

SpinTek Client List

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
Ambatovy Mining Project (Dynatec Madagascar S.A.)	Madagascar	One (1) CM-965 (2.3 ft) (0.7 m)	SNC-Lavalin	2009	Co Sulphate Filter/Coalescer 62 gpm (14.1 m3/hr)
Ambatovy Mining Project (Dynatec Madagascar S.A.)	Madagascar	One (1) CM-970 (2.6 ft) (0.8 m)	SNC-Lavalin	2009	Zn Sulphate Filter/Coalescer 80 gpm (18.1 m3/hr)
Ambatovy Mining Project (Dynatec Madagascar S.A.)	Madagascar	Two (2) CM-1040 (8.0 ft) (2.4 m)	SNC-Lavalin	2009	Ni Raffinate Filter/Coalescer 735 gpm (167 m3/hr)
Arafura Resources Limited	Australia	Two (2) CM-930 (0.8 ft) (0.3)	Bateman	1996	Filter/Coalescer 11 gpm (3 m3/hr)
Arx Minerals, LLC	Kazakhstan	One (1) CM-1030 (7 ft) (2.13m)		2021	CoMatrix Electrolyte Filter 286 gpm (65 m3/hr)
Cameco Corporation	Canada	One (1) CM-920 (0.8 ft) (0.3)		2005	CoMatrix Electrolyte Filter 4 gpm (.9 m3/hr)
Chelopech Mining Project (Chelopech Mining EAD)	Bulgaria	Two (2) CM-1035 (7.5 ft) (2.3 m)	GRD Minproc	2008	CoMatrix Electrolyte Filter 990 gpm (225 m3/hr)
Copper Range Co.	White Pines, MI USA	One (1) CM-960 (2.0 ft) (0.6 m)	Davy International	1996	SX Electrolyte Filter/ Coalescer 35 gpm (8 m3/hr)
Copper Range Co.	White Pines, MI USA	One (1) CM-980 (3.0 ft) (0.9 m)	Davy International	1996	SX Raffinate Filter/Coalescer 150 gpm (34 m3/hr)
Eramet-Gulf	USA	One (1) CM-940 (450) (2740)		2015	Cu SX 4 m3/h
Escondida Mining Project (BHP-Billiton)	Chile	Four (4) CM-1095 (13.5 ft) (4.1 m)	Fluor	1996	Cu SX Electrolyte Filter/Coalescer 7500 gpm (1700 m3/hr)
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)
Gaby Mining Project (Codelco)	Chile	Four (4) CM-1085 (12.5 ft) (3.8 m)	Fluor	2007	Cu Electrolyte Filter/ Coalescer 6164 gpm (1400 m3/hr)
Gaspe Mining Project (Noranda Inc.)	Murdochville, Quebec, Canada	One (1) CM-930 (0.8 ft) (0.3 m)	Davy International	1996	SX Electrolyte Filter/Coalescer 15 gpm (4 m3/hr)
Goro Nickel Mining Project (Vale Inco)	New Caledonia	Four (4) CM-1095 (13.5 ft) (4.1 m)	Bechtel	2007	SX Raffinate Filter/Coalescer 7700 gpm (1750 m3/hr)
Goro Nickel Mining Project (Vale Inco)	New Caledonia	Two (2) CM-1015 (5.5 ft) (1.7 m)	Bechtel	2007	SX 1 Strip Filter/Coalescer 400 gpm (90 m3/hr)
Goro Nickel Mining Project (Vale Inco)	New Caledonia	Two (2) CM-1015 (5.5 ft) (1.7 m)	Bechtel	2007	SX 2 Raffinate Filter/Coalescer 400 gpm (90 m3/hr)
Goro Nickel Mining Project (Vale Inco)	New Caledonia	Two (2) CM-980 (3.0 ft) (0.9 m)	Bechtel	2007	SX 2 Cobalt Filter/Coalescer 130 gpm (30 m3/hr)
Gunpowder Mining Project	Mount Isa, Australia	Two (2) CM-1045	Bateman-Kinhil	1997	SX Electrolyte Filter/Coalescer 1760 gpm (400 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)

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

Client	Location	System	Engineer		Application
Kennecott Copper	Bingham Canyon UT USA	One (1) CM-950 (1.3 ft) (0.4 m)	Davy International	1998	SX Electrolyte Filter/Coalescer 30 gpm (7 m3/hr)
Key Lake Uranium Mining Project (Cameco Corporation)	Canada	One (1) CM-920 (0.7 ft) (0.2 m)		2003	Uranium Electrolyte Filter/Coalescer 4 gpm (1 m3/hr)
Magma Copper Company	San Manuel, AZ USA	Two (2) CM-940 (1.0 ft) (0.3 m)	CMPS&F	1993	SX Electrolyte Filter/Coalescer 40 gpm (10 m3/hr)
Met Mex Penoles, S.A. De C.V.	Coahuila, Mexico	One (1) CM-980 (3.0 ft) (0.9 m)		1998	Zn SX Electrolyte Filter/Coalescer 120 gpm (28 m3/hr)
Milpo Mining Project (Compania Minera Milpo S.A.A.)	Peru, Chapi	One (1) CM-1025 (6.5 ft) (2.0 m)	Milpo	1998	Cu Electrolyte Filter/Coalescer 516 gpm (120 m3/hr)
Pamco Pilot Project (Pacific Metal Co., Ltd.)	Japan	Two (2) CM-930 (0.8 ft) (0.3)	Bateman	2005	Ni Raffinate Filter/Coalescer 11 gpm (3 m3/hr)
Pamco Pilot Project (Pacific Metal Co., Ltd.)	Japan	Two (2) CM-910 (0.5 ft) (0.2 m)	Bateman	2005	Co Strip Filter/Coalescer 1 gpm (1 m3/hr)
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)
Spence Mining Project (BHP-Billiton)	Chile	Six (6) CM-1085 (12.5 ft) (3.8 m)	Aker Solutions	2009	SX Electrolyte Filter/Coalescer 10,500 gpm (2400 m3/hr)
Usina Mining Project (CVRD)	Brazil	One (1) CM-1035 (7.5 ft) (2.3 m)	Hatch	2005	Cu SX Electrolyte Filter/Coalescer 567 gpm (129 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)
Western Mining	Roxby Downs, Australia	Three (3) CM-1025 (5.5 ft) (1.7 m)	Halliburton	1998	Cu Electrolyte Filter/Coalescer 924 gpm (210 m3/hr)
Zeneca Specialties	Brazil	One (1) CM-950 (1.7 ft) (0.5 m)		1996	SX Electrolyte Filter/Coalescer 15 gpm (4 m3/hr)

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

Client	Location	System	Engineer		Application
Altair Nanotechnologies, Inc.	Reno, NV USA	One (1) SX-920 (0.7 ft) (0.2 m)	Altair	2007	SX Electrolyte Filter/Coalescer 2 gpm (250 lph)
Altair Nanotechnologies, Inc.	Reno, NV USA	One (1) SX-930 (0.8 ft) (0.3)	Altair	2007	SX Electrolyte Filter/Coalescer 3 gpm (500 lph)
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)
Antucoya Project (Minera Antucoya, LTDA)	Chile	Five (5) SX-1115 (15.5 ft) (4.7 m)	Delkor Global	2014	Cu SX 1077 m3/hr
Assarel Mining Project (Outotec Oyj)	Republic of Bulgaria	Two (2) SX-1020 (6.0 ft) (1.8 m)	Outotec	2009	SX Electrolyte Filter/Coalescer 132 gpm (30 m3/hr)

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

Client	Location	System	Engineer		Application
Buena Vista	Mexico	Three (3) SX-1050 (3600) (1524)		2016	Cu SX 270 m3/h
Bulong Nickel Mining Project (Norilsk Nickel)	Australia	Three (3) SX-1080 (12.0 ft) (3.7 m)	Bateman-Kinhill, J.V. Kilborn	1997	SX Electrolyte Filter/Coalescer 1678 gpm (380 m3/hr)
California Energy Operating Company	Calipatria, CA USA	Two SX Filters	Kvaerner Metals	1999	Zinc Oxide Recovery
California Energy Operating Company	Calipatria, CA USA	One (1) SR-4004 System		1997	Reverse Osmosis for Mineral Recovery 6.7 gpm (2 m3/hr)
Carlota Mining Project (Carlota Copper Company)	Miami, AZ USA	Two (2) SX-1085 (12.5 ft) (3.8 m)	M3 Engineering	2008	SX Electrolyte Filter/Coalescer 1255 gpm (285 m3/hr)
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)
Cawse Nickel Mining Project (Norilsk Nickel)	Kalgoorlie, W. Australia	One (1) SX-1040 (8.0 ft) (2.4 m)	Minproc-Davy International	1998	N/A
Cawse Nickel Mining Project (Norilsk Nickel)	Kalgoorlie, W. Australia	One (1) SX-1075 (11.5 ft) (3.5 m)	Minproc-Davy International	1998	N/A
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)
Cerro Colorado Mining Project (BHP-Billiton)	Cerro Colorado, Chile	Three (3) SX-1085 (12.5 ft) (3.8 m)	Bechtel	1995	SX Electrolyte Filter/Coalescer 1800 gpm (410 m3/hr)
Cerro Colorado Expansion Mining Project (BHP-Billiton)	Cerro Colorado, Chile	One (1) SX-1085 (12.5 ft) (3.8 m) (4.7 m)	Davy International	1997	SX Electrolyte Filter/Coalescer 610 gpm (138 m3/hr)
Cia Minera Gibraltar Limilitada	Chile	Four (4) SX-1115 (15.5 ft)	Flour Daniel Wright LTD	2007	SX Electrolyte Filter/Coalescer 3700 gpm (840 m3/hr)
Collahuasi Mining Project (Falconbridge/Anglo American)	Chile	Three (3) SX-1100 (14.0 ft) (4.3 m)	Bechtel - Davy	1997	SX Electrolyte Filter/Coalescer 2300 gpm (525 m3/hr)
Collahuasi Mining Project (Falconbridge/Anglo American)	Chile	Backwash pumps	Bechtel International	1997	Backwash h2o for SX Filters
Cyprus Minerals	El Abra, Chile	Twelve (12) SX-1105 (14.5 ft) (4.4 m)	Bechtel-ARA	1995	SX Electrolyte Filter/Coalescer 8250 gpm (1875 m3/hr)
Dos Amigos Mining Project (Empresa Cemin)	Chile	One (1) SX-1000 (4.0 ft) (1.2 m)	TERRAL	1996	SX Electrolyte Filter/Coalescer 154 gpm (35 m3/hr)
El Boleo Copper (Minera Y Metalurgica Del Boleo)	Mexico	Three (3) SX-1070 (4263mm) (2436mm)	Bateman	2013	SX Electrolyte Filter/ Coalescer 2510 gpm (570 m3/hr)
El Boleo Cobalt (Minera Y Metalurgica Del Boleo)	Mexico	Two (2) SX-1000 (1219mm) (2743mm)	Bateman	2012	SX Electrolyte Filter/ Coalescer 75 gpm (17 m3/hr)
El Tesoro	Santiago, Chile	Five (5) SX-1105 (14.5 ft) (4.4 m)	Fluor Daniel	2000	SX Electrolyte Filter/Coalescer 4120 gpm (863 m3/hr)
Equatorial Tonopah, Inc.	Tonopah, NV USA	Two (2) SX-1080 (12.0 ft) (3.7 m)	Kvaerner Metals	1999	SX Electrolyte Filter/Coalescer 1074 gpm (244 m3/hr)
Escondida Coloso Plant (BHP-Billiton)	Antofagasta, Chile	Three (3) SX-1085 (12.5 ft) (3.8 m)	BHP Minerals/ Bechtel	2009	PLS Filter/Coalescer 1650 gpm (4 m3/hr)
Escondida Expansion	Chile	One (1) SX-1110 13.6 ft (2058mm)		2011	SX Electrolyte Filter/Coalescer CoMatrix 3577 gpm (813

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SX Dual-Media Filter Projects Solvent Extraction & Mining Industry - SX Filter Projects (continued)

Client	Location	System	Engineer		Application
Girilambone Copper Company	Girilambone, Australia	Three (3) SX-1035 (7.5 ft) (2.3 m)	CMPS&F	1994	SX Electrolyte Filter/Coalescer 660 gpm (150 m3/hr)
Great Australian Copper Co.	Cloncurry, Australia	One (1) SX-1035 (7.5 ft) (2.3 m)	Ausenco Engineers	1995	SX Electrolyte Filter/Coalescer 220 gpm (50 m3/hr)
Grupo Mexico	Mexico	Three (3) SX-1060 (2740) (1524)		2018	Cu SX 216 m3/h
Hartley Platinum Project (BHP Minerals Zimbabwe Ltd.)	South Africa	Two (2) SX-1000 (4.0 ft) (1.2 m)	Bateman	1995	SX Electrolyte Filter/Coalescer 125 gpm (29 m3/hr)
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)
Kansanshi Copper Mining Project (First Quantum Minerals Ltd.)	Zambia	Three (3) SX-1110 (15.0 ft) (4.6 m)	GRD Minproc	2004	SX Electrolyte Filter/Coalescer 2175 gpm (494 m3/hr)
Kansanshi Copper Expansion Mining Project (First Quantum Minerals Ltd.)	Zambia	Three (3) SX-1110 (15.0 ft) (4.6 m)	GRD Minproc	2007	SX Electrolyte Filter/Coalescer 2175 gpm (494 m3/hr)
Kingamyambo Musonoi Tailings S.A.R.L. ("KMT") (First Quantum Minerals Ltd.)	Democratic Republic of Congo	Three (3) SX-1120 (15.8 ft) (4.8 m)	Ausenco	2008	Ni Rich Filter/Coalescer 2700 gpm (606 m3/hr)
Kinsevere Mining Project (Anvil Mining Limited)	Democratic Republic of Congo	Three (3) SX-1100 (11.2 ft) (4.3 m)	Ausenco	2008	SX Electrolyte Filter/Coalescer 2400 gpm (540 m3/hr)
Lomas Bayas (Xstrata plc)	Santiago, Chile	Four (4) SX-1115 (15.5 ft) (4.7 m)	Fluor Daniel	1998	SX Electrolyte Filter/Coalescer 3800 gpm (863 m3/hr)
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 m3/hr)
Mantos Blancos (Anglo American)	Mantoverde, Chile	Three (3) SX-1090 (13.0 ft) (4.0 m)	Bechtel BSK-MV	1995	SX Electrolyte Filter/Coalescer 2000 gpm (454 m3/hr)
Mantos Blancos (Anglo American)	Santa Barbara, Chile	Three (3) SX-1090 (13.0 ft) (4.0 m)	Bechtel-ARA	1995	SX Electrolyte Filter/Coalescer 2000 gpm (454 m3/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 m3/hr)
Mfulira Expansion SX1 (Mopani Copper Mine plc)	Zambia	Four (4) SX-1025 (6.4 ft) (2.0 m)	GRA	2007	SX Electrolyte Filter/Coalescer 640 gpm (145 m3/hr)
Mfulira Expansion SX2 (Mopani Copper Mine plc)	Zambia	Four (4) SX-1025 (6.4 ft) (2.0 m)	GRA	2007	SX Electrolyte Filter/Coalescer 640 gpm (145 m3/hr)
Mfulira Expansion SX3 (Mopani Copper Mine plc)	Zambia	Four (4) 4 x 1.95 mØ x 1.55m	GRA	2007	SX Electrolyte Filter/Coalescer 640 gpm (145 m3/hr)
Murrin Murrin (Minera Resources Ltd.)	Western Australia	Matrix Tower MT-980	Fluor Daniel	1998	Nickel
Mutanda Mining Project (Mutanda Mining S.P.R.L.)	Democratic Republic of Congo	Three (3) SX-1045 (8.5 ft) (2.6 m)	GRD Minproc	2009	SX Electrolyte Filter/Coalescer 814 gpm (185 m3/hr)
Myanmar Ivanhoe Copper Company	Monywa, Indonesia	Three (3) SX-1050 (9.0 ft) (2.7 m)	CMPS&F	1997	Cu Electrolyte Filter/Coalescer 889 gpm (202 m3/hr)
Nkana Leach (Mopani Copper Mine plc)	Zambia	Three (3) SX-1025 (6.4 ft) (2.0 m)	GRA	2006	SX Electrolyte Filter/Coalescer 640 gpm (145 m3/hr)
Nkana Calcine Leach (Mopani Copper Mine plc)	Zambia	Three (3) SX-1025 (6.4 ft) (2.0 m)	GRA	2006	SX Electrolyte Filter/Coalescer 640 gpm (145 m3/hr)
Nkana Oxide Leach (Mopani Copper Mine plc)	Zambia	Three (3) SX-1025 (6.4 ft) (2.0 m)	GRA	2006	SX Electrolyte Filter/Coalescer 640 gpm (145 m3/hr)

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SX Dual-Media Filter Projects Solvent Extraction & Mining Industry - SX Filter Projects (continued)

Client	Location	System	Engineer		Application
Phelps Dodge Mining Project (Freeport-McMoRan Copper & Gold Inc.)	Morenci, AZ USA	Two (2) SX-1010 (5.0 ft) (1.5 m)	AMEC	2007	Cu Electrolyte Filter/Coalescer 1969 gpm (44 m3/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 m3/hr)
Sable Zinc	Zambia	Three (3) SX-1020 (6.2 ft) (1.9 m)	GRA	2008	SX Electrolyte Filter/Coalescer 440 gpm (100 m3/hr)
Salton Sea Pilot Project (BHP Minerals)	California	One (1) SX-910 (0.5 ft) (0.2 m)		1996	SX Electrolyte Filter/Coalescer 1 gpm (1 m3/hr)
Salton Sea Pilot Project (BHP Minerals)	California	One (1) SX-940 (1.0 ft) (0.3 m)		1996	SX Raffinate Filter/Coalescer 5 gpm (2 m3/hr)
Sepon Mining Project (Lane Xang Minerals Limited)	Laos	Two (2) SX-1120 (16.0 ft) (4.9 m)	Outokumpo Oyj	2008	Cu Electrolyte Filter/Coalescer 5000 gpm (1141 m3/hr)
Sepon Expansion Mining Project (Lane Xang Minerals Limited)	Laos	One (1) SX-1120 (16.0 ft) (4.9 m)	KDG	2008	Cu Electrolyte Filter/Coalescer 2500 gpm (570 m3/hr)
Skorpion Zinc Mining Project (Anglo American Base Metals)	Namibia	Five (5) SX-1125 (16.5 ft) (5.0 m)	Bateman	2002	Electrolyte Filter/Coalescer 2175 gpm (494 m3/hr)
Skorpion Zinc Mining Project (Anglo American Base Metals)	Namibia	Six (6) SX-1115 (15.5 ft) (4.7 m)	Bateman	2002	Raffinate Filter/Coalescer 4667 gpm (1060 m3/hr)
Skorpion Zinc Mining Project (Anglo American Base Metals)	Namibia	Three (3) SX-1115 (15.5 ft) (4.7 m)	Bateman	2002	Manganese Reduction of Electrolyte 2215 gpm (503 m3/hr)
Skorpion Zinc Mining Project (Anglo American Base Metals)	Namibia	Two (2) SX-1000 (4.0 ft) (1.2 m)	Bateman	2002	HCl Solution Filter/Coalescer 43 gpm (10 m3/hr)
Skouriotissa Copper Mining Project (Hellenic Mining Co. Ltd.)	Cyprus, Greece	Two (2) SX-1050 (9.0 ft) (2.7 m)	Davy International	1995	SX Electrolyte Filter/Coalescer 220 gpm (50 m3/hr)
Southern Peru Copper Corporation	Toquepala, Peru	Three (3) SX-1095 (13.5 ft)	Bechtel/Cosapi	1999	SX Electrolyte Filter/Coalescer 1400 gpm (318 m3/hr)
Southern Peru Copper Corporation	Lima, Peru	Two (2) SX 1095 (13.5 ft) (4.1 m)	Bechtel International	1999	SX Electrolyte Filter/Coalescer 1132 gpm (257 m3/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 m3/hr)
Tenke Fungurume Mining Project (Freeport-McMoRan Copper & Gold Inc.)	Democratic Republic of Congo	Four (4) SX-1125 (16.4 ft) (5.0 m)	GRD Minproc	2011	SX Electrolyte Filter/Coalescer 4250 gpm (962 m3/hr)
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 m3/hr)
Thai Copper Industries, Ltd.	Thailand	One (1) SX-1000 (4.0 ft) (1.2 m) 57 gpm (13 m3/hr)	Kvaerner Davy	1998	SX Electrolyte Filter/Coalescer 57 gpm (13 m3/hr)
Western Mining	Nifty Copper, Australia	Three (3) SX-1035 (7.5 ft) (2.3 m)	Western Engineering Company	1995	SX Electrolyte Filter/Coalescer 660 gpm (150 m3/hr)

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Aqueous/Organic Coalescer Projects Solvent Extraction & Mining Industry

Client	Location	System	Engineer	Application
Ambatovy Mining Project (Dynatec Madagascar S.A.)	Madagascar	Three (3) Scrubbed Zinc Loaded Organic Tanks (9mx2mx11m)	SNC-Lavalin	2009 Aqueous Coalescer 669 gpm (152 m3/hr)
Ambatovy Mining Project (Dynatec Madagascar S.A.)	Madagascar	Three (3) Cobalt Sulphate Settling Tanks (5mx2mx5.7m)	SNC-Lavalin	2009 Organic Coalescer 44 gpm (10 m3/hr)

Aqueous/Organic Coalescer Projects Solvent Extraction & Mining Industry(continued)

Client	Location	System	Engineer	Application
Ambatovy Mining Project (Dynatec Madagascar S.A.)	Madagascar	Three (3) Cobalt Stripped Organic Tanks (9.5mx2mx10m)	SNC-Lavalin	2009 Aqueous Coalescer 695 gpm (158 m3/hr)
Ambatovy Mining Project (Dynatec Madagascar S.A.)	Madagascar	Three (3) Zinc Raffinate Settling Tanks (10mx2mx19m)	SNC-Lavalin	2009 Organic Coalescer 572 gpm (130 m3/hr)
Ambatovy Mining Project (Dynatec Madagascar S.A.)	Madagascar	Three (3) Zinc Sulfate Settling Tanks (4mx2mx7.2m)	SNC-Lavalin	2009 Organic Coalescer 72 gpm (16.4 m3/hr)
Ambatovy Mining Project (Dynatec Madagascar S.A.)	Madagascar	Three (3) Plant Holding Tanks (6mx2mx7.3m)	SNC-Lavalin	2009 Organic Coalescer 532.4 gpm (121 m3/hr)
Ambatovy Mining Project (Dynatec Madagascar S.A.)	Madagascar	Three (3) Nickel Raffinate Settling Tanks (10mx2mx19m)	SNC-Lavalin	2009 Organic Coalescer 638 gpm (145 m3/hr)
Andacollo (Compania Minera Teck Carmen de Andacollo)	Chile	One (1) MT-2308	Davy	1996 Organic Coalescer 4600 gpm (1045 m3/hr)
Cawse Nickel Mining Project (Norilsk Nickel)	Australia	Two (2) MT-2308	Davy	1998 Organic Coalescer 4600 gpm (1045 m3/hr)
Gunpowder Mining Project	Australia	Two (2) MT-1080 (12.0 ft) (3.6 m)	Bateman- Kinhill	1997 Aqueous Coalescer 3200 gpm (722 m3/hr)
	Russia	One (1) MT-1050 (9.0 ft) (2.7 m)	Minproc	1995 Organic Coalescer 1400 gpm (318 m3/hr)

Carbon Filters and Ion Exchanger Systems Solvent Extraction & Mining Industry

Client	Location	System	Engineer	Application
Altair Pilot Project (Altair Nanomaterials, Inc.)	Reno, NV USA	One (1) IX-910 (0.5 ft) (0.2 m)	Altair	2007 1 gpm (1 m3/hr)
Bulong Nickel Mining Project (Norilsk Nickel)	Australia	Two (2) CF-1035 (7.5 ft) (2.3 m)	Bateman- Kinhill, J.V. Kilbourn	1997 221 gpm (50 m3/hr)
Cawse Nickel Mining Project (Norilsk Nickel)	Kalgoorlie, W. Australia	Two (2) CF-1075 (11.5 ft) (3.5 m)	Minproc-Davy International	1998 519 gpm (118 m3/hr)
Cawse Nickel Mining Project (Norilsk Nickel)	Kalgoorlie, W. Australia	Two (2) CF-1040 (8.0 ft) (2.4 m)	Minproc-Davy International	1998 Nickel Electrolyte Filter/ Coalescer 250 gpm (57 m3/hr)
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 m3/hr)
Eichrom	Cananea, Sonora, Mexico	Three (3) Column Ion Exchange Unit	Mexicana de Cananea	1998 Iron Removal Copper Electrolyte
Eichrom	Various Locations	Three (3) Column Ion Exchange	Eichrom	1998 Iron Removal Copper Electrolyte
El Boleo Carbon Columns (Minera Y Metalurgica Del Boleo)	Mexico	Two (2) CF-1020 (1829mm) (3428mm)	Bateman	2015 Carbon Columns 85 gpm (19.2 m3/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 m3/hr)
Murrin Murrin (Minera Resources Ltd.)	Western	Carbon Filters	Fluor Daniel	1998 Nickel

SpinTek Client List

for hydrometallurgical applications.



Roytec Licensed Dual-Media Jobs

Client	System	Engineer	m3/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	m3/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

Roymec Licensed CoMatrix Jobs

Client	System	Engineer	m3/hr
Ambatovy	One (1) 1 x 0.35 mØ x 5.4m	SNC Lavalin	2
Ambatovy	One (1) 1 x 1.2 mØ x 5.4m	SNC Lavalin	28
Ambatovy	One (1) 1 x 0.4 mØ x 5.4m	SNC Lavalin	4