



GALAXY TECHNOFORGE (INDIA) PVT. LTD.

FORGING THE FUTURE



INFRASTRUCTURE & FACILITIES

Since 2002, Galaxy Technoforge (INDIA) Pvt. Ltd. is leading manufacturer of precision machined components in India. Galaxy caters to automotive as well as non automotive sectors and is renowned for excellence in quality and on time delivery.

State-of-art infrastructure spread over total area of 66000 sq. ft. consists of forging shop, heat-treatment shop, machining shop, die and tool shop, and modern testing lab.



CERTIFICATIONS



IATF 16949:2016

Certified Quality Management System for the Automotive Industry



ISO 14001:2015

Certified Environmental Management System



ISO 45001:2018

Certified Occupational Health and Safety Management System



ISO 9001:2015

Certified Quality Management System

PRODUCT PORTFOLIO

Over decades GTFIPL has built up expertise in manufacturing wide range of closed die hot forging and ring rolling products to address the growing needs of efficient and frictionless precision components i.e. transmission components, engine components, bearing components, etc.

- Washer**
- Pulley**
- Rotor rings**
- Gasket rings**
- Spacer rings**
- Inertia rings**
- Intermediate rings**
- Seamless rolled rings**
- Bearing races**
- Bearing holder**
- Bearing housing**
- Top & bottom cone**
- Hubs**
- Sleeves**
- Handle screw**
- Profile rings**
- Gear blanks**
- Pole wheels**
- Control disk**
- Synchro cone**
- Hubs for hi-low & intermediate shafts**
- Shaft collars with lock-nut**

MATERIALS

| CLASSIFICATION | EQUIVALENT GRADES | | | |
|---------------------------|-------------------|----------------|--------------|---------|
| | SAE | JIS | DIN | EN |
| HIGH CARBON STEEL | SAE 52100 | SUJ2 | 100Cr6 | |
| | | SUJ3 | 100CrMnSi6-4 | |
| LOW CARBON STEEL | SAE 1018 | S15/S15CK/S15C | | |
| MEDIUM CARBON STEEL | SAE 1050 | JIS S53/S50C | | |
| | SAE 1045 | S45C/S48C | | CK 45 |
| | SAE 1045 | S45C | | C 45 |
| | SAE 435 | SCM 435 | | |
| LOW CARBON ALLOY STEEL | | JIS SMnC420H | | 20MnCr5 |
| MEDIUM CARBON ALLOY STEEL | SAE 4140 | SCM 440 | | 42CrMo4 |
| | SAE 8620M | SNM220H | | |
| STAINLESS STEEL | SS 304 | SUS304 | | |
| | SS 304L | SUS304L | | |
| | SS 316 | SUS316 | | |
| | SS 316L | SUS316 L | | |

PRODUCTION FACILITIES

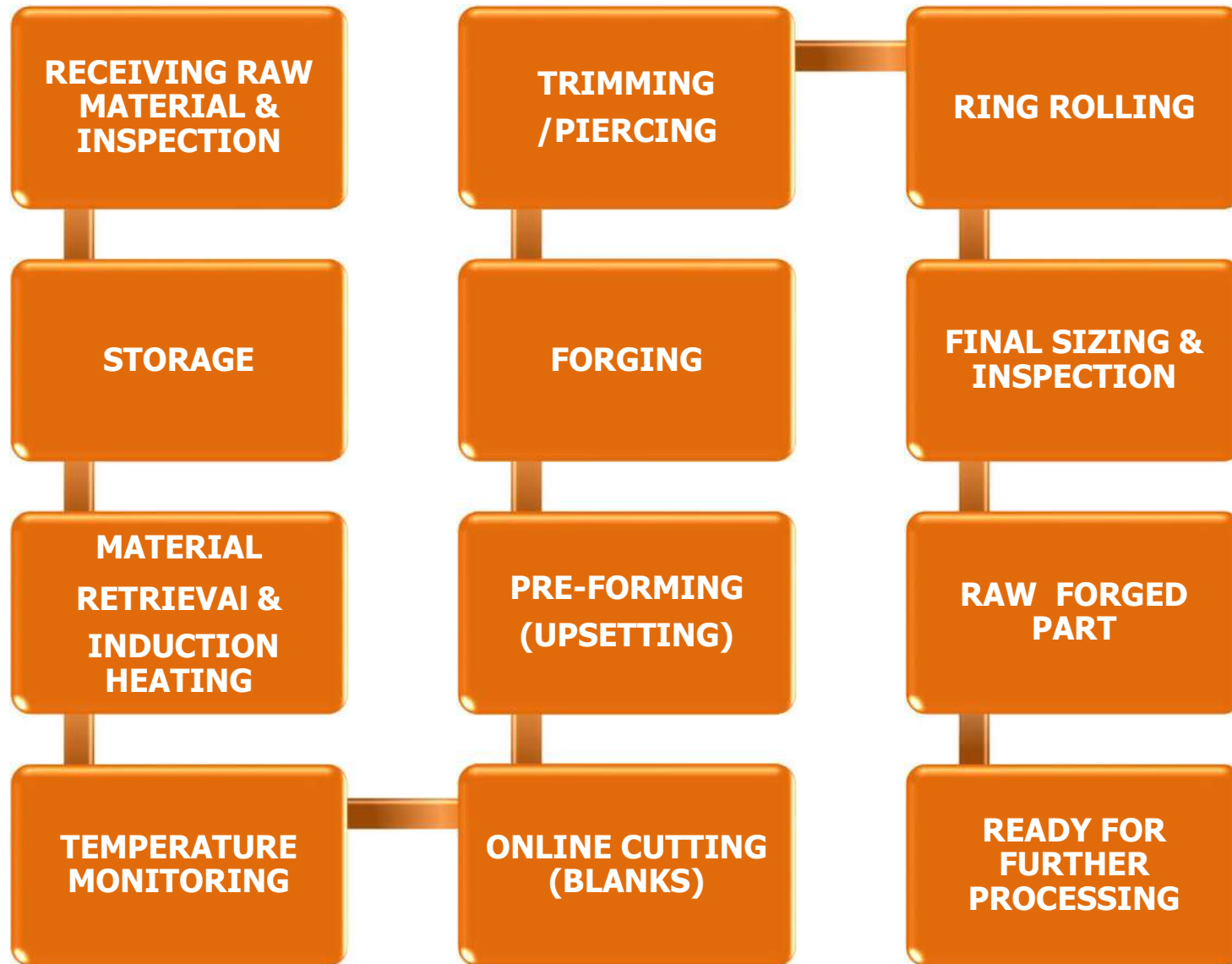
Ten lines consisting of combination of 5 friction presses & 5 ring rolling presses with dedicated induction billet heater forms the backbone of company's manufacturing capability and facilitates production of closed die hot forged parts and rolled rings.

Forging Specifications

- ❑ Annual production capacity : 11000 metric ton per annum
- ❑ Weight range: from 0.1kg to 50 kg per part
- ❑ Diameter range : min. ID 15mm to max. OD 500mm
- ❑ Operational rated capacity of hydraulic presses : **50 ton to 1000 ton**
- ❑ Associated hammer forging facility : belt drop hammer (2.5 ton) & pneumatic HUTA MPM hammer (3.0 ton)



FORGING PROCESS



HEAT TREATMENT SHOP

Galaxy's heat treatment shop is equipped with seven bell type electrical furnaces which facilitates spheroidized annealing and normalizing processes. After heat treatment, thorough inspection with in-house testing lab equipped with microscope (Olympus) and hardness tester ensures quality maintenance.



MACHINING SHOP

Machining shop is equipped with CNC (LMW) and VMC (LMW) machines carrying out variety of operations which helps in adding value to the part.

Striving to sustain perfect precision engineering in all the segments of production, Galaxy persistently works on new developments in machining process. Maintaining excellence in manufacturing standards while being cost effective is our secret key to customer satisfaction.



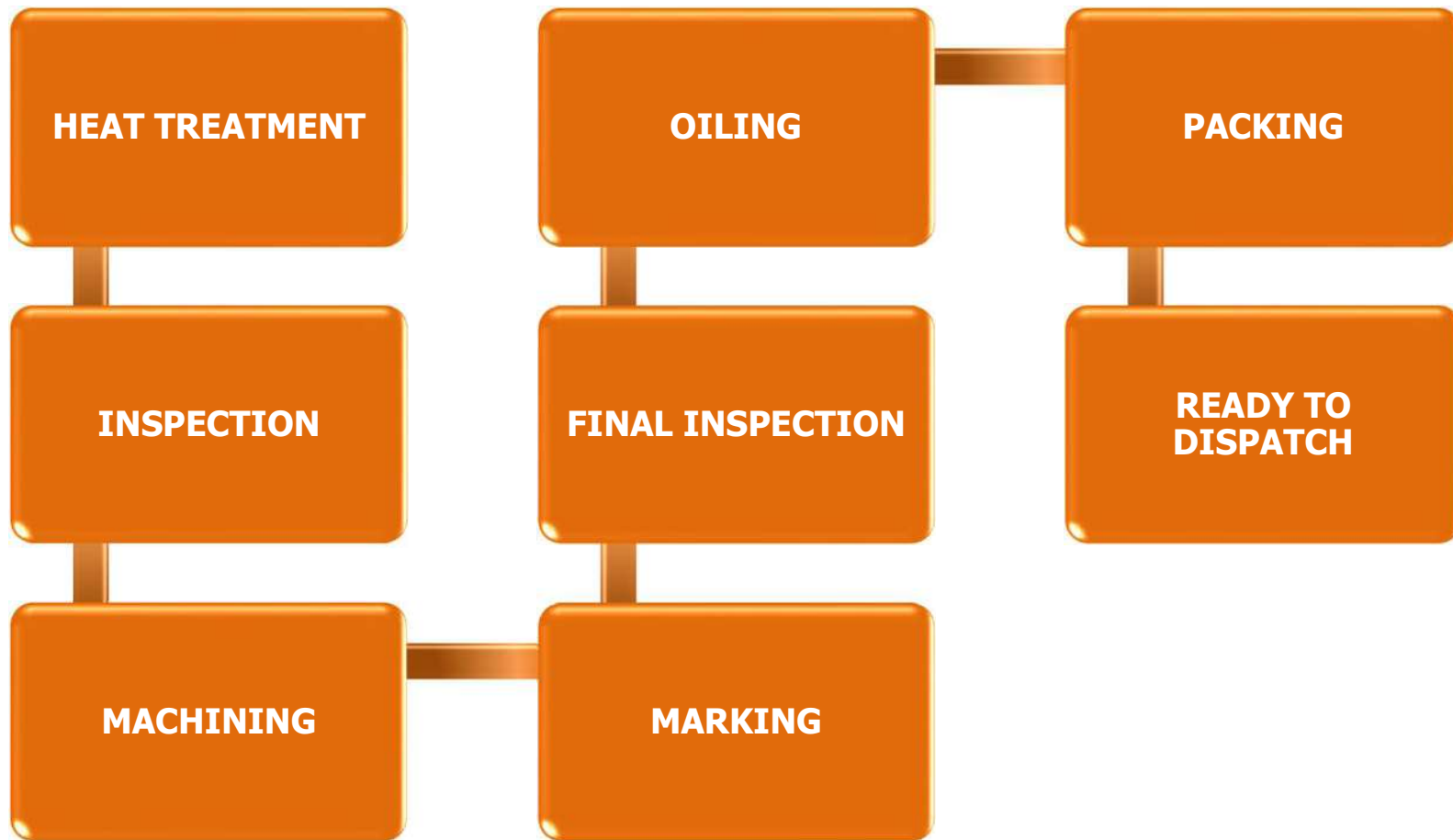
QUALITY ASSURANCE

Adhering to zero defect policy, series of well coordinated quality assurance activities are performed during the manufacturing of all the products at the plant to make sure the output conforms to customer's specifications.

The pool of high precision measuring instruments viz. microscope (Olympus), CMM (Mitutoyo), contour measuring device (carl Zeiss), MPI machine (Vinze Magnafield Controls), etc. forms the unshakeable foundation of quality of Galaxy products.



HT, MACHINING, QA & PACKING PROCESS FLOW



SUSTAINABLE INDUSTRY/ GREEN INITIATIVE

Galaxy uses **70% of green electricity** generated from the company owned & operated solar farm & wind turbine out of the total power consumption. We are proud & privileged to be able to make contribution towards a sustainable future.



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