





KINETIC GROUP

Pioneers in Indian Automobile Industry

THREE GENERATIONS OF FIRODIA FAMILY



*Founder,
Shri H.K. Firodia
Doyen of Indian Auto*



*Chairman,
Shri Arun Firodia
Padmashree*



*Managing Director,
Mr. Ajinkya Firodia
40 under 40 Awardee*

The Firodia family is one of the most respected names in the Indian automobile industry. Founded by Mr. H.K.Firodia, known as the doyen of Indian automobile industry, the Kinetic Group has over 50 years of experience in this field. Since 1972, Kinetic has introduced life changing products including the Luna, Kinetic Dx and many others through self developed and collaborated technologies, which have been sold to over 10,000,000 Indians across the country.

GROUP COMPANIES

Firodia Group companies



Kinetic Group has an all round capability to manufacture auto – electricals, auto – mechanics & complete automobiles through its various group companies

In addition Kinetic group has diversified into other lucrative businesses and partnerships

Kinetic Group has had collaborations with major automobile giants including Honda Motor Company, Hyundai Motor Company, SYM, L.G, Italjet, Ducati Energia and many others



OEM
MOTORROYALE KINETIC
Exotic Superbikes



OEM
KINETIC GREEN
Electric 3 Wheelers & Golf carts



Auto components
KINETIC ENGINEERING LTD
Transmission, Axle &
Driveline assemblies



Auto components
KINETIC COMMUNICATIONS LTD
Electronics including PCB manufacturing,
Controllers, Digital Instrument Clusters



Auto components
KINETIC TAIGENE ELECTRICAL
CO PVT LTD
Starter Motors



Other
DUCATI ENERGIA
Magnets



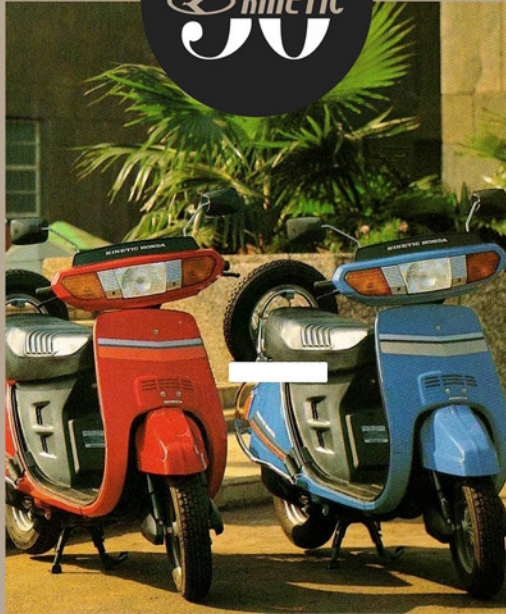
Other
KINETIC HYUNDAI ELEVATOR
& TECHNOLOGIES LTD
Elevators & Escalators



Other
CHRYSALIS FINANCLAL SERVICES
Distribution of home loans



Other
Micro Age India Pvt Ltd
Real estate & other investments



THE JOURNEY OF RE-INVENTION



1970-1980



1990



2000

The Journey for Kinetic has been as exciting and diverse as its capabilities!

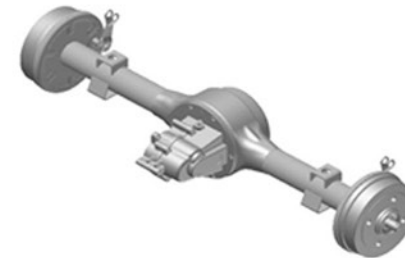
With 1,00,000,000 customers, historic products like Luna, Kinetic Dx, Blaze, Boss to a glorious transformation into auto components and assemblies, driveline products and developing axles and frames for Electric Vehicles,

Kinetic is all charged up for the next 50 years!



2010

2020



FUTURE

AHMEDNAGAR FACTORY

est 1970



Head Office: Pune

Manufacturing Location: Ahmednagar

Employees : 1000

Manufacturing Plant Area: 5,21,700 Sq ft

Manufacturing Sheds: 32

Number of Machines: 460

Serving Tractor, commercial vehicle,
passenger car, 2 wheeler industry

50% volume Exports

New division for electric systems

IATF 16949 certified

OUR CUSTOMERS

Kinetic today is a proud supplier to the biggest names in the automobile industry

INTERNATIONAL



NAVISTAR[®]

MAGNA
MAGNA POWERTRAIN



DOMESTIC



SONALIKA
LEADING AGRI EVOLUTION

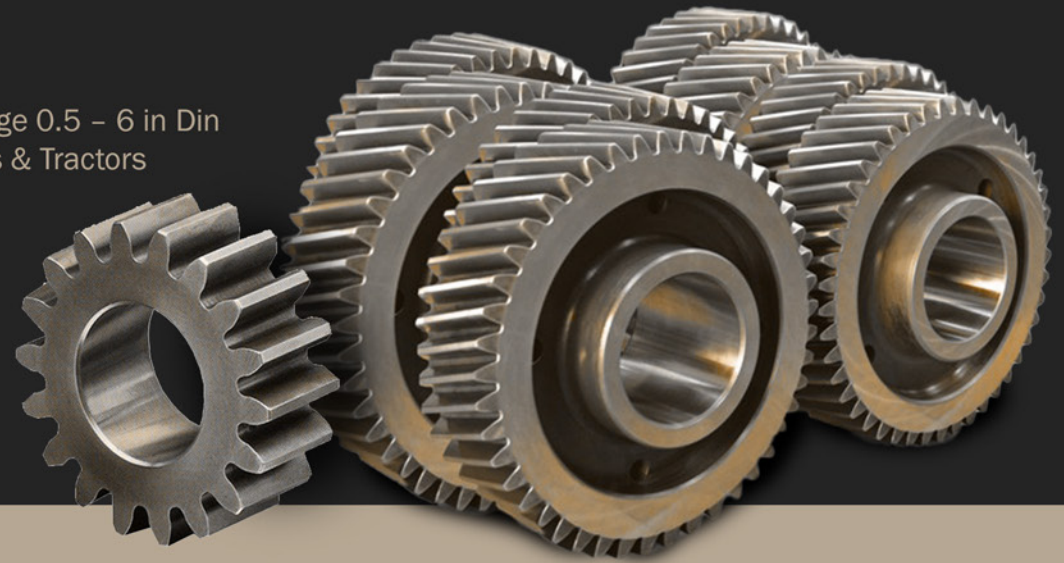


PRODUCTS

Kinetic Engineering Limited specializes in making high quality transmission components

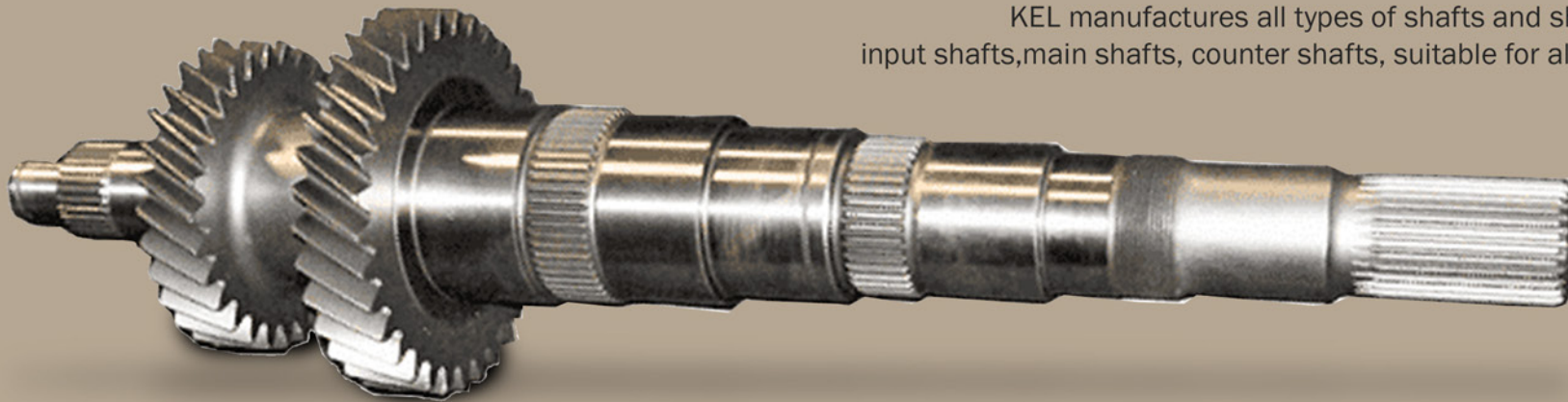
GEARS

KEL can make both spur and helical type gears in the module range 0.5 – 6 in Din Class 8 (shaved) for 2 wheelers, 3 wheelers, passenger cars, SUVs & Tractors



SHAFTS

KEL manufactures all types of shafts and shaft assemblies including input shafts, main shafts, counter shafts, suitable for all automobile applications



BROACHED & OTHER PRODUCTS

KEL manufactures a variety of broached products such as flanges, sleeves, connectors etc.

Some of the special processes include balancing, twistless grinding, tooth pointing with missed tooth, CED painting included in these components

KEL als makes other transmission components such as cone-dogs, clutch washes, shifter sleeves for domestic as well as international markets for its OEM customers



DRIVELINE PRODUCTS

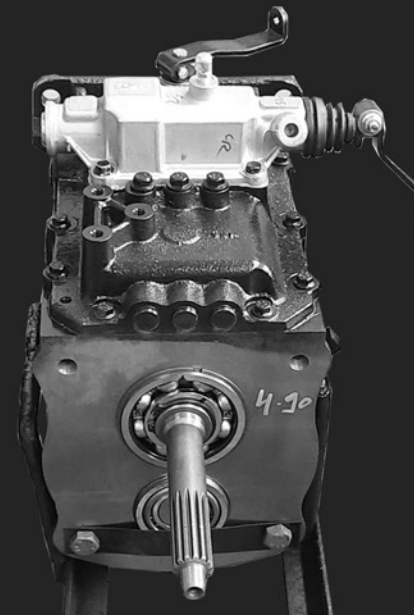
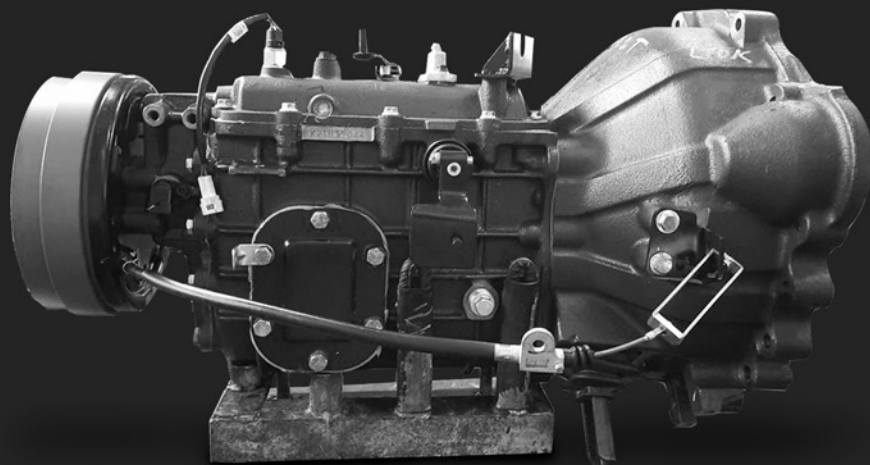
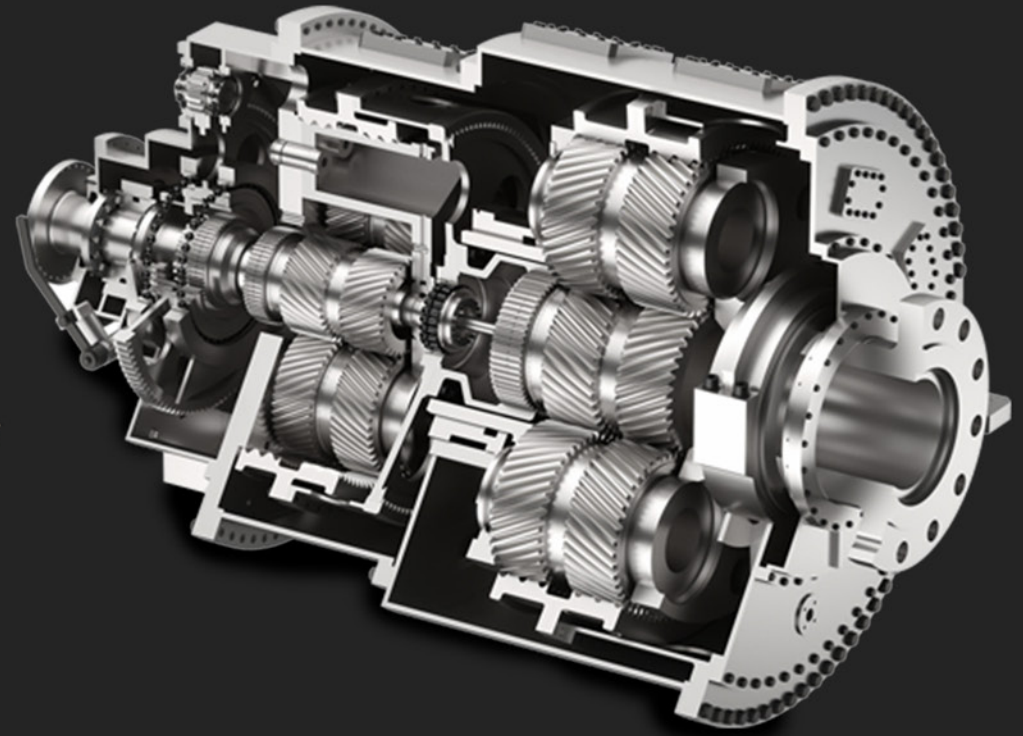
KEL manufactures a variety of driveline products suitable for axles including spline yokes & stub shafts through dedicated high volume lines. These are rack-rolled and made with precision to minimize balancing requirements of our customers

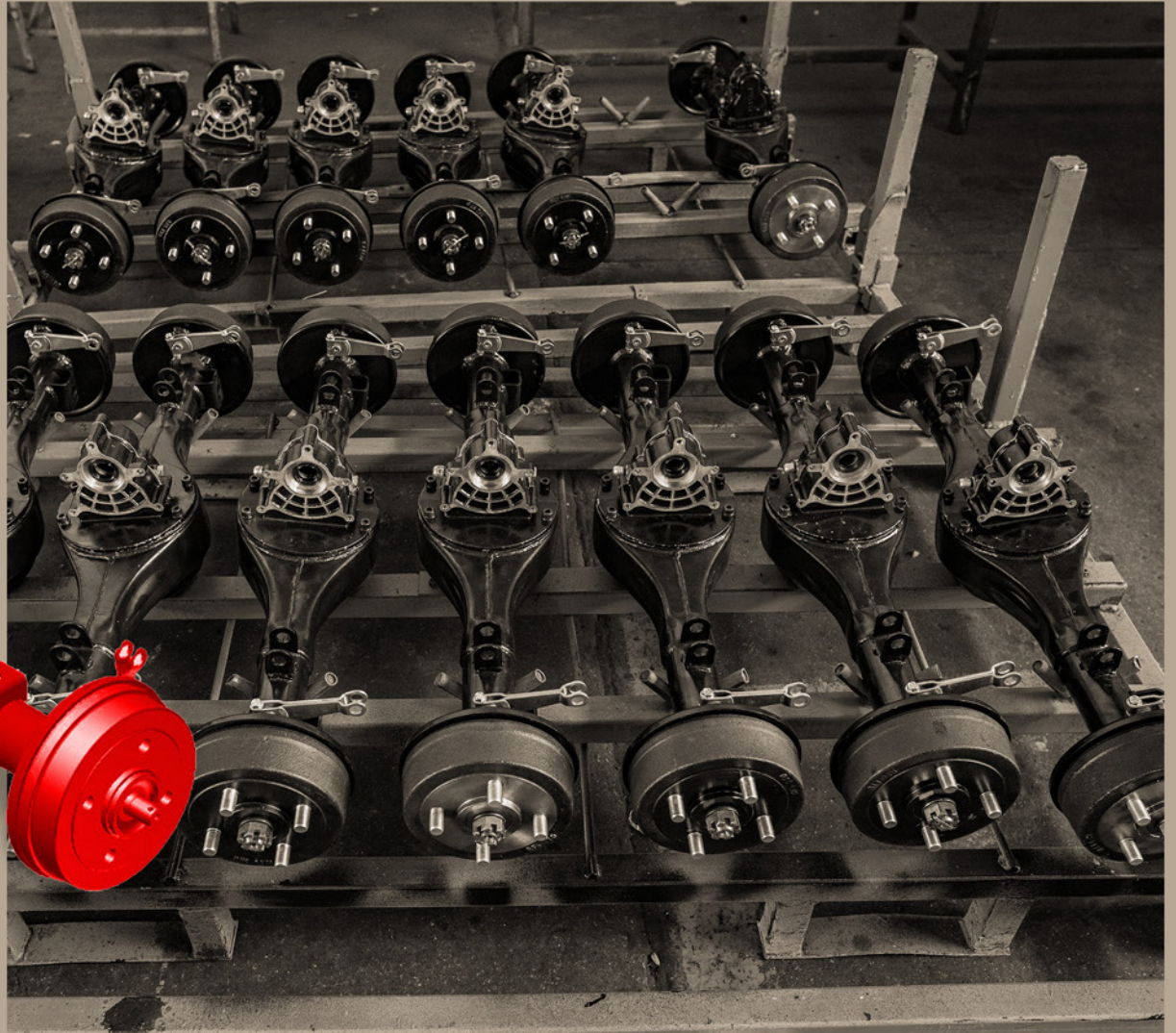
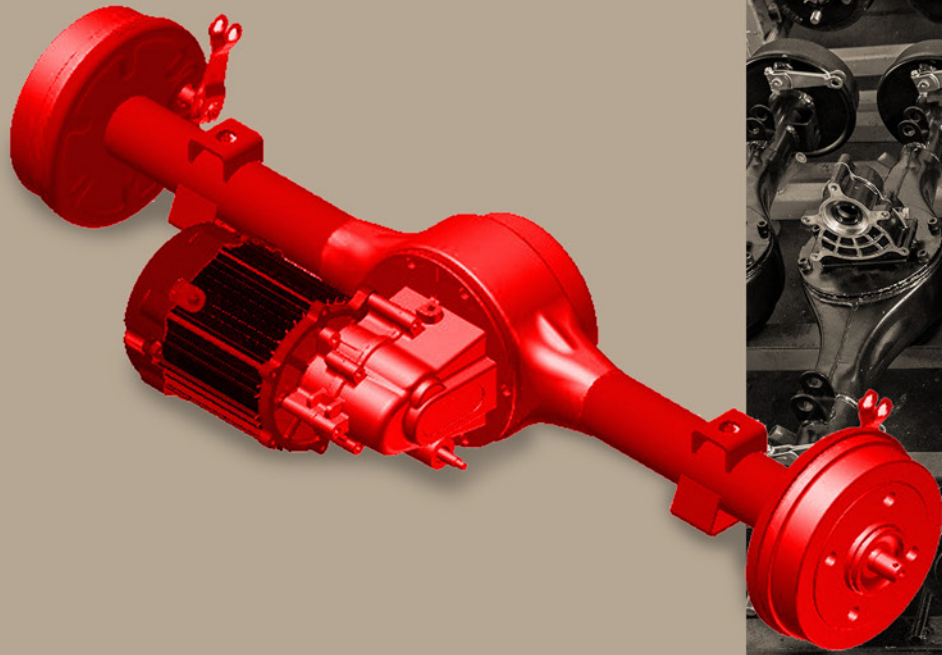
GEARBOXES & ASSEMBLIES

KEL is one of the few companies that can make completely assembled gearboxes. From making the forgings in - house to machining all the gears & Shafts, as well as machining the case transmissions, and other covers; KEL also manages the development and procurement of proprietary parts such as bearings, oil seals, inserts, jaws & all other parts required to assemble a gearbox.

The assembly is done through dedicated lines and tested for noise, vibration, leakage and other parameters through its end - of line testing facility. KEL can also use this capability to manufacture transfer cases and has an understanding with Magna Powertrain to do so, if a customer shall require

KINETIC is a unique company that has it and does it all!





AXLES

KEL makes axles for electric 3 wheelers (single & double speed) with in - house gearboxes.

TECHICAL CAPABILITIES FORGINGS



KEL has in house forging capability and makes 90% of all its forging requirement inhouse through its:

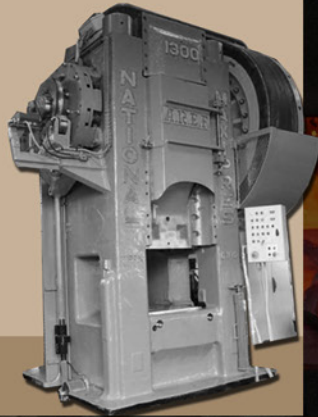
1300 ton National Press | 1 ton Hammer | 2 ton hammer

Equipped with induction heaters, 2 normalizing furnaces, 2 shotblasting furnaces

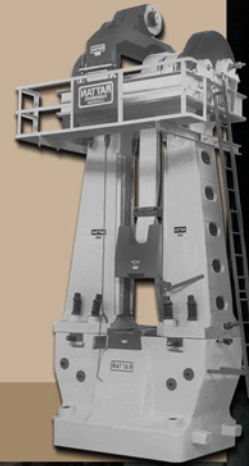
Tonnage: >500 tons monthly & growing

FORGING MACHINERY

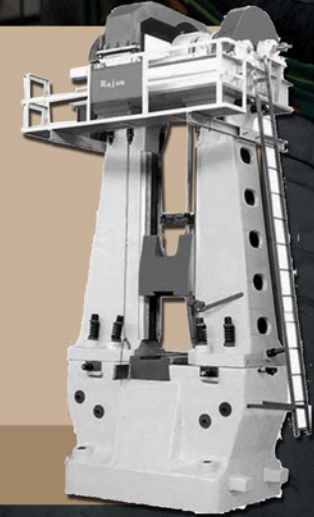
1300 Ton
PRESS



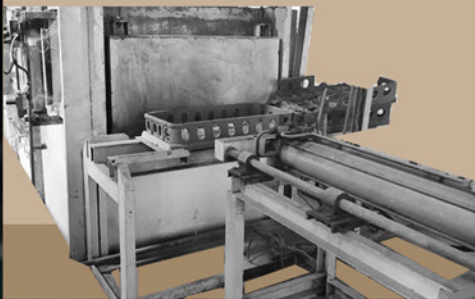
1 Ton
HAMMER



2 Ton
HAMMER



NORMALISING
FURNACE



SHOT BLASTING



INDUCTION HEATER



TECHNICAL CAPABILITIES

GEAR CUTTING



GEAR CUTTING MACHINERY (SOFT)

TURNING

Murata, Jyoti, Mazak



HOBBING

Liebherr, Pfauter, Cooper, HMT



SHAVING

Kanzaki, Hurth, Churchill



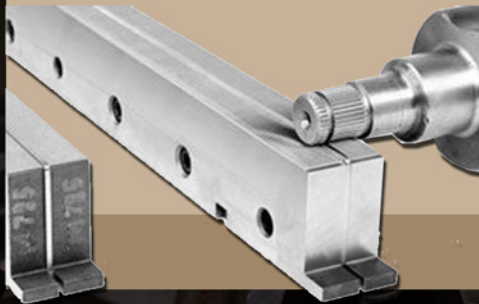
POINTING & ROUNDING

Hurth & HHE



RACK ROLLING & ROLLING

Nachi, Anderson Cook, Tsugami, MTE



LASER WELDING

Trumpf



SU Chamfering

Samputensili



BROACHING

Protel, Landriani, HMT

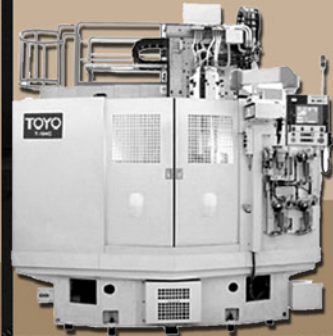


GEAR CUTTING MACHINERY (HARD)

STRAIGHTENING
MAE & Bemco



ID GRINDING
PMT, Voumard, Toyo



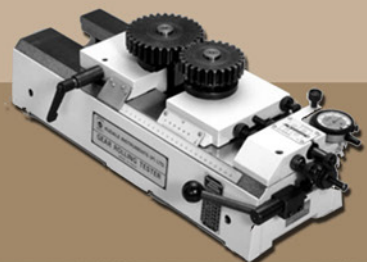
OD GRINDING
Tsugami, HMT, Kirloskar



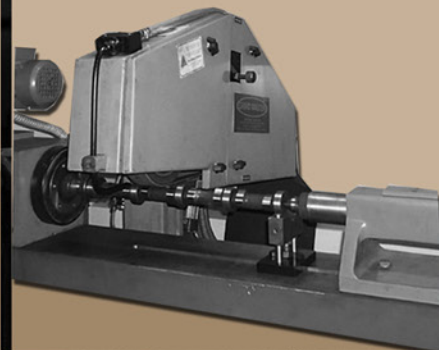
HARD TURNING
Mazak, Jyoti



ROLL TESTING



LAPPING
Grindmaster



HONING
WMW & Fuji



TECHNICAL CAPABILITIES

HEAT TREATMENT



3 sealed quench furnaces

1 continuous gas carburizing furnace

2 induction hardening furnaces

5 tempering furnaces

2 shotblasting furnaces

1 plug quenching furnace

Processes include case carburizing & hardening, carbo-nitriding, sursulf-nitriding, induction hardening. 100% of our components are heat treated in house.

TECHNICAL CAPABILITIES PRECISION MACHINING



Special VMC/HMC capabilities include precision milling, drilling, tapping etc and capable of manufacturing case transmissions, crank cases and aluminium housings/covers for gearboxes and engines in house
KEL is proud to have high precision machines for the same including Heller, Chiron & Jyoti VMC/HMCs In addition to various other machines capable of performing accurate similar operations

TECHNICAL CAPABILITIES PRESSING



& WELDING



KEL has a large press shop consisting of 11 machines from 60 ton to 200 tons presses. These are used for making press parts required for 2 wheeler/3 wheeler vehicle body parts, chasis parts, side panels, or wheel rims or axle and other such parts.

KEL also has a weld shop that can perform tig welding, mig welding, CO2 welding and spot welding. KEL's skilled operators successfully weld various parts such as rigid axles, 2 & 3 wheeler chasis, chain covers etc

TECHNICAL CAPABILITIES PAINTING & PLATING



KEL has a fully equipped painting facility including powder coating, liquid painting & CED with their required pre-treatment & baking processes. That are capable of painting high quality parts in large volume to the desired salt spray tests

KEL also has a zinc plating facility capable for yellow passivation as well as hard chrome plating to maintain surface hardness

ELECTRIC DIVISION



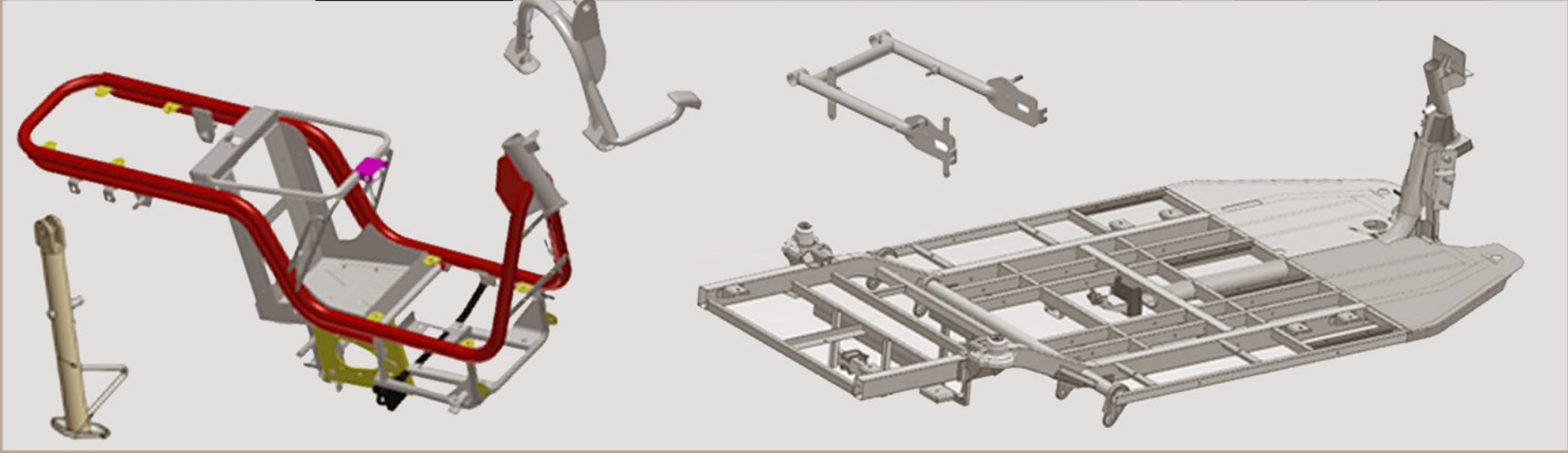
EV Market expected to grow at 65% CAGR to reach a volume of 2.9 Mn vehicles by FY26 and 11.1 MN by FY 31

e2W expected to reach > 2 mn vehicles by FY26 and > 9mn by FY31

2/3rd of 3W market expected to be electric by FY31

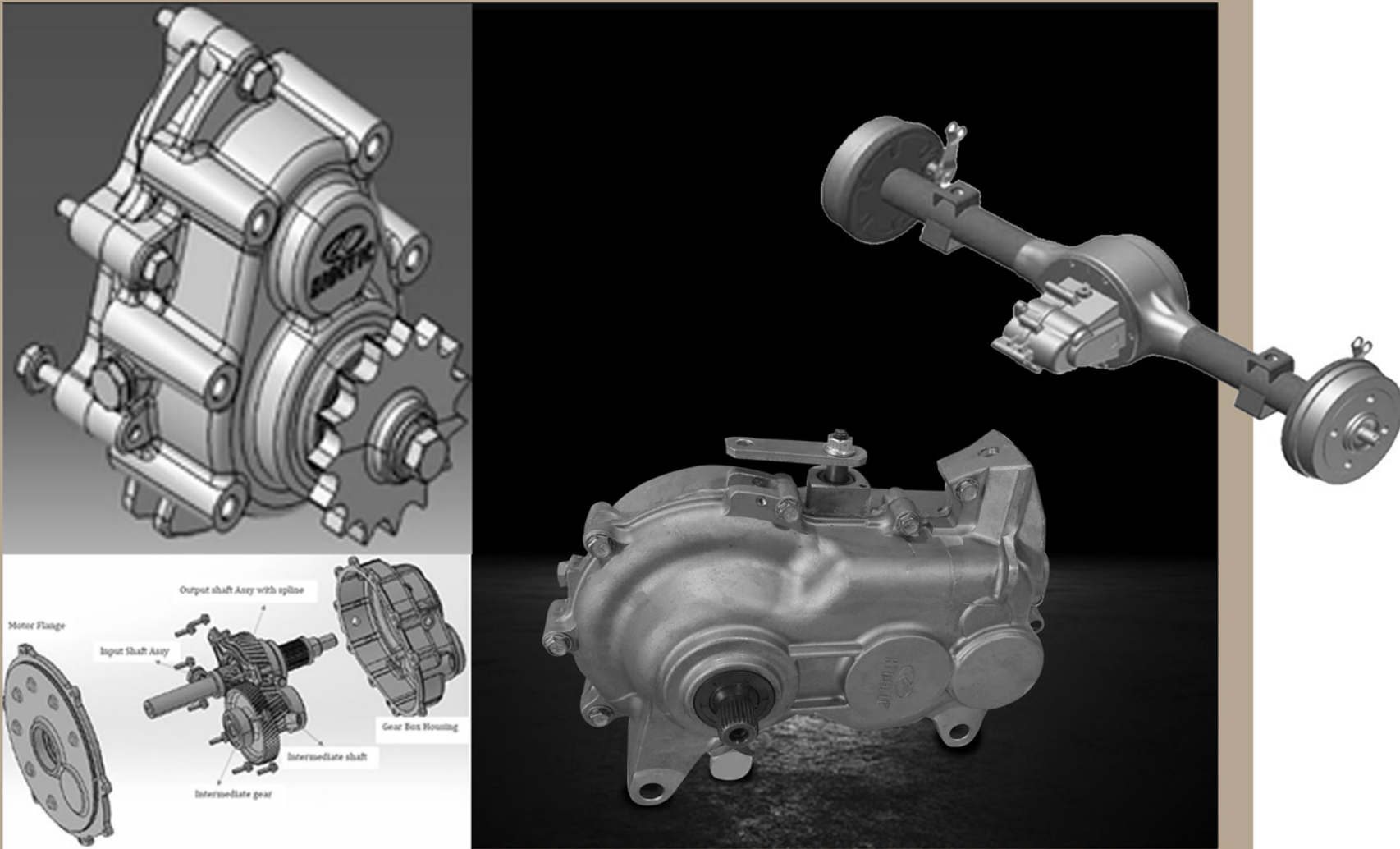
KEL's electric division focused on providing body part & gearbox/axle solutions in this market segment

BODY PARTS FOR ELECTRIC VEHICLES



KEL makes chasis, frames and body parts such as side stands, rear forks, swing arms, main stands for 2 wheeler and 3 wheelers and supplies them duly welded and painted

TRANSMISSION FOR ELECTRIC VEHICLES



KEL makes transmission assemblies for electric 2 wheelers and 3 wheelers. These include:
L3: Single & Double speed rigid axle gearboxes. L5: Single & Double Speed Transaxle gearbox
2 wheelers: Gearbox

QUALITY

IATF 16949 certified

KEL is IATF 16949 certified. KEL believes that quality shall begin at process stage during development itself and uses latest techniques of PFMEA, FMEA, reverse FMEA, PPAP and required development gauging in order to ensure the process required to meet the quality requirements.

The certificate is valid for the following scope:

Manufacturing of engines, gearboxes, machined components, sheet metal parts, welded assemblies & forgings with the provision of heat treatment and surface coating services



STANDARD ROOM

KEL then has an in house tool room & standard room that calibrates its jigs, fixtures and gauges as per desired frequency. Without timely calibration, production punching is stopped by the system



PROCESS CONTROL CHART

KEL's quality engineers adhere to the process control chart by taking first piece approvals, in process checks and final inspections to ensure that every operation is within required specifications

RUN CHARTS

KEL's operators are trained to use run charts on their machines in order to make sure their parts are within the required band at all times
There is a daily rejection analysis meeting between production & quality personnel and all rejections/customer complaints are analysed using techniques such as 8D reports, Why - Why analysis, fishbone analysis, internal CAPA etc

CROSS AUDIT

KEL has an internal process assurance department who takes cross audits for random processes and asks for corrective action plans from time to time
They are also responsible for training in KEL's dedicated training center
They also reward Kaizens for improvements and maintain customer satisfaction indexes

TRAINING CENTER

KEL has an in house training center where internal and external experts are continuously teaching our engineers & operators on best practices for analysis, problem solving and other requirements of the customer



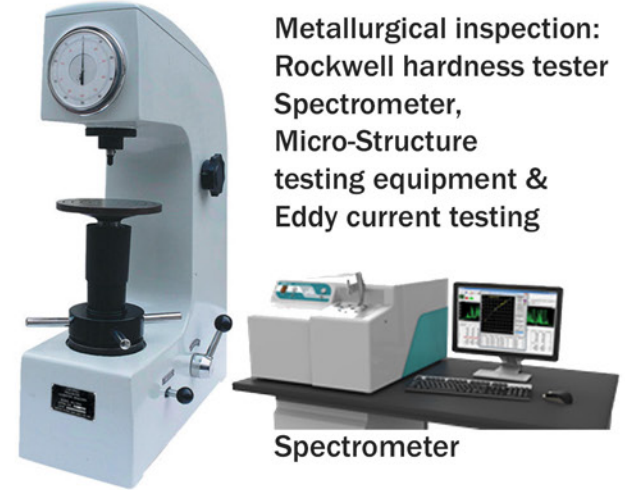
QUALITY EQUIPMENTS AND FACILITIES



Gear Inspection:
Klingenberg

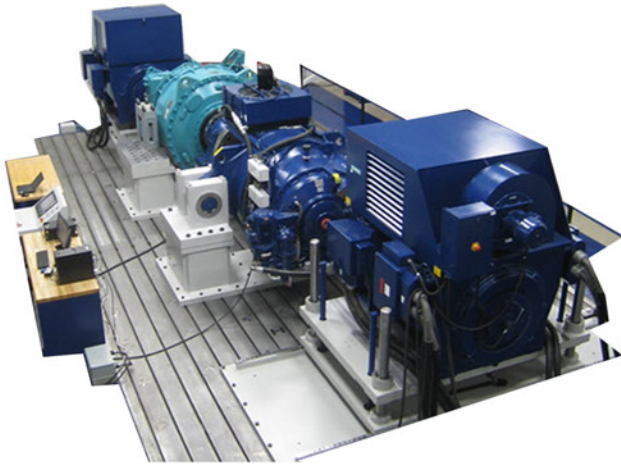


Mitutoyo contrassor &
Digital height gauge/Trimos



Metallurgical inspection:
Rockwell hardness tester
Spectrometer,
Micro-Structure
testing equipment &
Eddy current testing

Spectrometer



End of line gearbox testing



CMM:
Zeiss CMM inspection



Auto-gauging equipment

AWARDS & RECOGNITION



MANUFACTURING TODAY

Next Generation Leader



RENAULT QUALITY AWARD

Best Supplier Quality



TV 9 AWARD 2021

Company of the year 2021
(Auto & Auto Components)



EEPC AWARD

Export excellence award

HAVE YOU USED ANY OF THESE TO EXPERIENCE A KINETIC IN THEM...



LETS FORGE A KINETIC BOND!





Kinetic Engineering Limited

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