



14th Edition...

Conference on Alternative Fuel and Raw Materials Usage (AFR)

Prepare for Net-Zero: AFR Material in Cement Manufacturing 23 & 24 October 2024 Courtyard, Raipur

Alternate Solid Fuels (AltSF)

Co-processing

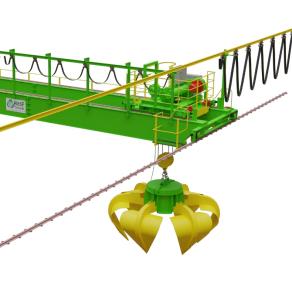
Case Study - Cimpor Souselas

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Project Specifications & Contract



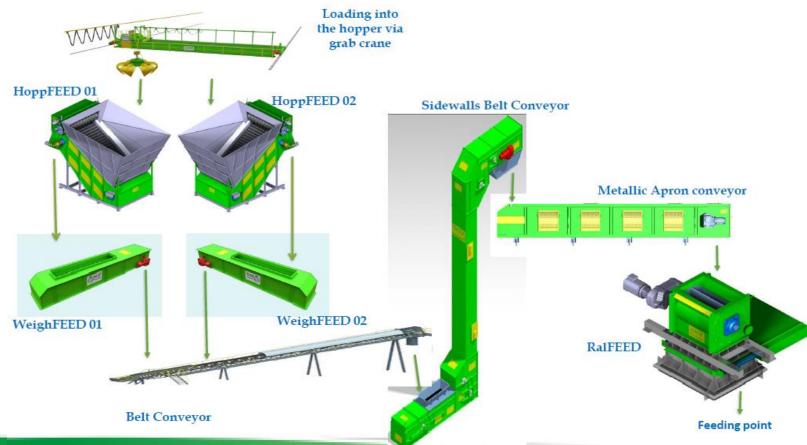
- ★ Purchase order June-2024 & delivery by March-25
- ★ Project for complete fully automated Grab crane, extraction & weighing solution (2x) Belt conveyor, Side walls belt conveyor 1200, Metallic apron conveyor & RalFEED including complete automation.
- ★ Feeding Capacity: 15 tph
- ★ Alternate fuels to be used, but not limited to: Shredded tyre, RDF pellets & Biomass
- \bigstar Density of the material : 0.1 to 0.5 t/m3
- ★ Moisture content: up to 21%
- ★ Weighing accuracy guarantee: 15tph: with maximum 1% error
- ★ Smooth material flow for entire range of alternative fuels



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Project - FLOW SHEET

















Alternate solid fuels - examples

















Cut Tires

Wood chips

Biomass

Fine shredded paper

Plastic waste



Refuse derived fuel (RDF)



Whole tires



Rice husk



Medical scrap containers



FMCG rejects



Pharma/medical waste

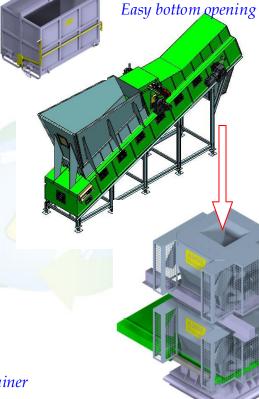
Acceptable range of AltSF for co-processing Grain size < 300mm Density 0.1 to 1 t/m³





AFR Starter kit (< 5 TPH)





Container



DosiFEED

Recommended to install in PHT

CalFEED

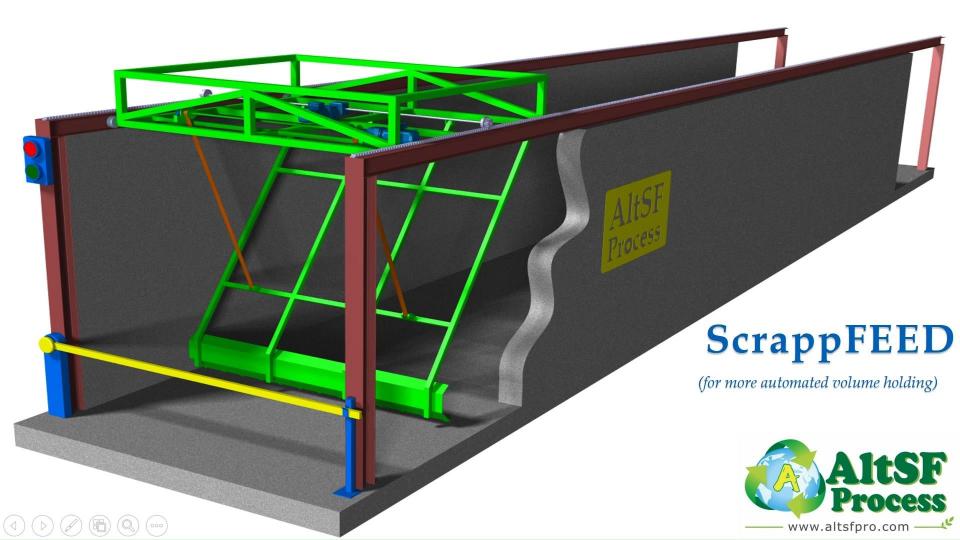
(Double valve with refractory safety gate)

Container (2 m³)

Easy bottom opening, container filling from top







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HoppFEED (for effective extraction)





- ★ Synchronized with the dosing belt to control feeding as required
- ★ Rugged design with high hopper capacity of up to 30 m³
- ★ Accepts material from tippler truck, front loader, garb crane directly. Three point support for apron.
- ★ Regulating drum and regulating foil is provided to ensure uniform output discharge
- ★ Feeding capacity of up to 400 m³/h
- ★ Radar sensor, jamming sensor, position sensors, zero speed switch provides it necessary process control along with Siemens standards PLC system

HoppFEED XL (for effective extraction with high volume storage) Process



- ★ Synchronized with the dosing belt to control feeding as required
- ★ Rugged design with high hopper capacity of up to 150 m³
- ★ Accepts material from tippler truck, front loader, garb crane directly.
- ★ Regulating drum and regulating foil is provided to ensure uniform output discharge
- ★ Feeding capacity of up to 200 m³/h
- ★ Hydraulic as well as chain apron moving floor

WeighFEED weighing tests for each dispatch



- ★ 100% assembly set up for each dispatch
- ★ Panel connection with equipment
- ★ All software's upload & tests with equipment
- ★ Error free, speedy installation on site



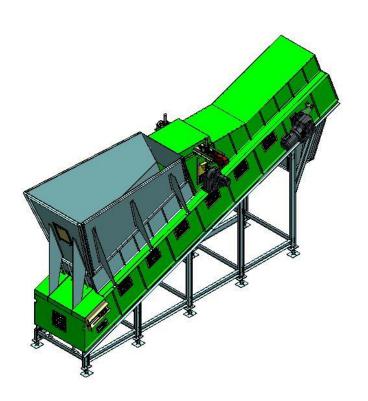




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DosiFEED (for compact extraction & dosing)





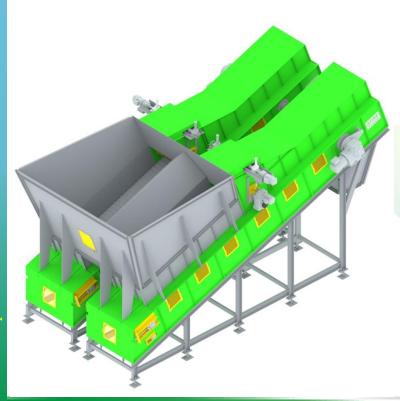
- ★ Compact design with hopper & dosing arrangement
- ★ Rugged design hopper capacity of 7 m³
- ★ Regulating drum and regulating foil is provided to ensure uniform output discharge.
- ★ Special weighing bridge designed for accurate weighing & dosing based on core siemens support.
- ★ Feeding capacity of up to 300 m³/h
- ★ Complete automation with process sensors and PLC for efficient & safe control

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Double DosiFEED

AltSF Process www.altsfpro.com

(for compact extraction & dosing into two lines)



- ★ Compact design with hopper & dosing arrangement for two lines
- ★ Rugged design hopper capacity of 15 m³
- ★ Regulating drum and regulating foil is provided to ensure uniform output discharge in each line.
- ★ Common hopper with uniform distribution by Radar sensor hopper level measurement.
- ★ Feeding capacity of up to 300 m³/h in each line
- ★ Complete automation with process sensors and PLC for efficient & safe control

AbcFEED: Air supported Belt Conveyor

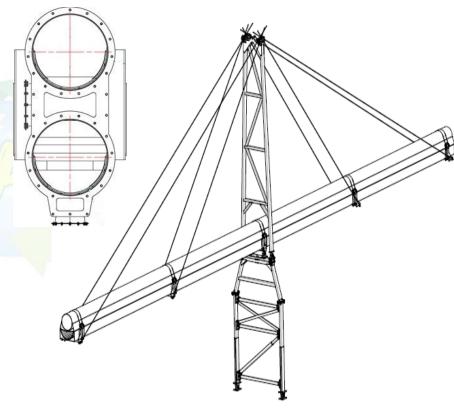




Two standard pipe structure for higher speed of 2.5 m/s

Blower arrangement for belt lifting





Long distance support up to 50m

Side Walls Belt Conveyor

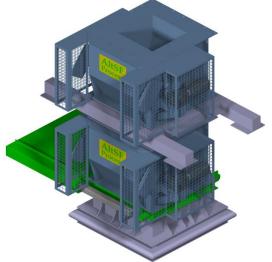


CalFEED



(Double valve airlock with pneumatic refractory safety shut off gate)





- ★ Compact and accommodative design for material of higher particle size and moisture content
- ★ Spring action technology to avoid system tripping or motor overload at minor blockages
- ★ Electrically operated system with minimal cycle time
- ★ Unique cam arrangement for quick flap closing and shuddering action to ensure self cleaning of flaps.
- ★ Safe operation with high grade steel and safety gate for isolation of the system
- ★ Internal refractory lining for safeguarding against up to 1400 degree temp.
- ★ Safety gate provided with refractory as well as air receiver tank and panel, for quick action even in case of plant air is not available



CalFEED

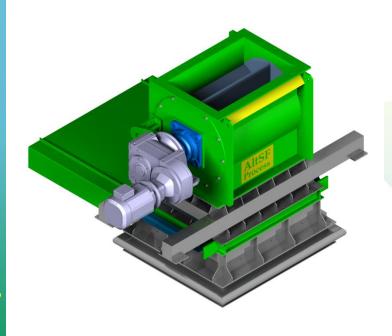
(Alternate fuels feeding double valve & safety gate)

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RalFEED

AltSF Process www.altsfpro.com

(Rotary valve airlock with pneumatic safety gate)



- ★ Handling capacity of 400 m³/hr (up to 60 tph)
- ★ Continuous and smooth feeding of material to the calciner
- ★ Equipped with counter knives for cutting through long ribbon type material
- ★ Compact and accommodative design for feeding at higher capacity
- ★ Safe operation with high grade steel and safety shut-off gate for isolation of system
- ★ High torque rotor for cutting force







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Training & Services















References



















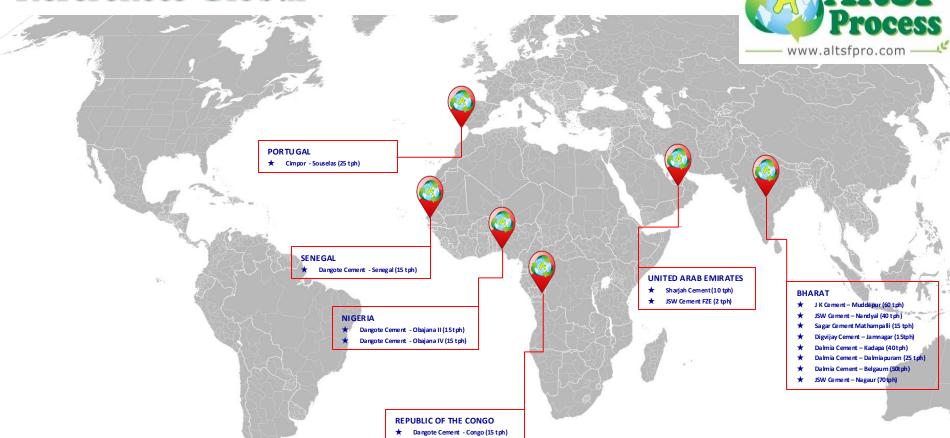


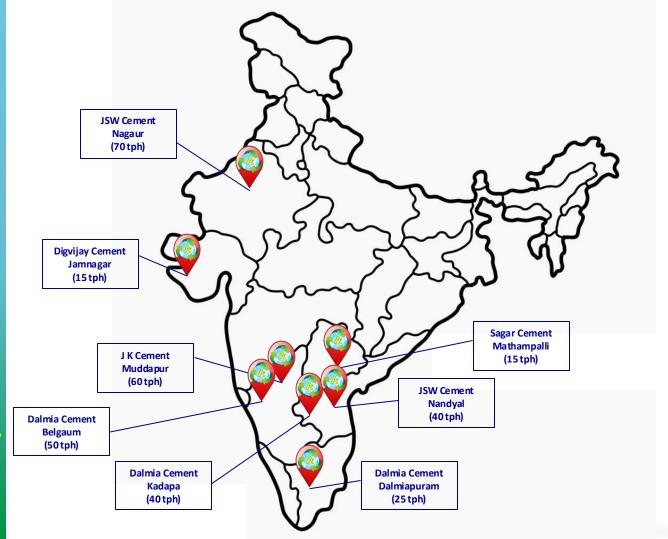






References Global







References in India

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Thank you







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