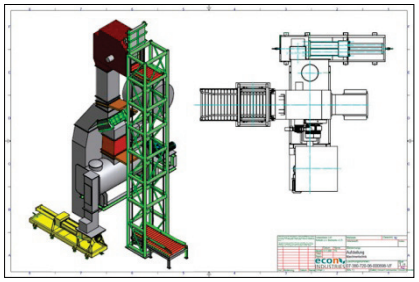
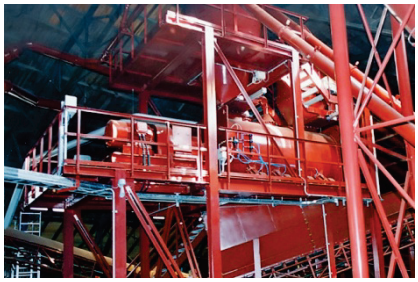
Secondary fuel production

Applications and design

Process:	Fuel preparation for cement kilns and power plants
Source:	Mixed hazardous wastes from various origins with caloric value Hydrocarbon and solvent based sludge, food industry waste Full/empty metal drums and plastic containers Polluted wood/pallets, e.g. with painted surface Plastic packing waste and textiles, contaminated Catalyst and activated carbon, polluted Filters from vehicles, e.g. oil filters
Input Material:	Liquids and sludge with high and low viscosity Non-reusable or packed hazardous waste





Key facts

Waste homogenisation system:	Continuous and batch-wise turbulent mixers up to 30m³ volume
Peripheral equipment:	Receiving area, storage tanks, conveying/sieving/piping, control units
Technical availability:	In excess of 7.000 hours/year; 24 hours/day
Input restrictions:	Shreddable waste, massive concrete/steel parts rejected automatically
Output consistency:	Homogenised waste, free flowing or pumpable, pre-sieved
Throughput capacity design:	Up to 20 t/h, dosing according to incineration parameters possible
Optional process extensions:	Dosing equipment to furnace, nitrogen generation, metal separation
Design options:	To be built close to power plant or in separate fuel production facility

Greatest benefits of the secondary fuel production technology

- Turn key solutions with almost no waste type restrictions due to robust plant design
- Waste homogenisation through single-shaft mixer design to prevent blockages and wear
- Exact adjustment of the caloric value through intelligent dosing and control systems
- Resultant prepared waste can be handled by piping, bulk conveyors, containers, trucks, etc.
- Fully automated operation possible with process control from central control room
- Safe treatment under ATEX conditions by fully encapsuled processing under nitrogen atmosphere
- Equipment designed according to EU work safety and emission standards

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