

**TYRANNOSAURUS® WASTE-TO-FUEL SYSTEMS**

Customer / Country	Equipment	Material	Capacity	Year of delivery
Sinoma / Beijing Building Material Group (BBMG) Handan City China	MSW Pre-treatment system + TYRANNOSAURUS® SRF production line	MSW	500 tpd; <70 mm	2016
General Environmental Conservation Public Company Ltd. (GENCO), Rayong, Thailand	TYRANNOSAURUS® 9905 Shredder, metal separation	Industrial Waste	30 t/h; <90 mm	2016
Hangzhou Jinjiang Group, Xiaoshan Waste Incineration Plant, China	2 x TYRANNOSAURUS® SRF production line.	MSW	50 t/h	2016
Hangzhou Jinjiang Group, Hankou Waste Incineration Plant, China	2 x TYRANNOSAURUS® SRF production line.	MSW	50 t/h	2016

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POSCO Engineering & Construction Co., Ltd, Pohang, South-Korea	TYRANNOSAURUS® SRF production line.	MSW	25-45 t/h	2016
Fortum Zabrze S.A., Zabrze, Poland	Separate RDF and coal handling lines: Receiving stations, automatic sampling systems, screening, crushing, metal separation, storages and conveyors.	RDF and coal	RDF handling system: Receiving 2 x 350 m <sup>3</sup> /h Screening 700 m <sup>3</sup> /h RDF storage silo 7500 m <sup>3</sup> Feeding to day silos 50-350 m <sup>3</sup> /h  Coal handling system: Train unloading 500 m <sup>3</sup> /h Intermediate storage 3000 m <sup>3</sup> Receiving 150 m <sup>3</sup> /h Coal screening 150 m <sup>3</sup> /h Conveyors 150 m <sup>3</sup> /h	2018

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Salonit Anhovo, Deskle, Slovenia	RDF handling system, including receiving, conveying, storages and feeding to the cement kiln.	RDF and rubber chips	Receiving: 350 m <sup>3</sup> /h Conveyors: 350 m <sup>3</sup> /h Storage silos 2 x 1590 m <sup>3</sup> Feeding 200 m <sup>3</sup> /h	2016
POSCO Engineering & Construction Co., Ltd, Gwang Ju City Mechanical Pre-treatment Plant, Gwang Ju, South-Korea	2 x TYRANNOSAURUS® T9904 SRF-production lines.	Municipal solid waste	2 x 15-35 t/h	2015
Kualiti Alam Sdn Bhd, Bukit Pelandok, Malaysia	TYRANNOSAURUS® T2408 Feeder, TYRANNOSAURUS® T7703 Shredder	Industrial Waste	10-15 t/h	2014

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Hangzhou Jinjiang Group Co., LTD, Wuchan Waste Incineration Power Plant, China	TYRANNOSAURUS® 2412 Feeder TYRANNOSAURUS® T8805 Shredder+ discharge conveyor & magnet	Municipal solid waste	50 t/h; particle size <200 mm	2014
Rauman Biovoima Oy, Rauma, Finland	TYRANNOSAURUS® 9905 Waste handling system	Demolition wood, industrial waste, commercial waste and household energy waste	25-50 t/h	2014
Västervik Miljö & Energi AB Västervik, Sweden	TYRANNOSAURUS® 3212 Feeder, TYRANNOSAURUS® 9905 Shredder + discharge conveyor & magnet	Industrial & commercial waste Municipal solid waste	25 - 35 t/h 30 - 50 t/h	2013
SCleco Services Co., Ltd. (subsidiary of Siam Cement Group) Saraburi, Thailand	TYRANNOSAURUS® 1200/2 Air-classifier, Fines Screen, TYRANNOSAURUS® 1204 Fine Shredder + conveyors	Municipal solid waste Industrial waste	20 ton/h	2013

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Ambuja Cements Ltd. Ambuja Nagar, India	TYRANNOSAURUS® 2412 Feeder TYRANNOSAURUS® 7703 Shredder + discharge conveyor	Industrial waste	15 ton/h	2013
Mälarenergi AB Västerås, Sweden	3 x TYRANNOSAURUS® 9905 SRF production lines. SRF storage, dosing and feeding system to the power boiler.	Municipal solid waste Industrial waste	3 x 30 ton/h	2014
Renascimento Gestão e Reciclagem de Resíduos, Lda Loures, Portugal	TYRANNOSAURUS® 2412 Feeder TYRANNOSAURUS® 9903 Shredder TYRANNOSAURUS® 1501 Fines Screen	Industrial waste	5 t/h – 30 mm 15 t/h – 80 mm	2012
IL&FS Environmental Infrastructure & Services Ltd. Delhi, India	2 x TYRANNOSAURUS® 9904 Shredder	Municipal solid waste	30 – 40 ton/h	2011

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Cimpor Tec S.A. / Souselas, Portugal	External fuel handling Receiving, screening, storage, pre-calciner and main burner feeding conveyors.	Alternative fuels	Receiving 300 m <sup>3</sup> /h Screening 50 m <sup>3</sup> /h Silos 3 x 1500 m <sup>3</sup> Feeding conveyor 10 t/h Pneumatic conveyor 5 t/h	2011
Päijät-Hämeen Jätehuolto Oy Lahti, Finland	TYRANNOSAURUS® 2406 Feeder TYRANNOSAURUS® 7703 Shredder + Metal Separation (Eddy Current and magnet)	Industrial & commercial waste Energy waste separated from municipal solid waste	10 t/h	2011
	BIOSAURUS® 2x900x3200 Crusher + Metal Separation (Eddy Current and magnet)	Demolition waste Waste wood	15 t/h	
DEREWALL, Vanheede Environment Group Dottignies, Belgium	TYRANNOSAURUS® 3218 Feeder TYRANNOSAURUS® 9905 Shredder	Industrial & commercial waste Municipal solid waste	25 - 50 t/h	2011

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UAB Fortum Klaipeda Klaipeda, Lithuania	TYRANNOSAURUS® 3212 Feeder TYRANNOSAURUS® 6605 Preshredder & discharge step pusher.	Industrial & commercial waste Demolition waste Municipal solid waste	40 t/h	2012
Visy Paper Pty Ltd. Campbellfield, Australia	TYRANNOSAURUS® 3224 Feeder, TYRANNOSAURUS® 9904 Shredder & discharge chain conveyor.	Baled and unbaled pulper rejects	25 t/h	2010
Lahti Energia Oy KYVO2 / Kymijärvi Power Plant Lahti, Finland	External fuel handling. Receiving, screening, storage and feeding conveyor to boiler silo.	Bio solid fuel and SRF	Receiving 2 x 600 m <sup>3</sup> /h Silos 2 x 7500 m <sup>3</sup> Feeding conveyor 40 – 400 m <sup>3</sup> /h (max. 800 m <sup>3</sup> /h)	2012
ESTRE Ambiental S/A Aracaju, Brazil	TYRANNOSAURUS Pretreatment plant integrated with TYRANNOSAURUS® 7703 SRF (RDF) production plant.	Industrial and commercial waste, MSW	20 – 40 t/h	2010

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SCleco Services Co., Ltd. (subsidiary of Siam Cement Group) Saraburi, Thailand	TYRANNOSAURUS® 9903 shredding plant. Electrification and automation.	Used car tyres, batches of industrial and commercial waste, MSW	10 – 15 t/h (tyres) 20 – 25 t/h (MSW, I&C waste)	2010
TPI Polene Power Saraburi, Thailand	Two TYRANNOSAURUS Pre-treatment plants integrated with two TYRANNOSAURUS® 9905 SRF (RDF) production plants. Fuel storing, dosing and feeding system to precalciner. Electrification and automation.	Mainly MSW. Small portions of industrial and commercial waste as well as old landfill.	70 t/h per line (MSW input) 20 t/h per each feeding line to pre-calciner	2010
ESTRE Ambiental S/A São Paulo, Brazil	TYRANNOSAURUS Pretreatment plant integrated with TYRANNOSAURUS® 9905 SRF (RDF) production plant.	Industrial and commercial waste, MSW	30 – 50 t/h	2010



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Euro.Com S.A.S / Geo Nova S.p.A Treviso, Italy	TYRANNOSAURUS® 9904 shredder and conveyor including electrification and automation.	Industrial and commercial waste as well as waste from household waste handling plants	18 – 25 t/h	2009
CORIONI Srl. Monza, Italy	TYRANNOSAURUS® 9904 shredder, conveyors and separator equipment. Electrification and automation.	Industrial and commercial waste	20 – 35 t/h	2009
Stora Enso Langerbrugge NV. Gent, Belgium	External fuel handling. Receivings, screening, silo storages and feeding to boiler	Bio solid fuel (waste wood), RDF/PDF, coal	Receivings 2 x 500 m <sup>3</sup> /h Screening 500 m <sup>3</sup> /h Silos 3 x 4000 m <sup>3</sup> Boiler feeding 350 m <sup>3</sup> /m	2009

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Stora Enso Publication Papers Oy Ltd, Anjalankoski, Finland	External fuel handling and feeding to boiler	PDF, bio solid fuel	Line from receiving to silo 300 m <sup>3</sup> /h Silo 390 m <sup>3</sup> Boiler feeding 200 m <sup>3</sup> /h	2008
Müllverwertungs- und Mülldeponiebetriebs GmbH Ort im Innkreis, Austria	TYRANNOSAURUS® 9904 shredder for recycled fuel preparation	Industrial and commercial waste, tyres	15 – 25 t/h	2008
Sita Starol Ltd. Chorzów, Poland	Waste receiving, TYRANNOSAURUS® 9905 and 1205 shredders, conveyors and separator equipment, incl. TORNADO® air classifier. Electrification and automation.	Commercial, industrial and household waste	16 – 40 t/h	2008

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Lassila & Tikanoja Oyj Turku, Finland	TYRANNOSAURUS® 1205 shredder with conveyors including electrification and automation.	Industrial & commercial waste Demolition waste Municipal solid waste	15 – 20 t/h	2007
Credential Environmental Ltd. Newton Aycliffe, United Kingdom	Tyres receiving, shredding (TYRANNOSAURUS® 9905T), conveyor and magnets, including electrification and automation.	Tyres	20 – 30 t/h	2007
Langezaal B.V. Haaksbergen, The Netherlands	TYRANNOSAURUS® 9904 and 1205 shredders, conveyors and separator equipment, incl. TORNADO® air classifier. Electrification and automation.	Industrial and commercial waste	15 – 35 t/h	2007

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Ecoenergy S.R.L Castiglione, Italy	TYRANNOSAURUS® 9904 shredder, removal conveyor and magnet for recycled fuel preparation	Industrial and commercial waste	20 – 30 t/h	2006
Sorain Cecchini Ambiente S.C.A. Consorzio Laziale Rifiuti Roma, Italy	TYRANNOSAURUS® 9904 shredder for recycled fuel preparation	Municipal solid waste	30 – 40 t/h	2006
Sorain Cecchini Ambiente S.C.A. Consorzio Laziale Rifiuti Roma, Italy	TYRANNOSAURUS® 9904 shredder for recycled fuel preparation	Municipal solid waste	30 – 40 t/h	2006
Sorain Cecchini Ambiente S.C.A. Consorzio Laziale Rifiuti Roma, Italy	TYRANNOSAURUS® 9904 shredder for recycled fuel preparation	Municipal solid waste	30 – 40 t/h	2006

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Lassila & Tikanoja Oyj Turku, Finland	Demolition waste screening, recycled fuel receiving, shredding (TYRANNOSAURUS® 9905) and separator equipment, incl. air classifier. Electrification and automation.	Industrial & commercial waste Demolition waste Municipal solid waste	25 t/h	2005
Stora Enso Publication Papers Oy Ltd Anjalankoski, Finland	Recycled fuel receiving, shredding (TYRANNOSAURUS® 9904), storage, including electrification and automation and handling to boiler.	Industrial and commercial waste	Crushing 10 – 15 t/h Silo 390 m <sup>3</sup> Power plant 80 m <sup>3</sup> /h	2005
Castiglione Rifiuti S.R.L. Castiglione, Italy	TYRANNOSAURUS® 9904 shredder, removal conveyor and magnet for recycled fuel preparation	Industrial and commercial waste	15 – 20 t/h	2004

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CO.LA.RI Consorzio Laziale Rifiuti Roma, Italy	TYRANNOSAURUS® 9904 shredder for recycled fuel preparation	Municipal solid waste	30 – 40 t/h	2004
Teollisuuden Voima Oy Nuclear Power Station Olkiluoto, Finland	TYRANNOSAURUS® 9902 shredder, with feeding system to minimize the storage volume	Low-radioactive materials; sheet metals, plastics, textiles, waste wood	appr. 5 t/h	2004
Smålands Miljö AB Vaggeryd, Sweden	TYRANNOSAURUS® 9904 shredder, shredding station including feeding hopper, step feeder, belt conveyors and magnet for recycled fuel preparation	Industrial and commercial waste, municipal solid waste	15 – 20 t/h	2004
Ewapower AB Oy Pietarsaari, Finland	Recycling waste handling, including chain feeder with hopper and belt conveyors	Industrial and commercial waste	15 t/h	2003

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Lassila & Tikanoja Oyj Kerava, Finland	TYRANNOSAURUS® 9904 shredder, shredding station including feeding hopper, belt conveyors and chain conveyor for recycled fuel preparation	Industrial and commercial waste	15 – 20 t/h	2003
Stockholm Energi AB Högdalen, Sweden	Receiving, crushing, screening, storage and transport to boiler	REF, bark, waste wood	600 m <sup>3</sup> /h receiving 80 m <sup>3</sup> /h crushing 200 m <sup>3</sup> /h to boiler Storage silos 2 x 4000 m <sup>3</sup>	2000
Foster Wheeler Oy/ Stockholm Energi AB, Sweden	Boiler feeding system and ash handling system	REF, bark, waste wood Bottom ash	Fuel 150 m <sup>3</sup> /h Ash 3 t/h	1999
Söderenergi AB Södertälje, Sweden	Fuel crushing (ECO), storing silo and conveyors to boiler	REF, REF making, pellet	REF 2 x 100 m <sup>3</sup> /h Silo 27 m / 8500 m <sup>3</sup>	1997