

Canning News

Canning Conveyor Co. Ltd., founded in September 1965 as a family owned company, is a leading name in the supply of bulk materials handling plant and equipment. The company offer and stock a vast range of products including conveyor belting (including the Cannoflex range), rollers, drums and all ancillary items, providing a range of equipment and service that's second to none.

Canning Conveyor provides a full turnkey service for the design, manufacture, installation and commissioning of conveyors and bulk materials handling equipment.

With over 40 year of experience, the company serves a diverse range of industries, from mining, quarrying, waste and recycling, mechanical and civil engineering.

Our policy is simple - provide our customers with the highest standards of equipment and service at the best possible price. New products include high density polymer rollers, suspended idler sets and return idlers, and belt tracking discs. New ranges of Canning intermediate ground conveyor sections and the new Canning SuperDrive range of overland conveyor systems including jib, loop and tail units.



**WASTE AND RECYCLING
INDUSTRIES**

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Home of the SuperDrive™

Efficient Conveyor Systems for the

CANNING AND THE CIVIC MUNICIPAL SOLID WASTE AEROBIC DIGESTER.

Based at Thornley, County Durham, the new Civic Municipal Solid Waste Aerobic Digester aims to transform household rubbish that would otherwise go directly to landfill, into useable compost and separate out recyclable bi-products, such as aluminium, steel and glass. Funded by County Durham Environmental Trust (CDENT), the research and development initiative, this is one of the largest awards under the landfill tax credits scheme receiving funding of £1066 million. It represents a major response to the governments challenge to increase the allocation of funds under the scheme to sustainable waste management projects. The £1.5 million + plant is owned by the County Durham Aerobic Digester Company Ltd (CDAD), a subsidiary of the County Durham Environmental Trust. It has been constructed by CPS Civic Ltd of Sheffield and is operated under contract to CDAD by Premier Waste Management Ltd. Canning Conveyor Co Ltd won the contract to supply all the conveyor equipment for the plant, valued at £150,000, which was awarded by CPS Civic Ltd. Canning Conveyor were responsible for undertaking the full design, manufacture and installation of the conveyors for the transportation of both shredded-raw, and digested municipal solid waste (MSW) within the system.

SECOND PHASE OF THORNLEY DIGESTER.

Constructed by Civic Environmental Systems Ltd (CES) of Sheffield and operated under contract by CDAD by Premier Waste Management Ltd (Premier). The second phase of the development was funded by Premier. Canning Conveyor Co Ltd who originally supplied the complete conveyor equipment for the original plant, were again awarded the contract for the supply of the second phase conveying equipment by Civic Environmental Systems Ltd. Canning Conveyor were responsible for undertaking the full design, manufacture and installation of the conveyors for the transportation of both shredded raw, and digested municipal solid waste (MSW) within the second phase of the system.



STOP PRESS - Canning win new contract for extension at civic Municipal Waste Aerobic Digester-Thornley. Having previously completed two of the original phases of the Civic Municipal Waste Aerobic Digester at Thornley, Canning Conveyor have just been awarded the contract for the third phase from the main contractor Civic Environmental Systems Ltd of Sheffield.

Due to the proven reliability and performance of the plant the third phase of the project will include an additional digester tower and supporting feed conveyors and will effectively increase the output of the plant by 40%. Canning Conveyor will supply two conveyors - a new reversible conveyor to replace an existing conveyor C2 which will be skirted and fitted with oil-resistant cross-stabilized belting. A second shorter flat bed transfer conveyor will be of RSC frame construction with RSA cross bracings and RSC supports to incline conveyor to the required discharge height. Fitted with nitrile belting and complete with skirts this conveyor will receive discharge from conveyor C2 and deliver directly into the loading hatch on top of new tower T3. The belt on this conveyor will be supported on flat faced rollers top and bottom with idlers closer pitched at the loading point with side plates to contain the discharge from conveyor C2. Driven by a 7.5kW motorized drum at the discharge end this conveyor will be capable of re-use if it is extended to cater for a 4th tower. To complete the project Canning Conveyor will supply a full set of skirts and guards which will be fitted to the existing floor mounted conveyor to contain the load when a second feed area is introduced. All design; manufacture, installation and commissioning will be carried out by Canning Conveyor.



STOP PRESS – NEW CIVIC PROJECT INCLUDES RETROFIT OF NEW SuperDrive™ DRUMS!



Specified for phase 3 of the Municipal Waste Aerobic Digester at Thornley this includes 3 - 7.5kW 2000mm wide x 320mm dia SuperDrive™ lagged drums rated at 1m/sec, with synthetic oil, and one Rulmeca non-drive tail drum 2000mm.

CANNING PROVIDE NEW LOADING SYSTEM FOR SIMS.



In a recent project for the recycling industry, Canning Conveyor has just recently completed a project for Sims Metals.

Sims Metal UK is the country's second largest recycler of ferrous and non-ferrous metals with sales over 2,000,000 tonnes annually. Its national collection infrastructure and processing network offers a total solution for the waste sector, industry and the public community.

Its satellite network of collection and transfer facilities channel scrap metal flows into several world class multi-process hub facilities, strategically located for domestic steel and foundry customers or on dockside facilities, allowing access to near Continental markets as well as deep sea destinations.

The three main recycling processes undertaken by Sims Metal UK are shredding, baling and shearing. Sims Metal UK's five shredders produce approximately 1,000,000 tonnes annually of high quality shredded furnace feed from end of life products, primarily consisting of End of Life Vehicles and Consumer Goods. Its baling operations produce high quality, low residual bundles from new industrial scrap. Its multiple hydraulic shearing capacities produces cut grades from obsolete scrap for the steel and foundry industry.

At the Sims Metal, Long Marston, Stratford on Avon site non ferrous residue is delivered from all the group shredders for dispatch to overseas destinations.

Canning Conveyor were invited to replace an existing arrangement and provide a loading system that would cater for the different size shipping containers that would be utilised for the transportation of the material.

Canning supplied a new 1200mm wide x 11m approximate drum centres, heavy duty troughed belt loading conveyor. Due to the nature of the application this was constructed of extra heavy duty PFC stringer construction which was designed to accept scrap metal fragments fed onto the conveyor from a hopper/vibrating tray feeder unit.

The conveyor is supported by a fabricated steel tower in the mid section, braced and stiffened and houses the bend drums and the drive drum. The tower is fitted with telescopic legs and two 15 tonne hydraulic rams for the purpose of lifting and lowering the conveyor by 300mm from its maximum to minimum elevations, thus enabling the interface between the different container sizes.

Additionally at the tail end of the conveyor there is a pin connection to ground level to facilitate the hinge mechanism. In the operation the discharge is directly fed into the rear of a shipping container which is position on a flat bed articulated truck.

The conveyor project was designed and manufactured by Canning who also installed and commissioned the project.

Mick Court of Sims Metals commented "Since replacing the old loading conveyor with the new design, it has enabled us to halve our loading time per container. This has increased the number of containers we load per day.

The new design is more reliable and having the option to raise and lower the head drum has removed the height restrictions which caused damage and downtime.



The Waste and Recycling Industries

GROSVENOR WASTE CHOOSES CANNING CONVEYOR SYSTEM.

Grosvenor Waste has recently confirmed that Canning Conveyor will be the supplier of conveyors for their Materials Recovery Facility (MRF) at their Century Wharf site at Crayford in Kent.

The project calls for the supply of two troughed belt conveyors designed to integrate the existing production lines with the unique, new 25,000 tonnes per annum plastic and can sorting plant by transporting the sorted cans and plastics from the MRF into the plastics autosort feed hopper. Both conveyors are manufactured with heavy duty lattice frames with full walkway on one side.

The paper line conveyor system calls for seven new conveyors and includes modifications to three existing quality assurance conveyors. The conveyors to be supplied include a short collecting conveyor, elevating conveyor, overhead conveyor and four feed conveyors.

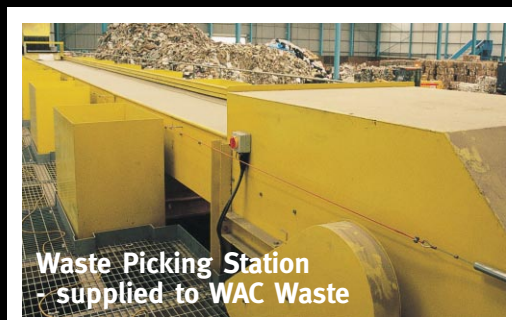
Canning Conveyor will be responsible for the design, detail, manufacture and supply of all the conveyors and will commission the systems on site.

SECOND CONTRACT AWARD

Grosvenor Waste has also awarded a second project to Canning's for the supply of two quality assurance stations and eight associated conveyors for their new MRF production line on the Crayford site.

Receiving feed from an existing trommel screen Canning is to supply three transfer conveyors and a screen feed conveyor. This latter conveyor will feed onto a new double deck screen that Grosvenor will install; oversize material will then feed onto an oversize conveyor and a quality assurance conveyor. The two new quality assurance stations will be supplied complete with structures to carry the new conveyors and will include picking chutes, floors, stairs and full handrailing.

Canning will be responsible for delivery, installation, belt fitting, vulcanizing and commissioning on site in early 2007.



Waste Picking Station supplied to WAC Waste

Modular Plant Pays Dividends for Hopkinson Waste Management.



Hopkinson Waste Management currently operates a MRF at their Slittingmill site at Staveley in Derbyshire. Incoming waste is a mixed feed and includes waste mattresses, demolition rubble and general skip waste. The original waste sorting plant was designed, manufactured and installed in 1996 by Canning Conveyor of Worksop, Notts.

The plant included a feed hopper which provides the primary feed onto an 1800mm wide sorting conveyor; partially inclined at the feed end, a horizontal section forwards material into a 10 bay picking station. With five bays either side of the picking belt this has provided HWM the capacity to sort paper, cardboard, aggregates, wood, plastic and metals. Any wastes discharged off this sorting conveyor are fines and dirt which are further processed through a screen.

With original design input from David Hopkinson the conveyor was manufactured in five metre modular sections which would then allow HWM to extend the system at a later date. The original concept paid dividends as eight years after commissioning and constant use the hopper and the first part of the inclined section wore out and the belt needed replacement.

Canning Conveyor was then awarded the order to manufacture a replacement hopper, feed sections and a heavy-duty conveyor belt, supplying CannoFlex EP800/5 with 6+2 covers. Keeping downtime to a minimum Canning installed all of them within ten days.

David Hopkinson- Director, commented, "I am very pleased with the modular concept. Our sorting plant has processed approximately 500,000 tonnes of waste before having the bottom section refurbished and we have now also fully enclosed this system within a building."

Recently Canning Conveyor has supplied further conveyors as add-ons to the system to allow HWM to process aggregates and other wood.

David Hopkinson, further commented, "This sorting plant at the time of commissioning was probably the largest one in the country. Due to current demands we have definite plans for extending the current system and there is also the possibility that we shall install a second waste system, I have been very pleased with the professional, prompt and efficient service of Canning Conveyor."

IF YOU HAVE A BELT CLEANING PROBLEM ?



Canning Conveyors can help. The Rockline® range of belt cleaners from Flexco combines simple, do-it-yourself installation, quick maintenance and effective cleaning results with a price tag that you can afford.

BELT CLEANER PROMOTION

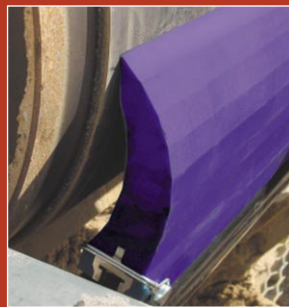
Get a free site survey, follow-up visit, and much more with our belt cleaner promotion! Canning Conveyor are offering a full site service on belt cleaners, which include:

- Free site survey to recommend right type of scraper for application/product, followed with quote for scraper & installation.
- Free after sale follow up visit
- Ask about our 30-day trial Belt Cleaner scheme.
- Flexible maintenance contracts on monthly, 6 or 8 week basis.
- Full range of belt cleaners available - extensive stocks for quick delivery



ROCKLINE® BELT CLEANERS

ELIMINATE PROBLEMS AT A WASTE RECYCLING PLANT.



Flexco has recently solved a big problem at a London waste recycling plant where waste conveyors had constantly experienced considerable material carry back. The existence of carry back had created problems for the company as this caused considerable mess in the buildings which required regular clean-up maintenance. To make matters worse clean up was also difficult due to the tight space around the conveyors, and caused the plant to be shut down on a regular basis. A range of cleaning products had been previously tried, with very little success.

Flexco's objective was therefore to reduce fugitive carry back material, and labour time associated with clean up. Operating at 1.3m/sec the plant conveyors carry a range of materials containing granite crushed to -200mm, industrial refuse, metal, aluminium, glass, and plastic at 25 tonnes/hour.

To eliminate the problem Flexco installed a Rockline® EZPI Primary belt cleaner to the head pulley. The faceted profile of the ConShear™ blade sets it apart from ordinary solid blades as conventional blades lose their cleaning edge and become dull and bull-nosed. The advantage of the ConShear™ blade is it renews its edge as it wears. The blade forms a new shearing edge once wear reaches each new faceted blade section, resulting in continuous cleaning efficiency throughout the life of the blade. The cleaner was also fitted with a self adjusting mechanism to ensure constant blade contact with the belt.

With Rockline® cleaners fitted to the head pulleys, material carry back was reduced considerably around the conveyors. This has allowed the plant to run more efficiently, take a pro active approach to maintenance shut downs, and has reduced the capacity for accidents associated with waste material lying under conveyors.



Polymer rollers being installed at Sims Metals.

POLYMER ROLLERS

Canning Conveyor has now been producing the High Density Polymer Rollers for over six years. It is a product unique in Europe which is now well tried & tested in the market and supplied only by Canning Conveyor.

Canning's carry an extensive full range of standard Polymer Rollers in stock - used in adjustable and fixed angle troughing sets and return idlers.

Full range and details available within our new updated Roller Brochure. High density polymer rollers are the future in Field Conveyors. Major developments have been made - we supply Polymer Rollers in suspended idlers and returns, incorporated in our new field conveyor bays. Standard stock range includes suspended sets with our unique new safety handles in steel or polymer.

The characteristics of high density polymer rollers are:

1. High quality: The roller shell is manufactured from HDP (High Density Polymer) with impact resistant, acid resistant, anti-corrosion, anti-alkali in chemical water. The roller is assembled well with double cap bearings, in compliance with ISO standards.
2. Heavy rigid and high impact roller performance: Different from the steel roller, Canning's synthetic roller has good impact and instauration. Strengthened frame offers the synthetic roller to the same rigidity as a steel roller.
3. Excellent waterproof and anti-dust: Canning's synthetic roller provides triple bearing protection. Seal rings prevent water and dust from entering into the inside of the roller. A special catchment groove utilising centrifugal force keeps the inside of the roller dry in all weather conditions. The patented triple labyrinth seals offer a 45% higher efficiency of preventing water and dust than traditional labyrinths.
4. Higher efficiency: Ejection body, homogeneous mass, good roundness, minimum roller factor; durable for high speed operation, power saving, noise free.
5. Light weight: Canning's synthetic roller is 55% lighter than traditional steel roller; suitable for small drive, head pulley and tail pulley; it can save _ cost for power and equipment cost.
6. Low maintenance cost: Long service life (guarantee for two years under normal operation), no lubrication oil needed, and easy replacement, reduce maintenance labour and time to the minimum.
7. Specification:
Tube: 102mm/127mm diameter x 8mm wall thickness
Shaft: Bright drawn mild steel

CANNING CONVEYOR NOW OFFER ENVIRONMENTAL SERVICES!

Canning Conveyor can now offer a full "turnkey service" to all our customers, which incorporates CAD design, manufacture, installation and commissioning.

We cover the following areas:

Dust Suppression – ultrasonic atomizing systems.
Fume and Dust Extraction – complete systems.
Sound Attenuation – acoustic booths, barriers and enclosures.

All our work is fully guaranteed and free site surveys are available.....

RECENT PROJECTS INCLUDE WORK FOR:

Cartwrights Waste Disposal Services	Biffa Waste	Fairport Engineering
Premier Waste (UK) plc	Guernsey Recycling	WAC Waste Mangement
Wasteology	Wastecycle	IAW Fertilisers
Recycling Ollerton & Boughton Ltd	Hopkinson Waste Management	Cleeves Materials Handling
R.E.D	Viridor Waste Management	Civic Environmental
Re-Use Glass	Sims Metals	European Metal Recycling Ltd
Envirocom	Game Engineering	



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