

classifying and grinding systems

Since 1995 HURRITEC separators have been installed in several plants all over the world where they are implemented in the production system of cement, industrial minerals, steel and products made of wood.

PM-Technologies GmbH is proud to have many international companies as their customers, e.g. BUZZI Unicem, Ciments CALCIA, DYCKERHOFF AG, HEIDELBERG Cement AG, HOLCIM AG, LAFARGE AG and many more.

We have realized our tailor-made system-solutions already in numerous projects for the best customer's satisfaction. On following pages you find an extract out of our reference list, particularly for latest implementation of HURRITEC separators and preheater upgrades.

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cyclone preheater upgrade

year	project	plant capacity	customer / plant	country
2009	inline calciner	2.200 tpd	BuzziUnicem Robilante	Italy
2008	upgrade stage II + IV	2.000 tpd	BuzziUnicem Robilante	Italy
2007	modification stage III	1.400 tpd	Heidelberg Zement AG Anneliese	Germany
2007	modification Top stage (stage IV) PH-kiln 1	2.100 tpd	Holcim Maroc SA	Morocco
2007	modification stage IV		Lehigh-Southwest Cement Company	CA, USA
2007	upgrade stage 1, new GV and modification of entrance bend unit	2.300 tpd	Spenner Zement	Germany
2007	upgrade stage 1 (new GV) and stage 4, incl. kiln riser duct	1.300 tpd	Holcim France Altkirch	France
2006	new GV stage 2	3.000 tpd	CBR Heidelberg Cement	Belgium
2006	upgrade stage 3, new GV, riser duct and inlet bend	2.000 tpd	BuzziUnicem Robilante	Italy
2005	upgrade stage 1, new GV and modification of the cyclone entrance	1.400 tpd	Heidelberg Zement AG Anneliese	Germany
2005	modernisation stage 4, transition riser duct and inlet bend	1.400 tpd	Heidelberg Zement AG Anneliese	Germany
2004	upgrade kiln shot, kiln inlet, riser duct and inlet stage 4	1.800 tpd	Dyckerhoff Zement AG	Germany
2004	kiln inlet chamber	1.200 tpd	Zementwerk Leube GmbH	Austria
2004	upgrade stage 1 / 3, new GV stage 1	2.200 tpd	Holcim AG	Hungary
2003	modernisation stage 4	3.100 tpd	Dyckerhoff Zement AG	Germany
2003	new GV stage 1	3.600 tpd	Lone Star Industries Inc.	USA

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cyclone preheater upgrade

year	project	plant capacity	customer / plant	country
2003	upgrade riser duct, inlet stage 2 / 3	3.100 tpd	Ciment Quebec	Canada
2002	modification flash-calciner, stage 4	2.400 tpd	Ash Grove Cement	USA
2002	upgrade stage 1-4, kiln riser duct and kiln inlet, new GV stage 1 and 2	1.100 tpd	Dyckerhoff Zement AG	Spain
2002	new GV, riser duct and inlet stage 2	1.800 tpd	Dyckerhoff Zement AG	Germany
2002	upgrade stage 4 new GV stage 2	2.850 tpd	Ciment Quebec	Canada
2001	new GV stage 1	4.000 tpd	California Portland Cement	USA
2001	new GV stage 1	2.700 tpd	National Cement	USA
2001	upgrade stage 1 and clear gas ducting, new GV stage 1	2.000 tpd	Southdown Inc.	USA
2000	new GV stage 1	4.350 tpd	Southdown Inc.	USA
2000	modification stage 5	2.000 tpd	Spenner Zement GmbH	Germany
2000	upgrade stage 1, new GV stage 1	3.000 tpd	Dyckerhoff Zement AG	Luxembourg
2000	dual-cyclone stage 1	1.800 tpd	Lafarge Cement Polaka S.A.	Poland
1997	upgrade stage 2, 3 and 4	1.400 tpd	Lafarge Perlmooser AG	Austria

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kiln inlet modification

year	project	plant capacity	customer / plant	country
2008	new kiln inlet housing, incl. new kiln sealing pneumatic operated	2.000 tpd	Dyckerhoff Zement AG	Poland
2007	new kiln inlet housing	2.000 tpd	Dyckerhoff Zement AG	Poland
2004	new kiln inlet housing, incl. new kiln sealing pneumatic operated, new kiln shot, kiln riser duct and bottom stage modification	1.800 tpd	Dyckerhoff Zement AG	Germany
2004	new kiln inlet housing	1.200 tpd	Zementwerk Leube GmbH	Austria
2002	new kiln inlet housing, incl. new kiln sealing pneumatic operated, extended kiln shot, new kiln riser duct, bottom stage modification, complete preheater upgrade (800 to 1200 tpd)	1.200 tpd	Holcim AG (formerly Cementos Hispania S.A.)	Spain

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chlorine-bypass system

year	project	plant capacity	customer / plant	country
2008	bypass mixing chamber with fresh air fan kiln 1	2.500 tpd	Dyckerhoff Zement AG	Poland
2007	bypass mixing chamber kiln 1+2	2.000 tpd 1.200 tpd	Dyckerhoff Zement AG	Germany
2006	bypass mixing chamber with fresh air fan kiln 2	2.500 tpd	Dyckerhoff Zement AG	Poland
2005	bypass plant with raw meal feed	2.000 tpd	Dyckerhoff Zement AG	Germany
2004	bypass mixing chamber	1.800 tpd	Dyckerhoff Zement AG	Germany
2004	bypass mixing chamber	2.200 tpd	Spenner Zement AG	Germany
2003	bypass mixing chamber and de-dusting cyclone	2.800 tpd	Dyckerhoff Zement AG	Czech Rep.

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2-step meal chute systems & hot meal chutes

year	project	plant capacity	customer / plant	country
2007	partial and main meal chutes to kiln riser, meal splitter, accessories	1.300 tpd	Holcim France	France
2006	partial meal chutes to kiln riser, meal splitter, accessories	2.300 tpd	Secil	Portugal
2005	partial meal chute to kiln riser, meal splitter, accessories	1.800 tpd	Dyckerhoff Zement	Germany
2005	partial meal chute to kiln riser, meal splitter, accessories	1.400 tpd	Heidelberg Cement	Germany
2005	partial meal chute to kiln riser, meal splitter, accessories	4.000 tpd	Heidelberg Cement ¹⁾	Germany
2005	partial meal chute to kiln riser, meal splitter, accessories	2.500 tpd	Heidelberg Cement	Germany
2005	partial meal chute to kiln riser, meal splitter, accessories	2.000 tpd	Heidelberg Cement ¹⁾	Germany
2004	hot meal chute incl. pendulum flaps and expansion joints	5.400 tpd	Heidelberg Cement	Sweden
2004	partial meal chute to kiln riser, meal splitter, accessories	1.250 tpd	Zementwerk Leube ¹⁾	Austria
2004	hot meal chute incl. pendulum flaps and expansion joints	2.200 tpd	Holcim Hungary	Hungary
2004	partial meal chute to kiln riser, meal splitter, accessories	2.500 tpd	Teutonia Zement ¹⁾	Germany
2004	partial and main meal chutes to kiln riser, meal splitter, accessories	1.800 tpd	Jura Cement	Switzerland

¹⁾ these references are operating their kiln lines with hot gas bypass system additionally

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preheater accessories



year	project	customer / plant	country
2008	pendulum flaps for preheater tower	Herakles G.C.C.	Greece
2008	preheater accessories	Buzzi Unicem	Algeria
2007	hot meal pipe system	Heidelberg Cement	Germany
2007	pendulum flaps	Lafarge Perlmossler	Austria
2007	pendulum flap, stage I-III white cement kiln	Dyckerhoff Zement	Germany
2002	kiln inlet sealing	Gebr. Seibel GmbH & Co KG	Germany

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clinker cooler dedusting



year	project	plant capacity	customer / plant	country
2006	HURRITEC ST de-dusting clinker cooler	80.000 m ³ /h	Ciments Calcia-Villier	France
1997	HURRITEC DT de-dusting clinker cooler	165.000 m ³ /h	Dyckerhoff Zement AG	Germany
1996	HURRITEC DT de-dusting clinker cooler	300.000 m ³ /h	Dyckerhoff Zement AG	Germany
1996	HURRITEC DT de-dusting clinker cooler	140.000 m ³ /h	Dyckerhoff Zement AG	Germany
1994	HURRITEC DT de-dusting clinker cooler	120.000 m ³ /h	Dyckerhoff Zement AG	Germany
1994	HURRITEC DT de-dusting clinker cooler	100.000 m ³ /h	Wietersdorfer W&P	Austria