

**EXPERIENCE LIST**  
Electrical, Instrumentation and Controls for Turbomachinery

Identifier	Scope	System Platform	Machine	Count	Drive	Installation Country	End User	Application	Machine Duty	Startup
REF0114	Compressor Control System	Simatic S7-300	integrally geared	1		Germany	BASF AG	Glyoxal Plant	Process Air Compressor	2002/
REF0115	Compressor Control System	Simatic S7-300	integrally geared	1		Germany	BASF AG	Glyoxal Plant	Recycle Gas Compressor	2002/
REF0116	Compressor Control System	Simatic S7-300	integrally geared	1	ST	Czech Republic	Eastman Sokolov as	Acrylic Acid Plant	Recycle Gas Compressor	2002/
REF0117	Frequency Converter Aux Panel			1		Spain	Basell Polyolefinas Iberica SA	Polypropylene Plant	Drive - Compressor	2002/
REF0118	Engg - Compressor Integration	Yokogawa CS 3000				Iran	Marun Petrochemical Co	Gas Cracking Plant	Regeneration Gas Blower	2002/
REF0119	Engg - Compressor Integration	Yokogawa CS 3000		1		Iran	Fanavaran Petrochemical Co	Methanol Plant	Nitrogen Startup Blower	2003/
REF0121	Commissioning		integrally geared	1	EM	United Kingdom	Arbre	Wood Gasification	Gas Turbine Booster	
REF0122	Compressor Control System	Simatic S7-300	recip	2		Russia	Komsomolsk NPZ-Rosneft (OJSC)	Refinery		2001/
REF0123	Engg - Compressor Integration	Voith Turcon	barrel	1	ST	Germany	Mineraloelraffinerie Oberrhein	Refinery	Hydrogen Compressor	2001/
REF0124	Commissioning		integrally geared	3	EM	Iran	Total South Pars	Refinery	Instrument Air Compressor	
REF0125	Compressor Control System	Simatic S7-300	centrifugal	3	EM	Bulgaria	Union Minière	Copper Smelter	Process Air Compressor	2002/
REF0126	Controls & Electrical Container	multiple	integrally geared	2	EM	Germany	EEG - Erdgas Erdoel GmbH	Upstream Gas Compression	Booster Compressor	2002/
REF0127	Commissioning	SLC 500	integrally geared		HC/EM	China	Guixi	Metallurgy	Air Compressor	
REF0128	Compressor Control System	multiple	integrally geared	1	EM	Chile	Codelco El Teniente Division	Copper Converter	Process Air Compressor	2003/
REF0129	Compressor and Master Control	Simatic S7-300	integrally geared	7	EM	Greece	JV Psyttalia	Waste Water Treatment	Air Compressor	2003/
REF0130	Compressor Control System	Simatic S7	recip	1		Russia	OOO Lukoil Permnefteorgsintez			
REF0132	Compressor Control System	Simatic S7	recip	2		Russia	Techhydrosystemy		Acetylene Compressor	
REF0134	Compressor Control System					India		Metallurgy		2003/
REF0135	Compressor and Master Control	Simatic S7-300		2		China	Jinchuan Nonferrous Metals Co	Copper Converter		2003/
REF0136	Compressor Master Control	Simatic S7-300		2		China	Jinchuan Nonferrous Metals Co	Copper Converter		2003/
REF0137	Compressor Control System	Simatic S7-400HF	integrally geared	1		Hungary	Hungarian Oil and Gas Plc MOL	Methane-Sulfonic Acid	Process Air Blower	2002/
REF0138	Compressor Control System	Simatic S7-300		1		India	Indo Gulf Corp Ltd	Copper Smelter	Process Air Compressor	2003/
REF0139	Compressor Control System	Simatic S7-300		1		India	Indo Gulf Corp Ltd	Copper Smelter	SO2 Blower	2003/
REF0141	Engg - Compressor Integration	Honeywell TDC 3000		1		Spain	Repsol Chimica	Desulphurization	Process Air Compressor	2003/
REF0142	Compressor Control System	Simatic S7-300H				South Korea	Capro Corp	Caprolactam	Vapor Blower	2003/
REF0143	Compressor Control System					India		Metallurgy		2004/
REF0144	Engg - Turbomachinery Controls					Germany	PCK Schwedt	Refinery		

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REF0146	Compressor Control System	multiple		1	EM	Kazakhstan	TengizChevroil	Desulphurization	Air Blower	2008/
REF0147	Compressor Control System	multiple		1	ST	Kazakhstan	TengizChevroil	Desulphurization	Air Blower	2008/
REF0148	Compressor Control System	multiple		1	EM	Kazakhstan	TengizChevroil	Desulphurization	Startup Blower	2008/
REF0151	Compressor Control System					Germany		Waste Water Treatment		2004/
REF0152	Compressor Control System	multiple	recip	2		China	BASF-YPC	Ethylene Oxide / Glycol	Ethylene Compressor	2003/
REF0153	Compressor Control System	multiple	recip	1		China	BASF-YPC	Ethylene Oxide / Glycol	Nitrogen Compressor	2003/
REF0155	Compressor Control System	Simatic S7-300				China	Jinchuan Nonferrous Metals Co	Copper Converter		2007/06
REF0156	Compressor Master Control			4		Germany	Stora Enso Maxau	Paper Factory	Vapor Compressor	2004/
REF0157	Compressor Control System	ABB Protronic 500	integrally geared	1		South Korea	Posco	Steel Plant - Midrex	Recycle Gas Compressor	2004/11
REF0158	Compressor Control System					Bulgaria		Metallurgy		2005/
REF0159	Compressor Control System					Kazakhstan		Refinery	Exhaust Vapor Compressor	2007/12
REF0160	Compressor Control System	multiple	integrally geared	1	ST	China	Qilu Petrochemical Co Ltd	Petrochemical Industry	Recycle Gas Compressor	2004/
REF0161	Compressor Control System	multiple	integrally geared	1	ST	China	SECCO	Sulphuric Acid Plant	Main Acid Gas Compressor	2004/
REF0162	Compressor Control System	Simatic S7-300	overhung	1	EM	India	Hindustan Zinc	Metallurgy	SO2 Blower	2005/03
REF0163	Engg - Compressor Integration	DCS	centrifugal	1	EM	China	Shandong Befar Group Ltd	Chlorine Compression		2005/11
REF0164	Compressor Control System	multiple	integrally geared	1	ST	China	Jilin Petrochemical Co Ltd	Petrochemical Industry	Hydrogen Compressor	2004/08
REF0165	Compressor Control System	Simatic S7-300	centrifugal	1	EM	Belgium	Solvay SA	Chlorine Compression		2005/10
REF0166	Compressor Control System	multiple		1	ST	Turkey	Bagfas	Sulphuric Acid Plant		2005/
REF0167	Compressor Control System	multiple		2	ST	Iran	National Iranian Gas Co NIGC	Gas Plant		2005/
REF0168	Frequency Converter Aux Panel			1		Iran	Pars	Polyethylene HDPE	Drive - Gear Pump	2008/01
REF0169	Frequency Converter Aux Panel			1		Iran	Pars	Polyethylene HDPE	Drive - Extruder	2008/01
REF0170	Compressor Control System					India	Indo Gulf Corp Ltd	Metallurgy	SO2 Blower	2005/
REF0171	Compressor Control System	Simatic S7-300	recip			Russia	Rjasan	Refinery	Oxygen Compressor	2005/
REF0172	Gas Turbine Control System	multiple				Iraq		Power Generation		2007/10
REF0173	Commissioning		integrally geared	1	EM	Trinidad		Metallurgy	Hydrogen Compressor	2004/09
REF0174	Engg - Compressor Integration	DCS	centrifugal	1	EM	Netherlands	Akzo Nobel Chemicals BV	Chlorine Compression		2006/04
REF0175	Compressor Remote I/O Station	Simatic ET200	recip	1		Iran	Arya Sasol Polymers Company	Polyethylene HDPE		2006/

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REF0176	Compressor Control System	multiple	integrally geared	1	EM	Qatar	Qatar Petroleum	Flare Gas Mitigation	Process Gas Compressor	2007/07
REF0177	Compressor Control System			1	EM	Qatar	Dolphin Energy Ltd	Gas Compression Facility	Process Gas Blower	2007/06
REF0178	Compressor Control System			1	EM	Qatar	Dolphin Energy Ltd	Gas Compression Facility	Startup Fan	2007/
REF0179	Compressor Control System	Simatic S7-300		4	EM	Qatar	Dolphin Energy Ltd	Gas Compression Facility	Combustion Air Blower	2007/05
REF0180	Compressor Control System	Simatic S7-300				Taiwan	Formosa Plastics Corp	Petrochemical Industry		2006/06
REF0181	Engg - Compressor Integration	DCS	recip			Italy	ENI Refining & Marketing Division	Gasification Plant		
REF0182	Engg - Compressor Integration	DCS	recip			Germany	Linde Gas	H2 / CO Plant	Process Gas Compressor	
REF0183	Compressor Control System	Simatic S7-400F	integrally geared	3	EM	Qatar	Dolphin Energy Ltd	Power Generation	Gas Turbine Booster	2007/12
REF0184	Compressor Control System	Simatic S7-300	centrifugal	1	EM	Hungary	BorsodChem Rt	Chlorine Compression		2006/04
REF0185	Engg - Turbomachinery Controls			2		Germany	Total Raffinerie Mitteldeutschland	POX Methanol	Oxygen Compressor	
REF0186	Engg - Turbomachinery Controls			2		Germany	Total Raffinerie Mitteldeutschland	POX Methanol	Refrigerant Compressor	
REF0187	Engg - Turbomachinery Controls			1		Germany	Total Raffinerie Mitteldeutschland	POX Methanol	Synthesis Gas Compressor	
REF0188	Engg - Turbomachinery Controls			1		Germany	Total Raffinerie Mitteldeutschland	POX Methanol	Boiler Feed Water Pump	
REF0189	Compressor Control System	Simatic S7-400HF	recip			Czech Republic	Slovnaft AS	Petrochemical Industry	Hydrogen Compressor	2005/04
REF0190	Compressor Control System	Simatic S7-300				Poland	Mercus		SO2 Blower	2005/07
REF0191	Compressor Control System	Allen Bradley				Peru	Southern Peru Copper Corp	Metallurgy	Air Compressor	2007/01
REF0192	Compressor Control System	Simatic S7-300	recip	2	EM	China			Nitrogen Compressor	
REF0193	Compressor Control System	Simatic S7-300	centrifugal	1	EM	Hungary	BorsodChem Rt	Chlorine Compression		2006/10
REF0194	Compressor Control System	ControlLogix		2		Taiwan	Formosa Petrochemical Co	Refinery	Process Air Compressor	2007/10
REF0195	Compressor Control System	ControlLogix		1		Taiwan	Formosa Petrochemical Co	Refinery	Startup Blower	2007/10
REF0196	Turbine Pre-Commissioning	Voith Turcon D		1	ST	Iran	Bandar Imam Petrochemical Co	Olefins Plant	Compressor Drive	2005/05
REF0197	Turbine Pre-Commissioning	Voith Turcon D		1	ST	Iran	Bandar Imam Petrochemical Co	Olefins Plant	Compressor Drive	2005/05
REF0198	Engg - Compressor Integration	DCS	centrifugal	1	EM	China	Xinwen Mining Group Co Ltd	Chlorine Compression		2006/10
REF0199	Engg - Compressor Integration	Siemens Teleperm XP	integrally geared	6	EM	UAE	Dubai Electricity & Water Authority	Power Generation	Gas Turbine Booster	
REF0200	Compressor Master Control		fan	7		China	Taiyuan Steel Works	Steel Plant	Coke Gas Fan	2006/
REF0201	Compressor Master Control		fan	4		China	Taiyuan Steel Works	Steel Plant	BFG Booster Fan	2006/
REF0202	Compressor and Master Control	multiple	integrally geared	3		South Korea	Posco	Steel Plant - Midrex	Recycle Gas Compressor	2007/12

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REF0203	Compressor Control System	Simatic S7-300F	recip	1		Austria	Linde Gas	Industrial Gases	Oxygen Compressor	2005/10
REF0204	Engg - Plant Integration	Siemens Teleperm XP				United Arab Emirates	Dubai Electricity & Water Authority	Power Generation BOP		
REF0205	Compressor Control System	Simatic S7-300		3		Croatia		Waste Water Treatment	Air Compressor	2006/
REF0206	Compressor Control System	multiple		2		USA	BASF	Ethylene Plant	Nitrogen Compressor	2006/
REF0207	Engg - Compressor Integration	DCS	centrifugal	1	EM	China	Jiangsu Anpon Electrochemical Co Ltd	Chlorine Compression		2007/08
REF0208	Engg - Compressor Integration	DCS				Germany	Degussa AG	Chlorine Compression		2006/04
REF0209	Surge Protection System			6		Germany	E.ON	Power Generation	Oxidation Air Compressor	
REF0210	Engg - Compressor Integration	DCS	integrally geared	1	EM	Russia	Ufimsky NPZ	Refinery	Tail Gas Compressor	2006/05
REF0211	I&C Technical Assistance	multiple	integrally geared	2	EM	Germany	EEG - Erdgas Erdoel GmbH	Upstream Gas Compression	Booster Compressor	2005/09
REF0212	I&C Technical Assistance	multiple	integrally geared	2	EM	Germany	EEG - Erdgas Erdoel GmbH	Upstream Gas Compression	Booster Compressor	2005/09
REF0213	Engg - Anti Surge Controls	Simatic PCS7	integrally geared	1	EM	Germany	Linde Gas	Air Separation Plant	Air Compressor	2006/
REF0214	Engg - Compressor Integration	DCS	centrifugal	1	EM	China	Yantai Wanhua Synthetic Leather Group Co Ltd	Chlorine Compression		2006/12
REF0215	Engg - Compressor Integration	DCS	centrifugal	1	EM	China	Sinopec Nanjing Caustic Soda Co	Chlorine Compression		2007/10
REF0216	Compressor Control System	Simatic S7-300	recip	2		Russia			Nitrogen Compressor	
REF0218	Compressor Instrumentation			1	EM	China	Henan Longyu Coal Chemical Co Ltd	Methanol		
REF0219	Engg - Compressor Integration	DCS	integrally geared	1	EM	Romania	Bucuresti Vest	Power Generation	Gas Turbine Booster	
REF0220	Engg - Compressor Integration	Yokogawa CS 3000	integrally geared	1	EM	USA	YankeeGas	Refrigeration	Mixed Refrigerant Compressor	
REF0221	Engg - Compressor Integration	DCS	integrally geared	2	EM	USA		Refrigeration	Refrigerant Compressor	
REF0222	I&C Technical Assistance			3		Brazil	Petrobras	Lube Oil Plant	Process Air Compressor	2006/01
REF0223	Engg - Compressor Integration	DCS	centrifugal	1	EM	China	Guangrao Jinling Chlorine Alkali Co Ltd	Chlorine Compression		2007/01
REF0224	Compressor Operator Panel	Simatic S7-300		18	EM	China		Petrochemical Industry		2006/04
REF0225	Compressor Operator Panel	Simatic S7-300			ST	China		Petrochemical Industry		2006/04
REF0226	Compressor Control System	Simatic S7-300F	fan			Germany	Gasruss	Carbon Black		
REF0227	Compressor Control System	multiple	recip	2		Russia	Refinery Kirishi	Refinery		2006/08
REF0228	Engg - Retrofit					South Africa	Mittal Steelworks	Steel Plant		
REF0229	Engg - Compressor Integration	DCS	centrifugal	1	EM	China	Jiangsu Lee & Man Chemical Co Ltd	Chlorine Compression		2008/04
REF0230	Engg - Compressor Integration	Voith Turcon 32	centrifugal	1	ET	Germany	OMV Deutschland GmbH	Ethylene Plant	Raw Gas Compressor	2008/03

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REF0231	Engg - Compressor Integration	Voith Turcon 32	centrifugal	1	ST	Germany	OMV Deutschland GmbH	Propylene Plant	Tertiary Compressor	2007/12
REF0232	Compressor Control System	ControlLogix		1	EM/ST	South Korea	LG	Petrochemical Industry	Process Air Compressor	2007/11
REF0233	Compressor Control System	ControlLogix		1	EM/ST	South Korea	LG	Petrochemical Industry	Recycle Gas Compressor	2007/11
REF0234	Compressor/Dryer Control	Simatic S7-400H	integrally geared	1	EM	Netherlands	Pernis Energie BV	Compressed Air	Air Compressor	2007/12
REF0235	Compressor Control System	CompactLogix		6		Mexico	Pemex	Refinery	Air Compressor	
REF0236	Compressor Control System	CompactLogix		2		Mexico	Pemex	Refinery	Process Gas Blower	
REF0237	Compressor Control System	Simatic S7-400HF	integrally geared	2		China	Dushanzi Petrochemical Co	Petrochemical Industry	Ethylene Compressor	2007/
REF0238	Compressor Control System			1		China		Copper Converter		2007/
REF0239	Compressor Control System	Simatic S7-300F	recip	1		Kazakhstan	Refinery Pavlodar	Refinery		2007/
REF0240	Compressor Control System	Simatic S7-300F	recip	1		Kazakhstan	Refinery Pavlodar	Refinery		2007/
REF0242	Commissioning		recip	4	EM	Indonesia			Hydrogen Compressor	2006/12
REF0243	Compressor Control System	Simatic S7-300	overhung	1	EM	India	Hindustan Zinc	Metallurgy	SO2 Blower	2007/03
REF0244	Engg - Compressor Integration	DCS	centrifugal	1	EM	China	Tangshan Chlorine Alkali Co Ltd	Chlorine Compression		2007/06
REF0245	Engg - Compressor Integration	multiple	overhung	2	EM/ET	Saudi Arabia	Confidential	Petrochemical Industry	Recycle Gas Compressor	2008/
REF0246	Engg - Compressor Integration	multiple	dry screw	2	EM	Saudi Arabia	Confidential	Petrochemical Industry	Vent Recovery Compressor	2008/
REF0247	Engg - Compressor Integration	multiple	recip	3	EM	Saudi Arabia	Confidential	Petrochemical Industry	Nitrogen Compressor	2008/
REF0248	Engg - Compressor Integration	multiple	wet screw	2	EM	Saudi Arabia	Confidential	Process Refrigeration	Refrigerant Compressor	2008/
REF0249	Engg - Compressor Integration	multiple	turbo	2	EM	Saudi Arabia	Confidential	Utility Refrigeration	Refrigerant Compressor	2008/
REF0250	Engg - Compressor Integration	multiple	integrally geared	6	EM	Saudi Arabia	Confidential	Petrochemical Industry	Transfer Compressor	2008/
REF0251	Miscellaneous					Austria	Linde Gas	Industrial Gases		2006/07
REF0252	Compressor Instrumentation					Germany			Hydrogen Compressor	
REF0253	Compressor Control System	Simatic S7-400F	integrally geared	2	EM	Latvia	AS Latvenergo	Power Generation	Gas Turbine Booster	2008/
REF0254	Compressor Control System	Hima H51q	recip	1	EM	Iran	Arak Petrochemical Co	Polyethylene LLDPE	Ethylene Compressor	
REF0255	Compressor Control System	Simatic S7-300	overhung	2	EM	Finland	Pori Energia Oy	Converter Plant	Blast Air Compressor	2007/11
REF0256	Compressor Control System	Simatic S7-400H	integrally geared	1	EM	India	KRIBHCO	Argon Recovery Plant	Nitrogen Compressor	2008/
REF0257	Compressor Master Control			4		Germany		Refinery	Instrument Air Compressor	2007/
REF0258	Compressor Control System	Simatic S7-300				Germany	Berliner Wasserbetriebe	Waste Water Treatment	Air Compressor	

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REF0259	Compressor Control System	Simatic S7-300	centrifugal	1	EM	Russia	Kaustik	Chlorine Compression		2008/01
REF0260	Engg - Compressor Integration	DCS	centrifugal	1	EM	China	Shandong Befar Group Ltd	Chlorine Compression		
REF0261	Engg - ESD Integration	Tristation				Saudi Arabia	Confidential	Petrochemical Industry		
REF0263	Compressor Control System	CompactLogix	overhung	1	EM	Saudi Arabia	Aramco Overseas & Sumitomo Chemical	Refinery	SO2 Blower	
REF0264	Engg - Anti Surge Controls	Simatic PCS7	integrally geared	1	EM	Germany	Linde Gas	Air Separation Plant	Air Compressor	2007/03
REF0265	Engg - Anti Surge Controls	Yokogawa CS 3000	integrally geared	1	EM	Germany	Linde Gas	Air Separation Plant	Air Booster Compressor	2007/
REF0266	Engg - DCS	Simatic PCS7	integrally geared	6	EM	Saudi Arabia	Confidential	Petrochemical Industry	Transfer Compressor	2007/07
REF0267	I&C Technical Assistance	multiple	integrally geared	2	EM	Germany	EEG - Erdgas Erdoel GmbH	Upstream Gas Compression	Booster Compressor	
REF0268	Compressor Control System	ABB Protronic 500	integrally geared	1	ST	India	RCF Thal	Argon Recovery Plant	Nitrogen Compressor	
REF0269	Engg - DCS	Honeywell Experion				Saudi Arabia	Confidential	Petrochemical Industry		
REF0270	Engg - Anti Surge Controls	Simatic PCS7	integrally geared	1	EM	Germany	Linde Gas	Air Separation Plant	Air Compressor	2007/
REF0271	Compressor Control System	CompactLogix	overhung	1	EM	United Kingdom	Envirowales Ltd	Chemical Industry	Vapor Compressor	
REF0272	Machine Monitoring System	Bently Nevada 3500	expander	1		India	KRIBHCO	Argon Recovery Plant		2007/11
REF0273	Machine Monitoring System	Bently Nevada 3500	integrally geared	1	EM	India	KRIBHCO	Argon Recovery Plant	Nitrogen Compressor	2007/11
REF0274	Machine Monitoring System	Bently Nevada 3500	recip	1		India	KRIBHCO	Argon Recovery Plant		2007/11
REF0275	Machine Monitoring System	Bently Nevada 3500	wet screw	1		India	KRIBHCO	Argon Recovery Plant		2007/11
REF0276	Compressor Control System	Simatic S7-400H	integrally geared	1	EM	China	Shanghai Hualin Industrial Gases Co Ltd	H2 / CO Plant	CO Compressor	2008/
REF0277	Compressor Control System	Tricon	integrally geared	1	EM	Saudi Arabia	Saudi Intl Petrochemical Co SIPCHEM	Carbon Monoxide Plant	Natural Gas Compressor	2008/
REF0278	Compressor Control System	Tricon	integrally geared	1	EM	Saudi Arabia	Saudi Intl Petrochemical Co SIPCHEM	Carbon Monoxide Plant	CO2 Compressor	2008/
REF0279	Compressor Control System	multiple	integrally geared	1	ST	Saudi Arabia	Saudi Intl Petrochemical Co SIPCHEM	Carbon Monoxide Plant	CO Compressor	2008/
REF0280	Machine Monitoring System	Bently Nevada 3500		1		Saudi Arabia	Saudi Intl Petrochemical Co SIPCHEM	Carbon Monoxide Plant	BDO H2 Compressor	2008/
REF0281	Machine Monitoring System	Bently Nevada 3500		1		Saudi Arabia	Saudi Intl Petrochemical Co SIPCHEM	Carbon Monoxide Plant	Combustion Air Fan	2008/
REF0282	Machine Monitoring System	Bently Nevada 3500		1		Saudi Arabia	Saudi Intl Petrochemical Co SIPCHEM	Carbon Monoxide Plant	Flue Gas Fan	2008/
REF0283	Engg - Compressor Integration	Foxboro	recip	2	EM	Czech Republic	Ceska Rafinerska	Fuel Catalytic Cracking	Process Gas Compressor	
REF0284	Compressor Control System	Simatic C7-636	centrifugal	1	EM	China	Binzhou Ocean Chemical Industry Co Ltd	Chlorine Compression		2008/
REF0285	Compressor Control System	Simatic S7-300	centrifugal	1	EM	China	Dongming Wanhai Chlorine-Alkaline Co Ltd	Chlorine Compression		2008/04
REF0286	Compressor Control System	Simatic C7-636	centrifugal	1	EM	China	Xinjiang Tianye Group Co Ltd	Chlorine Compression		2007/12

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REF0287	Compressor Control System	Simatic C7-636	centrifugal	1	EM	China	Xinjiang Tianye Group Co Ltd	Chlorine Compression		
REF0288	Compressor Control System	Simatic C7-636	centrifugal	1	EM	China	Nanjing Kumho GPRO Chemical Co Ltd	Chlorine Compression		
REF0289	Engg - DCS	Yokogawa CS 3000				Saudi Arabia	Saudi Basic Industries Corp SABIC	Polypropylene Catalysator		
REF0290	Engg - Compressor Integration	DCS	recip	1	EM	Saudi Arabia	Sahara / Basell	Propane Dehydration		
REF0291	Anti Surge Control System	Simatic ET200				Germany		Catalyst Regen Plant	Hot Recycle Gas Compressor	
REF0292	Compressor Control System	Simatic S7-400H		1	EM	Iran	Esfahan Petrochemical Co	Polyamid Plant	Process Air Blower	
REF0293	Compressor Control System	Simatic S7-300	overhung	1	EM	India	Hindustan Zinc	Metallurgy	SO2 Blower	
REF0294	Engg - Station Control System	Simatic PCS7 / S7-400HF				UAE	Abu Dhabi Co for Onshore Oil Operations ADCO	Gas Compressor Station		
REF0295	Engg - Compressor	Simatic PCS7 / S7-400HF	barrel	9	VSD	UAE	Abu Dhabi Co for Onshore Oil Operations ADCO	Gas Compressor Station	Pipeline Compressor	
REF0296	Compressor Control System	Simatic S7-400H		1	ST	Netherlands	Pernis Energie BV	Compressed Air	Air Compressor	2008/
REF0297	Compressor Control System	Simatic S7-400H		1	ST	Netherlands	Pernis Energie BV	Compressed Air	Air Compressor	2008/
REF0298	Compressor Control System	Simatic S7-400H		1	ST	Netherlands	Pernis Energie BV	Compressed Air	Generator	2008/
REF0299	Commissioning	Simatic S7-400HF	integrally geared	1	EM	Greece	Public Power Corporation	Power Generation	Gas Turbine Booster	2007/03
REF0300	Engg - Extruder Integration	Simatic PCS7		4	EM	Saudi Arabia	Confidential	Petrochemical Industry		
REF0301	Compressor Control System	Simatic S7-300	centrifugal	1	EM	Brazil	Solvay Indupa do Brasil SA	Chlorine Compression		
REF0302	Engg - Anti Surge Controls	Yokogawa CS 3000	integrally geared	1	EM	Germany	Linde Gas	Air Separation Plant	Air Compressor	2007/12
REF0303	Engg - Anti Surge Controls	Yokogawa CS 3000		1		Germany	Linde Gas	Air Separation Plant	Oxygen Compressor	2007/12
REF0304	Compressor Control System	Simatic S7-400HF	recip	2	EM	Iran	PIDMCO	Monoethylene Glycol	Nitrogen Compressor	
REF0305	Compressor Control System	Simatic S7-400HF	recip	1	EM	Iran	PIDMCO	Monoethylene Glycol	Residual Gas Compressor	
REF0306	Compressor Control System	Simatic S7-300	recip	1	EM	Germany	OMV Gas International	Natural Gas Compression		2008/04
REF0307	Engg - Compressor Integration	DCS		1	EM	Malaysia	Petronas Methanol (Labuan) Sdn Bhd	Methanol		
REF0308	Engg - Compressor Integration					Germany	OMV Deutschland GmbH	Compressed Air		
REF0309	I&C Technical Assistance					Germany	Degussa AG	Chlorine Compression		2007/06
REF0310	Engg - Compressor Integration	DCS	centrifugal	1	EM	China	Shandong Befar Group Ltd	Chlorine Compression		
REF0311	Compressor Control System	multiple	overhung	1	EM	France	Arkema France	Chemical Industry		
REF0312	Compressor Control System	Simatic S7-300	centrifugal	2	ST	Taiwan	Dragon Steel Corp	Coking Plant		
REF0313	Compressor Control System	Simatic S7-300	recip	1	EM	Saudi Arabia	Eastern Petrochemical Co SHARQ	Polyethylene Plant		

**EXPERIENCE LIST**

Electrical, Instrumentation and Controls for Turbomachinery

Identifier	Scope	System Platform	Machine	Count	Drive	Installation Country	End User	Application	Machine Duty	Startup
REF0314	Compressor Control System	Simatic C7-636	centrifugal	1	EM	China	Dongying Xiefa Chemical Industry Co Ltd	Chlorine Compression		
REF0315	Compressor Control System	Simatic C7-636	centrifugal	1	EM	China	Dongying Xiefa Chemical Industry Co Ltd	Chlorine Compression		
REF0316	Compressor Control System	Simatic C7-636	centrifugal	1	EM	China	Dongying Xiefa Chemical Industry Co Ltd	Chlorine Compression		
REF0317	Compressor Control System	Simatic C7-636	centrifugal	1	EM	China	Dongying Xiefa Chemical Industry Co Ltd	Chlorine Compression		
REF0318	Compressor Control System	Simatic S7-400	overhung	3	EM	China	Jinchuan Nonferrous Metals Co	Copper Converter		
REF0319	Compressor Control System	Simatic S7-400	overhung	1	EM	China	Jinchuan Nonferrous Metals Co	Copper Converter		
REF0320	Surge Protection System					Germany	Linde Gas	Industrial Gases		
REF0321	Compressor Control System	Simatic S7-300	integrally geared	3	EM	Pakistan	Orient Power Company (Pvt) Ltd	Power Generation	Gas Turbine Booster	
REF0322	Compressor Control System	Simatic C7-636	centrifugal	1	EM	China	Jiangsu Lee & Man Chemical Co Ltd	Chlorine Compression		
REF0323	Compressor Control System	CompactLogix	integrally geared	1	EM	Germany	Eisenwerk Brühl GmbH	Steel Plant		
REF0324	I&C Technical Assistance			1		Russia	Ufimsky NPZ	Refinery	Air Compressor	
REF0325	Compressor Control System	Simatic S7-300	centrifugal	1	EM	China		Chlorine Compression		
REF0326	Compressor Control System	Hima H41q-HS	recip	1	EM	Iran	Iranian Offshore Oil Company IOOC	Gas Gathering		
REF0327	Commissioning					Australia	Ravensthorpe Nickel Operations Pty Ltd	Sulphuric Acid Plant		2007/07
REF0328	Compressor Control System	Simatic C7-636	centrifugal	1	EM	China	Anpon	Chlorine Compression		
REF0329	Compressor Control System	Simatic S7-400	overhung	1	EM	Belgium	Prayon	Sulphuric Acid Plant		
REF0331	Engg - DCS	Simatic PCS7				UAE	BOROUGE	Air Separation Plant		
REF0332	Compressor Control System	Simatic S7-300F	overhung	6	EM	Saudi Arabia	Saudi Arabian Mining Co MA'ADEN	Sulphuric Acid Plant	Main SO2 Blower	
REF0333	Compressor Control System	Simatic C7-636	centrifugal	1	EM	China		Chlorine Compression		
REF0334	Compressor Control System	Simatic C7-636	centrifugal	1	EM	China		Chlorine Compression		
REF0335	Compressor Control System	Simatic C7-636	centrifugal	1	EM	China		Chlorine Compression		
REF0336	Engg - DCS	Simatic PCS7				Saudi Arabia	Confidential	Petrochemical Industry		
REF0337	Skid Wiring		recip	4	EM	Syria	Syrian Gas Company	Gas Plant		
REF0338	Compressor Control System	Simatic S7-300	integrally geared	1	EM	Germany	Holborn Europa Raffinerie	Refinery	Cat Gas Compressor	
REF0339	Commissioning		recip	1	EM	India	KRIBHCO	Argon Recovery Plant		2007/11
REF0340	Piston Rod Monitoring System	Hoerbiger HydroCOM	recip	2	EM	Syria	Syrian Gas Company	Gas Plant	Stabilizer Compressor	
REF0341	Piston Rod Monitoring System	Hoerbiger HydroCOM	recip	2	EM	Syria	Syrian Gas Company	Gas Plant	Deethanizer OVHD Compressor	



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Electrical, Instrumentation and Controls for Turbomachinery

Identifier	Scope	System Platform	Machine	Count	Drive	Installation Country	End User	Application	Machine Duty	Startup
REF0342	Compressor Control System	Simatic S7-400H	centrifugal	3		Russia	Ufimsky NPZ	Refinery	Natural Gas Compressor	
REF0343	Compressor Control System	Simatic S7-400H	centrifugal	3		Russia	Ufimsky NPZ	Refinery	Air Compressor	
REF0344	Compressor Control System	CompactLogix		1	EM	Spain	Azor Ambiental SA	Chemical Industry	Vapor Compressor	
REF0345	Compressor Control System	Simatic S7-300		1	EM	South Korea	Kumho P&B Chemicals	BPA Plant	Air Blower	
REF0346	Engg - Compressor Integration	DCS		5	EM	Uzbekistan	Navoi-Utschkuduk	Metallurgy	Air Blower	
REF0347	Compressor Operator Panel		recip	1		Thailand	HMC Polymers Co Ltd	Polypropylene Plant		
REF0348	Compressor Control System	SLC 500	recip	2	EM	Thailand	HMC Polymers Co Ltd	Polypropylene Plant		
REF0349	Compressor Control System	ABB Protronic 500	centrifugal	1	EM	China	Tangshan Chlorine Alkali Co Ltd	Chlorine Compression		
REF0350	Engg - Anti Surge Controls	Simatic PCS7	integrally geared	1	EM	Germany	Linde Gas	Air Separation Plant	Air Booster Compressor	2006/
REF0351	Engg - Anti Surge Controls	Simatic PCS7	direct drive	1	ET	Germany	Linde Gas	Air Separation Plant	Air Booster Compressor	2006/
REF0352	Engg - Anti Surge Controls	Simatic PCS7	direct drive	1	ET	Germany	Linde Gas	Air Separation Plant	Air Booster Compressor	2006/
REF0353	Engg - Anti Surge Controls	Simatic PCS7	integrally geared	1	EM	Germany	Linde Gas	Air Separation Plant	Oxygen Compressor	2006/
REF0354	Engg - Anti Surge Controls	Simatic PCS7	integrally geared	1	EM	Germany	Linde Gas	Air Separation Plant	Air Booster Compressor	2007/03
REF0355	Engg - Anti Surge Controls	Simatic PCS7	direct drive	1	ET	Germany	Linde Gas	Air Separation Plant	Air Booster Compressor	2007/03
REF0356	Engg - Anti Surge Controls	Simatic PCS7	direct drive	1	ET	Germany	Linde Gas	Air Separation Plant	Air Booster Compressor	2007/03
REF0357	Engg - Anti Surge Controls	Simatic PCS7		1		Germany	Linde Gas	Air Separation Plant	Generator Drive Turbine	2007/03
REF0358	Engg - Anti Surge Controls	Simatic PCS7	integrally geared	1	EM	Germany	Linde Gas	Air Separation Plant	Oxygen Compressor	2007/03
REF0359	Engg - Anti Surge Controls	Yokogawa CS 3000	direct drive	1	ET	Germany	Linde Gas	Air Separation Plant	Air Booster Compressor	2007/
REF0360	Engg - Anti Surge Controls	Yokogawa CS 3000	direct drive	1	ET	Germany	Linde Gas	Air Separation Plant	Air Booster Compressor	2007/
REF0361	Engg - Anti Surge Controls	Yokogawa CS 3000	integrally geared	1	EM	Germany	Linde Gas	Air Separation Plant	Nitrogen Compressor	2007/
REF0362	Compressor Control System	Simatic S7-300	centrifugal	1	EM	Germany	Vinolit	Chlorine Compression		
REF0363			recip	2	EM	Saudi Arabia	Advanced Polypropylene Company	Propane Dehydration	Propylene BOG Compressor	2008/02
REF0364	Compressor Control System	Simatic C7-636	centrifugal	1	EM	China	Jinchuan	Chlorine Compression		
REF0365	Compressor Master Control					Germany	Opel	Compressed Air		2008/03
REF0366	Compressor Control System	Simatic S7-400HF	recip	2	EM	Greece	Hellenic Petroleum S.A.	Refinery	Recycle/MakeUp Gas Compressor	
REF0367	Engg - Compressor Integration			2		Greece	Hellenic Petroleum S.A.			
REF0368	Compressor and Master Control	Simatic S7-300	recip	3		Germany	Wasserwerke Zwickau	Waste Water Treatment		

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#### Electrical, Instrumentation and Controls for Turbomachinery

Identifier	Scope	System Platform	Machine	Count	Drive	Installation Country	End User	Application	Machine Duty	Startup
REF0369	Compressor Control System	Simatic PCS7 / S7-400HF	recip	2	EM	Belarus	Mozyr Oil Refinery	Refinery	Recycle Gas Compressor	
REF0370	Compressor Control System	Simatic PCS7 / S7-400HF	recip	3	EM	Belarus	Mozyr Oil Refinery	Refinery		
REF0371	Engg - Junction Boxes		fan	2	EM	Slovenija	Nafta-Petrochem d.o.o.		Recirculation Fan	
REF0372	Compressor Control System	Simatic S7-300	overhung	1	EM	Russia	Balakovo	Sulphuric Acid Plant	Air Blower	
REF0373	Engg - ESD					Saudi Arabia	Saudi Basic Industries Corp SABIC	Polypropylene Catalysator		
REF0374	Engg - Programming	multiple		5	EM	Uzbekistan	Navoi-Utschkuduk	Metallurgy	Air Blower	
REF0375	Compressor Control System	Simatic S7-300	overhung	1	EM	Kazakhstan	KazZink	Sulphuric Acid Plant	SO2 Blower	
REF0376	Engg - Programming					Zambia	NFC Africa	Metallurgy		
REF0377	Compressor Control System	CompactLogix	overhung	1	VFD	Peru	Doe Run Peru	Copper Smelter	SO2 Blower	
REF0378	Commissioning		integrally geared			Algeria	Sonatrach			