

We're doing our part for resource recycling
through our home appliance recycling business.



KANSAI RECYCLING SYSTEMS CO., LTD.

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As an advanced recycling plant that contributes to a recycling-oriented society, we aim to become “a valuable highly recycling company for people and the earth”.

Contributions to a recycling-oriented society

Promote closed-loop material recycling of home appliances and circulate high quality recycled materials to society.

Promotion of environmental management

Increase added value of recovered materials, thoroughly reduce waste and improve recycling rate.

Contributions to DfE (Design for Environment) of new products

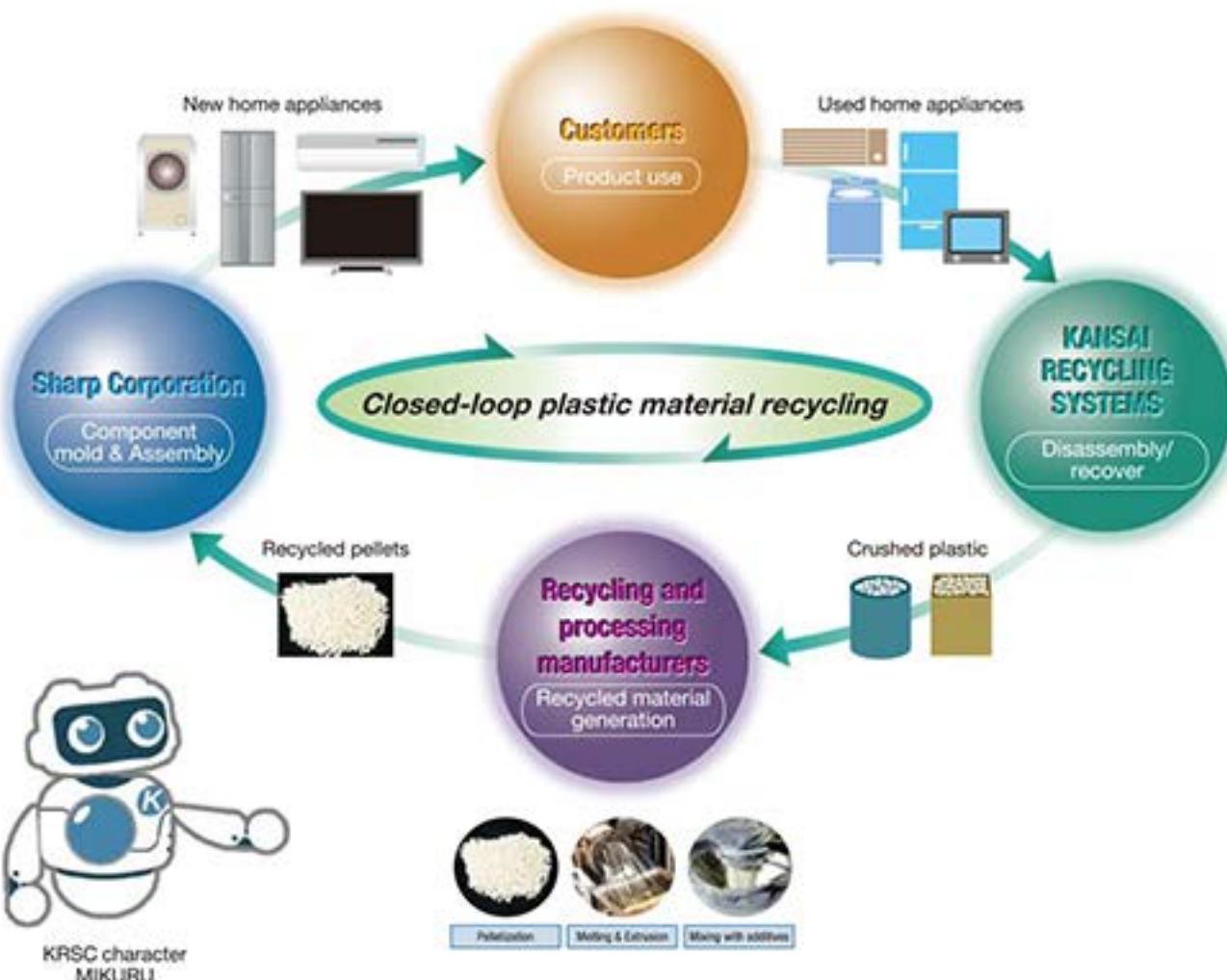
Feedback the information and know-how obtained at the recycling plant to the design and development department to improve the recyclability of new products.

Contributing to society through environmental education

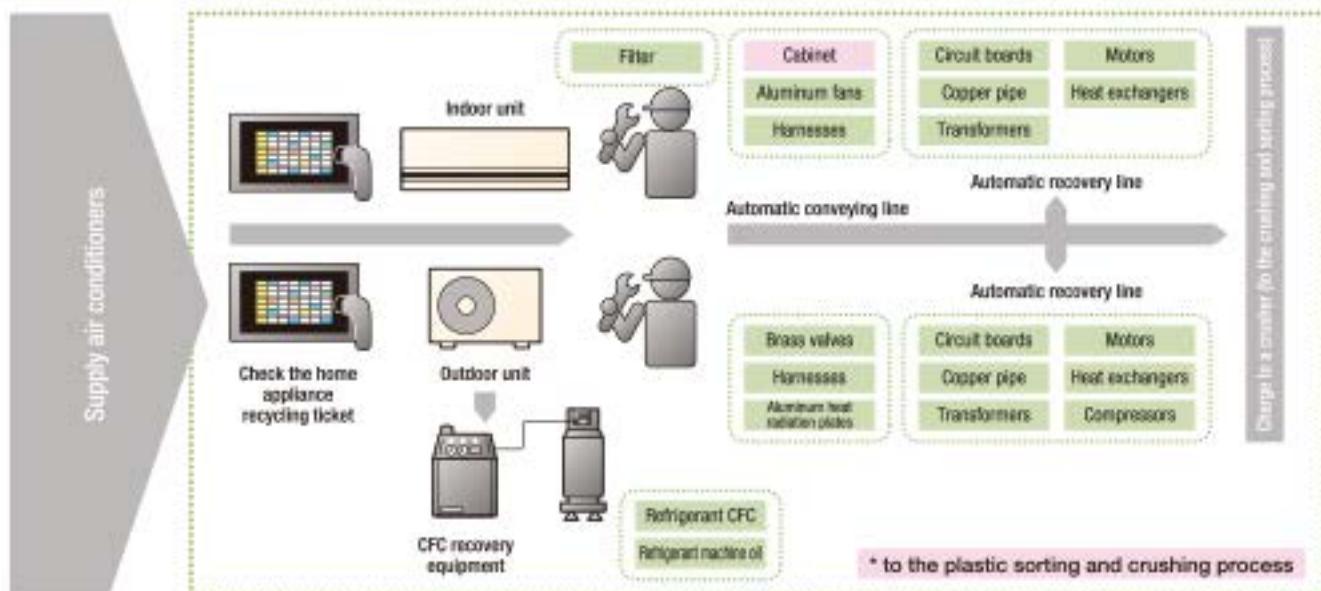
We actively engage in social contribution activities, including “environmental education” focusing on a factory tour.

Closed-loop plastic material recycling (CMR)

With the closed-loop plastic material recycling (CMR) technology developed with Sharp Corporation, we promote repeated usage of recovered plastic from used home appliances to Sharp's new home appliances.



Air conditioner processing flow



Outdoor-unit assembly-line disassembly work

Disassembly of outdoor units on a conveyor improves processing speed by repeating the same operation with the same tools.

Outdoor-unit dust-removal equipment

Outdoor units have a lot of dust on them, and this equipment is removed dust from outdoor by the air shower method.

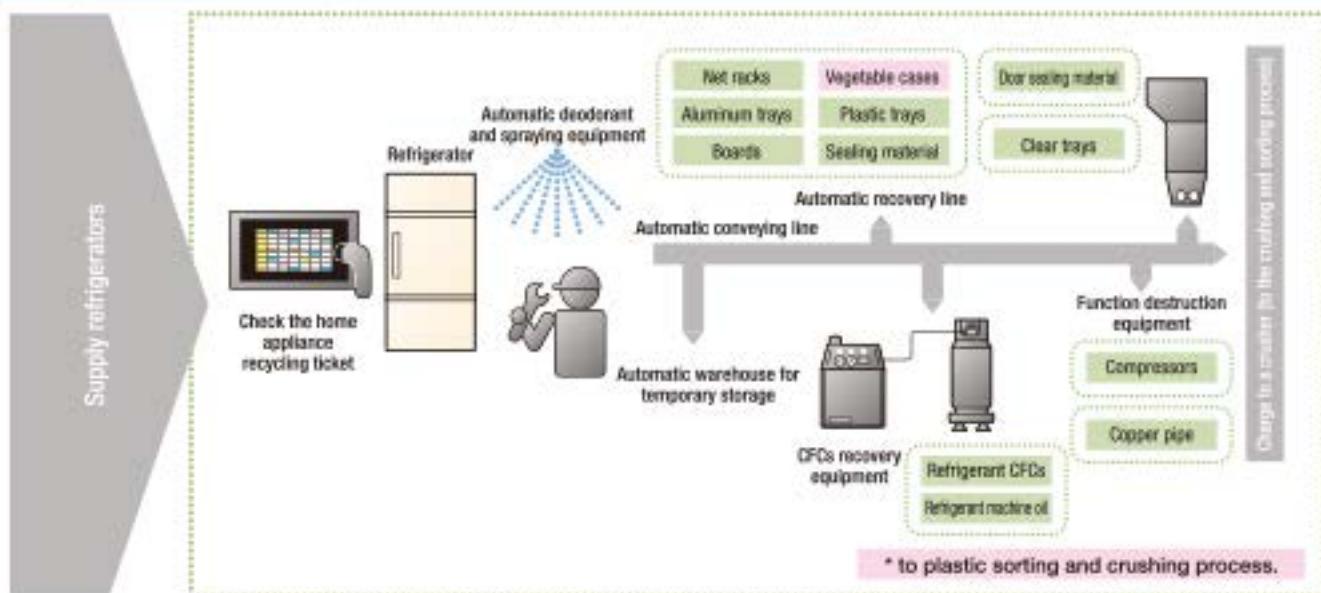


Indoor unit disassembling line



Automatic recovery line

Refrigerator processing flow



Door sealing material crushing equipment

Door sealing material is crushed, and the vinyl chloride on the surface and the soft magnet used as a core are separated and recovered.

Clear trays crushing equipment

Clear trays recovered from refrigerator chambers are charged directly to a dedicated crusher.

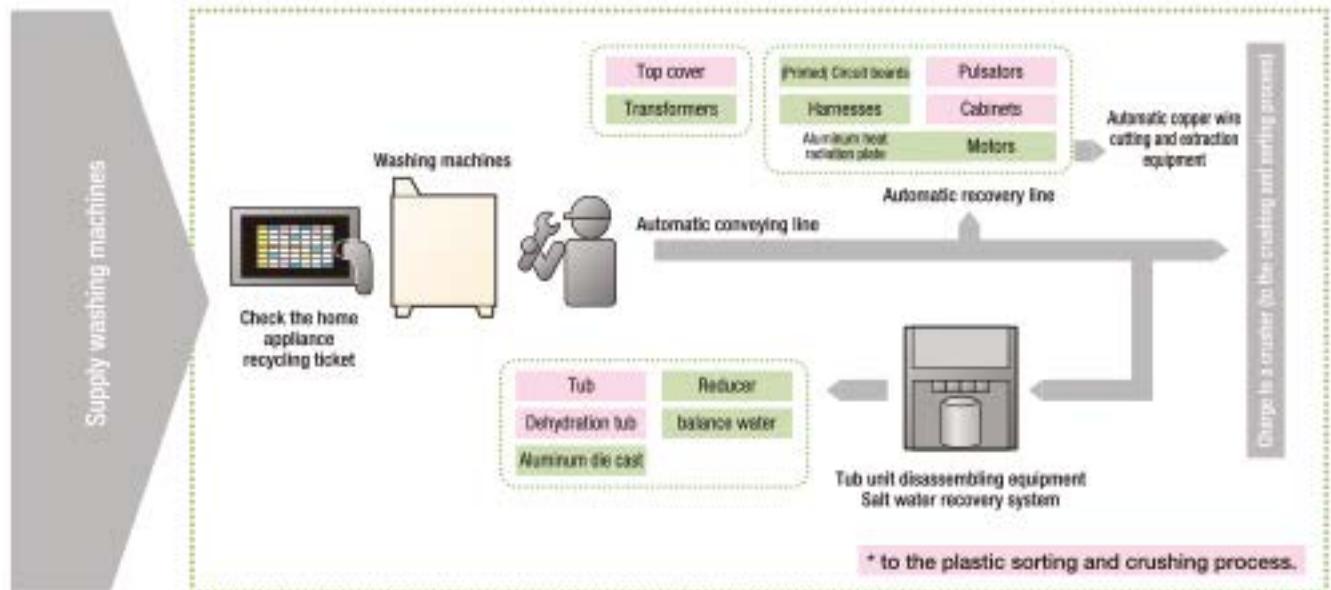


Clear trays crushing equipment



Door sealing material crushing equipment

Washing machine processing flow



Tub unit separation equipment

This equipment separates metal parts and plastic from the washing machine tub unit (which is difficult to disassemble manually).

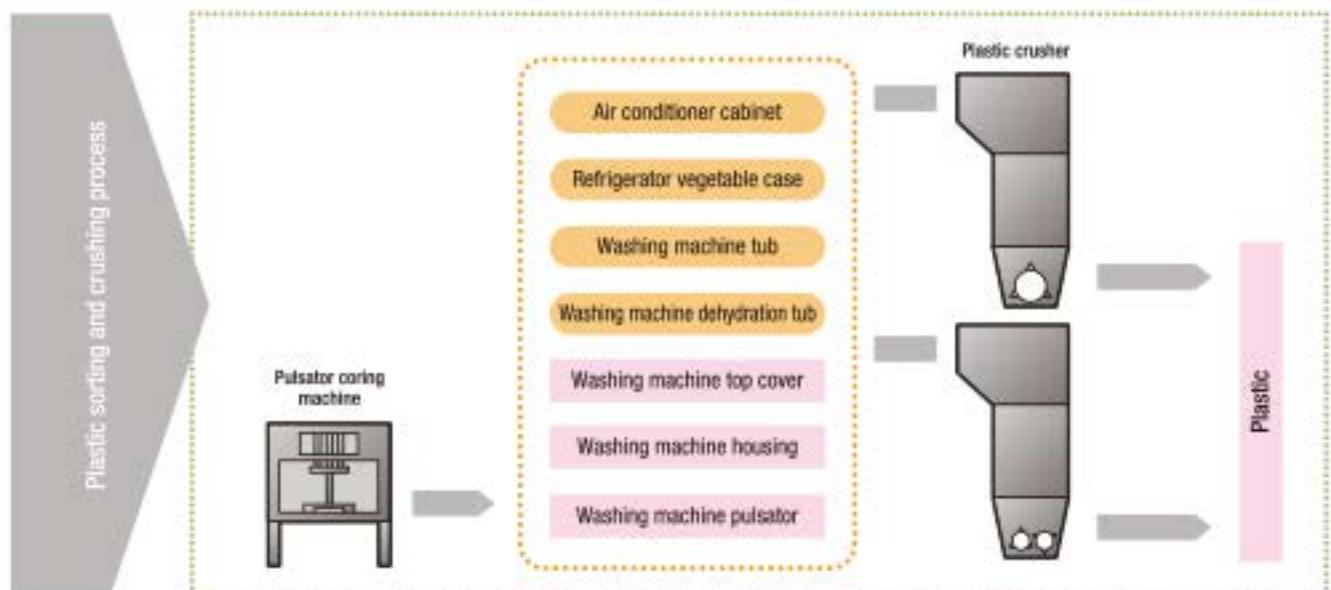


Tub unit separation equipment



Drum-type washing machine disassembling line

Plastic sorting and crushing process



Subgrade line

This process removes metal from plastic parts to recover polypropylene (PP).



Subgrade line

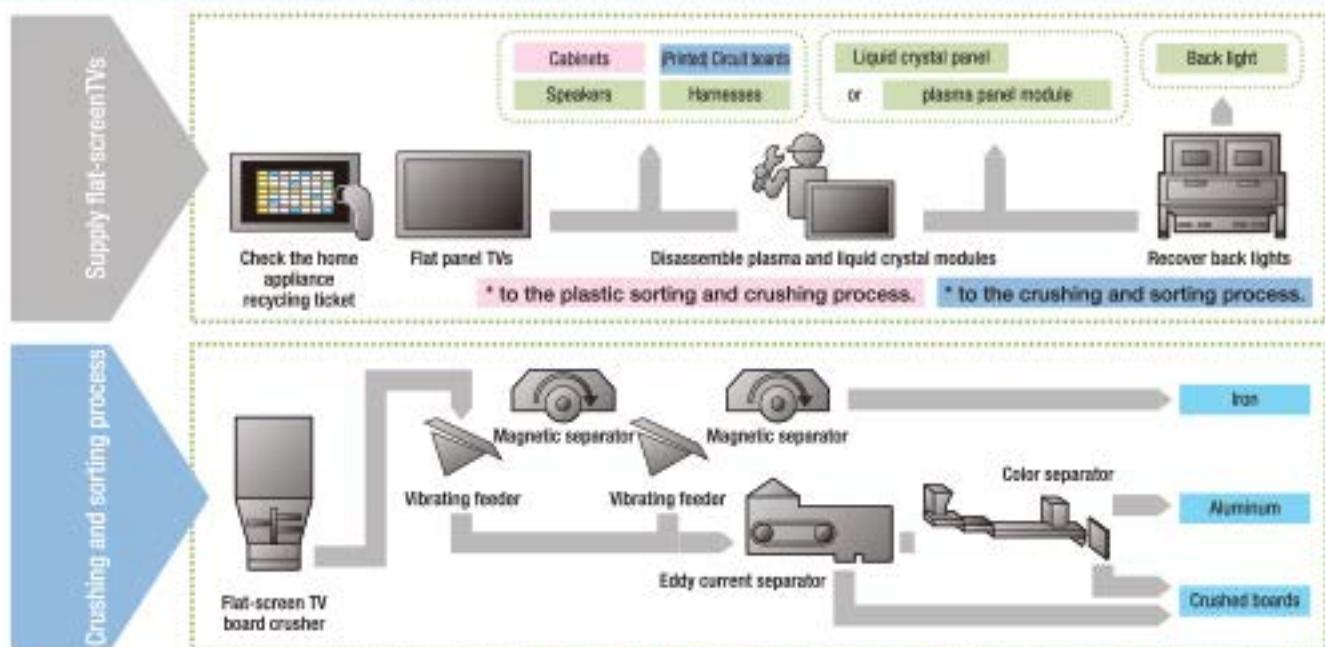
Pulsator coring equipment

This equipment separates plastic and metal from pulsators, which is a washing machine agitator.



Pulsator coring equipment

CRT TV and flat-screen TV processing flow



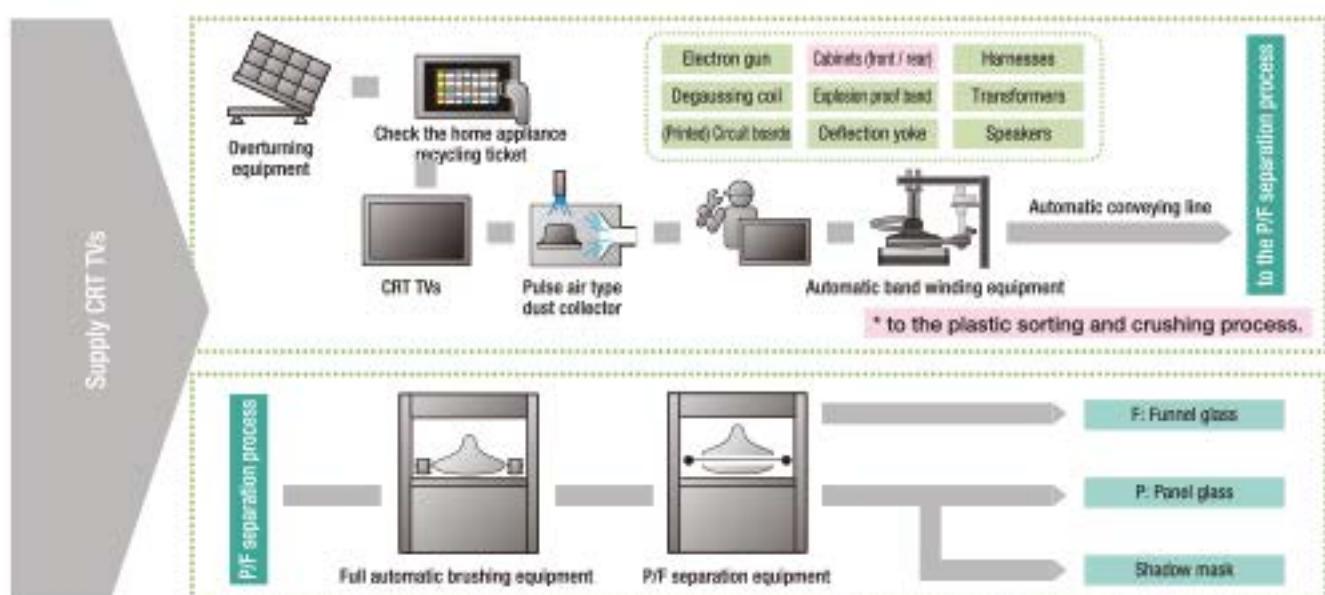
Back light recovery workbench

A workbench with concentrated ventilation is provided to prevent operators and the environment from being affected in case of a breakage when recovering LCD panel TC fluorescent tubes.



Back light recovery workbench

Hydraulic cutter for flat-screen TVs



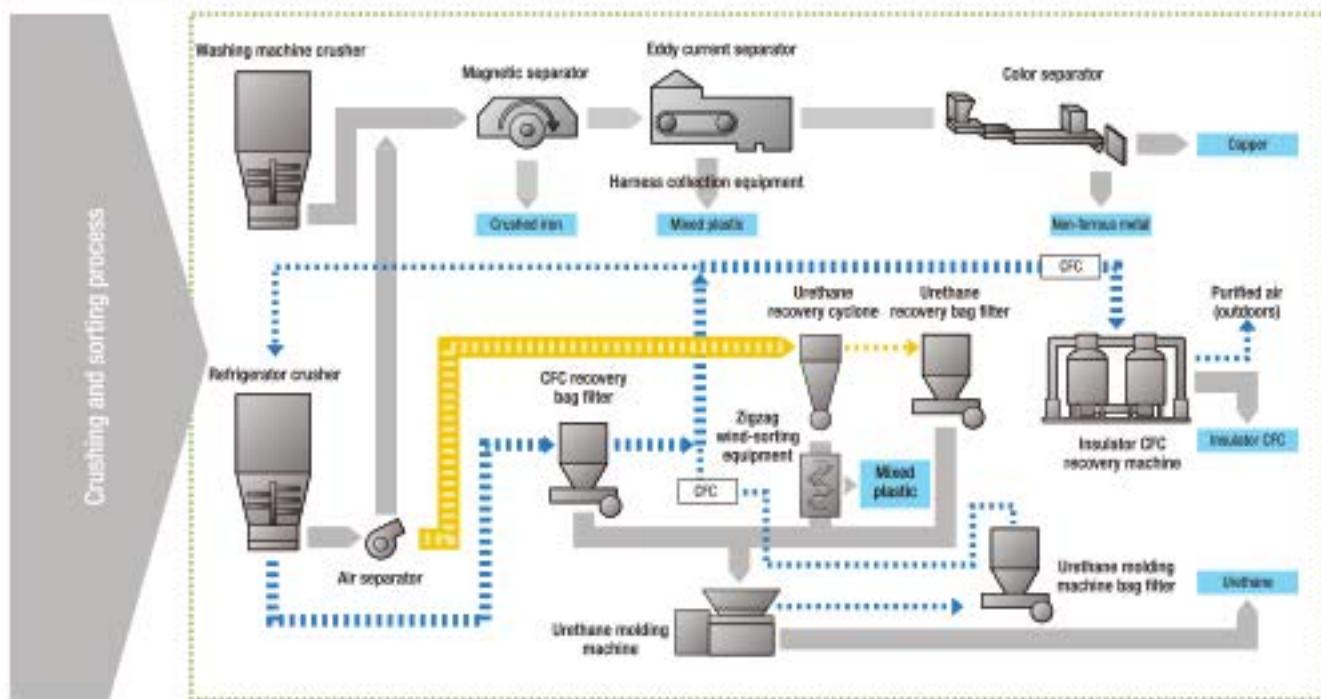
P/F separation equipment

This equipment separates panel glass (P) from funnel glass (F), by applying a heater wire to Braun tubes.



P/F separation equipment

Crushing and sorting process



Insulator CFC recovery machine

This machine recovers CFC contained in the insulator used in refrigerators.



Color separator machine

This machine detects red copper color in non-ferrous metal mixtures using a CCD camera, and then automatically sorts and recovers it by blowing high-pressure air.



Zigzag wind-sorting equipment



Crushed iron



Crushed and sorted copper

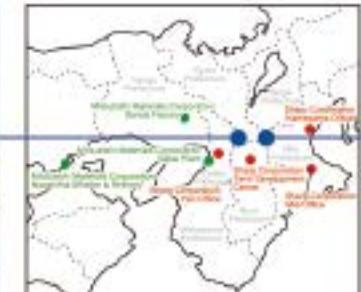


Mixed plastic

History

FY 1999	- Established.	
FY 2001	- Started operation as a home appliance recycling plant. - Acquired ISO 14001 certification.	
FY 2002	- Implemented operational CFC management system.	
FY 2003	- Installed tub-unit separation equipment.	
FY 2004	- Installed salt water recovery equipment.	
FY 2005	- Installed water spraying equipment to the sorting process.	
FY 2006	- Installed waste compressor conveying equipment. - Installed infrared radiation thermometers to the crushers. Implemented a monitoring system to the equipment in the crushing and sorting process. - Installed pulsator coring equipment. - Started operation of Plant 2. (Plant for TVs only. Shimagahara, Mie Prefecture)	
FY 2007	- Installed air conditioner recovery and automatic conveying equipment. - Installed an indoor equipment disassembling line. - Installed a plastic sorting line. - Installed a non-ferrous separator and a color separator. - Installed a pulse air type stem dust collector in Plant 2. (* ①)	
FY 2008	- Acquired OHSAS18001 certification. - Installed a CFC monitor. (* ②) - Installed a large-sized dust collector. - Installed automatic air conditioner outdoor supply equipment. - Installed LED lighting equipment (3F process) - Installed back cabinet stamping equipment, explosion proof band removal equipment, front cabinet conveying equipment, a 2-axis crusher, and a panel crusher in Plant 2.	
FY 2009	- Automated recovery and conveying in the washing machine line. - Installed a recovered material conveying line, a circuit board compacting machine, and a large-sized dust collector in Plant 2.	
FY 2010	- Installed temporary refrigerator storage equipment. - Installed a back cabinet conveying system in Plant 2.	
FY 2011	- Received a total of 20,000 visitors. - Automated conveying in the refrigerator pre-disassembling line.	
FY 2012	- Installed a refrigerator pre-disassembling yard. Installed an HC refrigerant recovery machine. - Installed urethane suction equipment and harness collection equipment.	
FY 2013	- Installed a urethane particle separator. - Installed mixed plastic shipping equipment.	
FY 2014	- Installed air conditioner unloading equipment. (* ③) - Installed refrigerator compressor function destruction equipment. - Started human-resource exchange training with other companies.	
FY 2015	- Installed automatic motor core cutting and extraction equipment. - Installed automatic sorting-line crushed-material conveying equipment. (* ④) - Introduced safety sensory equipment.	
FY 2016	- Installed a flat-panel display circuit board crushing and sorting system in Plant 2. - Installed automatic transformer disassembling equipment. - Renewed the refrigerator line.	
FY 2017	- Renewed automatic washing machine salt water recovery equipment. - Implemented refrigerator sealing material crushing and sorting equipment.	
FY 2018	- Completed a warehouse building. - Won the Iwatani Naoto Memorial Prize. (for industrial contribution through remaining life evaluation technology of home appliance waste polypropylene recycled material using the deterioration induction period method / high quality material supply) - Renewed the washing machine line. - Installed a refrigerator clear tray crusher. - Installed a color separator machine in Plant 2. (* ⑤)	
FY 2019	- Installed refrigerator compressor storage and Automating transport equipment. (* ⑥) - Installed VR safety simulation system. (* ⑦)	
FY 2020	- Expanded the drum-type washing machine disassembling line. - Installed outdoor-air-conditioning-unit-compressor transport equipment. (* ⑧) - Switched from OHSAS18001 to ISO45001.	
FY 2021	- Installed zigzag wind-sorting equipment. - Installed air-conditioner-filter crushing equipment. - Renewed the outdoor-air-conditioning-unit dust-removal equipment.	

Company Outline

Company Name	Kansai Recycling Systems Co., Ltd.		
Established	December, 1999		
Business Activities	Recycling of used home appliances		
Capital Stock	300 million		
Investing Company (Investment ratio)	Sharp Corporation (43.3%), Mitsubishi Materials Corporation (40.0%), Sony Corporation (3.3%), Hitachi Appliances, Inc. (3.3%), Fujitsu General Limited (3.3%), Mitsubishi Electric Corporation (3.3%), Kansai Recycling Systems Co., Ltd. (3.3%)		
Representative Directors	President & CEO: Hideyuki Tanba Managing Factory Director: Shinji Nagashima		
Factories	<p>Main Factory & Head Office</p> 		<p>Second Factory</p> 
Handled Product Lines	Used home appliances	Air conditioners, Refrigerators/Freezers, Washing machines/Clothes dryers	Used home appliances
Locations	2-28-1 Kasugakitamachi, Hirakata City, Osaka		Televisions (CRT, Liquid crystal and Plasma flat panel displays)
Start of Operation	April, 2001		8787 Shimagahara, Iga City, Mie
Access	<p>Main Factory & Head Office</p> <p>[By train]</p> <p>Get off at "Hirakata-shi" station on the Kishio line, 15 minutes by taxi or 20 minutes by bus (Bus stop 1 by the south exit. Get off at "Yotsutsuji" bus stop, then a 10 minute walk. Get off at "Taude" station on the JR Kishio line. 5 minutes by taxi or 10 minutes by bus (Bound for Hirakata-shi station. Get off at "Yotsutsuji" bus stop), then a 10 minute walk.</p> <p>[By car]</p> <p>Go north along Route 1 from the "Moriguchi" IC. on the Hanshin Expressway. Turn right at the "Hoshigaoka 2nd" intersection. Go west along Route 357 from the "Hirakata Gakuen" IC. or "Hirakata-Higashi" IC. on the Denki Keihin Road. Turn left on the Ikenomiyako East crossing.</p> 		
	<p>Second Factory</p> <p>[By train]</p> <p>Get off at "Iga Ueno" station on the JR Kansai Main Line. 20 minutes by taxi. Get off at "Ueno-shi" station on the Iga Railway. 20 minutes by taxi. (There is no taxi service at JR Kansai Main Line "Shimagahara" station)</p> <p>[By car]</p> <p>Go 10 minutes towards SHIMAGAHARA CC (golf course) from Shimagahara bypass on Route 163. Go 10 minutes towards KOMA CC (golf course) from Route 25 (Meihan Expressway).</p> 		

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[https://www.krsc.co.jp](http://www.krsc.co.jp)



ISO 14001 Certified Company

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