

Reference list



Customer	Automation for	Location	Amount of I/O	Process control system / operation system	Automation system	Recipe	Completion	Project manager Fa. Netzhammer
Fluka AG Buchs	Rotavapor O234	Buchs, CH	45	Bartec BDT 4	Mitsubishi FX	-	1999	J.M. Kopff
ROCHE Basel	Suction Filter	Basel, CH	50	ABB / Tesselator	PCR2	X	2001	D.Billich
Solvias	NIR-measurement	Novartis Grimsby, GB	50	-	Siemens	-	2005	W. Drescher
Ferrum	Scraping centrifuges	Europe	70	Siemens / WinCC	S7 - 300	X	since 2005	G. Holl
Selmoni	Steam turbine	Schweizerhalle, CH	70	Siemens / WinCC	S7 - 300	X	2008	M. Bacher
Novartis Stein	Optimising Stopper machine	Stein, CH	70	Siemens	PC477	X	2009	J. Gersbacher
EAG	Compressor	Basel, CH	80	Siemens	MP277	-	2007	D. Flas
ROCHE Basel	Band filter B029 Alteration	Basel, CH	100	Mac50	Mitsubishi A-Series	-	1995	W.D. Drescher
Astra Zeneca	Vacuum system	Bristol / GB	100	-	S7	-	1997	G. Holl
Rosenmund	Filtration machine	Leverkusen, D	100	Operator box EX	S7	-	2007	M. Bacher
Rosenmund	Filtration machine	Australia	100	Bartec	S7	X	2008	T. Rudin
Rosenmund	Filtration machine	Wuppertal, D	120	Stahl	S7	X	2009	T. Rudin
Solvias	NIR-Measurement	China	120	-	Siemens	-	2008	J.M. Kopff
Bucher-Guyer	Vacuum band dryer	Roche Basel, CH	140	Siemens / WinCC / SFA04	S7	X	2006	B. Meister
Millipore	Ultra filtration plant	Roche Basel, CH	140	PCS 7	S7	X	2009	W. Gassenschmidt
Sanofi Aventis	Powder Coater	Frankfurt, D	140	PC7 / PM Products	PCS 7 Box	X	2007	D. Sutter

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Roche Isando	Consulting Powder Mix Plant	Johannesburg South Africa	150	Siemens MP270	S7 – 300	-	2002	W. Drescher
ROCHE Basel	Filter press B034	Basel, CH	200	Siemens MP270	Siemens S7-300	X	1999	B. Meister
Alphacos	Filing closing machine	Italy	200	Siemens MP277	S7	X	2007	Y. Deckert
Aeromatic Fielder England	Spray dryer Multiprocessor MP 6/7	Aventis Frankfurt, D	220	ABB Operate IT	AC 800 F	X	2004	W. Drescher
ROCHE Basel	Column B093	Basel, CH	250	Sattline	Sattline	X	1997	Hp. Escher
Merckle Ulm	Hanag Stopper and caps washing machine	Ulm, D	250	Siemens WinCC / SFA04	Siemens S7 - 300	X	2005	Y. Deckert
ROCHE Village Neuf	Pharmacy ingredient	Village – Neuf, F	300	-	Telemecanique TSX-47	-	2001	Y. Müller
Cilag AG	Batch process production line Sterile vessels	Cilag AG Schaffhausen, CH	350	Delta V	Delta V	-	2000	W. Gassenschmidt
ROCHE Basel	Process Data recording with OSI PI	Basel, CH	350	Process Book/Data Link	PCR2	-	2004	D.Billich
ROCHE Kaiseraugst	GMP Personal air lock	Kaiseraugst, CH	360	-	S7 200	-	2009	N. Boeglin
Glaxo Smith Kline (Hanag AG)	Hardware engineering Stopper and caps washing machine	Brussels, Belgium	400	Panel View	Allen-Bradley RSLogix5000	-	2003	J.M. Kopff

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ROCHE Basel	Dryer B034	Basel, CH (sub-operation)	400	Sattline	Sattline	X	1996	Hp. Escher
ROCHE Basel	Dryer B050	Basel, CH	400	Sattline	Sattline	X	1998	Hp. Escher
Rosenmund	5 Filtration machines	Greece	500	Operator panel EX	S7	-	2007	M. Bacher
Rosenmund Liestal	Suction Filter	Dresden, D	500	-	Siemens S5-100U	-	2007	G. Holl
Rosenmund Liestal	Suction Filter	Pfizer Pharmaceuticals Ireland	500	-	Siemens S5-100U	-	1995	Y. Müller
ROCHE Basel	Tank farm redesign	Basel, CH	500	Siemens PCS7/WinCC	S7-400	-	2003	D. Billich
Emerson	Commissioning Novartis	Schweizerhalle, CH	600	Delta V	Delta V	X	2009	W. Gassenschmidt
Divi's Laboratories India	Consulting & Basic for Food Plant	Wisag / Hyderabad, India	650	Consulting for CIP and Basic		-	2006	W. Drescher
Christ AG Aesch	Water treatment plant	DRMNO Belgrade, SRB	800	-	Saia	-	1991	E. Netzhammer
Alphacos	Filing closing machine	USA	800	Rockwell Panel view	Rockwell	X	2006	Y. Deckert
Sartorius stedim	Batch process production line Fermenter	Brasilia	800	RS View SE	Rockwell	X	2009	Y. Deckert

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Astra Zeneca	4 x Vacuum system	Bristol, GB	1000	-	S7	-	2001	W.D. Drescher
ROCHE Basel	Hardware engineering MZ180 / 181/ 980 Multi function production	Basel, CH	1200	Siemens PCS7/WinCC	S7-400	X	2003	J.M. Kopff
ROCHE Basel	Training plant	Basel, CH	1200	ABB / Tesselator	PCR2	X	1997	Hp. Escher
ROCHE Basel	KLL 100 M Pilot plant	Basel, CH	1200	Siemens PCS7 / WinCC	Siemens S7-400	-	2001	J. M. Kopff
ROCHE Sisseln	VPU / CPU Powder plant	Sisseln, CH	1800	Siemens PCS7 / WinCC	Siemens S7-400	X	2000	W.D. Drescher
Swiss Railway (SBB)	Remote control lightning Northwest of Switzerland	Region Basel / Olten, CH	2000	WinCC / ADSL / SNMP PC670 Touch panel	S7 300	-	Since 2001	W. Drescher
Sanofi Aventis (Hanag AG)	Stopper and cabs processing machine (Sterilisation)	Frankfurt, D	2500	ABB Operate IT	ABB AC 800 F	X	2002 - 2009	J. Gersbacher
ROCHE Basel	MZ022 multipurpose plant	Basel, CH	2500	ABB / Tesselator	PCR2	X	1995	E. Netzhammer
ROCHE Basel	RCP Revision	Basel, CH	2500	-	Modicon	X	1990	W.D. Drescher
ROCHE Basel	MAB Biotechnology	Basel, CH	3000	Siemens PCS7	Siemens S7-400	X	2007	W. Gassenschmidt

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ROCHE Sisseln	Vitamin Tech-Centre	Sisseln, CH	3500	Eurotherm T1000 / T3000	Eurotherm T103 / T640	-	1997	W.D. Drescher
ROCHE Sisseln	Powder plant	Sisseln, CH	4500	Sprecher & Schuh	Modicon	X	19985	E. Netzhammer
ROCHE Sisseln	AXN dye production for food	Sisseln, CH	5000	ABB / Tesselator	PCR1	-	1998	E. Netzhammer
ROCHE Basel	SUPPLY Centre	Basel, CH	7000	ABB / Tesselator	PCR2	X	2000	E. Netzhammer

note: only projects are listed, which have a higher amount than 40 I/O sorted by the amount of I/O

Reference list



Special projects

Customer	Automation for	Completion	Project manager Fa. Netzhammer	Description
Ferrum Rapperswil, CH	Inertisation system Safety Integrated level (SIL)	2007	W. Drescher	Engineering, fabrication and certification of a safety integrated proofed system for inertisation according to SIL 2
DSM Grenzach, D	SIL calculation	2008	W. Drescher	Calculation and verification SIL 2 for pump systems in EX zone 1
SBB Basel / Olten, CH	Remote control Lightning Northwest of Switzerland	2000 -2009	W. Drescher / D. Flas	Long distance remote control of total 50 PLC (Siemens S7 300) via Ethernet LWL and xDSL (copper 2 wires) including Network control with SNMP embedded in Siemens WinCC (fore total)
Roche Mannheim, D	Consulting	2007	M. Bacher	Consulting for structured modular Software development with PCS7
Skan, BE	Belgium	2006	D. Flas	Commissioning and optimising S7 program and WinCC
Centrotherm, D	China	2009	W. Drescher	Controlling, calculation and attention of conformity for safety circuits SIL 3 and 2 (Safety Integrated Level) for a silicium production plant