

Mining & Mineral Processing

Fluid Handling Solutions from ITT



ITT

Engineered for life

motralec

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Improving Plant Profitability

Increased UPTIME
Of your process

Decreased MAINTENANCE
Activities

Decreased ENERGY
Costs

Monitoring & Control

PumpSmart

Advanced pump Control, Protection and Optimization logic designed to improve overall reliability efficiency of your process systems.



ProSmart

Predictive Condition Monitoring that provides a cost-effective solution to maintaining uptime on all of your rotating equipment.



3196 i-FRAME

Integrated Condition Monitor constantly measures vibration and temperature at the thrust bearing. Colored LED's indicate general pump health. Provides early warning of improper operation before catastrophic failure occurs.



Plant Performance Services

Product Repair

PRO Services® repairs ALL brands of pumps and rotating equipment. No need to source different product specialists depending on the equipment.

- Service Center Repair
- Turnkey Repair/Installation
- Emergency Service

Reliability Services

ITT provides reliability improvement programs to extend equipment life and lower maintenance costs.

- Predictive Condition Monitoring
- Root Cause Failure Analysis
- Engineered Upgrades
- Training

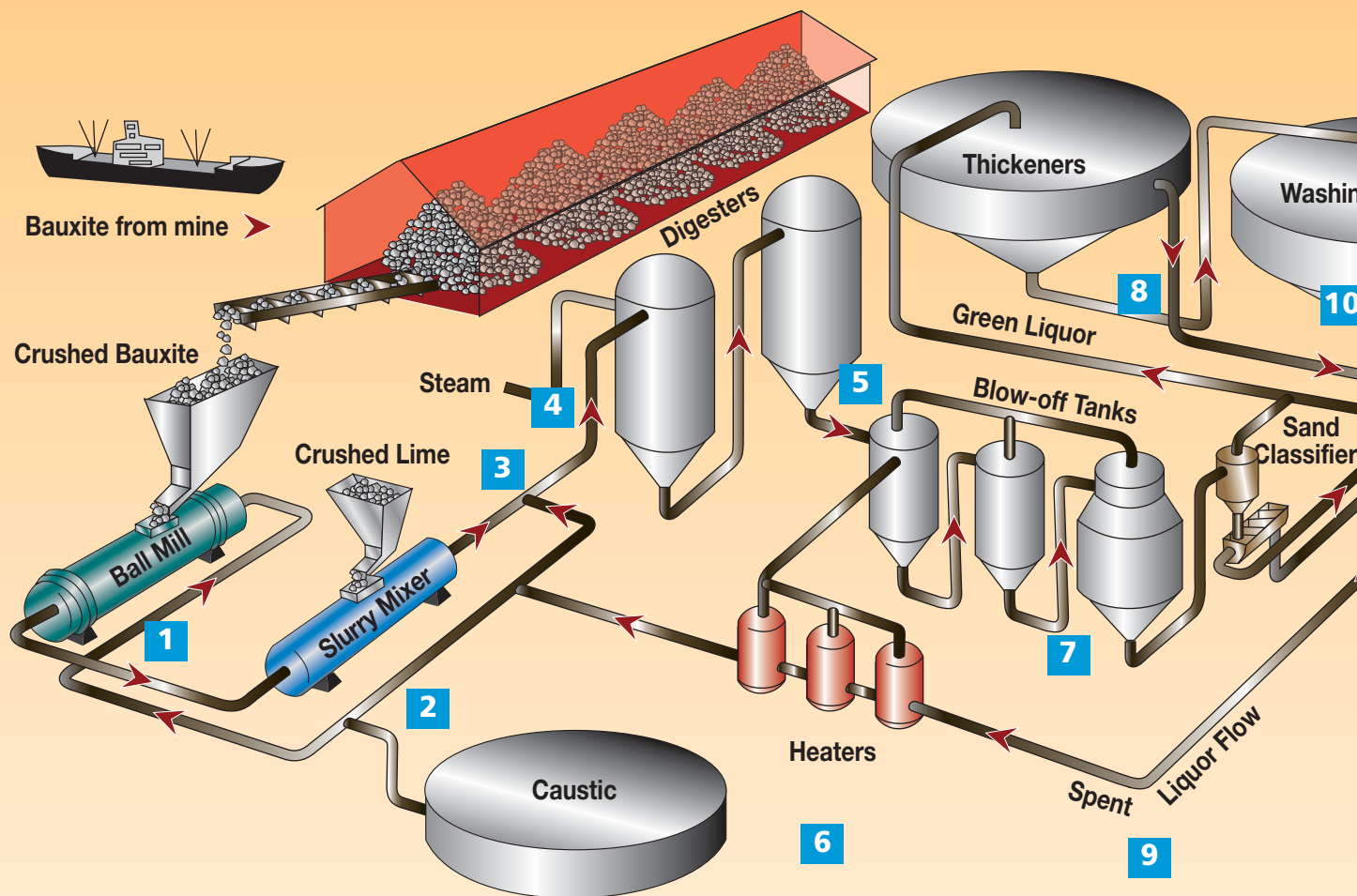
Optimization of Assets

ITT conducts equipment health and inventory management programs to optimize equipment performance, reliability and life cycle costs.

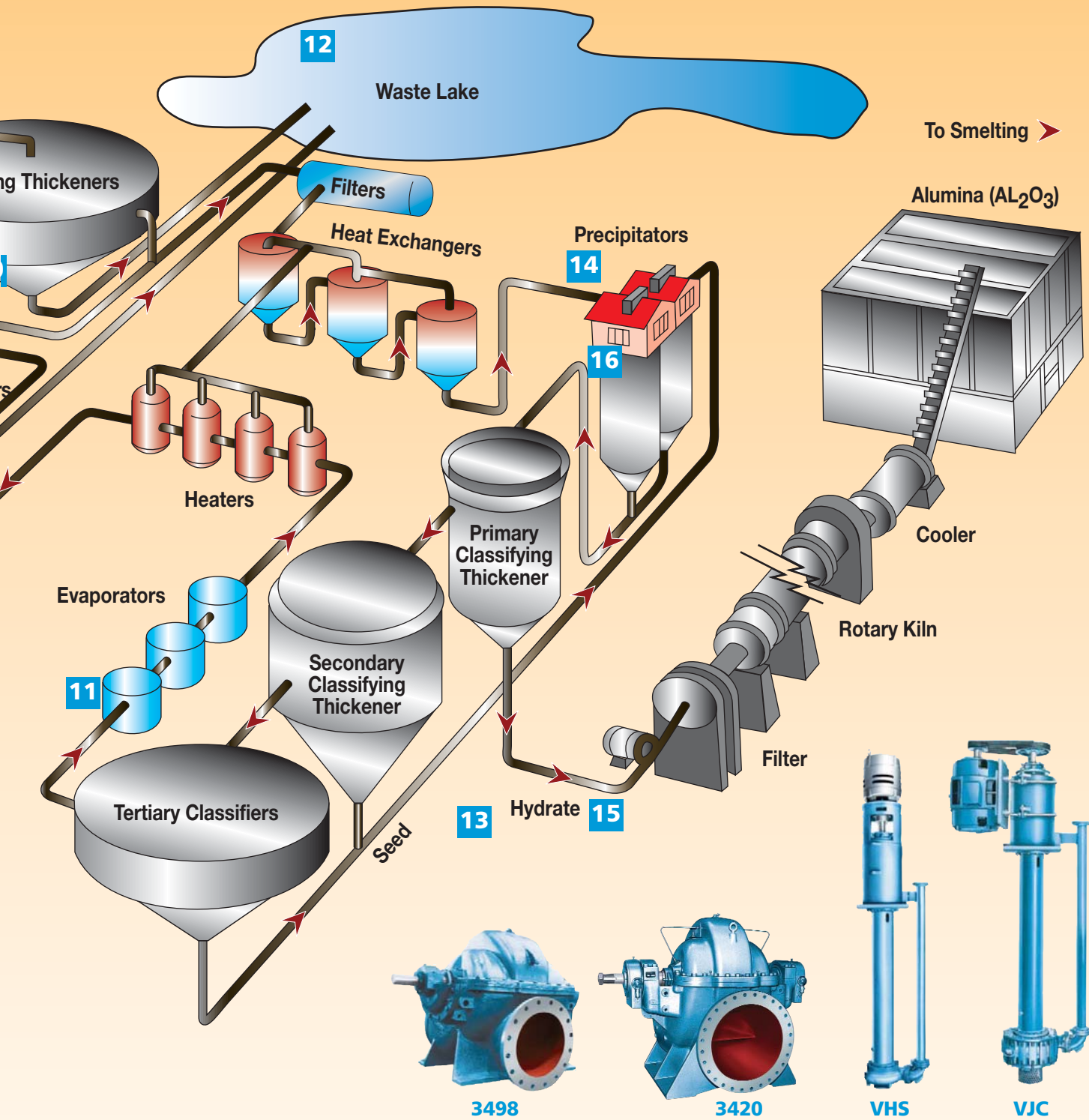
- Inventory Management
- Replacement /Exchange
- Maintenance Management
- Contract Maintenance



Alumina Refinery Solutions

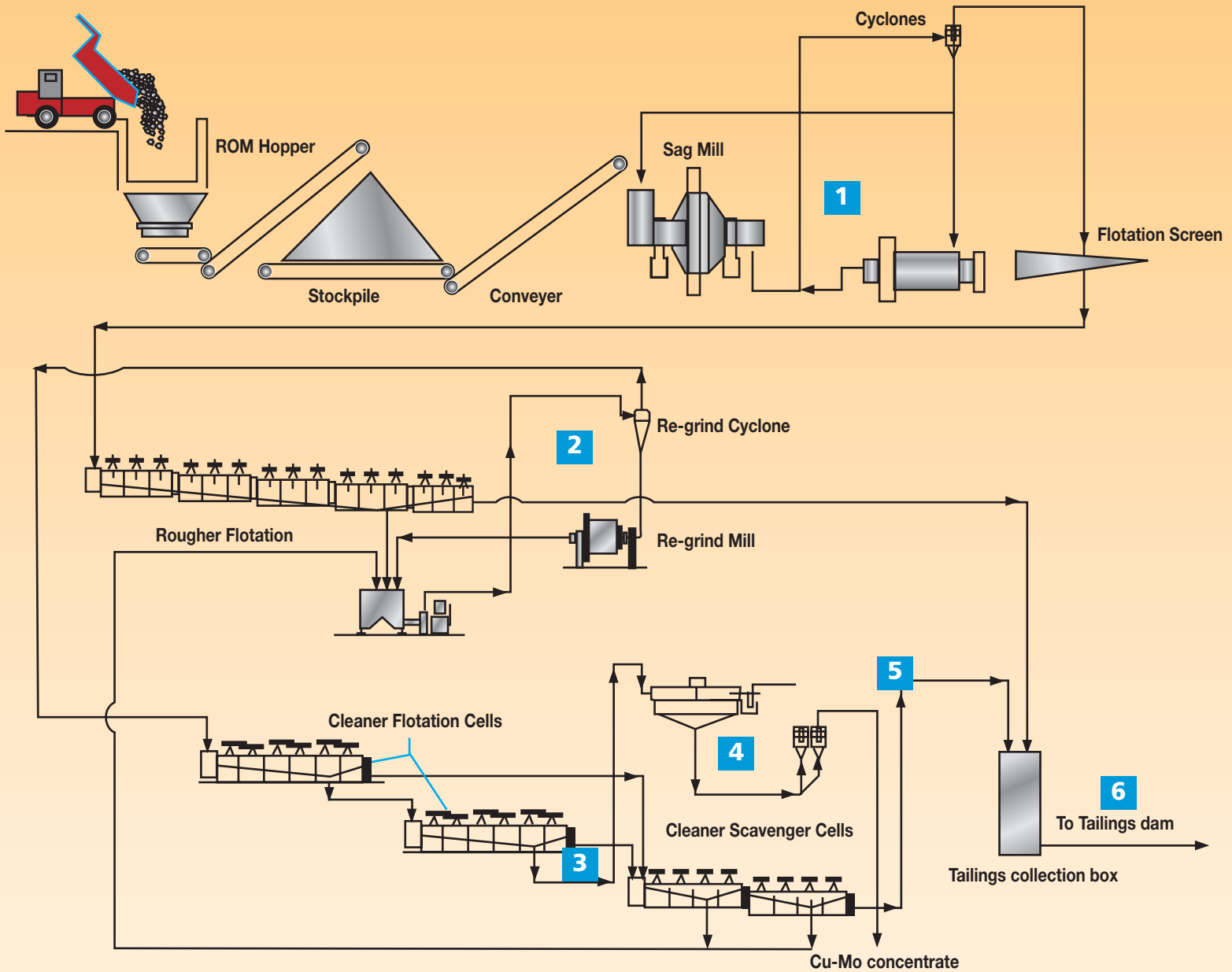


1	2	3	4	5	6	7	8
Mill Discharge - 5500	Caustic Supply - 3196 - 3180 - 3410 - 3409	Slurry to Digestion - 5500	Condensate Digestion - 3700 - HT3196	Digestion - 5500	Water Supply - VIT	Spent Liquor - 3196 - 3180 - 3410 - 3409 Dependent upon Flow Range	Green Liquor - 3196 - 3180 - 3410 - 3409 Dependent upon Flow Range
5500	3196 3180 3410 3409	5500	3700 HT3196	5500	VIT	3196 3180 3410 3409	3196 3180 3410 3409
3196	3196	3196	3196	3196	3196	3196	3196



9	10	11	12	13	14	15	16
Sump Pumps	Filter Feed	Evaporation	Mud Disposal	Sweetener Service	Precipitation	Hydrate	Thickener Applications
- VHS - VJC	- 3196 - 3180 - 3410 - 3409 - 3498 - 3420 Dependent upon Flow Range	- 3196 - 3180 - 3410 - 3409	- 5500	- 5500	- 5500	- 5500	- 5500

Copper Concentration Solutions



1

Mill Discharge Cyclone Feed

- SRL-XT
- 5500
- SV1



2

Re-grind Cyclone Feed

- SRL-XT
- 5500
- SV1



3

Flotation Concentrates

- SRL-S
- VRS
- VJC
- CW/CWX
- SV1



4

Thickener/Clarifier Under Flow

- SRL
- SRL-XT
- 5500
- SV1



5

Flotation Tailings

- VRS
- VJC
- SRL
- SV1

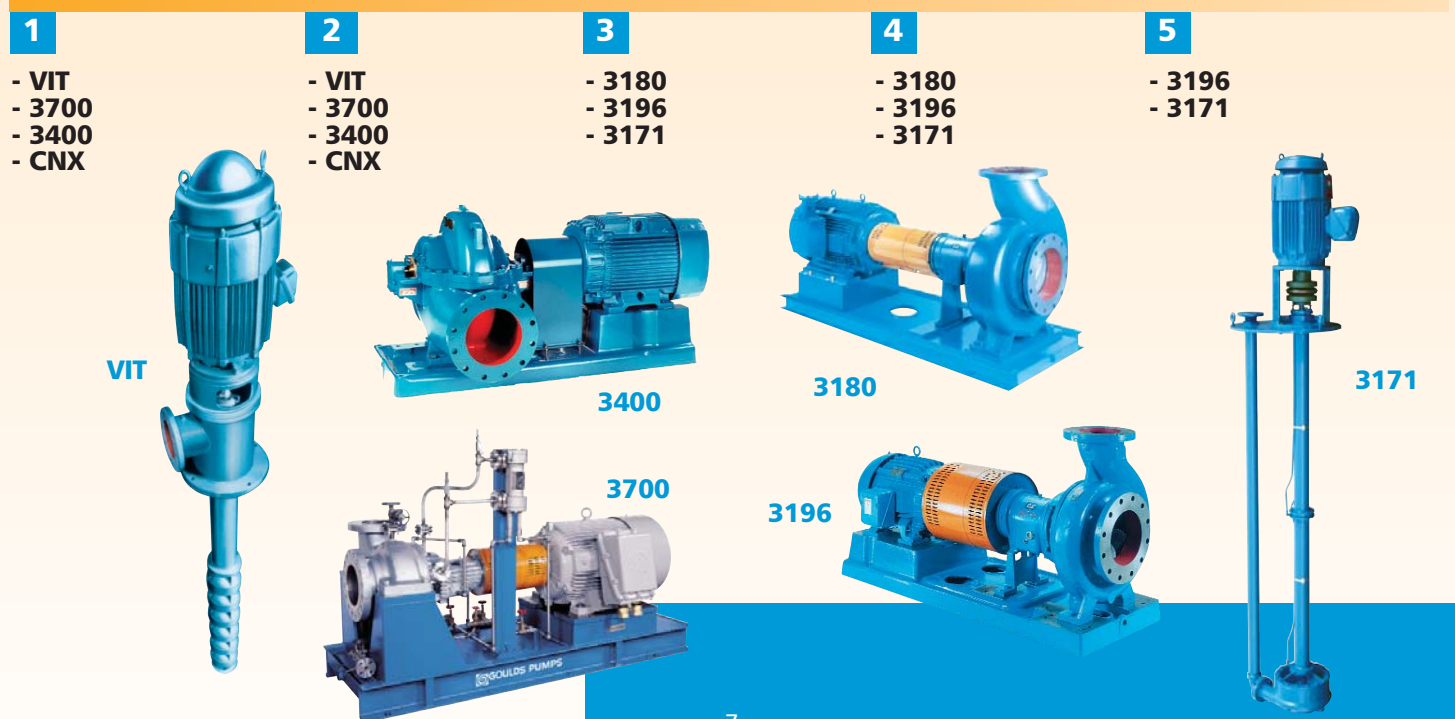
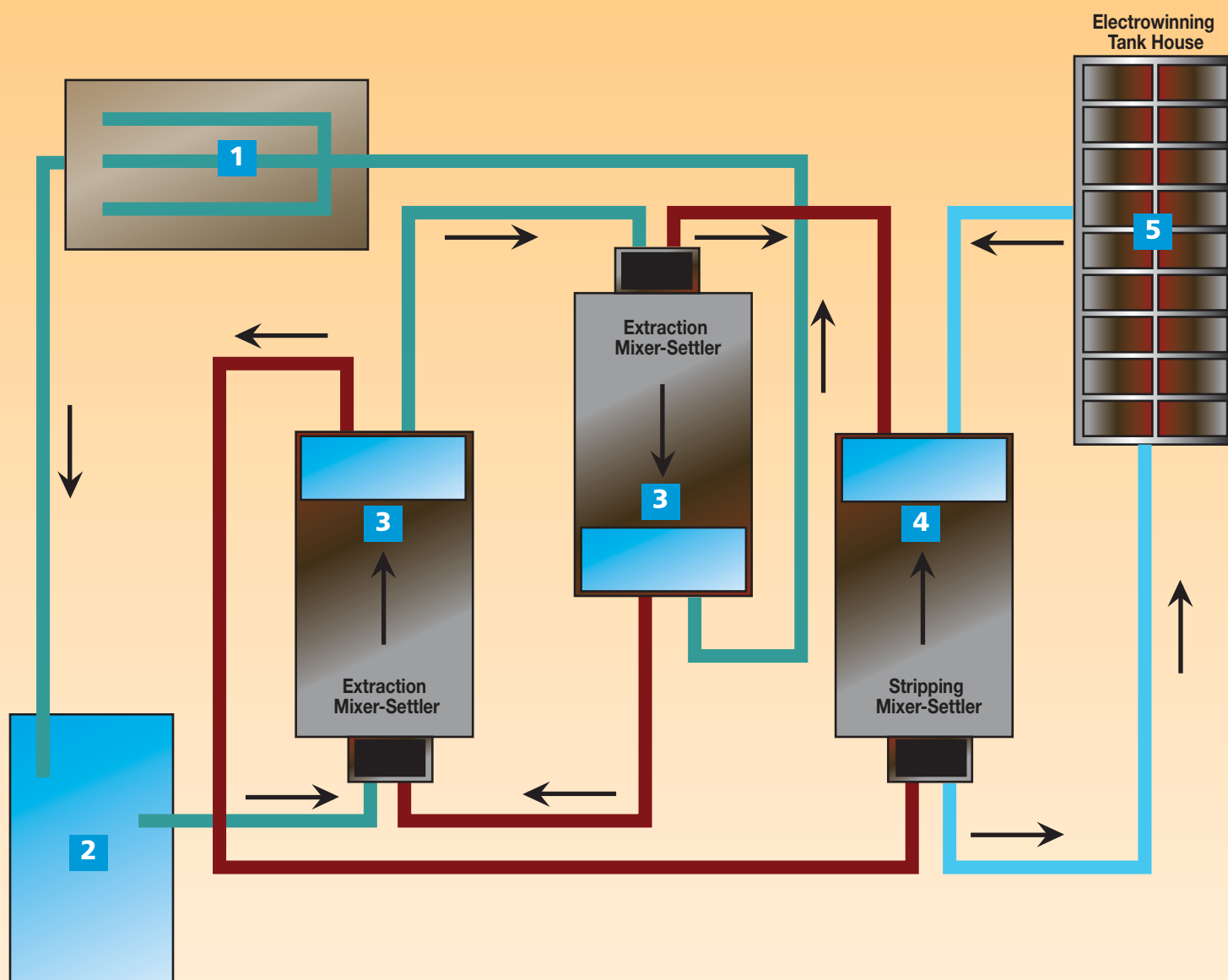


6

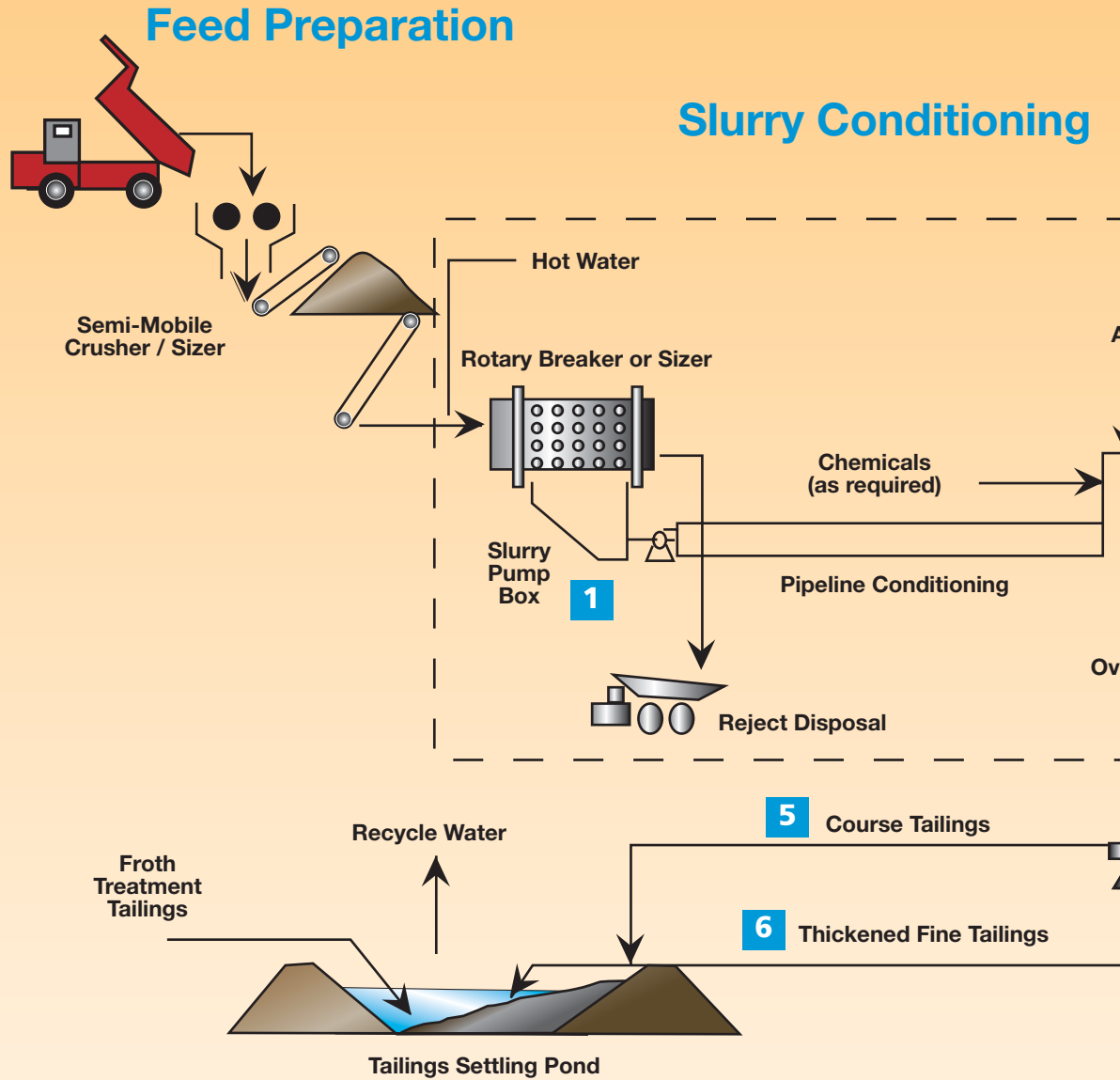
Thickened Tailings

- 5500
- SRL
- SRL-XT
- SV1





Oil Sands

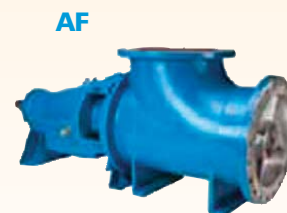


1
Slurry Conditioning
Hydro-Transport
 - 5500

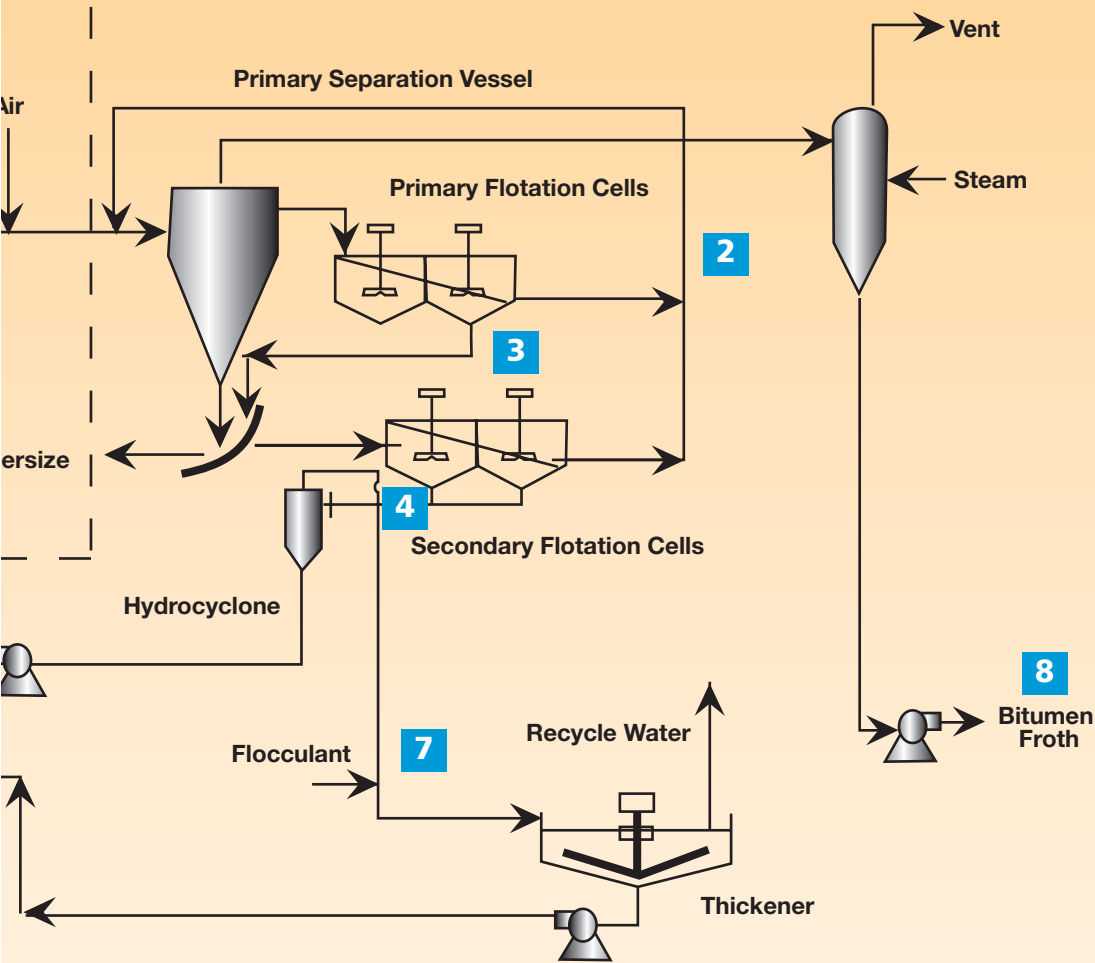
2
Flotation Concentrate
Bitumen Froth
 - CWX with Shearpeller
 - 5500 with Shearpeller

3
Flotation Tailings
 - Axial Flow Pump

4
Cyclone Feed
 - SRL with urethane lining
 - 5500



Extraction



5

Coarse Tails
 - 5500
 - SRL with urethane lining

6

Thickened Fine Tails
 - 5500 with urethane suction liners
 - SRL with urethane lining

7

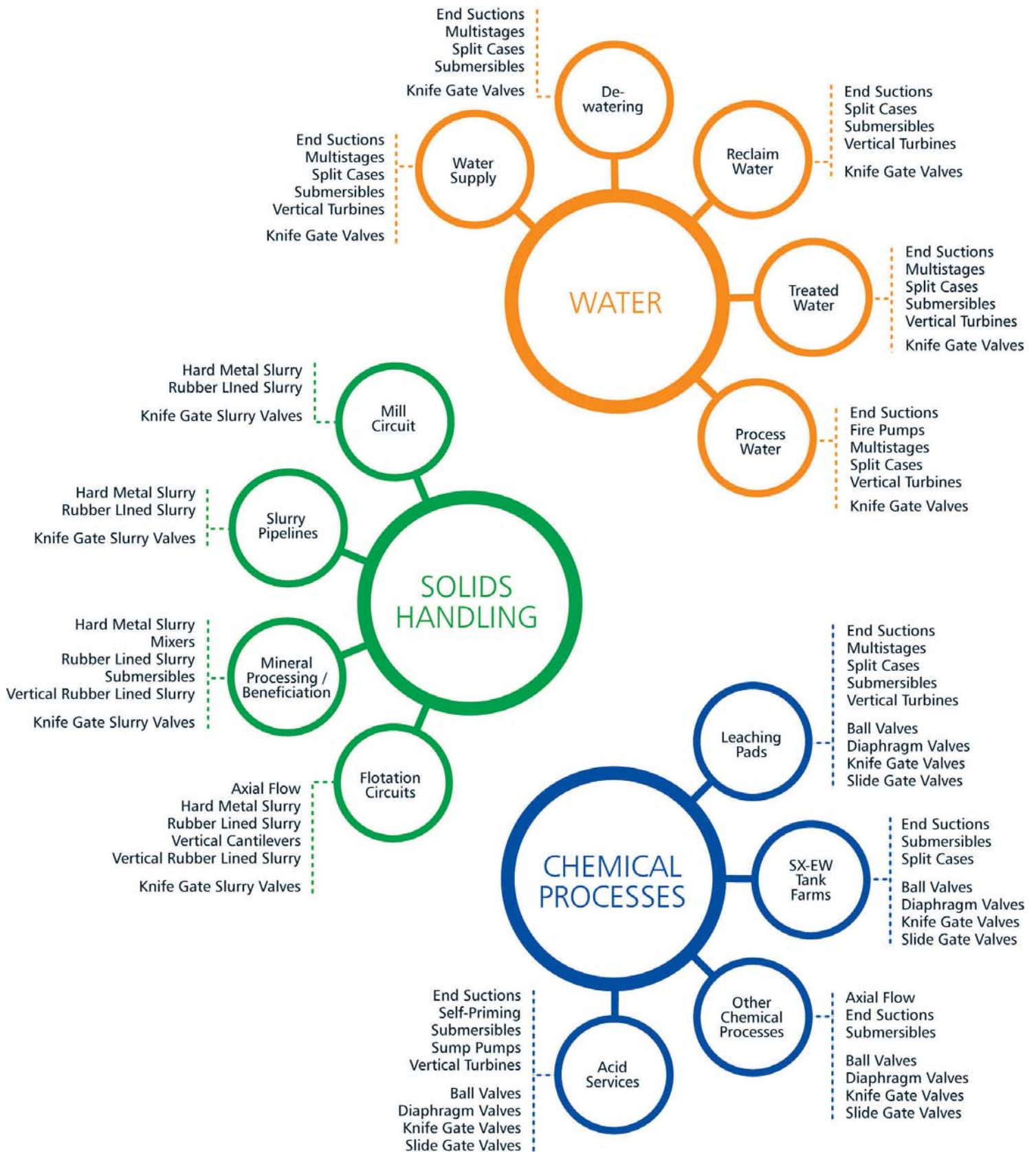
Cyclone Overflo
 - SRL with urethane lining
 - Axial Flow

8

Bitumen Froth
 - CWX with Shearpeller
 - 5500 with Shearpeller



ITT Products for Mining Services



ITT Fluid Technology – Profile

Major ITT Fluid Technology production and assembly facilities are located in Argentina, Australia, Austria, Brazil, Canada, China, England, Germany, Italy, Malaysia, Mexico, the Philippines, Saudi Arabia, South Korea, Sweden, Poland and the United States.

Principal customers are in North America, Europe, the Middle East, Africa, Latin and South America, and the Asia/Pacific region. Sales are made directly to customers or through independent distributors and representatives.

As one of the world's leading producers of fluid handling equipment and related products for treating and recycling wastewater, ITT actively promotes more efficient use and re-use of water and endeavors to raise the level of awareness of the need to preserve and protect the earth's water resources

Business Units

ITT Fluid Technology brings its product and services portfolio to market through three market-oriented business units:

Water and Wastewater

ITT's Water & Wastewater value center provides a complete offering to municipal and industrial wastewater transport and treatment customers including a full range of wastewater and dewatering pumps, secondary biologic treatment, filtration and disinfection products.

ITT's brands serving water and wastewater markets include Flygt, Sanitaire, ABJ, Leopold and WEDECO.

Industrial Process

ITT's Industrial Process value center brings to market the most complete portfolio of pumps, valves and control systems for industrial markets including mining, oil & gas, chemical, water and wastewater, pulp & paper, hydrocarbon processing, power generation and niche industrial applications.

ITT's brands serving industrial markets include Goulds Pumps, Fabri-Valve, Dia-Flo, Cam-Tite Cam-Line, C'treat and Pure-Flo.

Residential and Commercial Water

ITT's Residential & Commercial Water value center manufactures and markets pumps, systems and accessories for residential, municipal and commercial applications including water, wells, HVAC systems, pressure boosters, boiler controls and fire protection.

ITT's brands serving Residential and Commercial Water markets include Goulds Pumps, Lowara, Bell & Gossett, McDonnell & Miller, Vogel, A-C Fire Pump, Flowtronex and Standard.





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