

ROXON AB – REFERENCE LIST2007-08-20
OE**ASH HANDLING EQUIPMENT**

<u>Customer</u>	<u>User</u>	<u>Equipment</u>	<u>Start up</u>
Stockholms Energi	Hässelbyverket, Sweden	Bottom ash from cal boiler: 1- Chain conveyor 1- Skip hoist 1- Slag silo 1- Double sector gate 1- Slag discharge building	1986
Norrköpings Kraft	Händelöverket, Sweden	Bottom ash, fly ash from coal boiler: 2- Fly ash screw feeders 1- Bottom ash belt conveyor 1- 2-way bucket chute 2- Skip hoists 1- Slag silo 1- Double sector gate	1986
Götaverken	Örebro Energi, Sweden	Bottom ash handling FB boiler: 1- Bottom ash silo 1- Vibrating bottom ash feeder 1- Submerged chain conveyor 1- Truck loading chute	1989
Generator	Jordberga, Sweden	Bottom ash from coal boiler: 1- Submerged chain conveyor	1989
SSA	Jordberga, Sweden	Ash handling from coal boiler: 1- Belt conveyor 1- Skip hoist 1- Ash silo 1- Double sector gate 1- Fly ash silo with screw feeder 1- Fly ash double screw mixer	1989
Mjölby Energi	Svartådalen, Sweden	Ash handling bio-fuel boiler: 2- Screw conveyors 1- Container levelling out scraper	1989
Generator	Karlskoga Kraft, Sweden	Fly ash discharge system: 1- Rotary vane feeder	1989
Generator	Perstorp AB, Sweden	Bottom ash from FB boiler: 1- Dry ash apron feeder 1- Dry ash chain conveyor	1990
Roxon OY	Tampella, Kaipola, Finland	Bottom ash from FB boiler: 2- Water cooled screw feeders 1- Dry ash chain conveyor	1991

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Outokumpu Eco Energy	Nyköping, Sweden	Ash and sand handling for FB boiler: 2- Water cooled screw feeders 1- Water cooled screw conveyor 1- Chain elevator 1- Drum screen 1- Sand silo 1- Screw feeder 1- Screw conveyor 1- Fly ash silo 1- Rotary valve 1- Reject silo 1- Reject screw feeder 1- Reject humidifying screw mixer	1994
Utansjö Bruk	Utansjö Bruk, Sweden	Bottom ash handling: 1- Bottom ash screw feeder 1- Wet chain conveyor	1994
Saxlund	Norske Skog, Norway	Back pass ash handling: 1 - Water cooled screw feeder	1996
Kvaerner Pulping	Sundsvalls Energi, Sweden	Bottom ash/sand from waste FBC boiler: 2 - Hydraulic slide gates 1 - Water cooled screw feeder 1 - Chain bucket elevator 1 - Drum screen	1996
Roxon OY	Baldovie, Scotland	Ash/sand from waste FB boiler: 6 - Hydraulic slide gates 2 - Water cooled screw feeders 2 - Water cooled screw conveyors 1 - Drag chain conveyor 4 - Chain bucket elevators 2 - Drum screens 2 - Fly/cyklon ash silos with slide frame 12 - Ash rotary valves	1999
Kvaerner Pulping	Sogama, Spain	Bottom ash/sand 2 waste FBC boilers: 14 - Hydraulic slide gates 8 - Water cooled screw feeders 4 - Double flap valves	2000
Fortum,	Joensuu voimalaitos Finland	Bottom ash/sand from FB boiler: 4 - Cooling screw conveyor 6 - Valves and chutes	2000
Kvaerner Pulping	Halmstad Energi Sweden	Bottom ash/sand from FB boiler: 4 - Slide gates 1 - Water cooled chain conveyor	2000
Karlskoga Kraftvärmeverk,	Sweden	Bottom ash from waste boiler: 1 - Submerged Apron Feeder	2000

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Kvaerner Pulping	Sandviken Energi P2	Bottom ash handling from FB boiler: 1 - Hydraulic boiler outlet slide gate 1 - Watercooled bottom ash screw 1 - Hydraulic emergency slide gate 1 - Back pass chute with screw feeder and pneumatic gate	2001
Kvaerner Pulping	Vattenfall Götene Sweden	Bottom ash/sand from FB boiler: 4 – Slide gates 1 – Water cooled chain conveyor	2001
Fortum	Afferde, Germany	Bottom ash/sand from FB boiler: 2 – Water cooled screw feeders 1 – Screw conveyor for container loading	2002
Kvaerner Pulping	Sandviken Energi P1	Bottom ash handling from FB boiler: 1 - Hydraulic boiler outlet slide gate 1 - Watercooled bottom ash screw 1 - Hydraulic emergency slide gate 1 - Back pass chute with screw feeder and pneumatic gate	2002
Kvaerner Pulping	Norrköping P14 Sweden	Bottom ash/sand from waste FB boiler: 6 - Hydraulic slide gates 2 – Water cooled screw feeders 1 – Water cooled by pass screw 1 – Water cooled reject screw 1 – Water cooled back pass screw 1 – Back pass screw conveyor 1 – Rotary valve 1 – Chain elevator 1 – Bottom ash chain conveyor 1 – Bottom ash chain conveyor with container dockings 6 – Bottom ash containers	2002
Surahammar Kommunal Teknik AB, Sweden		Bottom ash from bio-fuel boiler: 1 - Submerged Chain Conveyor	2002

Kvaerner Pulping	Ecoenergia, Corteolona Italy	Bottom ash/sand from waste FB boiler: 2003 2- Hydraulic Slidegates 1- Water cooled bottom ash screw 1- Chain elevator 1- 3-Way Chute 1- Bypass chute 1- Drum screen 1- Returnsand hopper with dosing screw 1 - Water cooled back pass screw 1 - Chruser before Pneumatic transport 1 - Pneumatic-transport 2- Pneumatic Slidegates 1- Hydraulic system for slidegates 1- Bottom-and Backpass-ashsilo 1- Screw feeder with telescopic docking chute 1- Dustcollector with fan
Kvaerner Pulping	T.M.E Gioia Tauro, Calabria Italy	Bottom ash/sand from 2 waste FB boilers: 2005 4- Hydraulic Slidegates 2- Water cooled bottom ash screw 2- Chain elevators 2- 2-Way Chute 2- Bypass chute 2- Drum screens 1- Returnsand hopper with two dosing screws 2- Water cooled back pass screws 2- Rotary-valves 2- Pneumatic Slidegates 1- Hydraulic system for slidegates
Aalborg Energie Technik A/S	BioPower SKW-Germany	Bottom ash from bio-fuel boiler: 2004 1- Submerged Chaincoveyor
Kils Energi, Sweden		Bottom ash from waste FB boiler: 2004 1 - Pneumatic slide gate 1 - Water cooled screw feeder 1 - Screw conveyor 1 - Drum screen
Fortum Energi	Högdalen, Sweden	Dry bottom ash handling: 2004 1 - Chain elevator 1 - Slag silo 2 - Silo discharge screw feeders 2 - Unloading docking chutes

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Kvaerner Power	Vattenfall, Nynäshamn	Ash handling system for FB boiler: 2 - Hydraulic boiler outlet slide gates 1 - Water cooled bottom ash screw 2 - Hydraulic Emergency slide gates 1 - Hydraulic by-pass slide gate 1 - Chain elevator 1 - Drum screen 1 - Pneumatic transport 1 - Collecting cyclon ash screw 1 - Screw conveyor 1 - Reject ash chain conveyor with container docking 1 - Container	2004
Kvaerner Power	Borås Energi, Sweden	Bottom-, back pass-, cyclon-, fly ash handling system for FB boiler: 2 - Hydraulic boiler outlet slide gate 2 - Water cooled bottom as screws 2 - Hydraulic emergency slide gates 2 - Water cooled Screw-Drum screens 1 - Return sand screw convwyor 1 - Chain elevator 1 - Return sand dosing bin 2 - Return sand screw feeders 2 - Water cooled cyclon ash screw feders 1 - Water cooled back pass ash screw 1 - Rotary valve 2 - Back pass/cyclon ash chain conveyors 1 - Reject bottom ash chain conveyor 1 - Reject bottom ash chain conveyor with container dockings 3 - Containers 1 - Fly ash silo 1 - Back pass/cyclon ash silo 2 - Double screw feeders with telescopic docking chutes	2005
Aalborg Energie Technik A/S	Boim FHKW Linz-Mitte Germany	Bottom ash from bio-fuel boiler: 1- Submerged Chainconvoyor	2005
Kvaerner Power	T.M.E Gioia Tauro, Calabria Italy	Bottom ash/sand from 2 waste FB boilers: 4- Hydraulic Slidegates 4- Water cooled bottom ash screw 2- Water cooled collecting screws 2- Chain elevators 2- 2-Way Chute 3- Drum screens 2- Returnsand hopper with dosing screws 2- Water cooled back pass screws 2- Rotary-valves	2007

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Biomasse Italia	Biomasse Italia Strongoli	Bottom ash from boiler: 4- Water cooled bottom ash screw	2007
E-ON, Örebro	Åbyverket, Örebro	Fly ash handling: 1- Silo discharge screw feeders 2- Slide gates 1- Mixer screw	2006
Karlskoga Energi	Karlskoga värmeverk	Fly ash handling: 2- Slide gates 1- Screw conveyor 1- Discharge docking unit	2006
Kvaerner Power	Bio-EL Fredrikstad Norway	Bottom- & back pass-ash handling system for FB boiler: 1 - Hydraulic boiler outlet slide gate 1 - Water cooled bottom as screws 1 - Hydraulic emergency slide gates 1 - Water cooled Screw-Drum screen 1 - Accept sand screw conveyor 1 - Water cooled back pass ash screw 1 - Rotary valve	2007
Tekniska Verken i Linköping		Bottom ash from boiler 1- Submerged Chain conveyor	2006