[^0]linkedin.com/company/ipco1997 (C) instagram.com/ipco1997 $\qquad$ t.me/ipco1997

## Mechanical Testing \& Material Lab



All of tests and services would be done according ASTM Standard．
IPCO material lab has ISO 17025 certificate by IRAN NACI．

## IPCO material laboratory are

equipped by advanced physical and
mechanical properties measurement devices and test rigs for metal and non－ metal－materials standard tests．Some of these testsare：

Standard Tension，Compression and Bending tests （Metals and Polymers）

Test Rigs for physical and mechanical properties of engine parts：Connecting Rod，bolts，chain，chain tensioner and belts．

Fuji paper test on sealing surfaces like as Cylinder head， Exhaust manifold．

Universal Hardness Test：
－Rockwell（A，C）
Brinell（62．5 to 250 kgf ）
－Vickers（ 0.5 to 10 \＆ 15 to 100 kgf ）
－Metallographic Investigation
－Optical microscope services －Coating studies

SEM services
－Stereo services

[^1][^2]

* Consulting services on material selection
* Age softening of Al Aluminum (piston, cylinder head)
* Working temperature determination (engine valve, piston, cylinder head)
* Standard determination
- Corrosion testing
* HCF (high cycle fatigue) \& LCF (low cycle fatigue) tests on Con-rod, valve, crankshaft, Piston, valve spring.
* Thermo - mechanical fatigue on cylinder head, valve cover.
* Acoustic emission test on valves, CNG cylinder.

Other services in the IPCO material lab:

* Failure analysis of road and different engine application (marine, aircraft, stationary and railway)

* Heat treatment (Ferrous and


## nonferrous)

* Density determination



[^0]:    in lin

[^1]:    C（＋9821）44520882－4 䭪（＋9821）44520880 1398813711
    푼뭄

[^2]:    （in linkedin．com／company／ipco1997（⿴囗）instagram．com／ipco1997
    t．me／ipco1997

