



TECHNOCAST
FOUNDRY PVT LTD

TECHNOCAST

FOUNDRY PVT LTD

Manufacturer of Machined Grey,
Ductile Iron & Steel Castings.

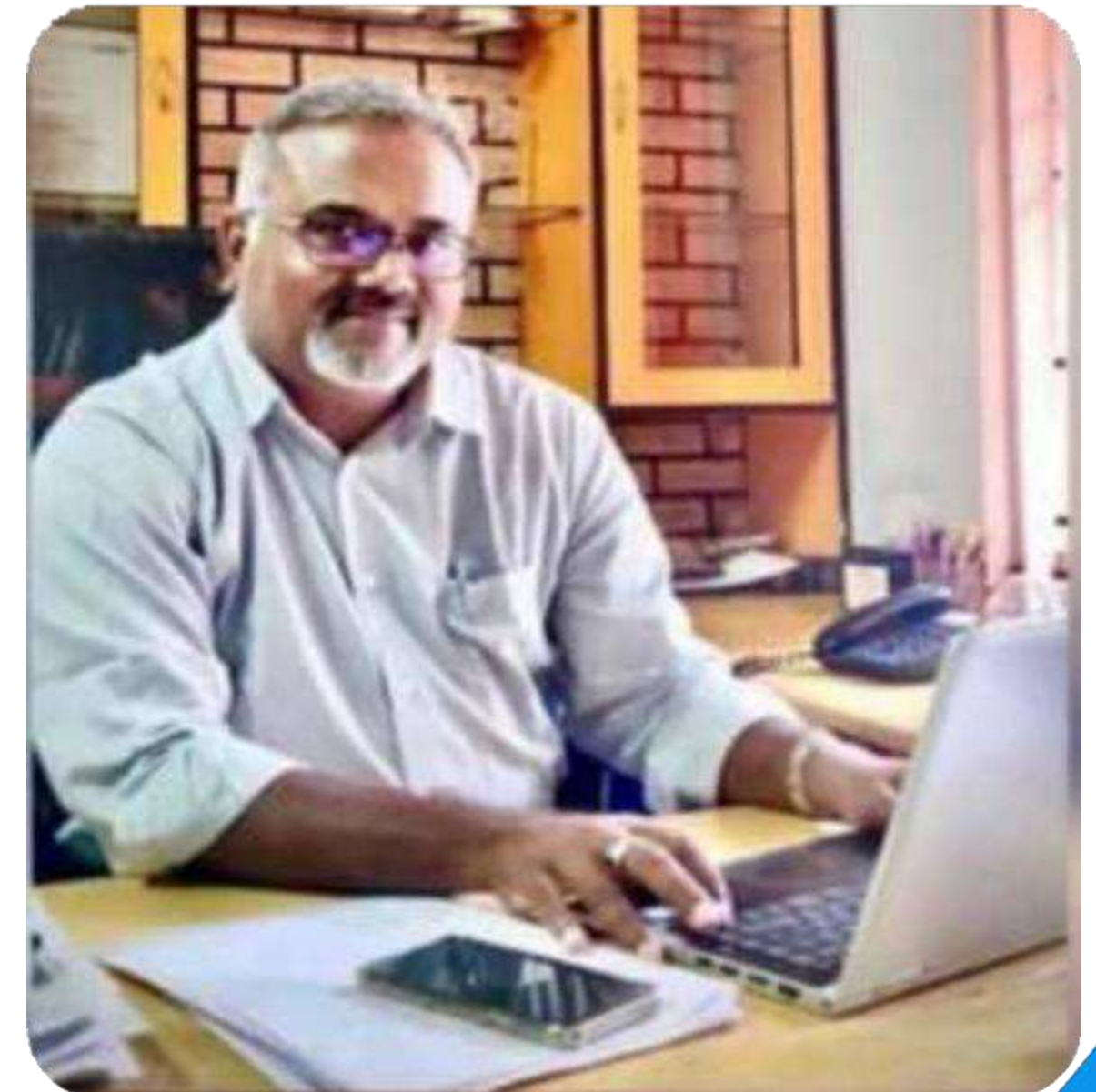
Since 2002...

CASTING THE FUTURE...

ABOUT TECHNOCAST



- Founded by Mr. KAMALAKANNAN (KK)- A first generation entrepreneur from Coimbatore, Tamilnadu, India
- Established Foundry in the year 2002 & Machine shop in the year 2011.
- An ISO 9001 / ISO 14001 / ISO 45001 / IATF 16949 & PED certified organization.
- Total Land area : 52,320 Sq. Mtr (5,23,200 Sq.ft), Working Area : 32,000 Sq Mtr (3,20,000Sq.ft) for Operations and 20,320 Sq.Mtr (2,03,200 Sq.ft) 38% open space for further expansion.
- Total number of employees: 300+



WHY TECHNOCAST?



- One stop shop for Grey, Ductile iron and Steel castings in fully machined condition under one roof.
- Multiple production line with flexibility to produce low and high volumes (Shell molding, High Pressure Molding Line, ARPA 450 & 1300, Alpha set & Floor molding (No Bake))
- Covering a weight range from 1 Kg to 1250 kg single piece casting.
- Versatility in catering to various industry segments (automotive, non-automotive, off road, pumps & valves, wind energy, transmission etc...)
- We have added special processes like gear cutting, balancing, fabrication and sub-assemblies, special coating process, high pressure washing, heat treatment etc., for our existing customer and we are willing to add more based on the requirements of customers in future.
- We are equipped in supply of parts with fabrication & fully assembled in tested condition.

INFRA



Total Area : 52,320 Sq.Mtr Working Area : 32,000 Sq.Mtr Open Area : 20,320 Sq.Mtr

AWARDS & ACCOLADES



**2009 - BEST SUPPLIER
AWARD FIAT**



**2009 - STAR EXPORT HOUSE
MINISTRY OF COMMERCE**



**2011 - BEST EXPORT
FOUNDRY IIF**



**2015 - BEST SUPPLIER
AWARD TAFE IBU**



**2019 - EXPORT EXCELLENCE
AWARD EEPC INDIA**



**2020 - EXPORT EXCELLENCE
AWARD EEPC INDIA**

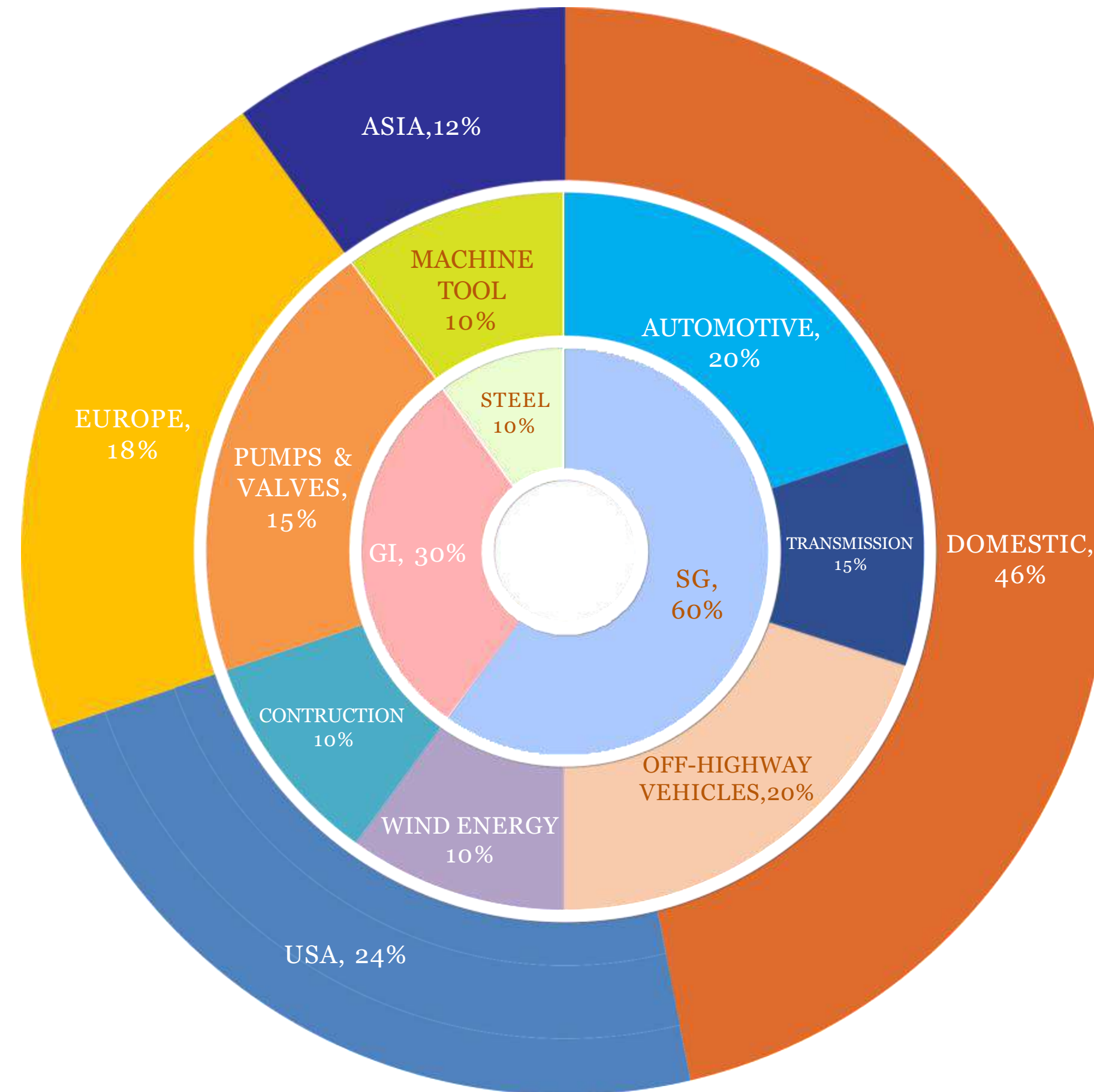


**2021 - EXPORT EXCELLENCE
AWARD EEPC INDIA**



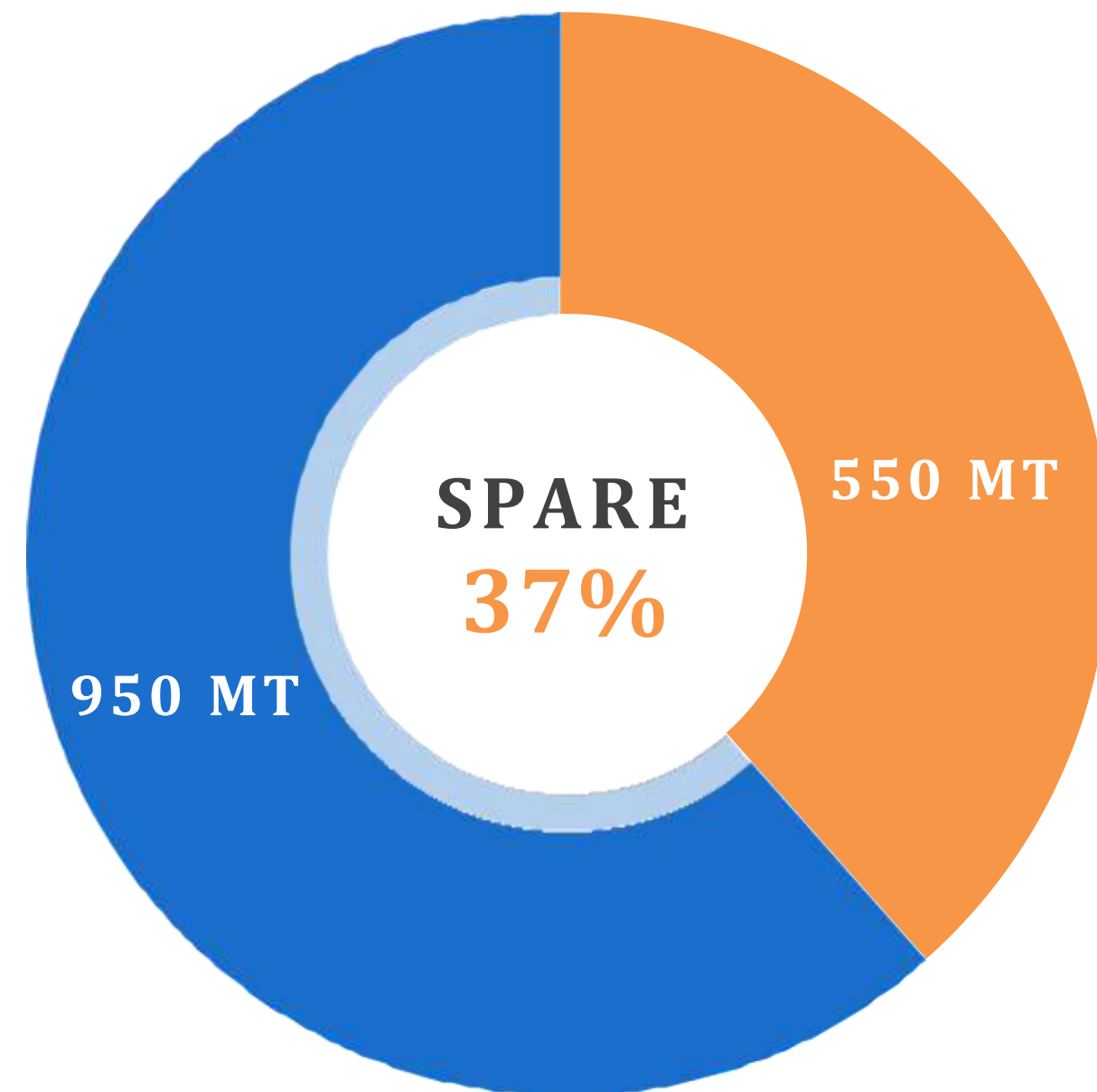
**2022 - EXPORT EXCELLENCE
AWARD EEPC INDIA**

BUSINESS SPECTRUM



CAPACITY PER MONTH

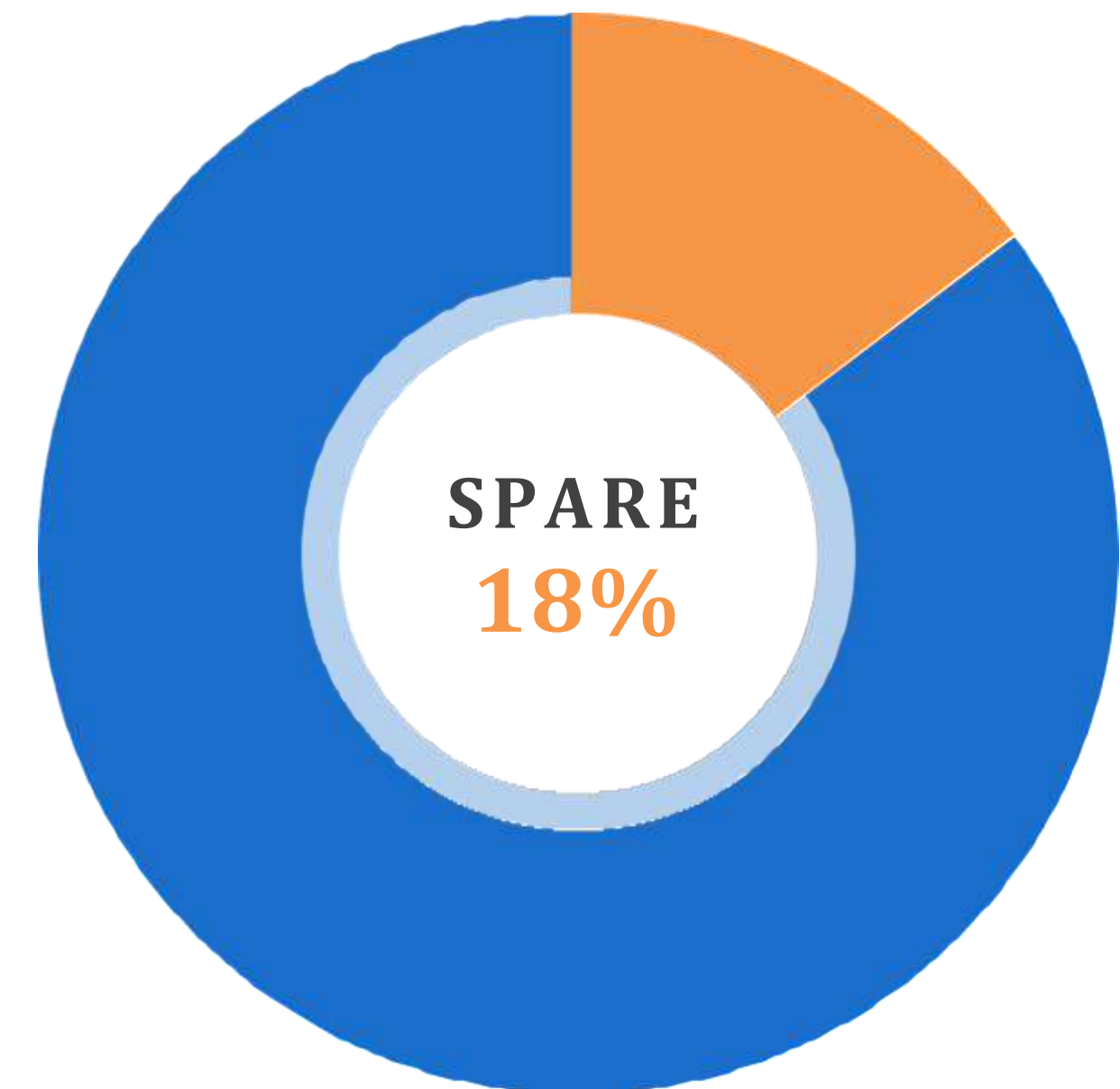
FOUNDRY



Installed Capacity : 1500 MT/Month



MACHINE SHOP



Further Planning to add Machines based on Customer Requirements

PROCESS FLOW



PATTERN STORAGE



CORE MAKING



MOLDING



MELTING



PHYSICAL ANALYSIS



KNOCK OUT



AUTO POURING



CHEMICAL ANALYSIS



FETTLING / GRINDING



MACHINING



FINAL INSPECTION



PACKING

TOOL ENGINEERING

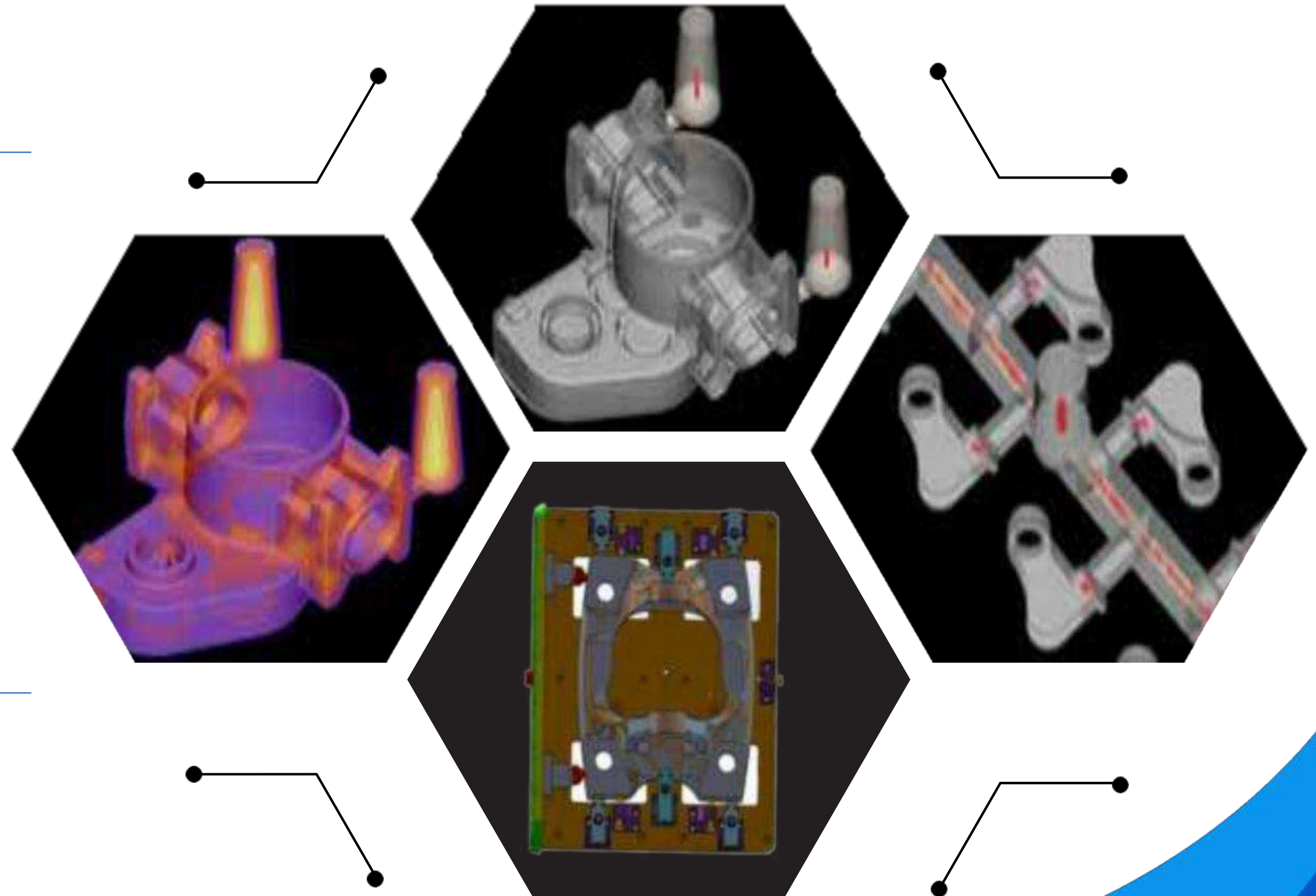
TOOLING DEVELOPMENT IS
SUPPORTED WITH

CAD CAM
Automotive

3D
SOLIDWORKS

SIMULATION SOFTWARE IS
SUPPORTED WITH

 **AutoCAST**TM

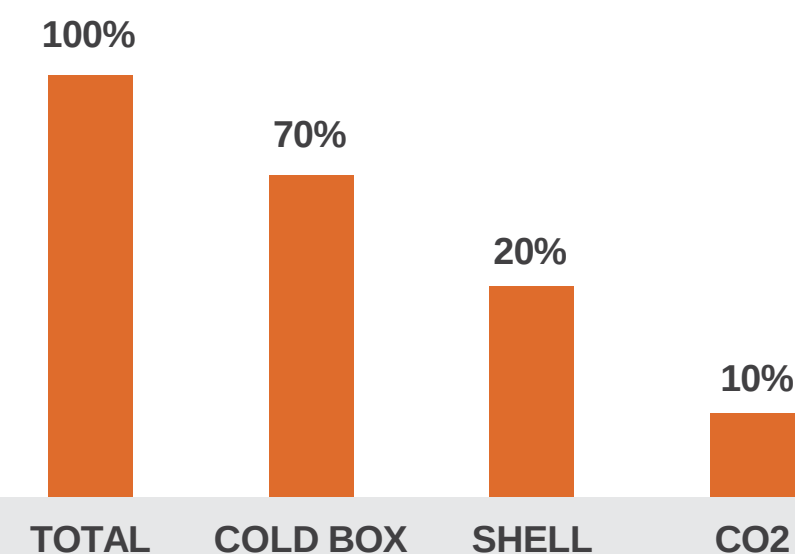


CORE SHOP INFRA

A Shell Core Shooter Of 5 Kg capacity 1 No
Cold box Core Shooter 5 No's

5 Kg Capacity – 1 No's
10 Kg Capacity – 1 No's
15 Kg Capacity – 1 No's
30 kg Capacity – 2 No's

CO2 core making facility
with 4 table



DISA - HPML WITH AUTO POUR

- High-Pressure Molding Line
DISA MATCH 130 (20"x 24")
with horizontal parting.
- Box Size : 510 X 610 X 400(200x2) mm.
- Capable of producing up to
50 kg single piece by weight.
- Molding Speed of 100 -120 Molds / hr
- SAND PLANT - SAM 40 Mixer
with 40 Tons/ Hour – Capacity &
200 Ton Storage Bunkers.



MOLDING LINE

ARPA 450 - MOLDING LINE

- Box size of 650 X 700 X 400(200x2) mm
- Capable of producing castings up to 100 Kg single piece.



ARPA 1300 - MOLDING LINE



- Box sizes of 1200 X 1000 X 700 (350x2) mm
- Capable of producing castings up to 550 Kg single piece.

NO BAKE LINE FLL FOR LARGER CASTINGS



- Can produce up to 1500 kgs single piece weight
- Working Dimensions –
 - Fast Loop Line – 1600*1200*700 (mm)
 - Floor Moulding – 2000*2000*700 (mm)

NO BAKE LINE – MOLDING INFRA



NO BAKE MOLDING LINE (ALPHA SET)

- 30 Ton's/Hr continuous sand mixer with vertical lifting.
- The working dimensions of the NBL :
- **Fast loop line – 1600*1200*700 (mm)**
Floor Molding – 2000*2000*700 (mm)
- **Capable of producing castings up to 1250 Kg single piece in FLL**



DEDICATED SAND PLANT

- Sand storage hopper – 2 no's – 100 ton's capacity / Hopper
- Total sand storage capacity – 200 ton's

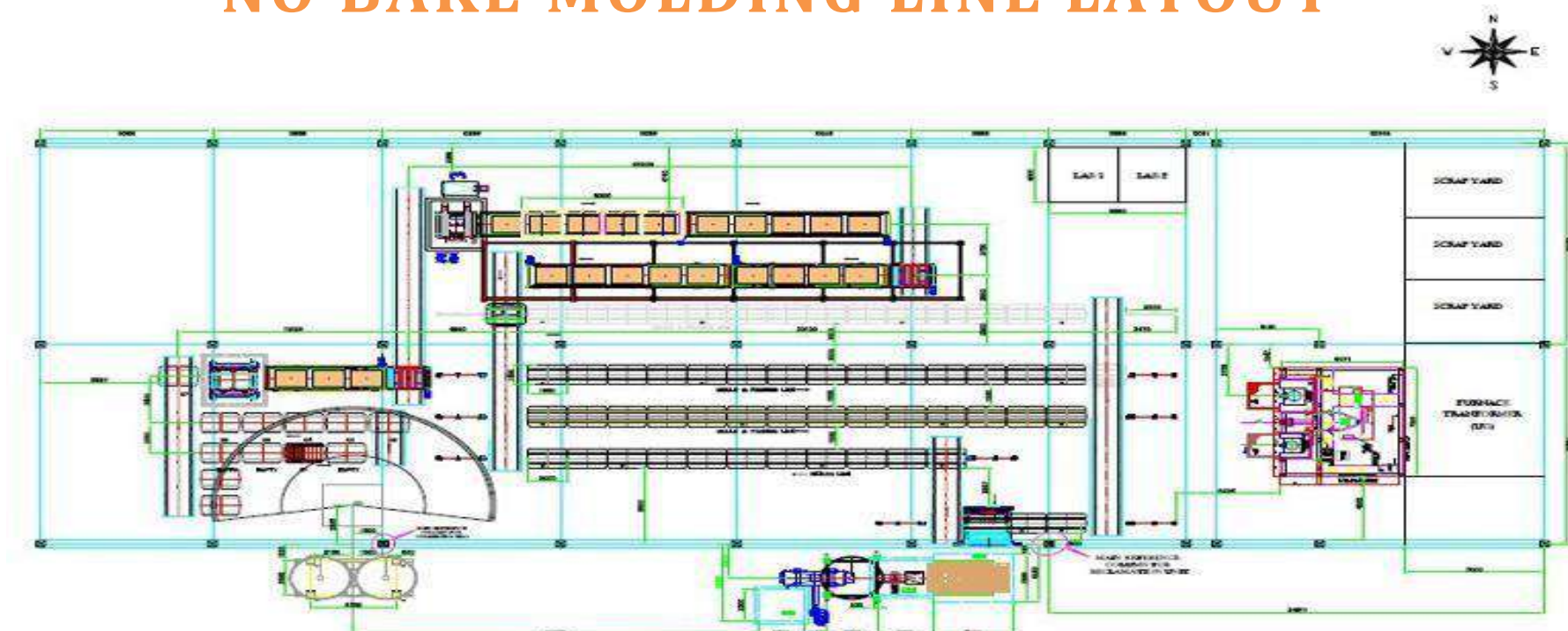
NO BAKE LINE – FURNACE INFRA



DEDICATED MELTING FACILITY WITH 1750 KW POWER ADDITION

- Medium frequency induction furnace – 2 no's
- **Capacity of the furnace – 1.5 ton's dual track**
- Total capacity per month – 800 ton's

NO BAKE MOLDING LINE LAYOUT



MELTING – INFRA



Chemical composition
display



Countdown timer with
hooter

MEDIUM FREQUENCY INDUCTION FURNACE

Medium frequency induction furnace 1 ton dual track capacity – 4 no's with Capacity to produce 60 Tons/Day.

LAB & TESTING



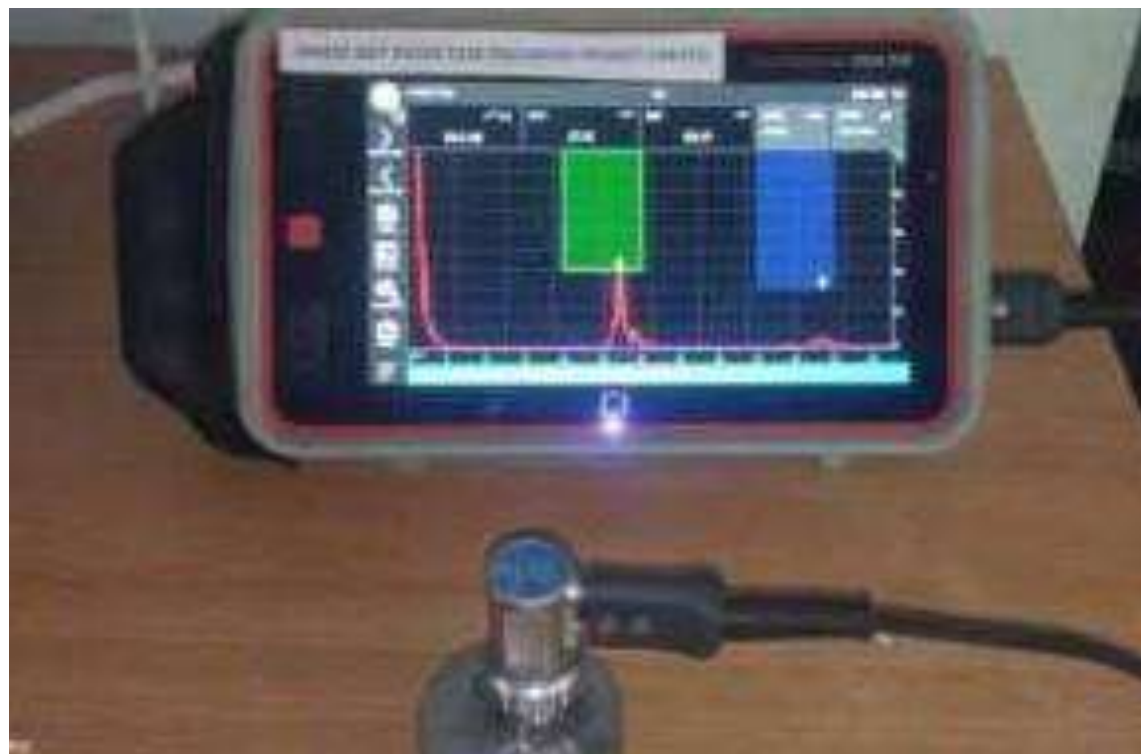
ARL SPECTRO METER



SAND TEST EQUIPMENT



MICROSCOPE WITH IMAGE ANALYZER



NODULARITY BY VELOCITY INSPECTION



TENSILE & HARDNESS TESTING MACHINE



DIGITAL MICRO VICKERS

HEAT TREATMENT SHOP



BOGGIE HEARTH FURNACE

- Size: 1800mm(L) X 1800mm(W) X 1200mm(H)
- Production Capacity : 2 Tons
- Stress relieving ,Normalizing ,Annealing, and stabilization



PIT TYPE GCF & VFC

- Size : ø 500 X 1000mm(H)
- Production Capacity : 1000 Kg

HEAT TREATMENT SHOP



MESH BELT CONVEYOR FURNACE

- Production Capacity : 100Kgs/Hr
- Process Feasibility : Hardening & Tempering, Trough Hardening



INDUCTION HARDNING

- Size : Ø60 x 1000mm(H)

MACHINE SHOP INFRA - VMC LINE



VMC - 20 Nos

Table Size : 1000 x 500 x 500 (mm) – 09 Nos

1200 x 550 x 550 (mm) – 09 Nos

1600 x 750 x 800 (mm) – 02 Nos

All Machines with 4th AXIS and Through Coolant Spindle

HMC LINE



HAAS, EC-400
Operating Spec :
600x600x500mm
Pallet Size : 400x400mm
ATC : 60Nos



MAG SPECHT - 500X
5th Axis
Operating Spec :
800x800x750mm
Pallet Size : 500x500mm
ATC : 108Nos



STARRAG IWK 5000
With Probing
Operating Spec :
900x900x800mm
Pallet Size : 630x500mm
ATC : 60Nos



DOOSAN DHM 800
With Probing
Operating Spec :
1200x1200x900mm
Pallet Size : 800x800mm
ATC : 90Nos

VTL, TURNING CENTRE LINE



VTL - 5 NO'S

Operating Spec :

Cutting Ø850 mm, Swing : 1000 mm – 2 no's

Cutting Ø700 mm, Swing : 800 mm – 3 no's



TURNING CENTRE - 13 NO'S

Operating Spec :

Cutting Ø350, Swing 450 mm – 7 Nos

Cutting Ø250, Swing 350 mm – 6 Nos

VTM LINE



VERTICAL TURN MILL

Operating Spec :

Table Dia : 1500mm

Cutting Dia : Ø1750mm

Height : 1100mm

SPECIAL PROCESS



GEAR SHAPING MACHINE:

FELLOWS – VERMONT (USA) – 1 No

Operating Range : Up to Ø500 mm
& Ø90 mm height



DYNAMIC BALANCING MACHINE: HORIZONTAL 1 NO & VERTICAL 1 NO

Operating Range : Up to Ø500 mm &
Ø300 mm length, with accuracy of 1 gram



MAKE: Brown & Sharpe (USA)

Operating Spec :

700 x 1000 x 700 (mm) with
Touch probe



MAKE: Brown & Sharpe (USA)

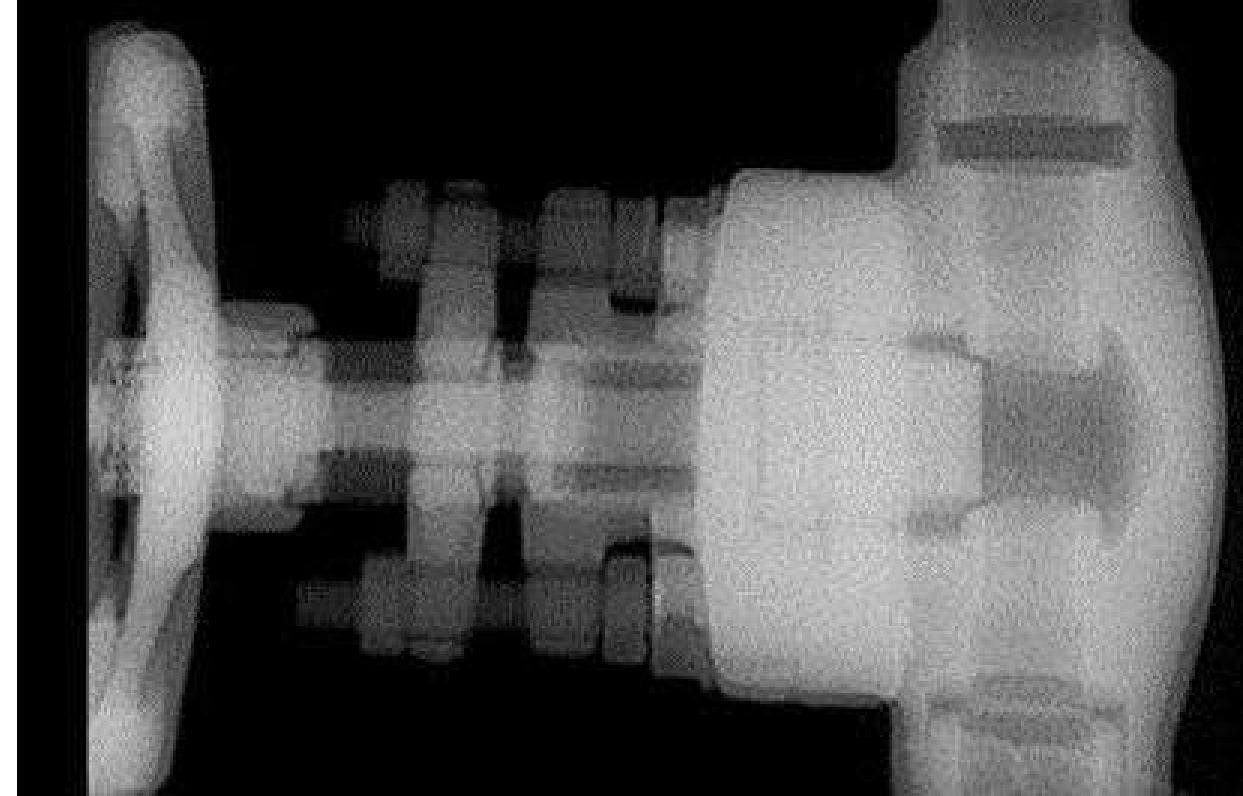
Operating Spec :

1500 x 1200 x 1000 (mm) with
canning probe, Gear Profile Testing.

INSPECTION & TESTING



UT INSPECTION



RT INSPECTION (OUT SOURCE)



MPI INSPECTION



CONTOUR TESTING



RING GAUGE MASTER



PRESSURE TESTING

FABRICATION



Perforation



Forming

Sheet forming :

we are equipped with sheet metal perforation machine and forming machine - 2 No's

Operating Width – 1000 mm & Thickness 2mm.

Free capacity – 60% (Approx.)

Fabrication :

We are equipped with full fledged fabrication process including **TIG**, **MIG & ARC** welding.



ASSEMBLY & TESTING

ASSEMBLY :

Equiped with assembly facility catering to customer need with low and medium batch volumes.

Assembly consist of Steel casting, Rolled steel, Steel forging, Brass, PTFE, Stainless steel and Rubber products etc.,



2000 ton hydraulic press

LOAD TESTING :

Test conducted on the product as per customer requirement.

PRODUCT PORTFOLIO - WEIGHT RANGE



Part weight : 1.5 Kg
Sector: Automotive



Part weight : 70 Kg
Sector: Transmission



Part weight : 120 Kg
Sector: Transmission



Part weight : 300.0 Kg
Sector: Earth Moving Equipment



Part weight : 450.0 Kg
Sector: Wind energy



Part weight : 1100.0 Kg
Sector: Transmission

PRODUCT PORTFOLIO - COATING



Primer Painted and Machined Casting Parts



ED Coated Parts (Outsource)



Manganese Phosphating (Outsource)



Powder Coated Parts (Outsource)



ZINC Coated Parts (Outsource)



Galvanize Coating (Outsource)

PRODUCT PORTFOLIO - AUTOMOTIVE



CED Coated

PRODUCT PORTFOLIO - OHV



PRODUCT PORTFOLIO - POWERTRAIN



PRODUCT PORTFOLIO - POWERTRAIN



PRODUCT PORTFOLIO - PUMP & VALVES



PRODUCT PORTFOLIO - NO BAKE LINE PARTS



PRODUCT PORTFOLIO - NO BAKE LINE PARTS



Grey Iron



Ductile Iron



Ductile Iron



Ductile Iron

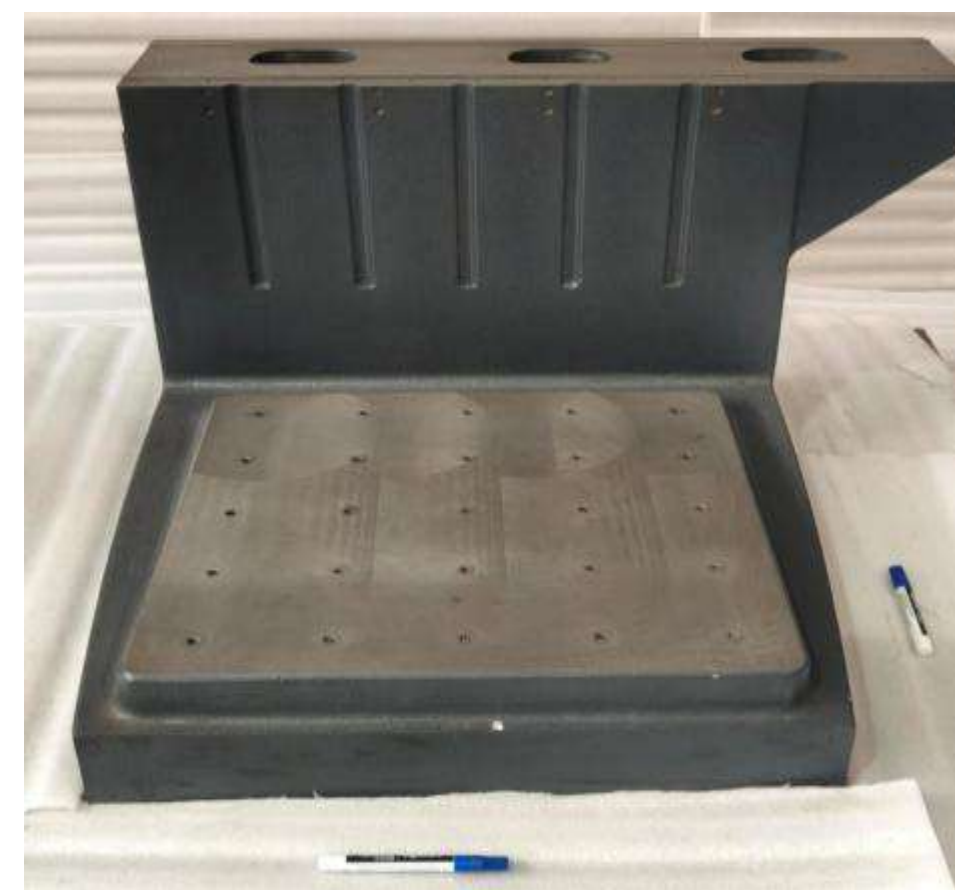


Steel Casting

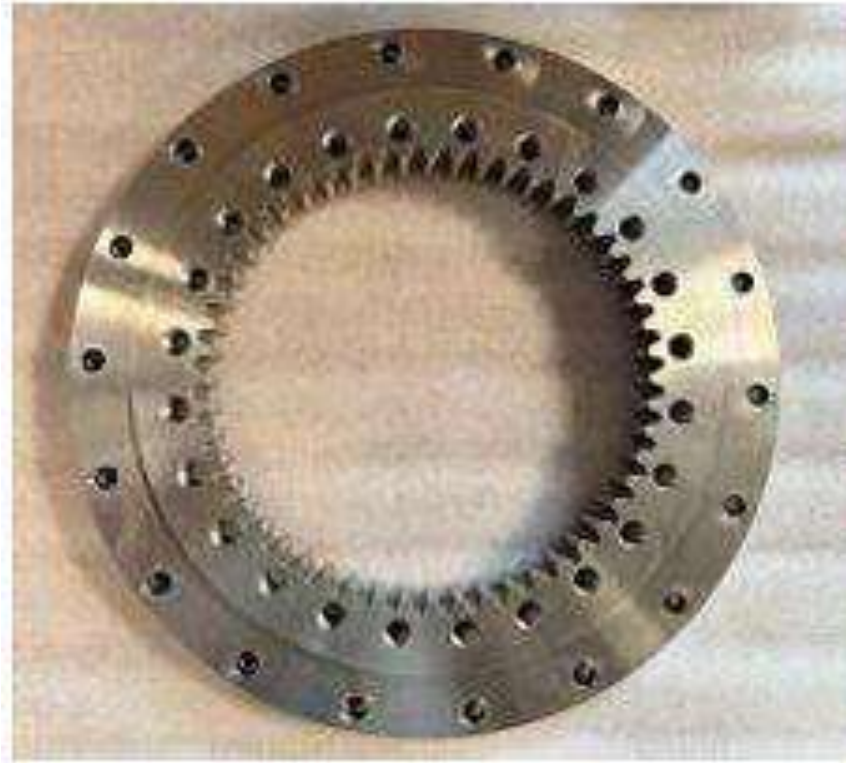


Steel casting

PRODUCT PORTFOLIO - NO BAKE LINE PARTS



PRODUCT PORTFOLIO - STEEL FORGED MACHINED PARTS



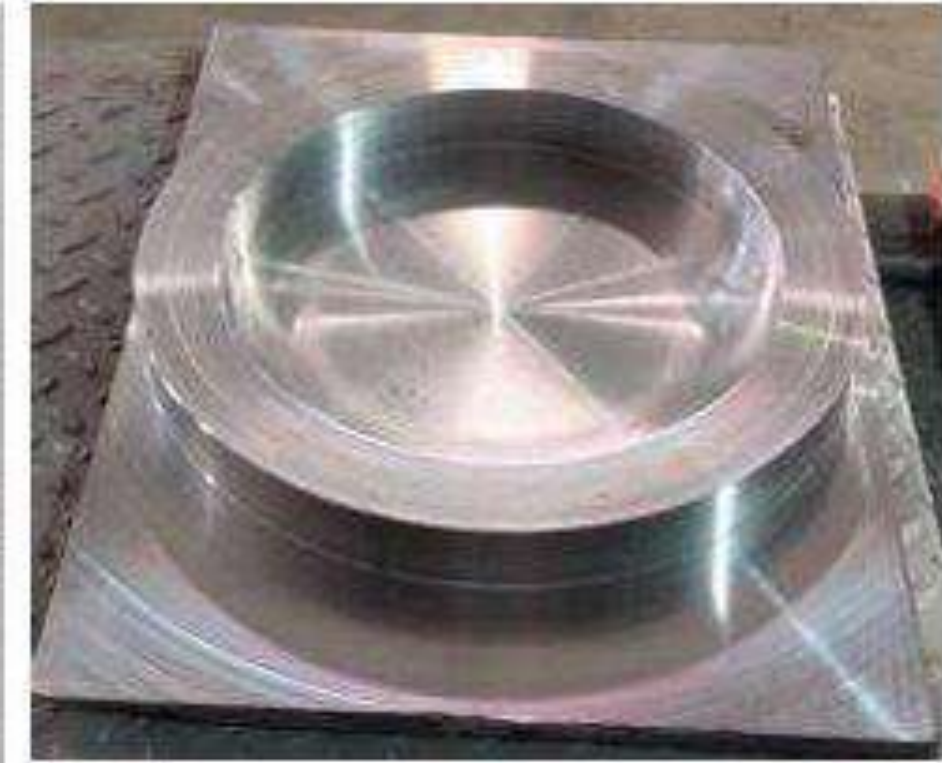
Alloy Steel



Alloy Steel Forging



E 350 Steel



WCB Steel



Stainless Steel Casting (CF 3M)



Alloy Steel



Alloy Steel 20MnCr5

NEW VMC'S EXPECTED IN AUG 2026



Specification

• Size : 2500 X 2000 X 1000

With 90° Auto milling Head with
Through coolant spindle



Specification

• Size : 1000 x 600 x 600

4th Axis with Through Coolant
Spindle

NEW FETTLING AUTOMATION EXPECTED IN OCT 2026



AUTOMATIC FETTLING 5 AXIS GRINDING MACHINE

SPECIFICATIONS :

Turning radius : 250mm

Height : 250mm

Weight capacity : 40kg

TECHNOCAST

FOUNDRY PVT LTD



+ 91 99436 61000



www.technocastfoundry.net



marketing@tcf.net.in



127/3B, Sangothipalayam Road,
Arasur, Coimbatore, Tamilnadu,
India – 641 407.



THANK YOU...