



SOLUTIONS PMG *Inc.*
PROJECT MANAGEMENT GROUP



**We Offer Engineering Services and Innovative Technology
Designed to Improve The Efficiency of Your Steel Mill**

Areas of Expertise Include:

- **Modeling and Simulation of Steel Mill Process**
- **Custom Pattern Making for Mill Accessories**
- **Casting & Machining Type 4130 Steel, Ductile Iron & Other Alloys**
- **Custom Designed & Fabricated Mill Accessories**
 - **Guides**
 - **Strippers**
 - **Cooling Beds**
 - **Rougher Plates / Cages**
 - **Rest Bars**

Solutions PMG is a process design and project management company, focused on providing industry with a single source for innovative technology and manufacturing process solutions.

The core component of *Solutions PMG* is comprised of a team of senior engineers and technical administrators. We employ a unique strategy of bringing together industry leading manufactures with experienced engineering associates, to design and implement new technology. This integrated structure will allow clients' with limited engineering and manufacturing resources, the ability to enhance their process management and improve their productivity, safety and profitability.

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Your Vision ↔ Our Mission



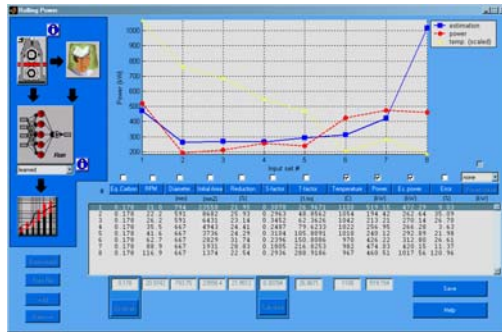
BENEFITS OF OUR EXPERTISE

Solutions PMG has extensive experience in the design and fabrication of innovative accessories and equipment to optimize the steel mill process. We are well aware of the challenges facing steel mills and processors as they attempt to improve quality and production yields while providing a safe environment for their employees. Our design and engineering specialists are ready to help you achieve the desired results.

ENGINEERING SERVICES

1. Modeling & Simulation

Are you utilizing the power for your mill efficiently?



Solutions PMG has designed a modeling and simulation program that can accurately predict the power consumption of any shape in the rolling process. This is achieved by using neural networks and a new concept for quantifying shapes.

As a result, we can decrease your operating costs by optimizing the power consumption at each station.

2. Design and AUTOCAD Drawing

- Solutions PMG offers a single source for the concept and final design of a complete integrated system intended for your specific needs
- Solutions PMG will prepare conceptual, design and detail drawings
- All drawings are prepared with the latest version of Autocad with 3-D capability
- Member of Association of Professional Engineers of Ontario

Single Source Provider From Conception

Completion



PROJECT MANAGEMENT

- Define the project parameters
- Generate feasibility studies to support project parameters
- Develop plant and process conceptual design
- Prepare budget estimates for project
- Prepare project scheduling to minimize downtime
- Obtain required approvals, licenses and permits
- Prepare, issue and review tenders, quotations and contracts

PROCUREMENT & MANUFACTURING OF EQUIPMENT & SYSTEMS

At *Solutions PMG* we believe that the ability to cast large parts is contingent upon the pattern quality. A clear understanding of the drawings, casting process and the expertise of the pattern maker will ensure a cost effective, high quality product. *Solutions PMG* will provide the following services to reflect this philosophy:

- Source, pre-qualify and select subcontractors to ensure their expertise matches the specific requirements of the project
- Audit subcontractor's quality control programs to ensure equipment and installation will meet or exceed project specifications
- Monitor subcontractor's production schedule to confirm delivery dates will be achieved.
- Casting on ductile iron and steel alloys such as 4130
- Castings up to 44,000 lbs
- Precise machining with few dimensional restrictions



DISPOSABLE FOAM PATTERNS



WOOD PATTERNS



QUALITY ASSURANCE / QUALITY SURVEILLANCE

Solutions PMG recognizes that there is no substitute for high quality, precision casting. We further understand the value of the implementation of a quality assurance program to ensure specified tolerances are achieved.

1. Visual inspection and manual tolerance checks
2. Access to CMM technology for the verification of dimensional tolerances
3. Comprehensive NDT Inspection capabilities
4. Chemical analysis

Solutions PMG is committed to delivering the highest quality Solutions and Engineering Services to improve your steel mill process. Our goal is to help you realize the following benefits:

- √ Reduced Project Time & Cost
- √ Improved Process and Quality
- √ Minimize Production Downtime



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