



Canadian Process Technologies Inc.

Unit 1 - 7168 Honeyman St.
Delta, BC, Canada
V4G 1G1

Tel: 1 • 604 • 952 • 2300
Fax: 1 • 604 • 952 • 2312
Email: cpt@cpti.bc.ca

Installations

Coastal Coal • USA
5 @ 4.27 m Ø

TECO (Clintwood) • USA
2 @ 3.05 m Ø

Massey Power Mountain • USA
2 @ 3.96 m Ø

CWF Italia • Sardinia
2 @ 3.66 m Ø

Sigmon Coal • USA
2 @ 4.27 m Ø

Ohio Valley Coal • USA
2 @ 4.27 m Ø

Massey Liberty • USA
3 @ 4.27 m Ø

Tabas Coal • Iran
6 @ 4.30 m Ø

Severnaya • USA
6 @ 4.27 m Ø

Coal Clean • USA
3 @ 4.57 m Ø

Arch Coal • USA
1 @ 4.27 m Ø

Weatherbee • USA
1 @ 4.27 m Ø

Comet • Australia
6 @ 4.9 m Ø

Donstal • Ukraine
8 @ 4.27 m Ø

Others

Total 65 CoalPros

Canadian Process Technologies Inc.

is a Canadian company operating internationally in the mining, petrochemical and pulp & paper industries.

CPT's core business is process equipment supply, metallurgical testing and process consulting.

Basic services range from evaluative studies through equipment design, fabrication and commissioning. CPT is committed to providing state-of-the-art equipment and process solutions for new and existing projects worldwide.

We understand and quickly respond to the needs of our clients with integrity, competence and effectiveness.

The versatility of our company is demonstrated by the diversity of the services we offer and the varying size of projects we have successfully completed. CPT's client base extends far beyond North America, reaching all corners of the world.

In order to respond to the needs of our valued customers, CPT maintains strategic alliances with well established and complementary companies throughout North and South America, Asia, Australia and Southern Africa.

Column Cells for Coal Flotation

Column flotation has gained wide acceptance in the coal industry as a technically sound and economic technology for producing high quality products.

CoalPros are in wide use in Eastern USA treating a variety of classified (100 x 325) and un-classified (100 x 0) raw coals, and producing low ash products in a single pass.

CoalPro



4.27 m Ø CoalPro at Work



Coal-Water Fuel in Sardinia

The *CoalPro*, a joint development between CPT and Eriez, brings together the well proven technology of column flotation and the innovative design capabilities of our two companies to meet the special requirements of coal producers.

Benefits of the *CoalPro* include . . .

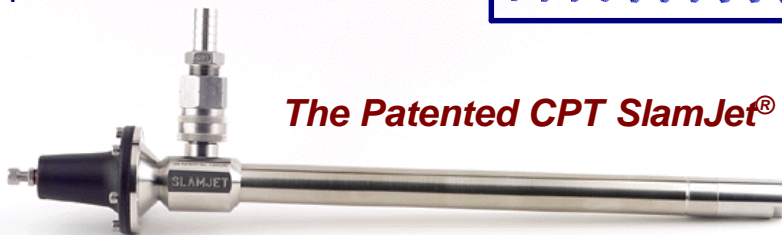
- ✓ low capital and operating cost
- ✓ low maintenance cost
- ✓ ease of operation
- ✓ no large aeration pumps
- ✓ no large feed or recirculation pumps
- ✓ no downcomers with complex piping
- ✓ patented SlamJet® technology with automatic fail closure on loss of air



Air Sparging The Heart of Flotation



Flotation depends absolutely on the generation of bubbles that are correctly and uniformly sized and are evenly dispersed across the column.



The Patented CPT SlamJet®

The CPT SlamJet® represents the leading edge in gas bubble generation technology.

Benefits of the SlamJet® include:

- ✓ automatic fail closure on loss of air
- ✓ self-adjusting air flow control
- ✓ ceramic nozzle for high durability
- ✓ simple operation and control
- ✓ quick disconnect air line fitting
- ✓ easy retrofit to existing equipment
- ✓ on-line installation using hot tap
- ✓ on-line insertion or withdrawal

CoalPro Development Program

CPT is actively developing coal recovery systems based on our column flotation and gas sparging expertise. Portable test columns of 0.51 m Ø and 1.22 m Ø have been extensively tested in Canada, United States and Australia. The CoalPro Test Cell is generating scale-up data at numerous coal preplants in Eastern USA.

At CWF Italia in Sardinia, two CoalPros have been commissioned for production of high quality Coal Water Fuel, and six CoalPros are in the final stages of construction in Iran.

In the USA, a total of 43 CoalPros have been installed at prep plants in Northern WV, Central WV and South Western VA, ranging in size from 3.05 m Ø to 4.57 m Ø. Commissioning at these operations was smooth and trouble free, and performance is matching or exceeding expectations.



Our Experience . . .

CPT possesses the most up-to-date qualifications in the design and implementation of large scale column flotation systems. Our expertise includes the design and supply of column flotation plants treating a total of more than 100,000 tpd as well as complete plant conversions from mechanical cells to ALL columns. Our reference list includes a wide variety of custom-designed column cells for the recovery of base and precious metals and industrial minerals. CPT columns are in wide use in solvent extraction plants for organic recovery, in the pulp & paper industry for waste paper de-inking, and in the petrochemical industry for removing oil from produced water in off-shore oil pumping installations and secondary Bitumen recovery in Northern Canada's Athabasca Oil Sands.

Our Clients Include . . .

More than 60 CoalPro installations around the world . . .

- CWF Italia • Italy
- Kingwood Coal • USA
- Tabas Coal • Iran
- Arch Coal • USA
- Severnaya • Russia
- Massey Coal • USA
- Luscar Coal • Canada
- Comet Blackwater • Australia
- Mach Mining • USA
- Donstal • Ukraine

