



# Genuine Cummins Cylinder Block

## #BadhoBefikar



The cylinder block is the largest main structure of the diesel engine containing the engine cylinders. It is the backbone of the engine.



### Features

- Carefully selected material composition - Grey Cast Iron
- Sand Blast surface treatment
- Bore honing (Cylindricity controlled within 15 microns)
- Optimised clearance between bore and piston ring
- Maximum bore distortion below 1 micron for accurate piston ring interference
- Quality casting with less porosity
- Reconditioning of critical features (like bore)



### Advantages

- High 'wear and corrosion resistance' with superior fatigue strength at higher temperature
- Compatibility with piston ring
- Reduced friction
- Lower wear
- Reduced load on piston ring
- Better sealing leading to no leaks
- No intermixing of gases, oil and coolant
- Capability to withstand the pressure of 172+ bar
- Improved lifespan of block
- Block bore can be controlled within 10 microns



### Benefits

- Higher durability with demonstrated life of 7 lakhs km
- Less than 0.04% of fuel consumption
- Better reliability
- Improved engine durability
- Lower Total Cost of Ownership



# Risks of Non-genuine Parts

- › Bore failure due to low water jacket wall thickness



- › Cracks due to poor casting material



- Poor casting material with high porosity leads to intermixing of oil, gases and coolant
- Higher unplanned downtime
- Higher maintenance cost due to incorrect bore tolerances leading to frequent piston ring changes



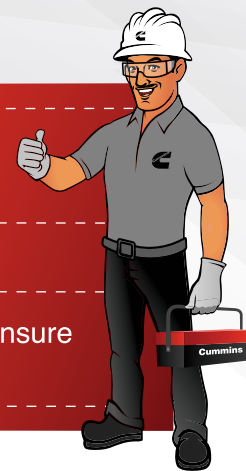
# Why use Genuine Cummins Parts



Demonstrated life of more than 7 lakhs km or 7 years

Developed through Analysis Led Design

2500+ hours of cumulative testing done to ensure premium quality of Genuine Cummins Parts



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