



VORTEX Technology Inc.

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Company Overview

Vortex Technology Inc. is a leading proprietary patented technology company that provides revolutionary solutions to the mining and mineral processing industry.

Our dry air concentrators (DAC), employ state of the art Vortex patented technology. This technology is environmentally friendly and provides significantly reduced cost versus standard processing. Our innovative technology utilizes no water and no chemicals to recover valuable minerals

Patented Technology-
Multiple Patents Granted,
Filed, or Pending
Worldwide

Technology Applications:

- Gold & Precious Metals
- Rare Earth Elements
- Base Metals
- Coal Cleaning

Vortex Technology

Patented Technology with over 20 Years of R&D

Current Generation of Technology is ready for Commercialization.

Technology has been demonstrated at Laboratory, Pilot and Production Scale



Industry Problem

Environmental

- **Water Scarcity is the #1 issue facing miners. Individual companies are Spending Millions on Water Recycling & Water Delivery**
- **Tailing Impoundments- These are subject to Rupture and Subsequent Groundwater Contamination**
- **Use of Chemicals to Process Mineral Bearing Ores**

Economic

- **Stranded Valuable Minerals – Assets left in the ground due to no water**
- **Desalination plants cost Billions and the Waste from these plants produce Environmental Havoc**
- **Fresh Water is a Commodity**



The Solution

Vortex Technology Inc's Patented Technology

- Dry Air Concentration (DAC)

Environmental

- NO WATER
- NO CHEMICALS
- NO Tailing Ponds



Economic

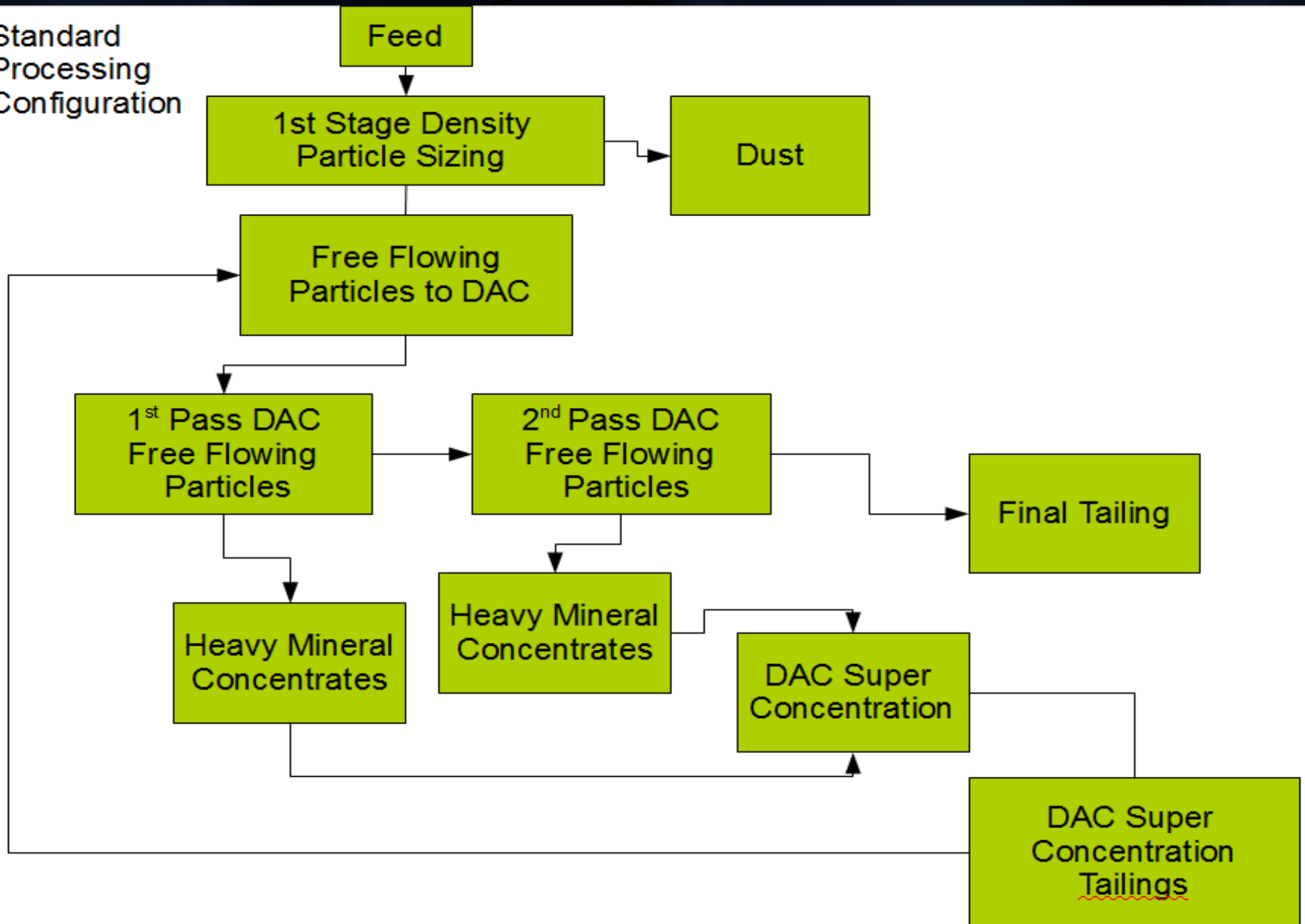
- Stranded Valuable Metals can Now be Recovered
- NO Costly Desalination plants
- CSR- Enhanced Corporate Social Responsibility



DAC Efficiency

- Lower Overall Capital Costs
- Lower Operating Cost
- Relatively Low Energy Use
- Installed in Series
- Fast Response Time To Change Parameters
- Rapid & Easy Start Up and Shut Down
- Reduced Site Rehabilitation
- Minimized Environmental Liability
- Added Valuation to Water Stressed Deposits

Standard
Processing
Configuration



Successfully Demonstrated

- 20 years of R&D Testing
- Several 1000's Tons successfully Processed
- Gold
- Silver
- Copper
- Rare Earth Oxides
- Barite
- Lithium
- Coal Cleaning

<u>Project Description</u>	<u>Recovery Percentage</u>	<u>Target Mineral/Metal</u>
<u>Sothorn Nevada tailings</u>		
Arizona Placer	98.23%	Gold
Peruvian Placer	70.30%	Gold
Nevada Placer	95.00%	Gold
South American Placer	95.00%	Gold
Arizona Mine Tailings	94.74%	Silver
Gold Crown Lode	78.50%	Gold
Southern Nevada Lode	83.00%	Gold
Southern Nevada Tailings	78.62%	Base Metals
Darwin Tailings	72% Zn, 66% Pb	Base Metals
Rare Earth Lode	79.34%	REO
Rare Earth Placer	83.50%	REO

Mineral Recovery by DAC

Goals Attained

- Patented Technology
- Successfully Demonstrated
- Dust free dry method of mineral concentration
- Vastly improved efficiency compared to early generations of the Technology



Economic Comparisons



- Operation cost are Lower than traditional Concentration Methods.
- DAC as a 1st Stage Concentration Tool can reduce Secondary Processing Costs, thus lowering the overall processing cost
- Small Footprint
- No Tailings impoundment to rupture or leak
- Much Less Reclamation Work Needed
- Adds Valuation to Water Stressed Projects
- No costly pumping or reclaiming of water

Commercialization Strategy

Target Deposits For Technology Implementation

- Water Stressed Regions
- Jurisdictions that have banned Cyanide
- Abandoned waste piles
- Projects and Companies looking for “Green” alternatives



Stranded Valuable Metals

Now Recoverable in Water Stressed Regions with
Vortex Technology's DAC



- 4 severely water stressed Countries are: Chile, Australia, South Africa, Uzbekistan
- These 4 countries have 22 Million Tons of Gold Reserves in the Ground
- If 5% of those metals are left behind (or Stranded) due to water issues
- That would be 1.1 Million Tons of Gold or almost \$40 Trillion Dollars
- DAC is suitable for All Precious Metals, Copper, Rare Earth Elements and many more

Conclusion

- **Water Scarcity is the #1 issue facing miners. Individual companies are Spending Millions on Water RECYCLING & Water DELIVERY**
- **The Problem is real and DAC technology is the solution**



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