



New CTP Replacement Parts for Heavy Equipment

## CTP PERFORMANCE ENGINE PARTS

CTP® engine parts are designed and manufactured to work hard as an integrated system. We continually improve our techniques to ensure you get quality products with the best technology available in the market.

### Cylinder Heads

- Counter bored prechamber protects threads from combustion heat and shock.
- Manufactured to rigid tolerances for proper dimensions. Helps assure smooth sealing surfaces, no warping stresses, durability against cracking and wear.
- Proper machining of water outlet holes to help assure adequate cooling and easy installation.
- Rigid cleaning processes help assure internal passages are free of core sand and metal shavings.
- Loaded cylinder heads offer convenience.

### Liners

- Flanges are roll burnished in the radius for increased strength and to eliminate cracking.
- Induction hardened over full length to increase life and reusability.
- Bore Round over complete length which helps assure piston rings to conform to liner shape.



### Valves

- Friction Welding process ensures a permanent bond between face and valve body.
- Precision heat treatment provides optimal strength which prevents breaking or cracking.



### Piston Rings

- Correct chrome plate thickness makes ring last longer.
- Compression Rings made of high strength ductile iron.



Quality With Value Guaranteed™

## Designed to work hard



### Rods

- Forging process results in exceptionally high durability.
- Endurance Testing ensures durability



### Piston

- Made of eutectic aluminum silicon alloy for durability and fatigue resistance.
- Specially ground and tapered over full length. Expands to fit liner perfectly at operating temperatures.
- Controlled casting process ensures proper bonding.
- Special heat treatment modifies and improves the grain structure for added strength and durability.
- Hard anodized crown for low friction and prolonged wear resistance.



### Crankshafts

- Forged and precision machined from premium, high strength steel.
- All crankshaft are precision balanced, both statically and dynamically to provide long life.



### Engine Bearings

- Copper or aluminum bearing material based on variables unique to each engine system.
- Consistent wall thickness to help ensure proper clearance, uniform oil distribution.
- Consistent crush height for proper clearance and oil flow.

