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Densit® installations in the cement and lime industry

Maintenance deliveries:

Plant	Year	Densit® installation	Densit® material	Medium
Australia				
Gwalia Consolidated	1994:	Extractor bends	WearCast 2000	Lithium
Westralian Sands Perth	1994:	Flash dryer uptake	WearCast 2000 HT	Illmenite
Cockburn Cement Perth	1994:	Stage 1 cyclone Coal bends no. 5 kiln No. 1 kiln fan housing	WearCast 1000 WearCast 1000 WearCast 2000	Lime Coal Clinker dust
Austria				
Perlmooser Zement Mannersdorf	1992 & 93:	Dedusting pipe Dryer and crusher Turbo separator	WearFlex 2000 WearFlex 2000 WearFlex 2000	Cement Cement Cement
	1994:	Separator	WearCast 2000	Cement
Zementwerk Eiberg Kufstein	1994:	Dedusting pipe Clinker chute	WearCast 2000 WearFlex 2000	Cement Clinker
Belgium				
CBR Lixhe	1992 & 93:	Lining of dedusting cyclones	WearCast 2000 HT	Clinker dust
St. Antoing	1989:	Lining of dedusting cyclone	WearCast 1000	Clinker dust
	1991:	Lining of cement separator Lining of tertiary duct system Lining of clinker chute	WearCast 1000 WearCast 1000 HT WearCast 1000	Cement Clinker dust Clinker
C.C.B. Tournai	1993:	Lining of cement separator Exhaust gas cyclones	WearCast 2000 WearCast 2000 HT	Cement Clinker
	1994:	Dedusting duct Lining of turboseparator	WearCast 2000 HT WearFlex 2000	Clinker Cement
Dumont Wautier	1992:	Lime kiln	WearCast 1000 HT	Warm lime

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Plant	Year	Densit® installation	Densit® material	Medium
Brazil				
Cia. Cearense de Cimentos				
Portland - Votorantim	1995:	Dedusting duct between separator and bag filter	WearFlex 2000	Cement
Cia. Cimentos Portland				
Rio Branco	1994 & 95: 1989:	Fan case housing Lining of FLS Sepax® separator	WearFlex 2000 WearCast 1000	Clinker dust Cement
CIMBAGÉ				
Canoas	1995:	2 cement separators	WearFlex 2000	Cement
Candiota	1993:	Conical part of coal mill	WearFlex 2000	Coal
Cimentos CAUÊ				
Pedro Leopoldo	1995:	Raw meal cyclone, 30 m ²	WearFlex 2000	Raw meal
CIMINAS				
Pedro Leopoldo	1994: 1995:	Raw meal cyclone Conical part of coal mill	WearFlex 2000 WearFlex 2000	Raw meal Coal
Electro Manganês	1995:	Pneumatic transportation system for manganese and coal	WearFlex 2000	Manganese ore + coal
ITABIRÁ				
Agro Industrial				
Fábrica de Capão Bonito	1989:	Lining of two FLS Sepax® cement separators	WearCast 1000	Cement
Cachoeira do Itapemirim	1989:	Lining of one FLS Sepax® cement separator	WearCast 1000	Cement
ITAÚ de Minas	1995:	Lining of FLS Atox® vertical mill	WearFlex 2000	Raw meal
MATSULFUR	1994:	Lining of bend for pneumatic transport of cement Chain conveyor for coal	WearFlex 2000	Cement Coal
MAUÁ				
Matosinhos	1994:	Lining of raw meal cyclone	WearFlex 2000	Raw meal
Minercal	1994:	Cyclone for lime	WearFlex 2000	Lime dust
S.A. Industrias Votorantim				
Fábrica de Santa Helena	1989 & 95:	Lining of cement separator	WearCast 1000 WearFlex 2000	Cement
Fábrica de Rio Negro	1995:	Lining of cyclone for cement	WearFlex 2000	Cement
Tocantins	1995:	Lining of FLS Atox® vertical mill	WearFlex 2000	Raw meal
TUPI				
Volta Redonda	1994:	Lining of conical part of cyclone	WearFlex 2000	Cement
Cyprus				
Vassiliko Cement				
Nicosia	1990, 91, 92, 93, 94 & 95: 1994:	Dedusting canals & cyclones after clinker cooler Lining of coal mill	WearCast 1000 HT WearCast 1000 HT	Clinker dust Coal dust
Cyprus Cement				
Moni	1992:	Wear lining of dedusting duct	WearFlex 2000	Clinker dust



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Plant	Year	Densit® installation	Densit® material	Medium
Denmark				
Aalborg Portland Aalborg	1981:	Lime and raw meal chute material chute	WearCast 1000	Lime
	1984 & 87:	Dedusting cyclone	WearCast 1000	Cement & raw meal
	1985, 86, 87 88 & 91:	Bends for pneumatic conveyance	WearCast 1000	Cement, coal dust & PFA
	1987 & 91:	Lining of pyrite ash silo	WearCast 1000	Pyrite ash
	1987:	Wear panels for chain conveyor	WearCast 1000	Clinker
	1988:	2 slide gates in tertiary pipes 66 wear panels for chain conveyor in M/S Portland	WearCast 1000 HT WearCast 1000	Hot air PFA/cement
	1989:	614 wear panels for chain conveyor in M/S Portland	WearCast 1000	PFA/cement
		1,038 wear panels for chain conveyor in M/S Kongsdal	WearCast 1000	PFA/cement
	1992:	Riser pipe for raw meal	WearFlex 2000	Raw meal
	1993:	Lead panels for FLS-Sepax® separator	WearCast 2000	Cement
Finland				
Partek Pargas	1990:	Lining of cement separator	WearCast 1000	Cement
France				
CALCIA Airvault	1993:	Lining of a grinding mill separator	WearFlex 2000	Cement
	1994:	Lining of a hopper Grinding mill conus	WearCast 2000 WearFlex 2000	Limestone Cement
Cedest Ebhange	1989:	Wear lining of dedusting duct	WearCast 1000	Clinker dust
	1989 & 91:	Wear lining in dryer	WearCast 1000 HT	Slag
Dannes	1991:	Wear lining in bottom of chain conveyor	WearCast 1000	Clinker
	1993:	Wear lining in separator	WearFlex 2000	Cement
Distroff	1990:	Wear lining of chute	WearCast 1000	Raw meal
Hemming	1992:	Wear lining cyclones	WearFlex 2000	Slag
	1993:	Pipes & bends	WearCast 2000	Cement
Français Beffes	1989:	Lining in chain conveyor	WearCast 1000	Clinker
Cruas	1992 & 93:	Wear lining of duct and by-pass	WearFlex 2000	Raw meal & cement
Rombas	1991 & 92:	Wear lining of slag dryer	WearCast 1000/ WearFlex 2000	Slag
Villiers Au Bois	1991:	Lining in chain conveyor	WearCast 1000	Clinker
Airvault	1993:	Wear lining in high efficiency separator	WearFlex 2000	Cement



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IP/REF 004/01.96/DENSIT MARKETING

Plant	Year	Densit® installation	Densit® material	Medium
Lafarge				
Le Teil	1990:	Dedusting channel from kiln to silo	WearCast 1000 HT	Clinker dust
	1992:	Wear lining of chute	WearFlex 500	Raw meal
		Conical part of separator	WearFlex 2000	Cement
	1993:	Wear lining in vertical mill	WearFlex 3000	Raw meal
	1994:	Lining of pipes	WearCast 2000	Cement
Lexos	1990:	Wear lining of cement mill outlet	WearCast 1000	Cement
		Chain conveyor		Clinker
La Malle	1995:	Regulator for by-pass	WearCast 2000 HT	Clinker
St. Pierre La Cour	1989 & 92:	Wear lining of dedusting ducts	WearCast 1000	Clinker dust
	1992 & 93:	Wear lining of separators	WearFlex 2000	Cement
Origny				
Altkirch	1991:	Pipes & bends	WearCast 2000	Cement
Dannes	1994:	Casing of ventilator	WearCast 3000 HT	Clinker
		CP coal pipe bends	WearCast 2000	Coal
	1995:	Repair of bend	WearCast 2000 HT	Cement
Lumbres	1991:	Wear lining of separators	WearFlex 2000	Cement
	1994:		WearCast 2000	
		Lining of pipes	WearCast 2000	Cement
Sainte Benoîte	1989, 90,		WearCast 1000 HT/	Clinker dust
	92 & 93:		WearCast 2000	
	1989, 90 & 91:	Wear lining in high efficiency separator	WearCast 1000	Cement
	1989 & 90:	Wear lining in dryer	WearCast 1000 HT	Raw meal
	1994:	Gas evacuation duct	WearFlex 2000	Cement
Vicat				
Chambéry	1991:	Wear lining of static separator	WearCast 1000	Cement
		Wear lining of a fan casing	WearCast 1000	Clinker dust
Créchy	1991:	Wear lining of a fan casing	WearCast 1000	Clinker dust
	1991 & 92:	Wear lining of high efficiency separator	WearCast 1000/	Cement
			WearFlex 2000	
Montalieu	1991:	Chain conveyor	WearCast 1000	Cement
	1992:	Dedusting duct	WearCast 1000	Cement
		Chute	WearCast 1000	Clinker
	1993:	Wear lining of high efficiency separator	WearFlex 2000	Cement
		Pipes	WearCast 2000	Cement
	1994:	Lining of bends	WearCast 2000	Cement
	1995:	Pipes	WearCast 2000 HT	Cement
			WearFlex 2000	Cement
Xeuilly	1989, 90 & 93:	Wear lining of high efficiency separator	WearCast 1000	Slag & cement
	1990:	Wear lining of static separator	WearCast 1000	Cement
		Dedusting cyclone	WearCast 1000	Clinker dust
	1994:	Turboseparator	WearFlex 2000	Clinker



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Plant	Year	Densit® installation	Densit® material	Medium
Germany				
Anneliese Zement Ennigerloh	1992 & 93: 1992: 1995:	Lining of satellite cooler outlet Chute for clinker Separator	WearFlex 2000 WearFlex 2000 WearFlex 2000	Clinker Clinker Clinker
Alsen-Breitenburg Lägerdorf	1992 & 93: 1993: 1995:	Polysius Separator outlet By-pass between mill and separator Lining of Sandbunker Pipes Dedusting cyclones	WearFlex 2000 WearCast 2000 WearCast 2000 WearCast 1000 WearCast 1000 HT	Cement/clinker Clinker Clinker Clinker Clinker dust
Bremen	1993:	Outlet in slag bin	WearCast 1000	Slag
Dyckerhoff Längerich	1994:	Chain conveyor	WearCast 1000 HT	Clinker
HeidelbergerZement Burglengenfeldt	1990 & 91:	Dedusting pipe in clinker cooler	WearCast 1000	Clinker dust
Lengfurt Treifenstein	1993:	Dedusting pipe in clinker cooler	WearFlex 2000	Clinker dust
Gebr. Seibel Erwitte	1992: 1993: 1994: 1994: 1995:	Chain conveyor Chain conveyor Conical part of Polysius separator Separator Chain conveyor	WearFlex 2000 WearCast 1000 HT WearFlex 2000 WearFlex 2000 WearCast 2000 HT	Clinker Cement Cement/clinker Cement Cement
Wössinger Zement Walzbachtal	1991:	Turbo separators	WearCast 1000	Cement
Wülfrather Zement Duisburg	1990:	Cyclone cone in grinder	WearCast 1000	Cement/raw meal
Sötenich	1995:	Pipes	WearCast 2000 HT	Clinker
Rheinische Kalk Wülfrath	1991: 1993:	Cyclones and inlets Pipes	WearFlex 1000 WearCast 2000	Cement/raw meal Cement dust
Rüdersdorfer Zement Rüdersdorf	1992:	Cyclones Cylindrical part between mill and separator	WearFlex 2000 WearFlex 2000	Cement/raw meal Cement
Karsdorfer Zement Karsdorf	1995:	Separator	WearFlex 3000	Cement
Schwenk Zementwerke Bernburg	1995:	Chute for clinker Bunker Classifier Chute	WearFlex 2000 WearFlex 2000 WearFlex 2000 WearFlex 2000	Cement/clinker Cement Cement Cement



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Plant	Year	Densit® installation	Densit® material	Medium
India				
Cimco	1994:	KHD cement separator	WearFlex 2000	Cement
Indonesia				
Indocement West Java	1995:	Cooler duct EP	WearFlex 2000	Cement
Semen Padang				
Padang	1995:	Wearplates in Lösche mill	WearCast 3000	Raw meal
	1995:	FLS-CV separator	WearFlex 2000	Raw meal
Italy				
A. Barbetti				
Gubbio	1993:	Dedusting duct from separator	WearFlex 2000	Cement dust
	1995:	Duct from grate cooler	WearCast 2000 HT	Clinker dust
Impianti Bazzi				
Casale - Monserrato	1993:	Lining of cement separator	WearCast 2000	Cement
	1994:	Dedusting duct	WearCast 2000	Clinker dust
Plant in Mexico	1995:	Cement separator	WearCast 2000	Cement
	1996:	Cement separator	WearCast 2000	Cement
	1996:	Cyclone	WearCast 2000	Clinker dust
Cementir				
Spoleto	1993:	Cyclone dedusting excess air from grate cooler	WearCast 2000 HT	Clinker dust
	1995:	Dedusting duct	WearCast 1000 HT	Clinker dust
Cassago	1994:	Dedusting duct from separator	WearFlex 2000	Cement dust
Cementerie del Centro Nord				
Siniscola	1993:	Pipe bends in pneumatic cement transport	WearFlex 2000	Cement
COLACEM				
Caravate	1994 & 95:	Front plate in grate cooler	WearCast 2000 HT	Clinker
Ghigiano	1994:	Front plate in grate cooler	WearCast 2000 HT	Clinker
	1994:	Lining of tertiary air duct	WearCast 1000 HT	Clinker dust
	1995:	Valve, tertiary air duct	WearCast 1000 HT	Clinker dust
Galatina	1995:	Cement separator	WearFlex 2000	Cement
ENIRISORSE				
Paderno - Dugnano	1994:	Lining, dedusting duct metal melting kiln	WearCast 2000 HT	Slag dust
Felice Rusconi				
	1994:	Front plate in grate cooler	WearCast 2000 HT	Clinker
Industria Cementi Giovanni ROSSI				
Piacenza	1993:	Fan casing, excess air from grate cooler	WearFlex 2000	Clinker dust
	1994:	3 cyclones, dedusting excess air from grate cooler	WearFlex 2000	Clinker dust
	1995:	Pipes in kiln system	WearCast 1000 HT	Clinker dust
		Cyclones	WearFlex 2000	Clinker dust
Pederobba	1993:	Chute, clinker transport	WearCast 2000	Clinker
Fumane	1995:	Cement separator	WearFlex 2000	Cement dust



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ITALCEMENTI				
Calusco D'adda	1994 & 95:	Dedusting duct from separator	WearFlex 2000	Cement dust
Merone-Ceti	1993 & 94: 1995:	5 cyclones Deflector in Polysius Vertical roller mill	WearCast 1000 HT WearFlex 2000	Clinker dust Raw meal
Cementeria di Monselice	1989:	Throat in FLS-ATOX-mill	WearCast 1000	Raw feed
Cementeria di Moranno Po	1993:	Fan casing, excess air from grate cooler	Wear Cast 1000	Clinker dust
Cementeria di Merone	1994:	1 cyclone, dedusting excess air from grate cooler	WearCast 2000 HT	Clinker dust
Cementi Riva	1993: 1995:	Fan casing, excess air from grate cooler Unknown	WearFlex 2000 HT WearCast 2000	Clinker dust Unknown
SACCI	1993 Cagnano	Chute from grate cooler Unknown	WearCast 2000 HT WearFlex 2000	Clinker Unknown
Castelraimondo	1995:	Unknown	WearFlex 2000	Unknown
UNICEM				
Guidonia	1993: 1993:	Chute for raw meal Front plate and chute in grate cooler	WearFlex 2000 WearCast 2000 HT	Raw meal Clinker
S. Arcangelo	1993: 1993:	Chute from grate cooler Chute, clinker transport	WearFlex 2000 WearFlex 2000	Clinker Clinker
Vernasca	1994: 1995: 1995:	Cement separator Chute in precipitator Dedusting ducts	WearFlex 2000 WearFlex 2000 WearCast 2000 HT	Cement Cement dust Clinker dust
Barletta	1994	Unknown	WearFlex 2000	Unknown
Travesio	1996	Cyclone	WearFlex 2000	Clinker dust
PRESACEMENTI	1995: 1996:	Raw Mill Department Ducting	WearCast 2000 WearFlex 2000	Raw meal Clinker dust
SICILIANA				
Ragusa	1996:	Cement separator	WearFlex 2000	Cement
Korea				
Asia Cement				
Jaechon	1995:	Raw meal duct Raw meal cyclones	WearFlex 2000 WearFlex 2000	Raw meal Raw meal
Malaysia				
Cement Manuf.				
Sarawak - Kuching	1994:	Krupp - Polysius Sepol separator	WearFlex 2000	Cement
Cima				
Perlis	1994:	Onoda turbo separator	WearFlex 2000	Cement
APMC				
Rawang	1995:	Raw meal pipework	WearCast 3000	Raw meal



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Plant	Year	Densit® installation	Densit® material	Medium
Mexico				
Cementos Monctezuma				
Tepetzido plant	1996:	4 clinker dedusting cyclones Bazzi cement separator	WearCast 1000 HT WearCast 1000 HT	Clinker Cement
Norway				
Norcem A/S				
Kjøpsvik	1991: 1992: 1993 & 94 1995:	Chain conveyor and FLS-Atox mill Lining of dedusting cyclone Pipes Lining of chain conveyor	WearFlex 2000 WearFlex 2000 WearCast 2000 WearCast 3000	Clinker Cement Cement Clinker
Philippines:				
Solid Cement				
	1995:	Clinker pre-grinding duct	WearFlex 2000	Cement
Portugal				
Cimpor				
Alhandra	1993 & 94: 1993 & 94: 1994: 1995: 1996:	Dedusting duct from cement separator (OSEPA) Raw mill outlet Lining of cement separator (Sepol Polysius) Lining of bag filter inlet Dedusting ducts of raw mill nr. 6	WearFlex 2000 WearFlex 500 WearFlex 2000 WearFlex 2000	Cement Raw meal Cement Cement Raw meal
Loulé	1994: 1996:	Lining of dedusting duct after grate cooler Outlet of coal mill KHD cement separator Grate cooler dedusting hopper	WearCast 2000 HT WearCast 1000 HT WearFlex 2000 WearFlex 2000	Clinker dust Coal Cement Cement
Souselas	1992: 1996:	Lining of 2 cement separators (Sepol Polysius) Clinker dedusting duct	WearFlex 500 WearFlex 2000	Cement Clinker
CMP				
Pataias	1993:	Lining of cyclone	WearFlex 2000	Raw feed
Secil				
Setúbal	1987, 88 & 89: 1993, 94 & 95:	Lining of 3 FLS-Sepax separators Ducts and bends for clinker dedusting Dedusting cyclone Bends and pipes Bottom of bag filter 1994: 1994 & 95: 1996:	WearCast 1000 WearFlex 2000 WearFlex 2000 WearCast 2000 WearFlex 2000 WearFlex 2000 WearFlex 2000 WearFlex 2000 WearFlex 2000 WearFlex 2000 WearFlex 2000 WearFlex 2000 WearFlex 2000	Cement Clinker dust Raw meal Coal dust Cement Raw meal Raw meal Raw meal Raw meal Coal Raw meal Raw meal



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Spain				
Asland				
Cordoba	1989: 1994:	Sepax separator Dedusting duct between the mill and electrofilters	WearCast 1000 WearFlex 2000	Cement Raw meal
Montcada	1988:	Sepax separator	WearCast 1000	Cement
Niebla	1989:	Sepax separator	WearCast 1000	Cement
Sagunto	1988: 1994:	Sepax separator Sepax separator	WearCast 1000 WearFlex 2000	Cement Cement
Villaluenga	1988:	Sepax separator	WearCast 1000	Cement
Financiera Y Minera				
Malaga	1994:	Atox mill	WearFlex 2000	Coal dust
Hispania				
Yeles	1994: 1995:	Pipe bends Pipe bends	WearFlex 2000 WearCast 2000	Coal dust Cement
Lacsa				
Sant Feliu	1988: 1989:	Sepax separator Sepax separator	WearCast 1000 WearCast 1000	Cement Raw meal
Castillejo	1989: 1993: 1995:	Sepax separator Atox mill Dedusting cyclones	WearCast 1000 WearCast 1000 WearFlex 500	Cement Coal dust Coal dust
Cementos Molins				
Barcelona	1994 & 95: 1995:	Flash dryer Duct bends	WearFlex 2000 WearFlex 2000	Raw meal Clinker
Morata de Jalon				
Zaragoza	1988: 1995:	Sepax separator Pipe bends	WearCast 1000 WearCast 2000	Cement Cement
Rezola Añorga				
San Sebastian	1994 & 95:	Loesche vertical mill	WearFlex 2000	Raw meal
Tudela Veguin				
Abono	1990: 1991:	Sepax separator Sepax separator	WearCast 1000 WearCast 1000	Cement Cement
La Robla	1992:	Sepax separator	WearCast 2000	Cement
Uniland Monjos				
Barcelona	1995:	Dedusting cyclones Lurgi	WearFlex 2000	Clinker
Valenciana				
Alcanar	1993: 1994: 1993 & 94:	Sturtevant separator SD160 Sturtevant separator SD120 Dedusting cyclones Lurgi	WearFlex 2000 WearFlex 2000 WearFlex 2000	Cement Cement Clinker
Alcala	1995:	Inlet of cement mill	WearFlex 2000	Cement
Valderrivas				
El Alto	1991:	Sepax separator	WearCast 1000	Cement
Vicalvaro	1990:	Sepax separator	WearCast 1000	Cement
Hontoria	1988:	Sepax separator	WearCast 1000	Cement



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Plant	Year	Densit® installation	Densit® material	Medium
Sweden				
Cementa AB				
Degerhamn	1993 & 94: 1994: 1996:	Pipes for raw meal Separator for raw meal Separator for raw meal	WearCast 2000 WearFlex 2000 WearFlex 2000	Lime Lime Lime
Skövde	1992 & 94: 1993: 1995:	Chute Chain conveyor Separator for raw meal Chute	WearFlex 2000 WearCast 2000 WearFlex 2000 WearFlex 2000	Lime Coal Lime Raw meal
Slite	1993: 1994:	Dedusting cyclones Coal mill	WearCast 2000 HT WearFlex 2000	Clinker dust Coal
Hydro Supra AB				
Köping	1987: 1987 & 88:	Fan housing Chute	WearFlex 2000 WearCast 1000	Lime Lime
Höganäs AB				
Höganäs	1992, 93 & 94: 1992:	Cyclone Bends	WearCast 2000 WearCast 2000	Coke Lime
Switzerland				
Ciments et Béton				
Eclepens	1990:	Wear lining of tertiary pipe system	WearCast 1000	Hot air & clinker dust
Bündner Zementwerke				
Untervaz	1991:	Lining of cyclones and inlet pipes	WearCast 1000	Cement
HCB-Holderbank				
Rekingen	1994:	Raw meal mill, side panels	WearFlex 2000	Raw meal
Portland Zementwerk AG				
Thayngen	1994:	Wear protection in separator	WearFlex 2000	Cement & raw meal
Taiwan				
Asia Cement				
Hualien	1994: 1995: 1996:	Overflow pipe Chain conveyor Duct Chute V-Separator	WearFlex 2000 WearFlex 2000 WearFlex 2000 WearFlex 2000 WearFlex 2000	Clinker Clinker Cement Clinker Cement



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Taiwan Cement Engineering Hualien	1995:	Duct between Osepa & bag filter	WearFlex 2000	Clinker
Lucky Cement Suao	1995:	FLS Sepax® separator	WearFlex 2000	Cement
China Rebar Cement Tungsan	1995:	Fan casing	WearFlex 2000	Clinker dust
China Hi-ment Kaohsiung	1995:	Krupp Polysius flash dryer	WearFlex 2000	Slag
Universal Cement Kaohsiung	1994:	Clinker chute	WearFlex 2000	Clinker
Thailand				
TPI Polene Saraburi	1995:	Raw meal mill housing	WearFlex 2000	Raw meal
The Netherlands				
Cemij Rotterdam	1993:	In- and outlets in cement mills	WearFlex 2000	Cement
Turkey				
Adana Cimento Adana	1994:	Cement separator pipes Clinker chute	WearFlex 2000 WearFlex 2000	Clinker Clinker
Canakkale Cimento Istanbul	1994:	2 FLS Fuller separators Duct for cement Clinker chute	WearFlex 2000 WearFlex 2000 WearFlex 2000	Clinker Clinker Clinker
N.U.H. Cimento Istanbul	1994:	Krupp-Polysius separator Ducts for cement Clinker chute	WearFlex 2000 WearFlex 2000 WearFlex 2000	Clinker Clinker dust Clinker
ESCIM Cimento Eskisehir	1994:	Trials in clinker chutes	WearFlex 2000	Clinker
Denizli Cimento Denizli	1995:	Clinker chute	WearFlex 2000	Clinker dust



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Plant	Year	Densit® installation	Densit® material	Medium
United Kingdom				
Blue Circle Cement				
Aberthaw	1992:	Bends and Sepax air intake	WearFlex 2000	Cement
	1994:	Sepax duct inspection pieces	WearFlex 2000	Cement
Cauldon	1992:	Pre cyclone centre section	WearFlex 2000	Raw meal
	1993:	Wear lining of preheating cyclone	WearFlex 2000	Raw meal
Cookstown	1991:	Wear lining of chain conveyor	WearFlex 2000	Clinker
	1994:	Lorry loading pipes. 4" NB x 45 off	WearCast 2000	Cement
		Silo feed pipes. 10" NB x 90 degrees	WearCast 2000	Cement
Hope	1994:	Storage silos pipes. 10" NB. 20 off	WearCast 2000	Clinker
		Coal mill feed pipes and valves. 6"	WearCast 2000	Coal
Northfleet	1992:	DCE cyclones	WearFlex 1000	
		Mill trunion ring	WearFlex 1000	
		Coal mill feed pipe	WearCast 1000	Coal
	1993:	Beumer feed box	WearFlex 2000	
Plymstock	1985:	Duct between separator and cyclone	WearFlex 1000	Cement
		Fan casing in coal conveyor	WearFlex 1000	Coal
		Raw meal cyclones and riser duct	WearFlex 2000	Raw meal
Swanscombe	1992:	Wash drum mill trunion rings	WearFlex 2000	
Civil and Marine				
Llanwern	1993:	Wear lining of flash dryer stack	WearFlex 2000	Slag
Hepworth Minerals				
Kings Lynn	1993:	Wear lining of separator	WearFlex 2000	Cement
Rugby Portland Cement				
Rochester	1992:	Pipe components from cement mill	WearCast 2000	Cement
		90 degree bends mill transport lines	WearCast 2000	Cement
		Mill feed pipes 6" NB	WearCast 2000	Cement
Southferry	1993:	Clinker cooler duct	WearCast 1000 HT	Clinker
Sean Quinn Cement				
Derrylin	1992:	Mill outlet	WearFlex 2000	Raw meal
Singleton Birch				
Humberside	1992:	Scrubber containers	WearFlex 2000	Raw meal
		Separator cones	WearFlex 2000	Cement
Vietnam				
Vietnam Union Cem.				
Hoang Thach II	1995:	FLS-Atox® wear plates	WearCast 2000	Raw meal



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Deliveries through system suppliers:

F.L. Smidth Sepax® Separator

The Densit® wear protection products have been specified by F.L. Smidth as wear protection in their Sepax® Separators for cement and raw meal. The Densit® products have been installed on the riser pipe, the reject cone, the wall sections and the fines outlet section. The dedusting cyclones are also lined when these are within the supply scope of the Sepax®.

Brazil:

- 1986: Votorantim - Santa Helena
- 1987: Votorantim - Poty
- 1987: Camargo Correa - Bodoquena
- 1987 & 91: Camargo Correa - Apiaí
- 1988: Niquel Tocantins
- 1989: Joao Santos Capo Bonito
- 1989: Joao Santos Itabira

Canada:

- 1988: St. Marys - Bowmanville
- 1989: St. Laurence - Beauport

Chile:

- 1991: Cemento Melon

P.R. of China:

- 1989: Shanghai Cement
- 1993: Yantai
- 1993: Chongqing
- 1994: Guangzu, Yunfu
- 1994: Wulan

Columbia:

- 1989 & 93: Rio Claro
- 1994: Boyaca

Cyprus:

- 1987: Vassiliko Cement Works Ltd.

Denmark:

- 1987 & 94: Aalborg Portland

Egypt:

- 1994: Alexandria, PPC

Ire:

- 1987: Irish Cement - Platin

Finland:

- 1987: Lohja - Virkkala
- 1987: Partek - Pargas

France:

- 1992: Ciments d'Origny - Lumbres

Great Britain:

- 1990: Civile & Marine
- 1992: Blue Circle - Aberthaw

Greece:

- 1987 & 94: Titan - Kamari

Guatemala:

- 1988: Cementos Progresso

Hong Kong:

- 1990: China Cement - Tap Shek Kok

Iceland:

- 1989: Akranes

India:

- 1989: Shree Beawar
- 1991: Hirmi
- 1991: Iharsuguda
- 1991: Tata Chemicals - Mithapur
- 1992: Gujarat
- 1992: Hira Cement
- 1992: Maihar Cement
- 1992: ACC Kaymore
- 1994: DLF Cem. Ltd.
- 1994: Jaypee Bela
- 1994: Prism
- 1994: Sanghi



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List of references**

F.L. Smidth Sepax® Separator continued**Indonesia:**

1990: Tonasa
1991: P.T. Semen - Padang

Jordan:

1994: Jordan C.F.C. Ltd.

Lithuania:

1991: Akmenes Cement

Mexico:

1988: CEMEX - Monterey
1988: CEMEX - Torreon
1988: CEMEX - Valles
1989: Cementos Guadalajara
1990: Mexicanos - Yaqui
1991: CEMEX - Huichapan
1991: Tolteca - Atotonilco
1992: Tolteca - Tepeaca
1992: Chihuahua

Morocco:

1988: Ciments d'Agadir

The Netherlands:

1990: ENCI N.V.
1991: Robur

Norway:

1988: Norcem - Dalen
1991: Norcem - Kjöpsvik

Northern Ireland:

1989: Sean Quinn

Pakistan:

1990: WAH
1990: Pioneer
1994: Fauji
1994: D.G. Kahn
1994: Kohinor Tex. Maple Leaf

Philippines:

1991: HI Cement
1992: Solid Cement

Portugal:

1988 & 89: Secil Setubal

Puerto Rico:

1986: San Juan

Singapore:

1992: Ssangyong
1992: Jurong

Spain:

1987: Asland - Cordoba
1987 & 88: Asland - Sagunto
1987: Asland Villaluenga
1987: Morata de Jalon
1987: Cementos Molins
1987: Hontoria
1987: Sanson - Santa Cruz
1988: Asland - Montcada
1989: Cantábrico
1989: Asland - Niebla
1989 & 90: Portland Iberia
1990: Tudela Aboño
1990: Valenciana Bonol
1991: Valderivas el Alto
1992: La Robla

Taiwan:

1990: Constant Stamnia
1993: Lucky Cement

Thailand:

1989 & 92: Siam Cement - Thung Song
1989: Jalapra-thran Cement - Takli
1989: Jalapra-thran Cement - Cha Am
1990 & 91: Siam City Cement - Tabfa
1990 & 92: Siam Cement - Kaeng Khoi
1990: Siam City Cement - Tabkwang
1991 & 92: Siam Cement - Ta Luang
1992 & 94: Asia Cement

Turkey:

1988: Cimsa Mersin
1988: Akcimento Istanbul
1988: Yibitas Cimento
1989: Cimentas Izmir
1992: Bursa Cimento
1992: Akcimento Kayseri
1993: Adana
1993: Canakkale
1994: Mardin Cimento
1994: Nigde
1995: BATICIM Kula
1995: BATISÔKA

United States of America:

1988: Ideal Cement - Utah
1988: South Western Portland - Victorville
1989: Phoenix Cement - Arizona

Vietnam:

1993: Hoang Tach



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F.L. Smidth Atox® mills

The Densit® wear protection products have been specified by F.L. Smidth as wear protection in their Atox® raw meal and coal mills. The Densit® products are installed as wear plates on the mill housing.

Brazil:

- 1989: Cia. de Cimento Itambé - Balsa Nova
- 1994: Cimento Tocantins S.A.
Tocantins, Distrito Federal
- 1994: Compania Cemento Portland Itau
Passos, Minas

Canada:

- 1988: St. Mary Cement Co. - Bowmanville

P.R. of China:

- 1991: INSTESC - Lingwu
- 1991: China National Technical - Huaxin
- 1993: Int. Tendering Co. of CNTIC - Tongling
- 1994: Int. Tendering Co. of CNTIC
Changjiang - Hainan
- 1994: China National Technical
Hebel Dongyin Cement Co. Ltd.

Columbia:

- 1993: Cementos Rioclaro S.A. - Rioclaro
- 1994: Cementos Boyaca S.A. Boyaca

India:

- 1991: Hirmi
- 1992: Pipavav, Gujarat
- 1994: DLF Cement Ltd.
- 1994: Rajasthan
Prism Cement Ltd. - Maharashtra

Italy:

- 1988: Cementeria di Monselice S.p.A.
Monselice

Kenya:

- 1994: The East African Portland
Cement Company Ltd.
Athi River Plant

Norway:

- 1990: Norcem A/S - Kjøpsvik

Pakistan:

- 1990: State Cement Co. of Pakistan - Wah
- 1993: Fauji Cement Co. Ltd. - Fatehjang
- 1994: Kohinoor Textile Mills Ltd.
Maple Leaf
- 1994: Nishat Group
- 1994: D.G. Khan Cement Co.
Chakwal Cement Co. Ltd.
Punjab

Spain:

- 1989: Portland Valderrivas S.A. - El Alto
- 1991: Portland Iberia S.A.
Castillejo de Anover

Thailand:

- 1989: Siam City Cement Co. Ltd.
Tabfa 2
- 1990: Siam City Cement Co. Ltd.
Tabkwang
- 1994: Siam City Cement Co. Ltd.
Tabkwang

Vietnam:

- 1993: Vietnam Union Of Cement Plants
Hoang thach



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Plant	Year	Densit® installation	Densit® material	Medium
F.L. Smidth				
Cementos Tolteca S.A. Atotonilco, Mexico	1993:	Lining of cyklon pipes	WearFlex 2000	Cement
Larsen & Toubro Ltd. Hirmi, India	1993:	Lining for FLS Sepax® separator Lining for FLS Atox® mills	WearCast 1000 WearFlex 2000/ WearCast 1000	Cement Raw meal
Kommunekemi A/S Nyborg, Denmark	1993:	Pipes	WearCast 2000	
Lucky Cement Corp. Taiwan	1993:	Lining for FLS Sepax® separator	WearFlex 2000	Raw meal
Cementerie de Ain Touta Algeriet	1993:	Pipes and bends	WearCast 2000	Cement
Zespos Electrowni Ostroleka Poland	1993:	Pipes	WearCast 2000	Coal dust
Adana Cimento Tyrkey	1993:	Lining for FLS Sepax® separator	WearFlex 2000	Blended
Isparta Tyrkey	1994:	Automatically operated valves	WearCast 2000	
Mitsubishi Cement Co. China	1994:	Lining for FLS Sepax® separator	WearFlex 2000	Cement
Hoang Thach II Cement Plant Vietnam	1994:	Lining for FLS Atox® mills	WearFlex 2000	Anthracite
Mardin Cimento Turkey	1994:	Lining for cyclone pipes	WearFlex 2000	Cement
Jordan Cement Jordan	1995:	Lining for mill pipes	WearFlex 2000	Cement
Siam City Thailand	1995:	Lining for FLS Sepax® separator	WearFlex 2000	Cement



Christian Pfeiffer:

The system supplier Christian Pfeiffer, Beckum, Germany, is using Densit® wear resistant products in machines and machineparts they are supplying to the cement industry.

Germany:

1994:	Distributor plate	WearFlex 2000
1994:	QDK 25 classifiers	WearFlex 2000
1994:	QDK 16 classifiers	WearFlex 2000
1994:	Distributor plate	WearFlex 3000
1994:	QDK 38 classifier	WearFlex 2000

Krupp-Polysius:

Krupp-Polysius has specified Densit® wear resistant products to a variety of their process equipment supplied to the cement industry - world wide.

Germany:

1994:	Wülfrauer Zement, Duisburg	Chute	WearFlex 2000
1992:	Alsen - Breitenburg, Lägerdorf	Separator outlet	WearFlex 2000
1995:		Dedusting cyclones	WearFlex 1000 HT
1995:	Karsdorfer Zement, Karsdorf	Classifier	WearFlex 3000
1995:	E. Schwenk, Bernburg	Bunker	WearFlex 2000
		Classifier	WearFlex 2000
		Chute	WearFlex 2000

Italy:

1993/94:	Cementeria De Merone, Ternate	Dedusting cyclone	WearFlex 1000 HT
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Thailand:

1994:	TPI Polene Co., Saraburi	Flue gas cyclone	WearFlex 1000 HT
1995:		Cyclone	WearFlex 1000

Krupp Fördertechnick (O+K):

Germany:

1990:	Wülfrauer Zement, Duisburg	Cyclone	WearFlex 1000
1991:	Rheinische Kalksteinswerk, Wülfrauer	Cyclone	WearCast 1000
1992:	Rüdersdorfer Zement, Rüdersdorf	Cyclones	WearFlex 2000

Switzerland:

1991:	Bündner Zement, Untervaz	Cyclones	WearCast 1000
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KHD Humboldt Wedag AG:

KHD specifies Densit® wear resistant products to various process parts used in the cement industry.

Austria:

1993:	Zementwerk Eiberg, Kufstein Perlmooser Zementwerke, Wien	Coarse outlet Coarse outlet	WearCast 2000 WearCast 2000
1994:	Perlmooser Zementwerke, Wien	Coarse outlet	WearCast 2000

China:

1994:	China National Technical Huaxin	Cykclone + classifier	WearCast 2000
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Germany:

1992:	Fortuna Dykerhoff, Geseke Kalkwerk Peine	Coarse outlet Coarse outlet	WearCast 2000 WearCast 2000
1993:	Harz Kalk, Schraplau Rüdersdorfer Zement GmbH	Coarse outlet Coarse outlet	WearCast 2000 WearCast 2000
1994:	Rüdersdorfer Zement GmbH Zementwerk Berlin	Distributor Box Coarse outlet	WearCast 2000 WearCast 2000

France:

1992:	Group Originy, Altkirch	Coarse outlet	WearCast 2000
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Hungary:

1994:	Beremend cement, Beremend	Coarse outlet	WearCast 2000
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Malaysia:

1994:	Cima Perlis	Coarse outlet	WearCast 2000
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Phillippines:

1993:	Republic Zement, Corp. Manila	Coarse outlet	WearCast 2000
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Saudi Arabia:

1994:	Saudi Cement Company, Dammam	Coarse outlet	WearCast 2000
1995:	Arabian Cement Co. Ltd., Jeddah	Coarse outlet	WearCast 2000

Turkey:

1994:	Yozgat Cimento	Classifier	WearCast 2000
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United Arab Emirates:

1993:	Fujairah Cement Industries	Coarse outlet	WearCast 2000
1995:	Ras al Khaimah Co.	Coarse outlet	WearCast 2000

