

## Cylinder Liner Honing Services

Supporting reliable engine operations, longer component life, and lower maintenance costs through precision liner restoration





## Precision Cylinder Liner Honing

A cost-effective solution to restore liner performance and maintain engine reliability

The surface condition of the cylinder liner directly affects lubrication behavior, piston ring performance, and engine reliability.

Over time, glazing, bore polishing, wear edges, and geometric distortion can reduce oil retention and lead to abnormal wear patterns, increased oil consumption, or unstable engine operation.

BWSC Panama provides specialized cylinder liner honing services to restore the surface structure and correct geometry within OEM-defined limits. This process improves lubrication conditions and supports proper piston ring performance.

Honing can be carried out during scheduled maintenance, major overhauls, or as a rapid on-site corrective intervention. By restoring liner surface functionality, this service offers a cost-effective alternative to premature liner replacement while helping maintain stable and reliable engine performance.





## Performance and reliability benefits

Cylinder liner honing is recommended when the surface condition or liner geometry begins to affect lubrication efficiency or piston ring performance, even if maximum wear limits have not yet been reached. In many cases, proactive honing restores the liner surface structure before severe damage develops, helping stabilize engine operation, improve lubrication conditions, and extend component lifetime.

### Typical conditions indicating the need for cylinder liner honing

- Surface glazing or bore polish reducing oil retention
- Wear edges affecting ring travel
- Ovality, taper, or localized distortion
- Irregular liner or ring wear patterns
- Scuffing marks or micro-seizures
- Preparation for installation of new piston rings



### Why Cylinder Liner Honing Matters

By restoring the cylinder liner surface structure, honing improves lubrication conditions and helps extend component lifetime.

# What our cylinder liner honing service delivers

The purpose of cylinder liner honing is to re-establish proper oil film retention and controlled running-in conditions while maintaining the structural integrity of the liner. This process restores surface functionality and supports stable lubrication and piston ring performance.

## Services included to help extend lifetime of your components:

- 1 Surface cleaning and preparation
- 2 Dimensional assessment of ovality and taper
- 3 Controlled honing to restore cross-hatch pattern
- 4 Correction of minor geometric deviations within OEM limits
- 5 Final dimensional verification

## Applicable to two-and four stroke engine cylinder liners

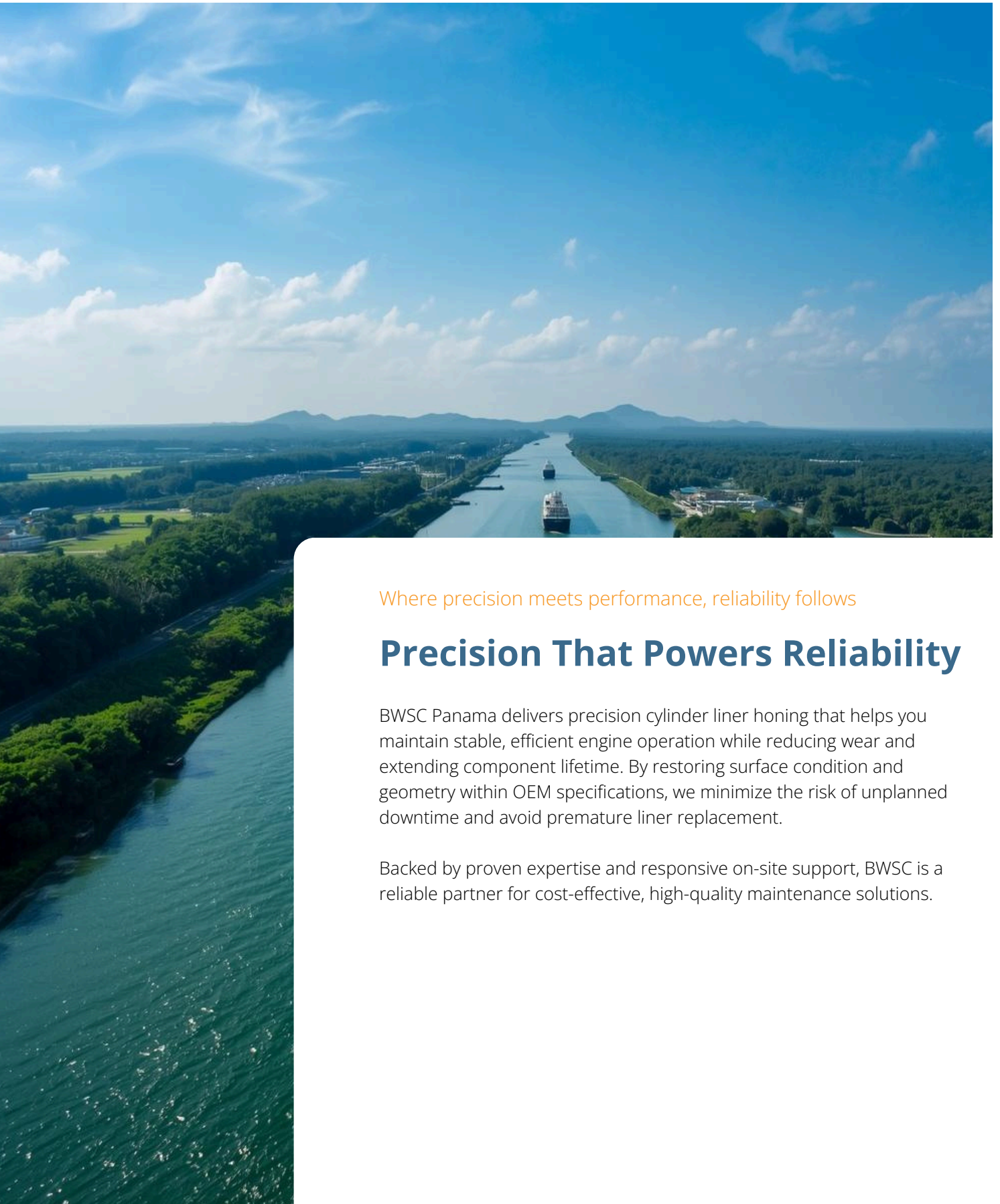
**Cylinder liner honing can be performed** in different operational contexts depending on your requirements:

- In controlled workshop environments
- Directly on-site during planned maintenance activities
- Rapid assessment when operational conditions require timely action

## Why work with us?

Through precision equipment, experienced technicians, and procedures aligned with OEM requirements, BWSC ensures consistent and reliable results. This approach helps customers maintain engine performance, extend component lifetime, and avoid unnecessary liner replacement.

Our honing services support a wide range of engine applications, including marine propulsion, power generation, and industrial engine installations, delivering a practical and cost-effective solution to keep critical assets operating reliably.



Where precision meets performance, reliability follows

## Precision That Powers Reliability

BWSC Panama delivers precision cylinder liner honing that helps you maintain stable, efficient engine operation while reducing wear and extending component lifetime. By restoring surface condition and geometry within OEM specifications, we minimize the risk of unplanned downtime and avoid premature liner replacement.

Backed by proven expertise and responsive on-site support, BWSC is a reliable partner for cost-effective, high-quality maintenance solutions.

# Operational Excellence

Operating in the Panama Canal requires precision, responsiveness, and reliable execution. BWSC Panama is structured to support time-critical marine and industrial operations where delays are not an option.

By combining advanced workshop capabilities with rapid on-site and onboard services, we ensure efficient project execution, minimized downtime, and seamless coordination from planning through completion.



## BWSC



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