

# JC CONSULTING

## FIELD SERVICES CAPABILITY STATEMENT

Specialist mechanical field services for mills, crushers, gear drives, renewals and rotating equipment.

### OEM-aligned technical execution

Shutdown support | Renewals | Precision services | Asset integrity

### Document

Company Service Information / Capability Statement

### Issue

Enhanced Issue

### Revision

Rev 1

### Date

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JC CONSULTING  
& SPECIALIZED SERVICES

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## Company Overview

JC Consulting provides specialist field services to the mining, mineral processing and heavy industrial sectors. Our capability is centred on critical mechanical equipment including SAG Mills, Ball mills, crushers, girth gear drive systems, rotating machinery and associated auxiliary systems. We support clients across the full equipment lifecycle - from installation and shutdown execution to inspection, renewal, alignment, fault investigation and return-to-service verification.

Our field teams combine practical site experience with disciplined inspection methods and OEM-aligned work practices. This wider service perspective positions JC Consulting not only as a shutdown contractor, but as a technical field partner focused on reliability, risk reduction, asset integrity and execution quality.

### Field Execution

Shutdown-ready teams, planned maintenance and urgent breakdown response for critical plant equipment.

### Technical Precision

Alignment, measurements, inspections, verification and quality control rooted in sound mechanical practice.

### Lifecycle Support

Support spanning installation, renewal, corrective works, reporting, close-out and reliability improvement.

## Core Service Categories

- Mill and crusher installation, assembly supervision, and commissioning readiness.
- Shutdown execution, outage support, and site mechanical labour for critical-path activities.
- Detailed inspections and condition assessments on mills, crushers, drive trains, and lubrication systems.
- Head and trunnion renewal, including removal, fitment, alignment, and verification.
- Girth gear renewals, fastener verification, backlash checks, tooth contact review, and gear train restoration.
- Gear alignment, laser alignment, and dynamic balancing of critical rotating equipment.
- Journal grinding and restoration services for worn or damaged journals.
- 3D scanning services for dimensional capture, installation verification, fit-up analysis, and as-built condition assessment.
- Vibration analysis, motion amplification, and strain gauging to support fault diagnosis, structural response assessment, and reliability improvement.

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- Apron feeder and vibrating grizzly feeder inspection, renewal, installation support, and mechanical alignment services.
- Critical fastener services including torque verification, elongation checks, and tightening sequence reviews.
- Failure investigation, problem diagnosis, and corrective maintenance recommendations.

## What Differentiates JC Consulting

- OEM-level field presentation with specialist contractor responsiveness and accountability.
- Strong focus on measurement accuracy, fitment quality, verification discipline, and practical closure.
- Experience-driven shutdown planning supports direct site awareness and execution realism.
- Technical reporting structured for maintenance managers, project teams and client representatives.
- A broader reliability perspective that links field work to equipment life, downtime reduction, and safer return to service.

## Field Services Portfolio

### Installation and Commissioning

Mechanical installation support for mills, crushers and associated equipment, including assembly checks, fit-up verification, alignment support, torque control and pre-commissioning mechanical verification.

Mill and crusher installation methodology aligned to shutdown interfaces, access constraints and commissioning readiness.

### Head and Trunnion Renewals

Controlled removal and renewal of heads and trunnions with close attention to structural integrity, mating surfaces, fitment quality, alignment and safe return to service.

### Girth Gear, Drive Train Renewals and Alignments

Removal, replacement and alignment of girth gears and related drive components, including mounting face inspections, segment fit-up, backlash verification, tooth contact considerations and final alignment checks.

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## Precision Services

**Laser alignment** of motors, gearboxes, pinions, couplings, pumps and auxiliary drives to reduce vibration, improve mechanical efficiency and extend component life.

**Dynamic balancing** of rotating assemblies and equipment to improve running stability, reduce loads on bearings and structures, and support overall machine reliability.

**Journal grinding services** to restore worn or damaged journal surfaces and improve bearing contact, serviceability and operating confidence.

**3D scanning services** for housings, bases, mounting interfaces and critical components to support dimensional verification, reverse engineering inputs, installation control and documented as-built records.

**Vibration analysis services** to identify imbalance, misalignment, looseness, resonance and bearing-related conditions on mills, crushers, gear drives, feeders and auxiliary equipment.

**Motion amplification studies** to make dynamic machine and structural movement visible, helping clients understand vibration behaviour, support condition changes and targeted corrective actions.

**Strain gauging services** for selected structural and mechanical components where load response, stress trends or operating behaviour must be measured to support engineering decisions.

## Feeders and Material Handling Equipment

Field service support for apron feeders and vibrating grizzly feeders, including inspections, renewal planning, mechanical repairs, installation, alignment checks and condition-based recommendations for reliable material handling performance.

## Inspection and Technical Reporting

Structured field inspections supported by observations, dimensional checks, photographs, condition notes and practical recommendations for repair, monitoring or replacement.

## Service Approach

Our service approach is structured to support safe mobilisation, accurate inspection, controlled execution and clear close-out reporting. From the first scope review to final verification, JC Consulting focuses on disciplined field practices that improve work quality, reduce rework and support reliable equipment return to service.

#	Stage	Service Focus
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1	Plan	Scope review, shutdown integration, access planning, manpower readiness and risk awareness.
2	Inspect	Visual checks, measurements, condition verification and capture of critical findings.
3	Execute	Removal, renewal, fitment, alignment, balancing or corrective work execution.
4	Verify	Torque checks, float or backlash confirmation, alignment validation and final inspection.
5	Report	Close-out documentation, findings register, recommendations and return-to-service support.

## Industries Served

JC Consulting supports clients across multiple heavy industrial sectors where critical rotating equipment, shutdown performance and asset reliability are central to production success.

- Mining and Mineral Processing Operations
- Gold, base metal, and concentrator plants
- Cement and bulk materials handling facilities
- Heavy industrial processing plants

### Primary Equipment

- SAG mills
- Ball mills
- Crushers

### Typical Work Environments

- Shutdowns and planned outages
- Breakdown response scopes
- Capital installations and upgrades

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- Girth gear and pinion assemblies
- Mill drive gearboxes
- Lubrication and auxiliary systems

- Renewal and corrective maintenance campaigns
- Site inspections and reliability assessments
- Brownfield mechanical improvement work

## Value to Our Clients

Clients engage JC Consulting when they require specialist field support that must be both technically defensible and practically executable on site. Our value proposition extends beyond labour supply: we help protect asset integrity, control shutdown risk and return equipment to service with confidence.

- Reliable site execution under demanding shutdown and production conditions.
- Professional inspection reporting suitable for maintenance planning and client review.
- Precision and diagnostic services that directly influence equipment life, vibration performance, structural integrity, and alignment quality.
- Flexible mobilization and direct communication with the people executing the work.
- Broader technical perspectives support better maintenance decisions and reduced repeat failures.

## Commitment

JC Consulting is committed to delivering professional field service support that reflects high technical standards, safe execution and accountable workmanship. Our objective is to help clients improve asset reliability, reduce downtime, and complete inspections, renewals, alignments and installations with confidence.

We aim to be a specialist field partner that combines disciplined execution with practical site awareness, giving clients the confidence normally associated with major OEM support teams while retaining the agility and direct accountability of a focused service business.

For the South African market, JC Consultants is a Level 3 B-BBEE rated company.

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