited agencies as per AMS 2750 D
- **CONTINUOUS GAS FIRED BOFCO FURNACE – AUTOMATIC Processes**
 - NORMALISING
 - ISO-ANNEALING
 - QUENCHING & TEMPERING
- **CONTINUOUS PUSHER TYPE GAS FURNACE -**
 - NORMALISING
- **QUENCHING MEDIA – POLYMER / WATER / OIL**
(Quenching Tank Capacity 4500 Litres)
- **SCADA DATA LOGGERS**
- **K – TYPE THERMO COUPLES**
- **TEMPERATURE CONTROLLERS**
- **HEAT TREATMENT CHART RECORDERS**
- **AUTO EXTRACTOR FOR QUENCH APPLICATION**



AKAR AUTO INDUSTRIES LTD. (UNIT-II) - AUTOMOTIVE & NON-AUTO FORGINGS DIVISION **LABORATORY TESTING FACILITIES**



- **LAB IS FULLY EQUIPPED WITH ALL TESTING EQUIPMENTS -**
- **CHEMICAL ANALYSIS**
 - OPTICAL EMISSION SPECTROMETER (Make - Spectromax (28 Channels))
- **MECHANICAL TESTING –**
 - UNIVERSAL TESTING MACHINE 40T with Extensometer
 - IMPACT TESTING MACHINE
- **HARDNESS TESTING –**
 - OPTICAL HARDNESS TESTER (BHN)
 - BRINELL HARDNESS TESTERS
 - ROCKWELL HARDNESS TESTERS (Digital & Regular)
- METALLOGRAPHIC IMAGE ANALYSER (with photo facility)
- JOMINY HARDENABILITY APPARATUS WITH MUFFLE F/C
- SALT SPRAY TESTING MACHINE
- PROFILE PROJECTOR 10X / 20X
- MPI TESTING FACILITY with GOSS METER,
- SURFACE ROUGHNESS TESTER
- DFT METER FOR PAINT THICKNESS
- NICKEL PLATING THICKNESS TESTER



AKAR AUTO INDUSTRIES LTD. (UNIT-II) - AUTOMOTIVE & NON-AUTO FORGINGS
DIVISION **LABORATORY TESTING FACILITIES (CMM)**

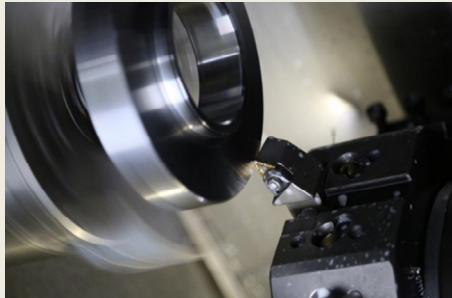


Advantages of CMM:

- 1) High precision and accuracy.
- 2) Requires less labor.
- 3) Accurate dimensions
- 4) Robustness against external force and error accumulation.



AKAR AUTO INDUSTRIES LTD. (UNIT-II) - AUTOMOTIVE & NON-AUTO FORGINGS DIVISION **MACHINING FACILITIES**



AAIL-II is equipped with various CNC Machines.

- ACE Designer CNC Turning Centre – 2 nos.
Turning Dia. 250 mm, Turning Length 220 mm
- ACE Designer CNC Turning Centre – 2 Nos.
Turning Dia. 280 mm, Turning Length 300mm
- MacPower - CNC Turning Centre – 1 nos.
Turning Dia. 350mm, Turning Length 370mm
- Jyoti Machines – CNC Turning Centre – 5 nos.
Turning Dia. 400mm, Turning Length 700mm
- HMT - FACING & CENTERING Machines – 2 nos.
Turning Dia. 150mm, Turning Length 700mm
- Stamp it Marking Machine (Low Stress Dot-matrix)

Machining Facility is also backed up by local dedicated machining Vendors in nearby vicinity, set-up exclusively for our requirements.



AKAR AUTO INDUSTRIES LTD. (UNIT-II) - AUTOMOTIVE & NON-AUTO FORGINGS

DIVISION

AUTOMOTIVE FORGINGS DEVELOPED



Clutch Pedal
Lever.
Gear Shift Lever.
T R Lever (Pass
Veh.)
T R Lever (Goods
Veh.)
Steering Lever



Lay Shaft .
Input Shaft.
Clutch Output Shaft.
Primary Gear Shaft.
Secondary Gear
Shaft.



Gear Blanks.
Synchro Rings.
Speed Gears
C M Gear.
Timing Gears



Flange Prop Shaft.
Cam Shaft.
Clevis.
Rocker Arms.
Shifter Forks.
Selector Forks



AKAR AUTO INDUSTRIES LTD. (UNIT-II) - AUTOMOTIVE & NON-AUTO FORGINGS
DIVISION **NON-AUTOMOTIVE FORGINGS DEVELOPED**



Hollow Wheel.
Axial Bevel Gear
Blank.
Pulley.
Steering Lever.
Planetary
Gear/Sun Gear
Tyne LH / Tyne RH



Splined Shaft.
Eccentric
Shaft.

AKAR AUTO INDUSTRIES LTD. (UNIT-II)

PRESTIGIOUS CLIENTELE (DOMESTIC)



AXLES INDIA LIMITED



WHEELS INDIA LIMITED



BHARAT GEARS LIMITED
Geared for Life

The logo for Bonfiglioli, featuring a stylized 'G' and the text 'Bonfiglioli' to its right.

Bonfiglioli



AKAR AUTO INDUSTRIES LTD. (UNIT-II)

PRESTIGIOUS CLIENTELE (EXPORT)





Thank You !!!

We endeavor to cater to your specific requirements and become your preferred partner.