



Keeping it **Flowing**

KEY CHALLENGES IN IRON ORE MINING & PROCESSING

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PROBLEMS



- ***First Problem***

Material Blockages & Build-up:
Iron ore fines, lumps, and slurries tend to cause arching, ratholing, and compaction in silos, hoppers, and chutes. High moisture content in ore can lead to severe sticking and clogging issues.

- ***Second Problem***

Wear & Tear of Equipment:
Harsh abrasiveness of iron ore leads to excessive wear in bins, chutes, and transfer points. Frequent maintenance and downtime can disrupt operations.

- ***Third Problem***

Reduced Flow Efficiency:
Variations in particle size and moisture content make consistent material flow difficult. Dead zones and slow discharge rates lower productivity.

- ***Fourth Problem***

High Energy Consumption & Safety Concerns:
Manual intervention for blockages poses safety risks. Energy-intensive mechanical solutions (e.g., vibrators) may not be efficient for large-scale operations.

HOW OUR FLOW-AID SOLUTIONS CAN HELP:

- 1. AirMace is the only air cannon on the market capable of operating in the most severe conditions, handling pressures above 8 bar with unmatched reliability.
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- 2. Similarly, Silo-Flow is the only high-pressure cannon designed to function at extreme pressures of up to 200 bar, ensuring material flow even in the most challenging industrial environments. No other products on the market offer this level of performance under such demanding conditions.





WHY CHOOSE THE AIRMACE AIR CANNON?

**It is more effective and
powerful with a unique
ability to operate at
pressures up to 600 psi**

**It consumes much less
air**

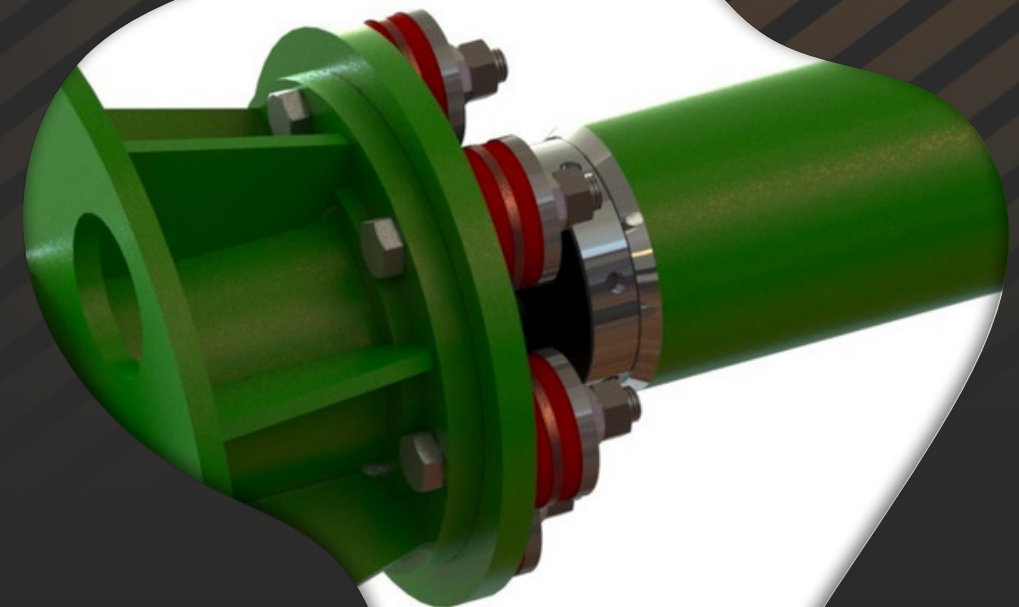
**Because no other air cannon can satisfy
your needs more than AirMace**



WHY CHOOSE THE SILO-FLOW CANNON?

Stronger impact to break tough material build-up in high-density iron ore applications.

Suitable for high-capacity silos and processing plants where conventional air cannons may be insufficient

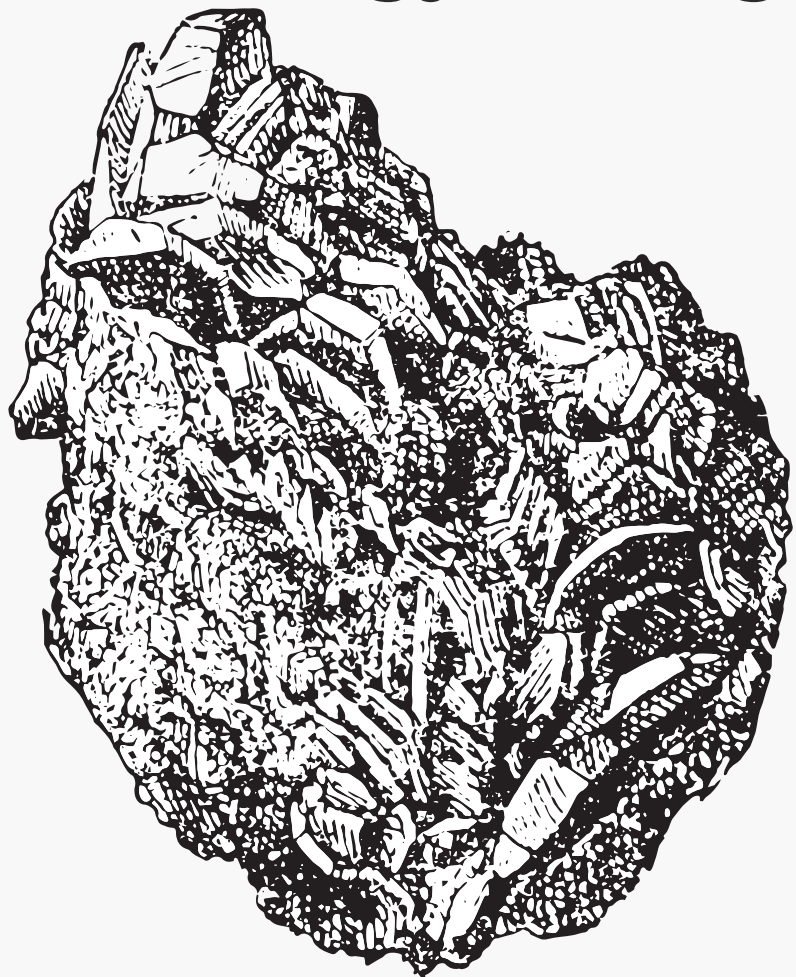


up to 3000 psi



Key Benefits for MSPL Limited:

- ✓ **Improved Material Flow Efficiency** – Reduced blockages increase production rates.
- ✓ **Lower Maintenance Costs** – Less wear and tear on equipment extends operational life.
- ✓ **Enhanced Safety** – Eliminates the need for manual intervention in hazardous areas.
- ✓ **Energy Savings** – More efficient air usage compared to alternative mechanical solutions.





**THANK YOU
SO MUCH!**