

KOHLER®
IN POWER. SINCE 1920.

Kohler - Manufacturing plant, Aurangabad



Manufacturing plant – Aurangabad facility

- State of the art manufacturing facility for both Engines & Generators
- Started operation from 2007
- Land area – 50,737 m²
- ISO 9001:2015 and ISO 14001:2015 Certified Company
- Total Plant Head Count – 175 + employees
- Production:
 - ❖ Manufacturing of Engines: KD440, KDW702, KDW1003
 - ❖ Assembly of Genset: 3.5 kVA – 650 kVA

Plant Facilities

Standard Room & Metallurgy Lab

- CMM, Roundness tester, Roughness Tester, Gauge calibration
- Spectrometer, Salt Spray, Hardness Testing, Microscopes , Millipore

Testing Facility for development and Quality Assurance

- Application Engineering: Dedicated test cell for endurance and validation activity
- Quality Assurance: Dedicated test bed for quality and performance checks of engines

Machine Shop

- Horizontal Machining Centers
- Honing machines
- Vertical Machining Center

Flexible Assembly Shop

- Assembly lines and testing facility are flexible to accommodate 2, 3 and 4-cylinder variants without any setup change requirement

Inspection & Test Facilities: Standard Room



CMM

Details :

1. Make: Carl Zeiss, Germany
2. Range: 700x900x500mm
3. Least Count: 0.0001mm
4. Facility:
 - 3D measurement.
 - Continuous scanning facility.
 - GD&T (Geometrical Parameters) measurements.
 - Gear Measurement.



Roundness Tester

Details :

1. Make: Taylor Hobson, England
2. Range: 500mm
3. Accuracy: 0.5 μ m/500mm.
4. Facility:
 - Total CNC and programmable.
 - Roundness Parameters.
 - Cam Profile measurements.
 - Cam measuring facility.



Roughness Tester

Details :

1. Make: Taylor Hobson, England (with Ultra Software)
2. Range: 0-50mm
3. Facility:
 - Surface Parameters.
 - Cylinder Bore Honing Parameters.

Inspection & Test Facilities: Standard Room



Granite Surface Plate

Details :

1. Make: GMT
2. Range: 1000 x 1000 mm
3. Grade: 0
4. Uses:
 - For in-house Gauge Calibration



Dial Calibration Tester

Details :

1. Make: KIPL
2. Range: 0-25mm
3. LC 0.0002mm
4. Uses: Used for in house calibration...
 - Plunger Dial Gauge
 - Lever Dial Gauge
 - Bore Gauges.

Gauge Calibration System.

Wings Software:

- Total Gauges : 2198 Nos.
- Facility:
- Monthly calibration schedule.
- Data is maintained in soft.

Test Facilities: Metallurgy Lab



Spectrometer

Uses:

1. Chemical analysis for ferrous and non ferrous metal parts.
2. Total Elements can check:- 23 Nos.



Microscope with Image Analyzer

Details :

1. Make: Olympus
2. G x 41F Olysia M3
3. Facility:
 - Image Analysis & microstructure of components.



Micro Hardness Tester

Details :

1. Make: Mitutoyo
2. Range: 0.01-1Kg
3. Facility:
 - Microhardness of components.

Test Facilities: Metallurgy Lab



Crack Detector

Details :

1. Make: Kusam MECO
2. Range: 2000 AMPS, 700 Long, 80 Dia, Wt 75 Kg

Facility: Surface crack detection.



Millipore Test Equipment

Details :

Uses:

- Millipore test of critical components



Brinell & Rockwell Hardness Testers

Uses: Hardness testing of components



Inspection & Test Facilities



Profile Projector

Details :
1. Make: Mitutoyo



Salt Spray Testing Machine

Details :
1. Make:- Angelantoni Kasco Industries
Pvt. Ltd.

Engine Test facility



Test bed

Details :

1. **Make:** DYNOMERK CONTROLS (EDDY CURRENT DYNAMOMETER)
2. CAPACITY – 125 Nm / 75 HP
3. Model to be tested
 - FOCS 702 / 1003
 - Automatic testing

THANK YOU!