

## Legend:

**Fuels:** KO....coal / petcoke, SO....heavy fuel oil, EG....natural gas, X....secondary waste fuels  
**Burner car:** S....suspended, F....floor mounted  
**Cement type:** P....Portland Cement, W....White Cement, O....others, Leca....Light Weight Extracted Clay Aggregate  
**Coolers:** CG....grate cooler, CP....planetary cooler, CR....rotary cooler, CQ.....quench cooler  
**Valve train:** G.... Gas valve train, O....fuel oil valve train, C....electrical control system  
**Type of Burner:** M.A.S.=Rotary Kiln Burner (Mono Air Duct System), UNIGAS=Gas Burner, UNIGRESS=Oil Burner; HG, HR=Hot Gas Generator; UNICAL=Calcliner Burner



Unitherm Cemcon Firing systems

... a generation ahead

Client	Country	kiln line capacity tpd	Location	Qty	Type of Burner	burner size	Fuels	capacity MW	kiln size ø / L	Cooler	secondary air temperature °C	Cement Type	Burner car S or F	Valve train - control system	Kiln supplier	Order No.
Teutonia Zement	D	2500	Hannover	1	M.A.S.	6	KO.SO.X	70	3,8 x 50	CG	1100	P			KHD	08/2287
Lagan Cement	IE	1800	Killaskillen	1	M.A.S.	5	KO.SO.X	40	3,2 x 45	CG	1000	P	S		Babcock	08/2286
Cementownia Warta	PL	1200	Warta	1	M.A.S.	7	KO.SO.X	140	4,4 x 97	CP	1130	P	S			08/2285
Heidelberg Cement - Bicaz	RO	3500	Bicaz	1	M.A.S.	6	KO.SO.X	150	5,4 x 97	CG	850	P		G	FLS	08/2283
Kuzulkuncement	UZ	1550		3	M.A.S.	5	EG.X	135	3,6 x 120	-	650	P				08/2282
Gharb Torbat	IR	5000	Torbat Jam	1	M.A.S.	5	EG.SO	107	-	-	950	P	F	O,G		08/2280
Nostra Cement	HU	2500	Budapest	1	M.A.S.	6	KO.SO.X	53	4,0 x 60	CG	1000	P	S	G		08/2279
Heidelberg Cement - Burg Lengenfeld	D	1550	Burg Lengenfeld	1	M.A.S.	6	KO.SO.X	88	4,8 x 70	CG	1150	P	S		KHD	08/2278
LAFARGE Slovenija	SI	1550	Trbovje	1	M.A.S.	6	KO.SO.X	77	4,6	CG	850	P				08/2277
LAFARGE Czech	CZ	2750	Cizkovize	1	M.A.S.	6	KO.SO.X	77	4,6 x 72	CG	1100	P				08/2276
CEMEX Croatia	HR	3300	Sv. Juraj	1	M.A.S.	5	KO.SO.X	120	4,6 x 70	CG	950	P				08/2275
Iranian Refractories	IR	160	Birjand	1	M.A.S.	3	EG.SO	17	2,3 x 78	CR	750	O	F	O,G	Alarko	08/2274
CEMEX Tamuin Kiln2	MEX	3000	Tamuin	1	M.A.S.	7	KO.SO.X	114	5,2 x 85	CP	700	P	S	O	KHD	08/2273
LAFARGE Wössingen	D	2000	Wössingen	1	M.A.S.	6	KO.EG.SO.X	35	3,8 x 60	CG	900	P	F			08/2272
CEMEX Philippines	RP	6000	Antipolo	1	M.A.S.	8	KO.SO.X	133		CG	900	P	S			08/2271
Al Bana	AE	2400	Fujeirah	1	M.A.S.	6	KO.EG.SO	60		CG	900	P	S	O		08/2268
HC Heidelberg Cement - OJSC Cesla	RUS	1200	Slantsy	1	M.A.S.	3	KO.EG.SO.X	53	4,0 x 60	CG	850	P	S	G	Volgocem mash	08/2266
VICAT	FR	1500	Xeuilley	1	M.A.S.	6	KO.SO.X	65	4,4 x 82	CG	850	P	F		KHD	08/2265
CEMEX Lloseta	E	1150	Lloseta	1	M.A.S.	6	KO.SO.X	53	3,6 x 50	CG	800	P	S			08/2259
CEMEX Panama, Kiln1	PR	1400	Bayano	1	M.A.S.	6	KO.SO.X	58	4,1 x 58	CP	500	P	F		FLS	08/2257
Ivano Frankivsk Cement	UA	400	Ivano-Frankivsk	1	M.A.S.	3	KO.EG	42	3,6 x 90	CP	450	P	F			08/2256
Lucky Cement	PK	4000	Karachi	1	M.A.S.	6	KO.SO.EG.X	82	4,3 x 64	CG	1100	P	F	O	HEFEI	08/2254
HC Heidelberg Cement/Ukraine	UKR	4200	Kryvyj Rih	1	M.A.S.	5	KO.EG	79	4,5 x 80	CG	800	P	S	G	Volgocem mash	08/2253
HC Heidelberg Cement/Ukraine	UKR	672	Amwrosievka	4	M.A.S.	5	KO.EG	55	3,6 x 150	CP	500	P	S	G	Volgocem mash	08/2253
CNBM Derba Midroc	ET	5000	Derba	1	M.A.S.	5	KO.SO	76	5,2 x 78	CG	1000	P	F	O		07/2250
HC Heidelberg Cement/Ukraine	UKR	1700	Amwrosievka	2	M.A.S.	6	KO.EG	153	5,0 x 184	CG	500	P	S	G	Volgocem mash	
CRH/Podilsk/Ukraine	UKR	1700	Kameniz-Podilsk	1	M.A.S.	6	KO.EG.X	153	5,0 x 185	CG	500	P	S		Volgocem mash	07/2249
Cimentos de Mocambique	MZ	2000	Matola	1	M.A.S.	6	KO.EG.SO	82	4,8 x 72	CG	900	P	F			07/2245
Magnezit	RUS	350	Satka	1	M.A.S.	3	EG.SG	40	3,5 x 90	CR	300	O				07/2241
PMO Komex	PL	190	Katovice	1	M.A.S.	0	EG.X	24	3,0 x 100	CR	400	O				07/2239
CEMEX Panama, Kiln2	PR	3600	Bayano	1	M.A.S.	7	KO.SO.X	79	4,6 x 54	CG	900	P	S		KHD	07/2238
SAO "Univers Lizing Co."	RUS	3000	Spask	1	M.A.S.	5	KO.SO	150	6,4 x 80	CG	900	P	S			07/2236
CEMEX Atatonilco	MEX	2500	Atatonilco	1	M.A.S.	7	KO.SO.X	107	5,1 x 75	CG	920	P				07/2235
CEMEX Poland	PL	1000/5000	Rudniki / Chelm	4	M.A.S.	7	KO.SO.EG.X	52	3,5 x 140	CG	900	P				07/2234

Legend:

**M.A.S. KILN BURNER REFERENCES 1998 - 2008**



**Unitherm Cemcon Firing Systems**

... a generation ahead

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**Type of Burner:** M.A.S.=Rotary Kiln Burner (Mono Air Duct System), UNIGAS=Gas Burner, UNIGRESS=Oil Burner; HG, HR=Hot Gas Generator; UNICAL=Calcliner Burner

Client	Country	kiln line capacity tpd	Location	Qty	Type of Burner	burner size	Fuels	capacity MW	kiln size ø / L	Cooler	secondary air temperature °C	Cement Type	Burner car S or F	Valve train - control system	Kiln supplier	Order No.
CYCNA Concretos	MEX	3000	Aquascalientes	2	M.A.S	4	KO.SO	57	4,4 x 60	CG	1000				Polysius	07/2232
CEMEX Tepeaca	MEX	10000	Tepeaca	1	M.A.S	8	KO.SO.X	177	6,1 x 90	CG	1100	S			FLS	07/2231
LAFARGE Ukraine	UKR	800	Mykolaiv	5	M.A.S	5	KO.EG.X	61	4,0 x 150	CR	200	S				07/2229
HC Heidelberg Cement / Mokra	CZ	2000	Mokra	1	M.A.S	6	KO.EG.SO.X	80	4,4 x 68	CG	950	P	S		KHD	07/2228
AS Cimento	TR	8000	Buzak	1	M.A.S	7	KO.SO.X	163	5,6 x 58	CG	1100	P	S	O	CITIC-China	07/2227
CEMEX Puerto Rico	USA	4000	Puerto Rico	1	M.A.S	6	KO.SO.X	78	4,9 x 68	CG	1000	P	S	O		07/2222
CEMEX Alicante	E	3400	Alicante	1	M.A.S	7	KO.SO.X	93	4,6 x 71	CG	950	P	F			07/2221
Metox	TR	300	Iskanderun	1	UNICAL-KO-EG	-	KO.EG	8		CQ	20	O	S			07/2220
Ekbatan Cement	IR	500	Ekbatan	1	M.A.S	3	EG		3,2 x 45	CG	950					07/2219
Florida Rock K2 / Polysius	USA	2300	Newberry	1	M.A.S	5	KO.EG.SO.X	50	4,0 x 48	CG	1000	P	S	O	Polysius	07/2218
CEMEX Barrientos	MEX	2200	Barrientos, Kiln 8	1	M.A.S	7	KO.SO.X	96	4,8 x 75	CG	950-1100	P	S			06/2216
Kostukowichi Cement	BEL	950	Kostukowichi	1	M.A.S	5	KO.EG.SO	81	75	CG	500	P	S			06/2115
CEMEX Guadelajara	MEX	3000	Guadelajara	1	M.A.S	7	KO.EG.SO.X	87	4,1 x 58	CG	900-1100	P	S			06/2214
Carmeuse Lime kiln	SK	500	Kosice	1	M.A.S	5	KO.EG.SO.X					O				06/2213
CEMEX Venezuela Maracaibo	VE	825	Maracaibo	1	M.A.S	6	EG.SO.X	64	3,6 x 137	CG	900	P	S			06/2212
HC Heidelberg Cement - Anneliese	D	1200	Paderborn	1	M.A.S	5	KO.SO.X		4,0 x 60	CG	900	P	S			06/2211
GEMEX Yaqui	MEX	3600	Hermosillo, Kiln 2	1	M.A.S	7	KO.SO.X	77	4,5 x 68	CG	1100	P	S	O	KHD	06/2208
Cementownia Warta	PL	1200	Warta	1	M.A.S	7	KO.SO.X	140	4,4 x 97	CP	1130	P	S			06/2207
CEMEX Monterrey	MEX	1600	Monterrey, Kiln 8	1	M.A.S	7	KO.EG.SO.X	82	4,5 x 68	CP	700	P	S			06/2206
CEMEX Valles	MEX	660	Valles, Kiln 1	1	M.A.S	5	KO.SO.X	43	2,9 x 76	CQ	25	W	S	O		06/2205
Nasice Cement	HR	2600	Nasice	1	M.A.S	7	KO.EG.SO.X	80	4,4 x 70	CG	800	P	F	G, O	KHD	06/2202
HOLCIM France	FR	1400	Lumbres	1	M.A.S	7	KO.SO.X	105		CP	950	P	S		Polysius	06/2201
CEMEX Ost / Germany	D	6000	Rüdersdorf	1	M.A.S	7	KO.SO.X	100		CG	950	P	F		KHD	06/2200
Cruz Azul Cimento	MEX	870	Lagunas, kiln 3	1	M.A.S	6	KO.SO.X	40	3,8 x 105	CG	950	P	S		Polysius	06/2198
Cruz Azul Cimento	MEX	4400	Lagunas, kiln 4	1	M.A.S	6	KO.SO.X	100	4,8 x 75	CG	950	P	S		Polysius	06/2198
Cruz Azul Cimento	MEX	2800	Hidalgo, kiln 8	1	M.A.S	6	KO.SO.X	111	5,2 x 82	CG	950	P	S		FLS	06/2197
Cruz Azul Cimento	MEX	4400	Hidalgo, kiln 9	1	M.A.S	6	KO.SO.X	100	4,8 x 75	CG	1000	P	S		Polysius	06/2197
Cruz Azul Cimento	MEX	1400	Hidalgo, kiln 6	1	M.A.S	6	KO.EG.SO.X	62	4,4 x 70	CG	1000	P	S			06/2197
CEMEX Venezuela	VE	3500	Pertigalete, kiln 7	1	M.A.S	6	EG.SO.X	55	4,5 x 64	CG	800	P	S			06/2196
Rustavi Cement	GE	800	Rustavi	3	M.A.S	5	KO.EG.SO.X	65	4,0 x 123	CR	400	P	S		Volgocem mash	06/2194
Kaspi Cement	GE	1000	Kaspi	3	M.A.S	5	KO.EG.SO.X	75	4,0 x 150	CR	400	P	S		Volgocem mash	06/2194
AGK Atschinsk	RUS	1600	Atschinsk	2	M.A.S	5	KO.SO	150	5,0 x 185	CG	500	O	F		Volgocem mash	06/2193
Kavir Kashan Cement	IR	1800	Kashan	1	M.A.S	3	EG.SO	51	3,8 x 48	CG	900	P	F	G,O		06/2191
Cemag Zliten	LAR	3200	Zliten	1	M.A.S	4	EG.SO	76	4,4 x 52	CG	900	P	S	G,O	Cemag	06/2190
Strojindustria	UKR	500	Bahchisarai	2	M.A.S	5	KO.EG.SO.X	42	3,6 x 100	CR	400	P	F		Volgocem mash	06/2189
HC Heidelberg Cement - OJSC KUNDA	RUS	1000	KUNDA	1	M.A.S	7	KO.SO.X	75	4,5 x 150	CG	500	P	S		Volgocem mash	06/2188

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**M.A.S. KILN BURNER REFERENCES 1998 - 2008**



**Unitherm Cemcon Firing systems**

... a generation ahead

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Client	Country	kiln line capacity tpd	Location	Qty	Type of Burner	burner size	Fuels	capacity MW	kiln size ø / L	Cooler	secondary air temperature °C	Cement Type	Burner car S or F	Valve train - control system	Kiln supplier	Order No.
Dewan Hattar Cement	PK	2400	Saadi	1	M.A.S.	4	KO.EG.SO	40	3,8 x 59	CG	900	P	S	G		06/2185
Dewan Cement	PK	3300	Pakland	2	M.A.S.	5	KO.EG.SO	73	4,1 x 59	CG	1000	P	F	G	Technip Cle	06/2184
EUROCEMENT	RUS		Lipezk	1	M.A.S.	3	EG.SG	36		CR	400	P	S		Volgocem mash	06/2183
AGK Atschinsk	RUS	1600	Atschinsk	1	M.A.S.	5	KO.SO	150	5,0 x 185	CG	500	O	F		Volgocem mash	06/2181
SCANCEM	NG	1600	Sokoto	1	M.A.S.	5	SO.X	74	4,6 x 71	CP	700	P	S	O	O & K	05/2179
Titan Cement	BG	1500	Zlatna Panega	1	M.A.S.	6	KO.EG.SO.X	75	4,0 x 60	CG	950	P	F		Polysius	05/2174
Votorantim / St. Marys	USA	4350	Charlevoix	1	M.A.S.	6	KO.SO.X	99	5,7 x 108	CG	1050	P	S			05/2173
Italcementi	BG	850	Devnya	1	M.A.S.	5	KO.EG.SO.X	35	3,6 x 150	CP	500	P	S			05/2172
China National Building Materials Co	BURMA	300	Yangon	1	UNIGAS	4000	EG	35	3,0 x 125	CG	400	P	S	G,C		05/2171
Votorantim / St. Marys	CND	3000	St. Mary	1	M.A.S.	6	KO.EG.SO.X	117	4,7 x 75	CG	1000	P	S			05/2169
Spassk Cement	RUS	3000	Spassk	1	M.A.S.	5	KO.SO	150	6,4 x 80	CG	900	P	S			05/2168
HC Heidelberg Cement / Mokra	CZ	2000	Mokra	1	M.A.S.	6	KO.EG.SO.X	76	4,4 x 68	CG	950	P	S		KHD	05/2167
CEMEX Philippines	RP	6000	Antipolo	1	M.A.S.	8	KO.SO.X	133		CG	900	P	S			05/2165
Dyckerhoff	RUS	1700	Sukhoj Log	1	M.A.S.	5	EG.SG	150	5,0 x 185	CG	550	P	S		Volgocem mash	05/2164
Arabien Cement Company / ACC	Saudi Arab	6000	Rabigh	1	M.A.S.	5	SO.(X)			CG	950	P	F	O	FLS	05/2163
HOLCIM AG Laegerdorf	D	4300	Laegerdorf	1	M.A.S.	7	KO.SO.X	80	4,8 x 65	CG	850	P	F		Polysius	05/2162
AGK Atschinsk	RUS	1600	Atschinsk	1	M.A.S.	5	KO.SO	150	5,0 x 185	CG	500	O	F		Volgocem mash	05/2161
CEMEX Yaqui	MEX	3600	Yaqui	1	M.A.S.	7	KO.SO.X	77	4,5 x 68	CG	950	P	S			05/2160
LAFARGE Romania	MOL	4000	Rezina	1	M.A.S.	8	KO.EG.SO.X	130	6,4 x 95	CG	900	P	F		Volgocem mash	05/2159
Gmundner Zement	A	1900	Gmunden	1	M.A.S.	6	KO.EG.SO.X	75	4,2 x 90	CP	800	P	S		Polysius	05/2158
CEMEX Torreon	MEX	3000	Torreon	1	M.A.S.	7	KO.EG.SO.X	75	4,1 x 58	CG	950	P	S		FLS	05/2153
Krasnoselsk Cement	BEL	850	Krasnoselsk	2	M.A.S.	5	EG.X	70	4,5 x 150	CG	500	P	S	G	Volgocem mash	05/2152
Bestway Cement Limited	PK	4200	Bestway	1	M.A.S.	5	KO.EG.SO	70	4,4 x 68	CG	1000	P	S			05/2151
Florida Rock	USA	2300	Newberry	1	M.A.S.	5	KO.EG.SO.X	57	4,0 x 48	CG	980	P	S		POLYSIUS	05/2150
Qatar National Cement / QNCC II	Q	4000	Umm Bab	2	M.A.S.	3	EG.SG	70		CG	950	P	F	G	FCB	05/2149
HC Heidelberg Cement - OJSC Cesla	RUS	1200	Slantsy	1	M.A.S.	6	KO.EG.SO.X	60	4,0 x 60	CG	850	P	S	G	Volgocem mash	05/2148
Cementos Guapan	EC	1300	Guapan	1	M.A.S.	3	SO.X	67	4,1 x 58	CG	850	P	S	O		05/2147
Thatta Cement	PK	1000	Thatta	1	M.A.S.	4	KO.EG.SO	52,5		CG	800	P	S			04/2143
Italcementi	BG	850	Devnya	1	M.A.S.	5	KO.EG.SO.X	35	3,6 x 150	CP	500	P	S			04/2141
Cemmac	SK	1000	Horne Srnie	1	M.A.S.	5	KO.EG.SO.X									04/2138
GEMEX Germany	D	3100	Beckum	1	M.A.S.	8	KO.SO.X	140	5,3 x 80	CR	750	P	S		KHD	04/2137
Buzzi UNICEM	USA	3900	Cape Girardeau	1	M.A.S.	5	KO.SO.X	87	2,4 x 72	CG	950	P	S		Allis Chalmers	04/2132
Salonit Anhovo JSC Cement	SLO	2200	Anhovo	1	M.A.S.	6	KO.EG.SO.X	86	5,0 x 82	CP	600	P	F	G,O,C	PSP	04/2131
Lucky Cement	PK	4000	Karachi	2	M.A.S.	5	KO.SO.X	82	4,3 x 64	CG	1100	P	F	O	HEFEI	04/2129
Lucky Cement	PK	4000	Karachi	2	M.A.S.	5	KO.EG.SO.X	82	4,3 x 64	CG	1100	P	F	O	HEFEI	04/2129
GEMEX Venezuela	VE	3200	Pertigalete, kiln 6	1	M.A.S.	6	EG.SO.X	130		CG	900	P	F		Polysius	04/2128

## Legend:

## M.A.S. KILN BURNER REFERENCES 1998 - 2008



Unitherm Cemcon Firing Systems

... a generation ahead

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Quimica del Rey	MEX	1000	Torreón	1	M.A.S.	4	KO.EG.SO	45	3,0 x 81	CP	550	W	S			04/2124
Krasnoselsk Lime Kiln	BEL	480	Krasnoselsk	1	M.A.S.	3	EG.SG	40		CR	400	O	F			04/2123
Dyckerhoff	RUS	1700	Sukhoj Log	1	M.A.S.	5	EG.SG	150	5,0 x 185	CG	550	P	S		Volgocem mash	04/2121
Solhofer Portland Zement	D	1500	Solnhofen	2	M.A.S.	7	KO.SO.X	64	3,8 x 50	CG	1100	P	S	O	KHD	04/2122
CEMEX Mexico	MEX	3000	Monterray Kiln 10	1	M.A.S.	5	KO.EG.SO.X	81	4,1 x 58	CG	900	P	S			04/2120
CEMEX Mexico	MEX	1600	Monterray Kiln 9	1	M.A.S.	5	KO.EG.SO.X	81	4,6 x 68	CP	700	P	S			04/2120
Gorka Zement	PL	192	Trzebinia	1	UNIGAS	2000	EG	25	2,2 x 85	CP		W	S	G,C		04/2116
Naujasis Kalcitas	LT	350	Akmenes	1	M.A.S.	3	KO.EG.SO	22	2,7 x 53	CG	400	O	S		Volgocem mash	03/2113
Krasnoselsk Cement	BEL	1600	Krasnoselsk	2	M.A.S.	5	EG.X	100	5 x 150	CG	550	P	S	G	Volgocem mash	03/2111
HOLCIM AG Laegerdorf	D	4300	Laegerdorf	1	M.A.S.	7	KO.SO.X	80	4,8 x 65	CG	850	P	F		Polysius	03/2112
ADO Cimento	TR	3300	Antalya	1	M.A.S.	4	KO.SO	91	4,2 x 60	CG	---	P	F			03/2109
HOLCIM AG - Cementos Caribe	VE	3000	Cumarebo	1	M.A.S.	7	KO.EG.SO.X		5,2 x 82	CP	700	P				03/2108
HC - Duna Drava / Vaz	HU	3500	Vaz	2	M.A.S.	6	KO.EG.SO.X	80	4,2 x 55	CG	900	P	S	G,O,C	Polysius	03/2107
HOLCIM Hrvatska (TC Koromacno)	HR	1800	Koromacno	1	M.A.S.	6	KO.SO.X	78	4,0 x 64	CG	1000	P	F	O	KHD	03/2106
AGK Atschinsk	R	1600	Atschinsk	1	M.A.S.	5	KO.SO	150	5,0 x 185	CG	500		F		Volgocem mash	03/2099
LAFARGE Beocinska Cementa	YU	4000	Beocin	1	M.A.S.	5	KO.EG.SO.X	100		CP	800	P	S	C	FLS	03/2098
HC-Tvornica Cement Kakanj	BIH	1500	Kakanj	1	M.A.S.	6	KO.EG.SO.X	75	4,0 x 60	CG		P	F	C	KHD	03/2097
Ekbatan Cement	IR	1000	Ekbatan	1	M.A.S.	3	EG.SO			CG						03/2095
Kirchdorfer Zement / Lafarge	A	1000	Kirchdorf	1	M.A.S.	6	KO.EG.SO.X	40	3,0 x 46	CG	1000	P	S			03/2093
Lafarge Karsdorfer Cement	D	1100	Sötenich	1	M.A.S.	6	KO.SO.X			CG		P	S		KHD	02/2092
Acmenes Cementas (RMC)	LT	1700	Acmenes	1	M.A.S.	6	KO.SO.X	153	5,0 x 185	CG	800	P	F		Volgocem mash	02/2089
Lukavac Cement	BIH	2000	Lucavac	2	M.A.S.	4	KO.SO	46	4,0 x 64	CG	900	P	F	O,C	KHD	02/2088
OAQ "Puschka"	UA	480	Kramatorsk	3	M.A.S.	4	KO.EG.X	42	3,6 x 110	CG	550	P	S		Volgocem mash	02/2087
Kavir Kashan Cement	IR	1800	Kashan	2	UNIGAS-CAL	3000	EG	23	3,8 x 48	CG	800	P		G,C		02/2085
Kavir Kashan Cement	IR	1800	Kashan	1	M.A.S.	3	EG.SG	42	3,8 x 48	CG	800	P		G,C		02/2085
Hyundai Cement	ROK	4600	Dan Yang	1	M.A.S.	8	KO.SO.X	85		CG		P				02/2084
Hyundai Cement	ROK	6000	Young Wol	2	M.A.S.	8	KO.SO.X	113		CG		P			Onoda	02/2083
Lipezk	RUS	500	Lipezk	2	M.A.S.	3	EG.SG	36		CR	400	X	S		Volgocem mash	02/2082
Benvid White Cement	IR	400	Naeen	1	M.A.S.	3	EG.SO	30		CG		W	S	G,O,C		02/2079
HOLCIM a.s. Cesko	CZ	3000	Prachovice	1	M.A.S.	9	KO.EG.SO.X			CG		P			PSP	02/2078
Zhejiang Huaquiang	VR	2000	Huaquiang	1	M.A.S.	2	KO.SO			CG		P				02/2076
Fecto Cement Ltd.	PK	2000	Taxila	1	M.A.S.	4	KO.EG.SO	33	4,1 x 58	CG	900	P			Fuller	02/2073
Bosenberg Portland Cement	D	550	Ahlen	1	M.A.S.	3	KO.SO.X	23	3,0 x 40	CG		P			Polysius	02/2072
SIN-MIN Cement	BUR	300	Myanmar	1	UNIGAS	4000	EG	35	3,0 x 125	CG	400	P	S	G,C		02/2071
Zaman Cement Ltd.	PK	3800	Zaman	1	M.A.S.	3	KO.SO			CG		P				02/2070
HOLCIM AG - Cementos Caribe	VE	2800	San Sebastian	1	M.A.S.	6	EG.SO.X	46	4,2 x 49	CG	750	P			FLS	02/2068

## Legend:

## M.A.S. KILN BURNER REFERENCES 1998 - 2008



Unitherm Cemcon Firing systems

... a generation ahead

<b>Fuels:</b>	KO....coal / petcoke, SO....heavy fuel oil, EG....natural gas, X....secondary waste fuels
<b>Burner car:</b>	S....suspended, F....floor mounted
<b>Cement type:</b>	P....Portland Cement, W....White Cement, O....others, Leca....Light Weight Extracted Clay Aggregate
<b>Coolers:</b>	CG....grate cooler, CP....planetary cooler, CR....rotary cooler, CQ.....quench cooler
<b>Valve train:</b>	G.... Gas valve train, O....fuel oil valve train, C....electrical control system
<b>Type of Burner:</b>	M.A.S.=Rotary Kiln Burner (Mono Air Duct System), UNIGAS=Gas Burner, UNIGRESS=Oil Burner; HG, HR=Hot Gas Generator; UNICAL=Calcliner Burner

Client	Country	kiln line capacity tpd	Location	Qty	Type of Burner	burner size	Fuels	capacity MW	kiln size ø / L	Cooler	secondary air temperature °C	Cement Type	Burner car S or F	Valve train - control system	Kiln supplier	Order No.
HC-Inland Cement	CDN	3640	Edmonton	1	UNICAL		KO.EG	106	4,11 x 58	CG		P		G,C	Fuller	01/2066
HC-Inland Cement	CDN	3640	Edmonton	1	M.A.S.	5	KO.EG	83	4,11 x 58	CG		P	S	G,C	Fuller	01/2066
HC-Zlatna Panega Plant	BG	1500	Zlatna Panega	1	M.A.S.	6	KO.EG.SO.X	75	4,0 x 60	CG		P	F		Polysius	01/2065
Zhejiang-Jurong Cement	VR	2000	Zhejiang	1	M.A.S.	2	KO.SO			CG		P			Polysius	01/2064
Lafarge - Cizkovic Plant	CZ	2000	Cizkovic	1	M.A.S.	5	KO.SO.X			CG	1100	P	F	O,C	PSP	01/2063
Odessa Cement	UA	400	Odessa	2	M.A.S.	3	KO.EG	42	3,6 x 96	CP	450	P	F		Volgocemdash	01/2061
HOLCIM AG - Siggenthal Plant	CH	1800	Siggenthal	1	M.A.S.	6	KO.SO.X	82		CG		P			Polysius	01/2060
Kohat Cement	PK	2000	Kohat	1	M.A.S.	6	KO.EG.SO.X	50	4,0 x 64	CG	750	P				01/2058
Ivano Frankivsk Cement	UA	400	Ivano-Frankivsk	1	M.A.S.	3	KO.EG	42	3,6 x 90	CP	450	P	F	S	Volgocemdash	01/2056
G.M.M.S.A. Larco	GR	1000	Larymna	1	M.A.S.	3	KO.SO.X			CG		X	F	O,C		01/2049
Wietersdorfer & Peggauer Zement	A	1200	Peggau	1	M.A.S.	6	KO.EG.SO.X			CG		P	S		Polysius	01/2047
RMC Readymix Group	LV	1000	Broceni	1	M.A.S.	5	EG.SO.X	80	4,5 x 150	CG	500	P	S	G	Volgocemdash	00/2046
Maxit Optiroc Group A.S.	P	500	Avelar	1	M.A.S.	4	KO.SO.X	20	4,0 x 60	CG	850-900	Leca	S	O,C		00/2045
HC-Ceskomoravske Cement	CZ	1500	Radotin	2	M.A.S.	2	KO.SO.X			CG		P		G,C	PSP	00/2044
HC-Moldocim S.A.	RO	3500	Bicaz	1	M.A.S.	7	KO.EG.SO.X	151	5,8 x 97	CG	900	P	S	G,O,C	IMG	00/2042
HC-Duna Drava Cement	H	1800	Beremend	3	M.A.S.	6	KO.EG.SO.X			CG		P		G,O,C	KHD	00/2041
Acmenes Cementas (RMC)	LT	1700	Acmenes	1	M.A.S.	7	KO.SO.X	120	5,0 x 185	CG	500	P	F		Volgocemdash	00/2040
Bestway Cement Limited	PK	3300	Shadi-Haripur	1	M.A.S.	3	SO.EG			CG		P		G,C	Mitsubishi	00/2037
HC-Lehigh Portland Cement	U.S.A.	6500	Union Bridge	1	M.A.S.	6	KO.SO	155	5,2 x ?	CG		P	F	O,C	Polysius	00/2035
HC-Casial S.A.Deva Cement	RO	4000	Hunedoara	1	M.A.S.	7	KO.EG.SO	151	5,8 x 97	CG	900	P	S	G,O,C		00/2034
Beocinska Cementa	YU	500	Beocin	2	M.A.S.	4	KO.SO	45	3,8 x 135	CG	900	P	S	O	FLS	00/2032
Ivano Frankivsk Cement	UA	500	Ivano-Frankivsk	1	M.A.S.	3	SO.EG	42	3,6 x 90	CP	450	P	F		Volgocemdash	00/2028
Italcementi	BG	580	Vulcan Cement	1	M.A.S.	4	KO.EG.SO	50	3,16x110	CP	550	P	F		FLS	00/2027
Italcementi	BG	450	Vulcan Cement	1	M.A.S.	4	KO.EG.SO	39	2,6 x 105	CP	550	P	F		FLS	00/2027
Zhangqiu Cement Corp.	VR	2000	Zhangqiu	1	M.A.S.	2	KO.SO			CG		P				99/2026
HC Heidelberg Cement Leimen	D	1550	Leimen	1	M.A.S.	5	KO.SO.X	60	4,2x?	CG	900-1100	P	S			99/2024
Zementwerk Warta	PL	2800	Dzialoszyn	1	M.A.S.	5	KO.SO	112		CP		P				99/2023
GLINOZEM	RUS	1500	Pikalevo	1	M.A.S.	3	EG.SG	80	4,5x150	CG	500	P	S		Volgocemdash	99/2021
CEMMAC	SK	1000	Horne Srnie	2	M.A.S.	2	KO.EG			CG		P				99/2016
Schwenk Zement	D	3000	Karlstadt	1	M.A.S.	5	KO.SO.X			CG		P				98/2013
HC-Gorazde Plant	PL	3000	Gorazde	2	M.A.S.	4	KO.SO	146		CP		P	S			97/2003
Ukraine Common Enterprise	UA	400	Ivano-Frankivsk	1	M.A.S.	3	SO.EG	42	3,6x90	CP	450	P	F	O	Volgocemdash	97/2001
Gorka Zement	PL	1200	Trzebinia	1	UNIGAS	2000	EG	25	2,2 x 85	CP		X	S	G,C		22/7004
Zementwerk Odra	PL		Opole	1	M.A.S.	2	KO.SO.X			CG		P	S			22/6038
Zementwerk Wittekind	D		Erwitte	1	M.A.S.	2	KO.SO.X			CR		P				22/6034
Lucky Cement	RC		Puhsin	1	M.A.S.	2	KO.SO			CG		P				22/6030

Legend:

**M.A.S. KILN BURNER REFERENCES 1998 - 2008**

**Fuels:** KO....coal / petcoke, SO....heavy fuel oil, EG....natural gas, X....secondary waste fuels  
**Burner car:** S....suspended, F....floor mounted  
**Cement type:** P....Portland Cement, W....White Cement, O....others, Leca....Light Weight Extracted Clay Aggregate  
**Coolers:** CG....grate cooler, CP....planetary cooler, CR....rotary cooler, CQ.....quench cooler  
**Valve train:** G.... Gas valve train, O....fuel oil valve train, C....electrical control system  
**Type of Burner:** M.A.S.=Rotary Kiln Burner (Mono Air Duct System), UNIGAS=Gas Burner, UNIGRESS=Oil Burner; HG, HR=Hot Gas Generator; UNICAL=Calcliner Burner



**Unitherm Cemcon Firingsystems**

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Client	Country	kiln line capacity tpd	Location	Qty	Type of Burner	burner size	Fuels	capacity MW	kiln size ø / L	Cooler	secondary air temperature °C	Cement Type	Burner car S or F	Valve train - control system	Kiln supplier	Order No.
G.M.M.S.A. Larco	GR		Larco	1	M.A.S.	2	SO.EG					X				22/0028
Yazd Cement	IR		Yazd	1	M.A.S.	3	SO.EG			CG		P	F	O,C		12/0387
HC-Ceskomoravske Cement-Beroun	CZ		Beroun	1	M.A.S.	1	KO.EG.SO			CG		P			PSP	12/0358