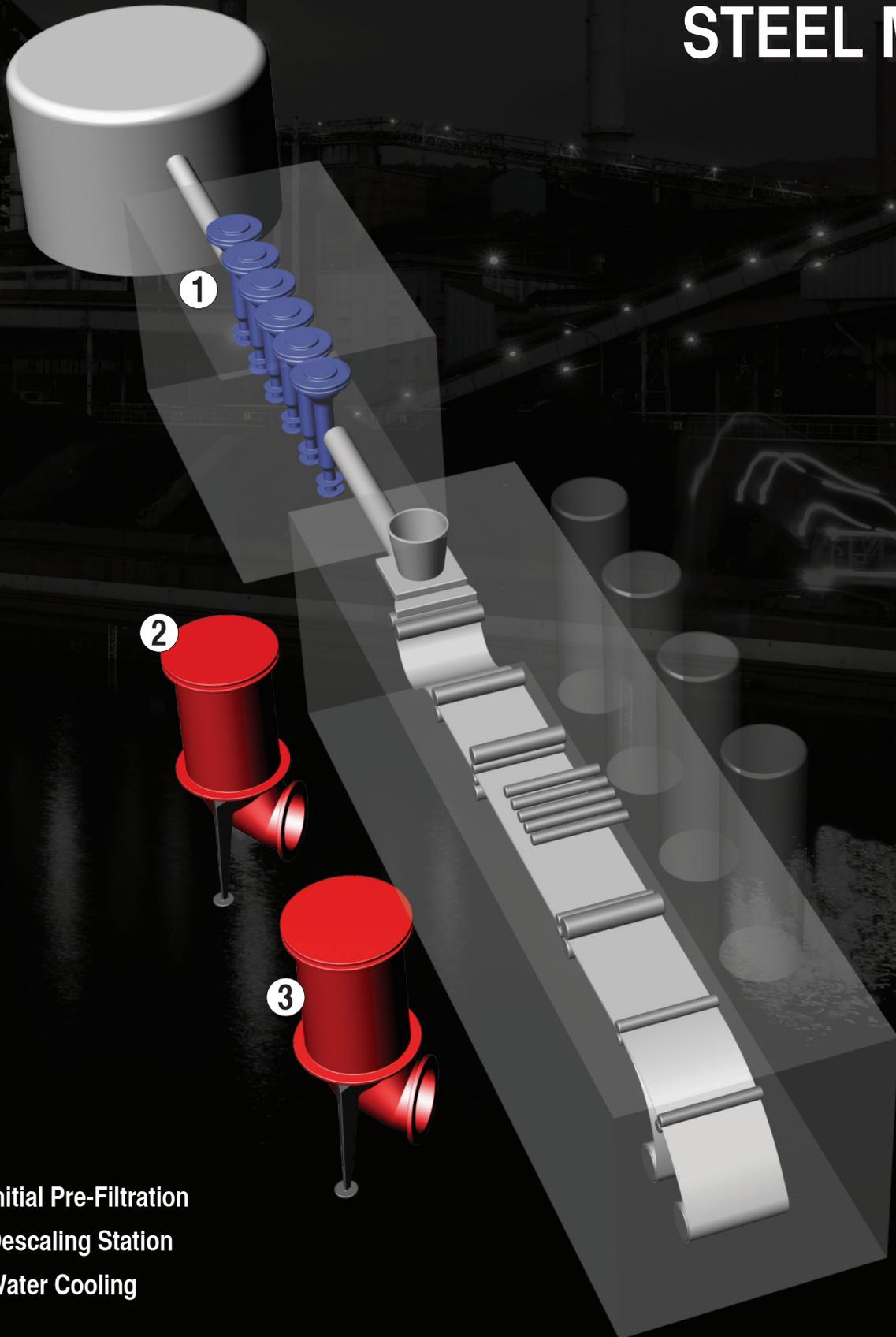


*Solutions for*  
**WATER AND PROCESS FILTRATION:  
STEEL MILLS**



- ① Initial Pre-Filtration
- ② Descaling Station
- ③ Water Cooling

## Solutions for WATER AND PROCESS FILTRATION: STEEL MILLS

The modern steel mill, from the ladle to the coilers, is a marvel of large-scale industrial precision. Water plays an essential role in this process, first acting as a descaling agent that removes oxidation and other surface impurities from the steel. Later, water acts as a coolant that regulates the steel's temperature in preparation for further shaping and forming. Since water is a finite resource and its use becomes increasingly regulated and controlled within industrial processes it is essential for steel mill operations to implement safe and efficient treatment protocols. The descaling and cooling systems consist of a complex series of pipes, pumps, valves, and nozzles, all of which are vulnerable to impurities in the water. Morrell offers state-of-the-art closed-system water and process filtration solutions for the steel milling process, which translates to less downtime and better product. Our experience, paired with the latest components from our supplier partners, ensures that our customers stay ahead of the curve in terms of quality and efficiency in this incredibly competitive industry.

### **Engineering, Manufacturing, & Quality Support:**

- Facility Planning
- Process Planning
- Product Planning
- Reverse Engineering
- Laser & White Light Scanning
- Ergonomic Studies
- Virtual Prototyping
- Component Sizing & Selection
- Engineering Support
- Manufacturing
- Electrical Engineering
- Field Wiring
- Electrical Control & Panel Design
- Full System Installation

### **Solutions for Water and Process Filtration: Steel Mills:**

- Safety
- Initial Pre-Filtration
- Descaling
- Water Cooling

### **Engineering & Build Standards:**

- UL Certified
- NFPA
- CE
- CUL
- OSHA
- 2003 ISO 9000/2000
- 2004 TE 2000
- 2006 ISO 9001:2000
- 2009 ISO 9001:2008

### **Collaborators**

**morrell**

**stegner**  
controls

**WESS**  
VIRTUALLY DERIVED. EFFICIENTLY APPLIED.

**HYDAC**