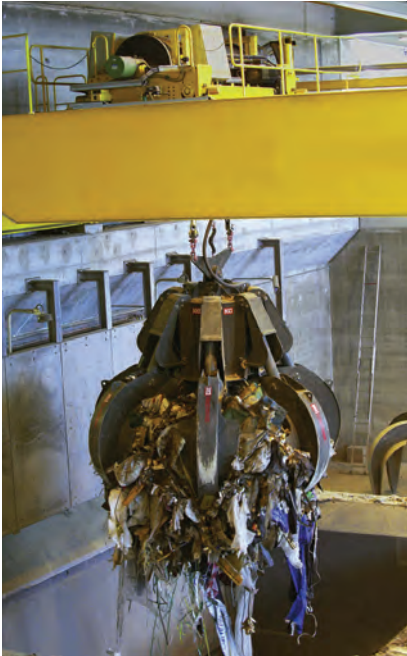


Your Global Source for WTE Crane Technology.



Safety. Reliability. Productivity.

All prime concerns for WTE operators using bucket cranes to move waste. Add minimal time available for weekly maintenance and infrequent outages for major repairs, and you have a real challenge for operators who need to keep their lifting equipment running.

Konecranes' WTE crane technology is designed to meet this challenge head-on.

Important components like hoisting trolleys, drives and buckets are engineered to reduce maintenance requirements. More than 10 years ago Konecranes introduced an integrated rope / cable drum. The vertical power cable for the bucket is wound onto the rope drum and is driven by the hoisting machinery. With this unique solution savings in maintenance costs are substantial.

Our proprietary DynA Load Control Technologies manage critical crane functions to reduce structural stress, increase efficiency and prolong

equipment life. DynAPilot load sway control minimizes load sway from bridge and trolley motions, reducing collisions between the bucket and the pit walls or hopper and preventing equipment damage. Sway control increases operator confidence, reduces training time and allows operation of the crane to its full potential.

Automation in waste handling reduces operator fatigue and decreases the risk of crane failure. It also helps in load positioning and collision avoidance. Unmanned, fully automated cranes can reduce direct operational costs. The most advanced plant layouts allow crane operation from a central control room.

This is just the tip of the iceberg when it comes to cutting-edge design features that ensure safety, reliability and productivity. There's a lot to know about Konecranes WTE crane technology.

Visit with us to learn more at:
www.konecranesamericas.com

KONECRANES®
Lifting Businesses™



WASTE-TO-ENERGY CRANES BY KONECRANES

Konecranes has provided more than 250 WTE cranes for projects in seventeen countries.

Selected references are shown below.

Year	Customer	Country	Qty.	Capacity	Application	Automation
2008	Wujiang PW PP	China	2	12 MT	Refuse	Full Automation
2008	Suzhou EBEP	China	2	12 MT	Refuse	Semi Automation
2008	Visser & Smit Bouw B.V.	Netherlands	2	9.5 MT	Refuse	Full Automation
2007	Changzhou / BGSGC	China	2	9.5 MT	Refuse	Semi Automation
2007	Zhangjiagang GS-WTE Co., Ltd.	China	2	9.5 MT	Refuse	Semi Automation
2007	Zhongshan Tianyi Energy Co., Ltd.	China	2	12 MT	Refuse	Semi Automation
2007	Kotkan Energia Oy	Finland	1	7.5 MT	Refuse	Full Automation
2007	Ekokem Oy, Riihimäki	Finland	2	9.5 MT	Refuse	Full Automation
2007	KAB Takuma GmbH Lakeside	Germany	2	15 MT	Refuse	Full Automation
2007	Frevar KF	Norway	2	14.5 MT	Refuse	Full Automation
2007	Von Roll/Sita Northumberland Ltd.	UK	1	8.0 MT	Refuse	Full Automation
2006	RSW / Ville de Quebec	Canada	2	10 MT	Refuse	Full Automation
2006	TAS	Denmark	2	8.5 MT	Refuse	Semi Automation
2006	CNIM	France	2	7.0 MT	Refuse	Semi Automation
2006	Bourgoin Jailleu	France	2	7.0 MT	Refuse	Semi Automation
2005	Lurgi Benelux N.V.	Belgium	3	11 MT	Refuse	Semi Automation
2005	Kiruna	Sweden	1	10 MT	Refuse	Semi Automation
2005	Korstaverkets Forvaltning AB	Sweden	2	12 MT	Refuse	Semi Automation
2004	Guangzhou Likeng	China	2	11 MT	Refuse	Full Automation
2004	Von Roll, Vattenkraft, Uppsala	Sweden	2	11 MT	Refuse	Full Automation
2004	Shanghai Pudong Eng., Changshu	China	2	8.0 MT	Refuse	Full Automation
2004	CNIM Portsmouth	UK	2	6.0 MT	Refuse	Full Automation
2004	AB Fortum Värme, Högdalen	Sweden	2	13 MT	Refuse	Full Automation
2003	CNIM Marchwood	UK	2	18.3 MT	Refuse	Full Automation
2002	Esbjerg Kraftvarmeværk	Denmark	2	9 MT	Refuse	Full Automation
2002	Arhus Nord	Denmark	2	7.5 MT	Refuse	Full Automation

Konecranes' approach to minimizing downtime is to include features that reduce the need for maintenance, and to engineer cranes to be easier and faster to maintain during planned outages.

Here are only a few of the many maintenance reducing features Konecranes includes in its WTE cranes:

Maintenance Reducing Software:

- DynAPilot Sway Control
- DynAMonitor Maintenance Monitoring
- CMS Crane Monitoring System
- RemoteExpert Remote Monitoring
- Semi-Automation
- Siemens S7 PLC Platform
- 3-Shift Full Automation
- Perimeter Management System

Maintenance Reducing Electrical Features:

- Remote Control House
- AFE Network Braking
- Squirrel Cage, Inverter Duty Motors
- Ergonomic, Full-Featured Operator's Chair and Console
- Integrated Drum-Mounted Power Cable

Maintenance Reducing Mechanical Features:

- High Quality AGMA 11 Gearing
- Grouped Lubrication Fittings
- Load Cells Integrated on Hoisting Machinery
- Platform Maintenance Access
- Purpose-built WTE Trolley

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