

SpinTek Client List - Recent Projects

for hydrometallurgical applications.



CoMatrix Filter Projects *Solvent Extraction & Mining Industry*

Client	Location	System	Engineer	Year	Application
Achit-Ikht, LLC	Mongolia	One (1) CM-1040 (2436 mm) (6400mm)	Beijing Extractive	2014	Co Sulphate Filter/Coalescer 568 gpm (129 m3/hr)
Achit-Ikht, LLC	Mongolia	One (1) CM-1040 (2436mm) (6400mm)		2018	Cu SX Expansion 100 m3/h
Arx Minerals, LLC	Kazakhstan	One (1) CM-1030 (7 ft) (2.13m)		2021	CoMatrix Electrolyte Filter 286 gpm (65 m3/hr)
Eramet-Gulf	USA	One (1) CM-940 (450) (2740)		2015	Cu SX 4 m3/h
Eurasia Copper Operating, LTD	Kazakhstan	One (1) CM-1025 (6.5 ft) (1.9 m)	None	2015	Cu SX Electrolyte Filter/Coalescer 161 gpm (36.5 m3/hr)
Kaz Copper, LLP	Kazakhstan	One (1) CM-1055 (2893mm) (9.5') (2740mm) (9')		2011	SX Electrolyte Filter/ Coalescer 498 gpm (113 m3/hr)
Kazakhmys Aktogay Oxide Project	Kazakhstan	One (1) CM-1050 (9.0 ft) (2.7 m)	Ausenco	2014	SX Electrolyte Filter/Coalescer 498 gpm (113 m3/hr)

CoMatrix Filter Projects *Solvent Extraction & Mining Industry (continued)*

Client	Location	System	Engineer	Year	Application
Rubamin Limited	India	One (1) CM-950 (1.3 ft) (0.4 m)	Minproc-Davy International	2010	Co SX Electrolyte Filter/Coalescer 22 gpm (5 m3/hr)
Voisey's Bay Nickel - Long Harbour (Vale Inco)	Canada	Two (2) CM-1040 (8.0 ft) (2.4 m)	Fluor	2013	Cu Strip Filter/Coalescer 668 gpm (152 m3/hr)
Voisey's Bay Nickel - Long Harbour (Vale Inco)	Canada	Two (2) CM-1050 (9.0 ft) (2.7 m)	Fluor	2013	IMP Raffinate Filter/Coalescer 2827 gpm (64m3/hr)
Voisey's Bay Nickel - Long Harbour (Vale Inco)	Canada	Three (3) CM-1050 (9.0 ft) (2.7 m)	Fluor	2013	Co Raffinate Filter/Coalescer 2905 gpm (660 m3/hr)
Voisey's Bay Nickel - Long Harbour (Vale Inco)	Canada	One (1) CM-1010 (5.0 ft) (1.5 m)	Fluor	2013	Co Strip Filter/Coalescer 66 gpm (15 m3/hr)

SX Dual-Media Filter Projects *Solvent Extraction & Mining Industry - SX Filter Projects*

Client	Location	System	Engineer	Year	Application
American Pacific Borate (Ft. Cady Ca Corp)	Newberry Springs, CA USA	Two (2) SX-1020 (6.0 ft) (1.829 m)	Mill Creek Eng	2020	SX Electrolyte Filter/Coalescer 110 gpm (25 m3/hr)
American Pacific Borate (Ft. Cady Ca Corp)	Newberry Springs, CA USA	One (1) SX-1000 (4.0 ft) (1.219 m)	Mill Creek Eng	2020	SX Electrolyte Filter/Coalescer 63 gpm (14.3 m3/hr)
Buena Vista	Mexico	Three (3) SX-1050 (3600) (1524)		2016	Cu SX 270 m3/h
Cauchari Project (Minera Exar S.A)	Argentina	Two (2) SX-1060 (10 ft) (3.04 m)	Tenova Advanced Technologies	2019	SX Electrolyte Filter/Coalescer 572 gpm (130 m3/hr)
Centenario Lithium Project (Eramine Sudamerica S.A.)	Argentina	Two (2) SX-1020 (6 ft) (1.83 m)	Tenova Advanced Technologies	2019-2022	SX Electrolyte Filter/Coalescer 154 gpm (35 m3/hr)
Central Asia Mining (Kounrad Copper Company)	Kazakhstan	Two (2) SX-1015 (5.25 ft) (1.53m)		2012	SX Electrolyte Filter/ Coalescer 660 gpm (150 m3/hr)
Grupo Mexico	Mexico	Three (3) SX-1060 (2740) (1524)		2018	Cu SX 216 m3/h
Pregnant Liquor Solution Project (Horsehead Corporation)	Mooresboro, North Carolina, USA	Five (5) SX-1080 (12.0 ft) (3.6 m)	CSD Engineers	2014	SX Electrolyte Filter/Coalescer 2825 gpm (640 m3/hr)

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SX Dual-Media Filter Projects *Solvent Extraction & Mining Industry - SX Filter Projects*

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Luz de Cobre Mining Project (Minerales Libertad, S.A. de C.V.)	Mexico	Two (2) SX-1045 (8.5 ft) (2.6 m)	M3 Mexicana	2012	SX Electrolyte Filter/Coalescer 556 gpm (126 m ³ /hr)
Minera Chinalco Peru S.A. Toromocho Project	Peru	Two (2) SX-1040 (2438 mm) (1524 mm)	Aker Solutions	2013	SX Electrolyte Filter/Coalescer 330 gpm (75 m ³ /hr)
Phoenix Copper Leach Project (Newmont Mining Corporation)	Battle Mountain, Nevada, USA	Three (3) SX-1045 (8.0 ft) (2.4 m)	M3 Engineering	2013	Cu SX Electrolyte Filter/Coalescer 550 gpm (125 m ³ /hr)
Teck Cominco	Canada	One (1) CM-930 (0.8 ft) (0.3)	C.E.S.L. Engineering	2011	SX Electrolyte Filter/Coalescer 24 gpm (6 m ³ /hr)
Tenke Fungurume Mining	Democratic Republic	Four (4) SX-1125 (16.4 ft) (5.0 m)	GRD Minproc	2011	SX Electrolyte Filter/Coalescer
Tenke Fungurume Expansion Mining Project (Freeport-McMoRan Copper & Gold Inc.)	Democratic Republic of Congo	Two (2) SX-1125 (16.4 ft) (5.0 m)	N/A	2011	SX Electrolyte Filter/Coalescer 2100 gpm (480 m ³ /hr)

Carbon Filters and Ion Exchanger Systems *Solvent Extraction & Mining Industry*

Client	Location	System	Engineer		Application
Centenario Lithium Project (Eramine Sudamerica S.A.)	Argentina	Two (2) CF-1020 (6 ft) (1.83 m)	Tenova Advanced Technologies	2019-2022	Carbon Columns 145 gpm (33 m ³ /hr)
El Boleo Carbon Columns (Minera Y Metalurgica Del Boleo)	Mexico	Two (2) CF-1020 (1829mm) (3428mm)	Bateman	2015	Carbon Columns 85 gpm (19.2 m ³ /hr)
El Boleo Zinc Ion Exchange (Minera Y Metalurgica Del Boleo)	Mexico	Three (3) IX-1015 (1676mm) (4724mm)	Bateman	2015	Zinc Ion Exchange Columns 74 gpm (16.8 m ³ /hr)

Roytec Licensed Dual-Media Jobs

Client	System	Engineer	m ³ /hr
Langer Heinrich - Ion Exchange	Twelve (12) 12 x 3.1 mØ x 3.00m	GRD Minproc	1109
Mimbula Minerals LTD	Three (3)	Moxico	
MUMI 20K	Three (3) 3 x 2.56 mØ x 1.55m	Senet	189
MUMI 40K	Six (6) 6 x 2.56 mØ x 1.55m	Senet	378
Client	System	Engineer	m ³ /hr
MUMI 100K	Four (4) 4 x 2.56 mØ x 1.55m	Senet	252
Kansuki / MUMI 100K	Twelve (12) 12 x 2.56 mØ x 1.55m	Senet	757
Kamoto Phase 4	Twelve (12) 12 x 5.0 mØ x 1.55m	SNC Lavalin	2886
Kansanshi	Three (3) 3 x 4.63 mØ x 1.55m	FQML	619
Kipoi	Three (3) 3 x 2.80 mØ x 1.55m	Senet	226
Tschudi Copper	Three (3) 3 x 2.40 mØ x 1.55m	LogiMan	166
Etoile Chemaf Copper	Three (3) 3 x 2.56 mØ x 1.55m	Senet	189
ERG	Three (3) 3 x 4.63 mØ x 1.55m	RTR Metalkol 77ktpa	619