

## WORLD CLASS WORKSHOP FACILITY

**EPGL's workshop** equipped with high class machines and instruments of famous brands aiming to deliver world class workshop facility in the country. We have numbers of highly experienced engineers to deliver the following services for minor and major overhauling of small and large Diesel, Gas and HFO engines.

- Overhauling of cylinder head.
- Honing of cylinder liners.
- Maintenance of alternator including cleaning, varnishing and bearing replacement.
- Maintenance and repairing of Turbo-chargers.
- Servicing of different types of pumps.
- Servicing of fuel injector, fuel pump and lift pump.
- Inspection and polishing of crankshaft.
- Inspection, boring and machining of engine block and sleeve fitting.
- Inspection, servicing and repairing of radiators, charge air cooler, LO cooler etc.
- Reconditioning of spark plugs.
- Servicing of engine governors (actuator).
- Non Destructive Test (NDT)



## Honing Machine

Liner refurbishment by honing for longer service life:

- Honing processes rectify the shape of liner, remove scuffing and restores surface cross pattern.
- Honing is done to establish a shallow criss-cross pattern which helps keeping the cylinder and piston lubricated as the oil film is clinged better to the cylinder walls.
- We have capacity of honing for liners 150 mm to 480 mm bore.
- We do honing with world best honing machine.



## Surface Roughness Tester

- Precisely measure and map surface fluctuations on a specimen to a resolution of 1micron.
- Measuring range up to 150µm.
- Determine roughness and waviness parameters.
- Three dimensional and two dimensional profiles created as well as single line x/y traces.
- Surface protection material ensures measurement leaves no mark on work piece.



## Valve seat Lathe

The purpose of valve seat lathe is to machining the seat

- Range of operation 50 - 230 mm seat diameter
- Preset to any angle(s) from 0 to 50°
- Dowel locked to achieve correct angle
- Electrically driven
- Seamlessly adjustable machining speed



## Valve grinding machine

The purpose of valve grinding is to grind the valve face to an angle to match the valve seat.

- Operating range 6 - 50 mm stem diameter.
- Compact and sturdy, High precision grinding machine for all engine valves.
- Automatic grinding machine
- Electronic controlled angle settings
- Electrically driven.



## Bore scope

- Inspection of the area which is inaccessible by other means
- Visual & Industrial testing (VT)
- By and large to endoscope the combustion chamber of the engine for diagnosis without dismantling cylinder head.



## Bore Gauge

- It is used in the process of accurately measuring holes.
- By and large to measure bore of the cylinder, connecting rod, crank shaft, liner housing, flywheel hub, alternator bearing housing etc.
- Range : 50 mm - 450 mm

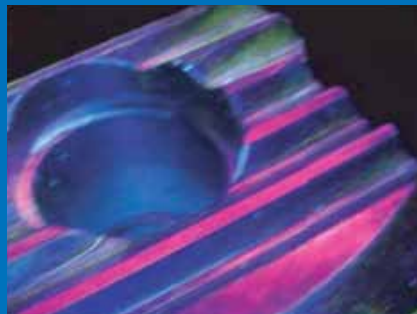
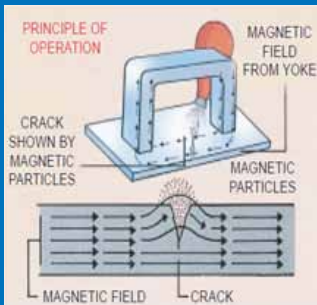
## Non Destructive Testing (NDT)

Checking crack of metal surfaces. Generally speaking, NDT applies different testing method for industrial inspection. We do:

- Magnetic particle testing (MT)
- Penetrant Testing (PT)
- Visual & Industrial testing (VT)

Advantages:

- NDT provides an excellent balance between quality control and cost-effectiveness.
- Can detect both surface and near sub-surface.
- Can inspect parts with irregular shapes easily.
- Fast method of inspection and indications are visible directly on the specimen surface.
- Consider low cost compared to many other NDT methods.
- Very portable inspection method.



## Dry Ice Blasting Machine

Use for servicing of alternator

- To blast dry ice and spraying over the alternator's rotor, stator and the other parts for cleaning.
- No electricity.
- Compact & mobile. 87kg/ 190 lbs only
- Low dry ice consumption
- No secondary waste
- Dry Ice reverts to natural CO2 vapor on impact
- Dry Ice is 100% water free.
- We do servicing of AVK, Stamford, Leroy Somer alternator, etc
- Capacity 11KV, 6.6KV, 0.4KV, etc



Before cleaning

After cleaning



## Fuel Injection Pump (FIP)

Use for overhauling of FIP:

- For calibration & Diagnose the problem of fuel injection pumps.
- We do overhauling of Bosch, Stanadyne, Delphi, ZEXEL, JCB, FORD, DENSO, CAV, etc. fuel injection pumps.



## Injector Test Bench

Use for servicing of Injectors:

- For calibration & Diagnose the problem of the fuel injectors
- We do following tests
  - VOP - Valve Opening Pressure test
  - Flush the nozzle
  - Tip leakage test
  - Orifice restriction test
  - Bleed screw leakage test
  - Atomization Check



## Woodward Test Stand

Test and calibration governor actuator

- Only Authorized Independent Service Facility (AISF) of Woodward in Bangladesh.
- We do overhauling, Calibration and Testing of different type of Woodward governors like UG, PG, SG, PSG and TG governor and actuators.
- Exclusive Channel Partner of Woodward in Bangladesh.



## Spark Plug Reconditioning

- Facility for reconditioning of all types of precious spark plugs developed with machineries brought from Germany.
- Almost all popular industrial precious metal spark plug can be remained by reconditioning.
- The comprehensive reconditioning process covers around 20 steps for a perfect result, including intensive inspection, analyzing, cleaning, leakage test, performance test, etc.



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