













































	Place of installation	Country	Type or size of plant	Transported Material	Supplied technology	Start date
1.	Pecs, Power Plant	 Hungary	3x32+25 MW	Fly ash	Air slide + airlift and pressure vessel conveying, Silo technology including dry unloading	1980
2.	Ozd, Steel Plant	 Hungary	Siemens-Martin furnaces	Iron-oxid dust from electrostatic precipitator	Vacuum type pneumatic transport from ESP hoppers	1980
3.	Obrenovac A, Power Plant	 Yugoslavia	2 x 200 MW	Fly ash	Fly ash collection with air slides connected hydraulic jet pump	1980
4.	Matra – Gyongyos, Power Plant	 Hungary	2x100 +3x200 MW	Fly ash	Dry unloading system for filling railway wagons with fly ash	1980
5.	Janschwalde I-III. Power Plant	 Germany	6 x 500 MW	Fly ash, Bottom ash	Combination of air slide-airlift for fly ash collection, dense phase pneumatic conveying for long distance, Bottom ash transport with belt conveyor	1982
6.	Dorog reconstruction	 Hungary	Heating plant	Fly ash, furnace slag	Air slide + hydro-pneumatic transport	1983
7.	Frantschach Patria Papierfabrik	 Austria	Fluid bed boiler 70 t/h	Fly ash, Reactor ash	Air slide + airlift system, silo technology with dry unloading	1983
8.	Gacko, Power Plant	 Yugoslavia	1 x 300 MW	Fly ash	Combination of air slide-airlift for fly ash collection, long distance transport with transport vessels	1983
9.	Komlo	 Hungary	Heating plant	Fly ash	Combination of air slide + transport vessel system, silo technology including fly ash conditioning with moistening drum	1983
10.	Kremikowczi, Power Plant	 Bulgaria	2 x 100 MW	Fly ash	Combination of air slide + transport vessel system, silo discharge including hydraulic jet pump for fly ash slurry handling	1983
11.	Paskov	 Czechoslovakia	Base-firing boiler	Pulverized MgO	Combination of air slide + pressure vessel system	1983
12.	Plevlja, Power Plant	 Yugoslavia	1 x 200 MW	Fly ash	Air slide and connected hydraulic jet pump for fly ash mixing with water, slurry transport to final disposal by centrifugal slurry pumps	1983
13.	Boxberg II. Power Plant	 Germany	6 x 200 MW	Fly ash	Fly ash conditioning with moistening drum	1983-88
14.	Ajka, Power Plant reconstruction	 Hungary	3 x32 MW	Fly ash, Bottom ash	Fly ash handling: air slide + hydraulic jet pump, Bottom ash handling: slurry pump	1984
15.	Borsod, Power Plant reconstruction I.	 Hungary	6 x 30 MW	Fly ash	Dense phase system for fly ash, Slurry system for bottom ash	1984
16.	National Ore and Mineral Mining CO Plant Mad	 Hungary	Mineral plant	Bentonite	Pneumatic transport with pressure vessel	1984
17.	Neubrandenburg, Power Plant	 Germany	4 x 64 t/h Boiler	Fly ash	Combination of air slide pressure vessel system, Fly ash technology including fly ash conditioning with moistening screw, Belt conveyor for bottom ash	1984
18.	Obrenovac B, Power Plant	 Yugoslavia	2 x 600 MW	Bottom ash	Fly ash collection with air slide system connected hydraulic jet pump, Belt conveyor for bottom ash	1984
19.	Zeltweg	 Austria	Heating plant	Ash	Pneumatic jet pump for boiler ash	1984
20.	BKB Helmstedt Buschhaus, Power Plant	 Germany	1 x 300 MW	Fly ash	Pneumatic ash handling with pressure vessel	1985
21.	Matra – Gyongyos, Power Plant	 Hungary	Gasconcrete plant	Fly ash	Dry unloading system	1985
22.	Eger	 Hungary	Heating plant 3 x 10 t/h Boiler	Brown coal	Coal pneumatic conveying	1985
23.	Klingenberg (Rummelsburg) Berlin, Power Plant	 Germany	2 x 320 t/h Boiler	Fly ash	Combination of air slide + transport vessel system, Complete silo technology including fly ash conditioning with moistening screw & connected belt conveyor to final disposal	1986
24.	Lauchhammer	 Germany	1 x 32 + 2 x 25 MW (5x120 t/h Boiler)	Fly ash	Silo discharge including dry unloading	1986
25.	Mulajore Generating Calcutta	 India	70 t/h Boiler	Multicyclone grits	Air slide transport	1986
26.	Oroszlany, Power Plant reconstruction	 Hungary	4 x 50 MW	Fly ash	Ash removal with combination of air slide and hydraulic jet pump, long distance slurry transport with centrifugal pump	1986
27.	Vetschau	Germany	Pilot plant	Fly ash, CaO suspension	Silo discharge system and moistening drum for fly ash	1986
28.	Chemnitz Nord II. Power Plant	Germany	3 x 60 MW	Fly ash, Bottom ash	Complete ash handling technology for fly ash and bottom ash	1986-89

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29.	FHKW Mellach Graz-Sud	 Austria	Heating plant 250 MW	Air Heater Ash	Pneumatic conveying with pressure vessel and jet pump, Silo technology incl. dry & wet unloading	1986-89
30.	Leykam Gratkorn Murztaler Papierfabrik	 Austria	Fluidboiler 165 t/h	Fly ash; Eco-ash	Multi dense phase pneumatic conveying under ESP & ECO hoppers to silo, Silo technology including dry unloading wet discharge with moistening drum	1987
31.	Neusiedler Papierfabrik HILM-KEMATEN	 Austria	Base firing boiler	Pulverized MgO	Pneumatic conveying with transport vessel	1987
32.	Anina, Power Plant	 Romania	3 x 200 MW	Fly ash	Fly ash conditioning with moistening drum	1988
33.	Eger	 Hungary	Limestone mine	Limestone powder	Limestone dense phase pneumatic conveying	1988
34.	Pecs, Power Plant reconstruction	 Hungary	2 x 50 MW	Fly ash	Air slide + airlift and pressure vessel conveying, Silo technology including dry unloading	1988
35.	Lenzing AG Chemiefaserwerk	 Austria	Base-firing fluid bed boiler	Pulverized MgO, Fly ash, Bed ash, ECO ash	Combination of air slide-airlift for fly ash collection, dense phase pneumatic conveying for long distance, Silo technology including fly ash conditioning with moistening drum	1989
36.	Bewag Reuter, Berlin, Power Plant	 Germany	Unit D,E, 2x100 MW	Fly ash	Dense phase pneumatic transport and silo technology incl. dry unloading and fly ash conditioning	1989
37.	Catalagzi I., Power Plant	 Turkey	1 x 150 MW	Fly ash, Bottom ash, Stack ash	Air slide + hydraulic jet pump and connected slurry handling by centrifugal slurry pumps	1989
38.	Dunaujvaros	 Hungary	Coke plant	E-precipitator coke dust	Multi dense phase pneumatic transport from ESP hoppers to silo	1989
39.	Offleben, Power Plant, II.reco.	 Germany	2 x 100 MW	Fly ash	Pneumatic conveying with transport vessel	1989
40.	Oroszlany, Power Plant reco.	 Hungary	4 x 50 MW	Fly ash	Fly ash conveying with transport vessel	1989
41.	Kangal, Power Plant	 Turkey	2 x 150 MW	Fly ash, Bottom ash	Fly ash handling with air slide airlift system, Bottom ash handling with belt conveyor, Silo technology including double screw fly ash conditioner	1990
42.	Miskolc	 Hungary	Foundry	Sand	Pneumatic conveying with plug type vessel	1990
43.	Solvay Ebensee	 Austria	Fluidboiler 50 t/h	Fly ash	Air slide + airlift conveying from bag filter hoppers to storage silo, Pneumatic jet pump conveying for Eco-ash, Bed ash, Lime dust, Sand	1990
44.	Catalagzi II., Power Plant	 Turkey	1 x 150 MW	Bottom ash; Fly ash	Air slide + hydraulic jet pump and connected slurry handling by centrifugal slurry pumps	1991
45.	Oroszlany, Power Plant, reconstruction	 Hungary	4 x 50 MW	Fly ash	Fly ash silo and connected dry unloading	1991
46.	EBS Wien	 Austria	Refuse burner 50 t/h Boiler	Fly ash	Air slide + dense phase pneumatic transport for fly ash ad bed ash	1992
47.	Labatlan, Cement factory	 Hungary	Cement plant	Fly ash	Dense phase pneumatic transport from ESP to receiving silo, Silo venting & dry unloading	1992
48.	Tatabanya	 Hungary	Heating plant	Fly ash	Air slide + pneumatic jet pump to transport fly ash from ESP hoppers to transfer bin, Pneumatic conveying from transfer bin to storage silo with pressure vessel	1992
49.	Beremend, Cement factory	 Hungary	Cement plant	Cement dust	Dedusting system with insertable vent filters for belt conveyor intersections and silo venting	1992-93
50.	Dorog	 Hungary	Heating plant	Fly ash	Air slide + wet unloading	1993
51.	Riedersbach I., Power Plant	 Austria	55 MW	Fly ash	Fly ash conveying from ESP hoppers to silo by pressure vessels	1993
52.	CEREOL, Martfu	 Hungary	Vegetable oil plant	Perlit	Pneumatic transport with jet pumps from silo and suck tipping unit	1993-95
53.	Beremend, Cement factory	 Hungary	Cement plant	Lime dust	Lime furnace dedusting plant with cased filter	1994
54.	Boran-Berlin Mullverbrennungsanlage	 Germany	Refuse boiler	Fly ash, Bed ash	Dense phase pneumatic transport and silo technology	1994



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55.	Steyremuhl EEGV Papierfabrik	Austria	Fluidboiler 55 t/h	Fly ash, Bed ash	Bed ash conveying with transport vessel, Boiler ash conveying with pneumatic jet pumps, Fly ash storage silo discharge with dry unloading and ash conditioning	1994
56.	Borsod, Power Plant reconstruction II.	Hungary	6 x 30 MW	Fly ash	Upgrading dense phase system, Silo venting with insertable vent filter	1995
57.	Aghios Dimitrios V, Power Plant	Greece	1x350 MW	Fly ash	Combination of pneumatic jet pump, air slide, airlift and silo venting.	1996
58.	Suralaya 5, 6, 7., Power Plant	Indonesia	3x600 MW	Fly ash	Multi dense phase pneumatic transport from ESP hoppers to transfer silo, Single vessel pneumatic transport from transfer silo to storage silos, Complete silo technology including dry unloading, fly ash conditioning to trucks and belt conveyors, Scraper conveyor + belt conveyor line for bottom ash to final disposal, Hydraulic jet pumps for mill rejects	1996-97
59.	Hodonin, Power Plant	Czech Republic	Fluid bed boiler, 2x170 t/h	Fly ash, Bed ash	Combination of air slide-airlift for fly ash collection, dense phase pneumatic conveying for long distance, Limestone pneumatic conveying with pressure vessels to daily silo, Limestone injection into combustion chamber with rotary feeder-pneumatic jet pump arrangement	1996-97
60.	Nyirbator	Hungary	Vegetable oil plant	Perlit	Pneumatic conveying with pneumatic jet pump from silos to different receiver bins including dedusting	1998
61.	Banjarmasin, Power Plant	Indonesia	2x64 MW	Fly ash	Two stage multi dense phase pneumatic transport and complete silo technology	1999
62.	Kangal III., Power Plant	Turkey	1 x 150 MW	Fly ash, Bottom ash	Fly ash handling with air slide airlift system, Bottom ash handling with belt conveyor, Silo technology including double screw fly ash conditioner	1999
63.	Plomin II., Power Plant	Croatia	1x150 MW	Fly ash	Combination of air slide airlift for fly ash transport from ESP hoppers to silo, Boiler ash conveying with pneumatic jet pumps, Silo technology including dry unloading and conditioning with rotary drum, Wet ash transport to final disposal with belt conveyor	1999
64.	Matra-Gyongyos, Power Plant	Hungary	3 x 200 MW, FGD plant	Limestone powder	Wagon unloading system including compressor station and silo technology	2000
65.	MOL Oil refinery plant, Szazhalombatta	Hungary	Petrol-coke plant	coke dust	Dedusting coke handling line including moving reclaim hopper, belt conveyor intersection points and silo venting with insertable filters	2000
66.	Nabi Rt, Budapest	Hungary	Plastic cutting machine	Plastic dust	Dedusting system of plastic machining	2000
67.	Ozd, Steel Plant	Hungary	Steel-works	coal	Pet coke pneumatic conveying and injection into foundry furnace with bottom discharge plug type conveying vessel	2000
68.	Unilever, Budapest	Hungary	Vegetable oil plant	Perlit	Sack tipping unit and connected pneumatic conveying	2000
69.	Unilever, Budapest	Hungary	Edible oil Factory, Unilever	Filter additive	Vacuum pneumatic conveying	2001
70.	Neyveli, Power Plant	India	2 x 210 MW	Fly ash, Bottom ash	System sizing and full design engineering for multi dense phase pneumatic conveying from ESP hoppers and air preheater hoppers, Complete silo technology including dry unloading, fly ash conditioning with rotary drums, Slag conveying with hydraulic jet pump & centrifugal pumps	2002
71.	Ozd	Hungary	Steel-works	Pet coke	Pet coke pneumatic conveying and injection into foundry furnace with bottom discharge plug type conveying vessel	2002
72.	Shoaiba, Sea Water Desalination Plant	Kingdom of Saudi Arabia	Heavy fuel fired boilers 5x60 MW	Oil ash	Vacuum type pneumatic transport from ESP hoppers to storage silos with water ring sealed vacuum pumps, Silo technology with dry unloading	2002

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73.	Shuqaiq, Sea Water Desalination Plant	 Kingdom of Saudi Arabia	Heavy fuel fired boilers 2x60 MW	Oil ash	Vacuum type pneumatic transport from ESP hoppers to storage silos with water ring sealed vacuum pumps, Silo technology with dry unloading	2002
74.	Suralaya Unit 3&4 Reco., Power Plant	 Indonesia	2x400 MW	Fly ash	Multi dense phase pneumatic transport from ESP hoppers directly to storage silos	2002
75.	Borsod, Power Plant	 Hungary	32 MW	Wood chips, Fly ash	Belt conveyor for wood chips, Screw conveyors and connected dense phase pneumatic transport to main silo.	2003
76.	CEREOL, Martfu, Vegetable oil plant	 Hungary	4x100t/h boiler, Bio mass fired boiler	Sunflower-seed ash	Fly ash collection from ESP hoppers by mechanical scraper conveyors and connected jet pump pneumatic transport to silo, Ash conditioning with rotary drum and connected big bag and open truck filling station	2003
77.	Shoaba, Sea Water Desalination Plant	 Kingdom of Saudi Arabia	Heavy fuel fired boilers, 7x60MW	Oil Ash	Mobile suction-pressure unit for removal oil ash from ESP hoppers	2003
78.	Dae Gu	 Republic of Korea	Fluid Boiler	Fly ash, Bed ash	Multi dense phase pneumatic conveying for fly ash, Lean phase transport for bed ash, Silo technology with dry unloading	2004
79.	Matra, Power Plant	 Hungary	3x200 MW	Fly ash	Fly ash pneumatic transport with single pressure vessel from existing silo to dry unloading station, Silo technology including dry unloading	2004
80.	Pecs, Power Plant	 Hungary	1x50 MW Biomass fired fluid bed boiler	Fly ash	Fly ash collection under ESP hoppers with screw conveyors, Long distance pneumatic transport to silo by pressure vessel, Bed ash extraction with cooling screw, scraper conveyors, vibration screen and the fine part recirculated to combustion chamber with pressure vessel, Filling up the fluid bed with sand by pressure vessel	2004
81.	Chang Shu	 China	Fluid Boiler 2x50 MW	Limestone	Limestone injection into fluid bed boiler with rotary feeder + feeding shoe	2005
82.	Gujarat Mineral Akrimota T.P.P.	 India	2x125 MW	Fly ash, Bed ash	System sizing and basic design for fly ash conveying with upper discharge vessel, bed ash discharge with cooling screw, conveying with bottom discharge vessel, complete silo technology	2005
83.	Kosovo B.	 SCG	2x350 MW Pulverized coal fired UNIT	Fly ash, Bottom ash	Silo discharging and venting system, Mixing technology and connected high concentration (1:1) pumping system to disposal area	2005
84.	Rihand	 India	2x500 MW	Fly ash	System sizing and basic design for fly ash conveying from ESP hoppers to transfer bins with vacuum type pneumatic conveying, Long distance transport to storage silos by dense phase pneumatic conveying, Silo technology including dry unloading and fly ash conditioning with rotary drum	2005
85.	TPS Oroszlany UNIT 1	 Hungary	1x50 MW	Bed ash	Bed ash conveying from under fluid bed boiler by water cooled screw conveyors (2) and connected screw mixer	2007
86.	TPS Oroszlany UNIT 1	 Hungary	1x50 MW	Biomass	Wood chips fuel transport from storage silo into combustion scraper via belt conveyor and scraper conveyors	2007
87.	Neyveli Lignite	 India	7x210 MW	Fly ash	System sizing and basic design for fly ash conveying from ESP hoppers to transfer bins with pressure type pneumatic conveying, Long distance transport to storage silos by dense phase pneumatic conveying, Silo technology including dry unloading and fly ash conditioning with rotary drum	2007
88.	TPS Rybnik	 Poland	4x350 MW	Limestone for FGD	Limestone wagon & truck unloading into 5000m3 limestone storage silo, silo venting, aeration and discharge to lime slurry mixing tank	2008



	Place of installation	Country	Type or size of plant	Transported Material	Supplied technology	Start date
89.	Neyveli Lignite Corporation	India	2x250 MW	Fly ash; Bed ash	System sizing and basic design for fly ash conveying from ESP hoppers to transfer bins with pressure type pneumatic conveying, Long distance transport to storage silos by dense phase pneumatic conveying, Bed ash conveying with cooling screws into transfer bin, bed ash conveying into storage silo, Silo technology including dry unloading and fly ash conditioning with rotary drum	2008
90.	TPS Oroszlany UNIT 2	Hungary	1x150 MW	Bed ash; Biomass	Bed ash conveying from under fluid bed boiler by water cooled screw conveyors (2) and connected screw mixer. Wood chips fuel transport from storage silo into combustion chamber via belt conveyor and scraper conveyors	2008
91.	Tusla Power Plant Unit IV.	Bosnia and Herzegovina	210 MW	Fly ash	Fly ash storage silo, silo aeration and discharge, two ash-water premixer unit and connected hydraulic jet pumps	2008
92.	New Parly	India	2x210 MW	Fly ash	System sizing and basic design for fly ash pneumatic conveying to silos and connected. High concentration slurry handling system	2008
93.	Matra Power Plant	Hungary	3x200 MW	Fly ash	Fly ash pneumatic transport with single pressure vessel from existing silo to dry unloading station, Silo technology including dry unloading (phase 2)	2008
94.	Kangal	Turkey	2x150 MW	Boiler ash	Replacement of the existing boiler ash handling system with new pneumatic conveying	2009
95.	Kolubara A	Serbia	110 MW	Fly ash, Bottom ash	System includes complete pneumatic conveying of fly ash to silo station. Bottom ash conveying with belt conveyor to silo station. Mixing technology and long distance high concentration slurry handling system	2009
96.	Obrenovac TENT B	Serbia	2x650 MW	Fly ash, Bottom ash	System includes complete pneumatic conveying of fly ash to silo station. Bottom ash conveying with belt conveyor to silo station. Mixing technology and long distance high concentration slurry handling system	2009-2010
97.	Matra Power Plant	Hungary	3x200 MW	Fly ash	Fly ash wagon loading system with 2x150t/h capacity	2010
98.	Komlo	Hungary	Biomass heating plant	Fly ash	Fly ash pneumatic conveying with jetpump into storage silo and big-bag filling unit	2010
99.	Fernwarme Wien Simmeringer	Austria	Incinerator plant	Fly ash	Fly ash mechanical conveying system with scraper conveyor and vibro-feeder for Drehofen 1 & 2	2011
100.	Slovnaft	Slovakia	Oil refinery	Limestone handling	Limestone truck unloading into limestone storage silo, silo venting, aeration and discharge to lime slurry mixing tank	2011
101.	Pécs	Hungary	Biomass power plant 35 MW	Bottom ash handling	Bottom ash transport with scraper conveyors to silo and automatic big-bag filling	2012
102.	Oslomej	Macedonia	Coal fired power plant 1x150 MW	Dense slurry	Supply of Fly ash and Bottom ash dense slurry mixing & pumping technology	2012
103.	BASF - Ludwigshafen	Germany	Flue gas cleaning plant	Fly ash, Active coke	Engineering and supply for pneumatic conveying of fly ash and active coke	2013
104.	Tufanbeyli TPP	Turkey	Coal fired power plant 3x150 MW CFB	Fly ash, Bed ash	Engineering & Supply: Bed ash handling from bed coolers into silo by mechanical & pneumatic conveying Fly ash (ECO, AP, ESP) pneumatic conveying into silo Compressor station for air supply of pneumatic conveying Silo technology of 1x6000m <sup>3</sup> bed ash, 3x7300m <sup>3</sup> fly ash silo including aeration, venting and discharge Fly ash humidifiers (two for each silo) and connected belt conveyors to disposal area	2014-15



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105.	AKSA Bolu Goynuk	Turkey	Coal fired power plant 2x135 MW CFB	Fly ash, Bed ash	Engineering & Supply: Bed ash handling from bed coolers into silo by mechanical & pneumatic conveying Fly ash (ECO, AP, ESP) pneumatic conveying into silo Compressor station for air supply of pneumatic conveying Silo technology of 1x900m3 bed ash, 2x900m3 fly ash silo including aeration, venting and discharge Fly ash humidifiers (two for each silo) and connected belt conveyors to disposal area	2014-15
106.	Guacolda	Chile	Coal fired power plant 3X152 MW CFB	CaO, Ca(OH) <sub>2</sub> , By-product	Engineering & Supply: 700 m3 CaO silo including aeration, venting, discharge and truck unloading, 240 m3 Ca(OH) <sub>2</sub> silo including aeration, venting and discharge, 4000m3 By-product silo including aeration, venting and discharge	2014-15
107.	Yanbu III	Kingdom of Saudi Arabia	Desalination plant 5x620 MW	Fly ash (from heavy fuel)	Engineering & Supply: of the the total ash pneumatic conveying and the connected silo station with dry unloading capabilities	2015
108.	Khabat	Iraq	Heavy fuel fired power plant 2x150 MW	Fly ash (from heavy fuel)	Engineering & Supply: of the the total ash vacuum conveying and the connected silo station with unloading through humidifier	2015
109.	Pécs	Hungary	Biomass power plant 35 MW	Fly ash handling	Fly ash (from straw firing) pneumatic conveying and mixing with bottom ash for fertilizer production	2016
110.	Nitrogenművek Zrt Pétfürdő	Hungary	Fertilizer Plant	Dolomite and Limestone	Engineering & Supply of the new dolomite milling station building, as well as the limestone & dolomite silos and a combined (pneumatic & mechanical) conveying system to the existing granulation plant	2017
111.	Paroseni Power Plant	Romania	150+50 MW	Fly ash, Bottom ash	Complete fly ash silo storage technology, as well as the fly ash and bottom ash feeding towards the dense slurry system	2017
112.	Jaworzno Power Station	Poland	Supercritical coal fired power plant 910 MW	Fly ash handling	Basic engineering and supply of critical components for fly ash pneumatic conveying system	2017-2018
113.	Goseong Thermal Power Plant	Republic of Korea	Supercritical coal fired power plant 2x1000 MW	Fly ash handling	Basic engineering for the fly ash pneumatic conveying system	2018
114.	18 Mart Çan Thermal Power Plant	Turkey	Coal fired power plant 2x160 MW	Bed ash, fly ash, gypsum slurry	Full engineering and supply of the refurbishment of the fly ash and bottom ash silo discharge system as well as the new paddle mixer system for the fly ash, bottom ash and gypsum slurry mixing.	2018