

# Capabilities Overview

Market leader offering comprehensive engineering expertise, experience and problem solving for a full range of industrial rotating equipment

**SPM™ Oil & Gas**  
A Caterpillar Company



At SPM™ Oil & Gas, Inc. (SPM™), we are focused on the needs of our customers. We make decisions based on their challenges and their objectives. We understand that operators are faced with rigorous schedules, tight budgets and an evolving market that requires adaptability, leading technology and a strong service support to meet the demands of our industry.

We're not in the business of guiding you towards a one size-fits-all solution or providing generalized guesswork like some. Our offerings are backed by service capabilities that are dedicated to you and your rotating equipment repair needs. All of our service technicians are highly experienced, delivering the highest quality to customers and approach every job with an engineering mindset to everything from basic repairs to integrated on-site operational support. With SPM™, you're getting global pressure control expertise that offers rotating equipment repair as well as a customized, locally focused support system.

## SERVICE CENTER CAPILITIES

### EDMONTON, ALBERTA, CANADA

- 90,000 sq ft facility

#### Lifting

- 40 ton overhead crane capacity
- 125 ton portable gantry crane capacity

#### Turning

- Up to 52" swing, 35' long
- CNC Lathe Swing to 28" swing x 72" long

#### Milling

- 10' vertical x 14' horizontal, digital read-out, 120" x 96" rotary table
- CNC Milling up to 10,000 lbs capacity

#### Boring

- HORIZONTAL 10' vertical x 14' horizontal x 10' cross travel, digital read-out, 120" x 96" rotary table
- VERTICAL Maximum diameter of 144" x 72" high

#### Grinding

- INTERNAL CYLINDER 15 ton capacity, 1" diameter and 6" minimum depth, diameter up to 8' and maximum depth of 4'
- EXTERNAL CYLINDER 13.5 ton capacity between centers, 64" swing, 20' long

#### Coatings

- SPRAY Surface build-ups and hard coatings including HVOF/Tungsten, Ceramics and Stainless Steel
- EXTERNAL AND INTERNAL 110" diameter Plasma metalizing unit (depending on type of coating)

#### Babbiting

- Spun cast, static pour or spray, new bearing manufacturing; journal and thrust pad

#### Balancing

- 50 lb. to 16,000 lb. capacity, 112" diameter swing, 255" maximum length between bearing supports

#### Press

- 150 tons vertical, 600 tons horizontal

#### Welding/Fabrication

- Pressure welding to ASME Sec. VIII, Div. 1 (general welding to comply with CSA W59)



## FIELD SERVICE/ON SITE CAPABILITIES:

### Installation and Commissioning

- Pre-delivery inspections
- Alignment
- Preservation

### Machining Services

- Surface milling
- Align boring
- Flange facing
- Stud removal
- Surface grinding

### Dimensional Inspection Service

- Component re-engineering
- QA/QC confirmations

### Equipment Train Alignments

- Rotary equipment, reciprocating equipment
- Balancing / Vibration analysis

### General Millwright Services

- Minor/Major shutdowns

### Precision Measurement

- FARO laser tracker
- FARO precision arm
- Leica optical level

### Technical Bolting

- Tensioning
- Torquing

## GROUTING AND FOUNDATION REPAIRS

### Lifting

- 125 ton portable gantry crane capacity

### Rotary Drum repair and Maintenance

- Alignment
- Tire/ trunnion repair/grinding
- Drive line repair/replacement
- Interiors

## IN SITU REPAIR AND MAINTENANCE OF ALL TYPES OF EQUIPMENT

### FIELD SERVICE

Along with our experienced Rotating Equipment Field Technician specialists, our Project Managers provide 24/7 service.

## ON-SITE SERVICES: ROTARY DRUM REPAIR AND MAINTENANCE SERVICES

### Alignment

- Trunnion to tire alignment
- Re-establishing centerlines
- Drum angle
- Pinion to ring gear alignment
- Gear boxes
- Drive system alignment

### Tire/Trunnion Repair

- Removal and installation
- In situ grinding
- Off site trunnion repair

### Drive Line

- Chain sprocket replacement
- Gear replacement
- Gear box repairs/replacement
- Drive motor bearing inspections

## AUTHORIZED TO:

- Construct, Repair/Alter ASME B31.1 Power Piping and ASME B31.3 process piping
- Manufacture, Repair/Alter Category B & C fittings in accordance with CSA B51
- REG #AQP-2806
- Certifications 2015  
ISO 9001 Certified, API 6A, API Q1

## CERTIFICATIONS:

- ISO 9001:2008
- ISO 9001:2015
- CoR Certification conform
- API 6A, API Q1
- ABSA



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