



Global Leading Company 1,000+

Certified by Minister of SMEs & Startups,
Korean Government



Nature`s Contribution to Human, Our Commitment to Environmental Sustainability

DWA has provided sustainable advanced solutions
to over 200 plants in 18 countries on the world by 2022.



DWA fabricates and supplies,

- Automatic rotary trash bar screens with auxiliary equipment,
- Non-metallic chain flight sludge scrapers,
- Non-metal chains,
- Automatic travelled grab screens,
- Mechanical bar screens,
- Travelling band Screens,
- Metal chain flight sludge scrapers,
- Circular clarifiers,
- Travelling bridge sludge scrapers,
- Sludge hoppers,
- Grit separators,
- Grit removers,
- Belt conveyors, Screw conveyors,
- Incinerator plants and equipment

We commit our contribution to
Environmental Sustainability.

**Top quality Management and
Customer Impressions is our
Business Goal.**



Business card



Who are we?

Bonghee Han, FOUNDER & CEO, DOWON APEX CORP.
Master of the Engineering of Environment,
36 years of experience in wastewater treatment
and environment industry, International Trade Specialist,
BA in Chinese Language & Literature

DWA, DOWON APEX CORPORATION, is a professional manufacturer that designs and fabricates advanced water & wastewater treatment equipment & incinerator plants in Korea. Since it was founded in 1996, DWA has supplied Metal & Non-metal chain flight sludge scrapers, Automatic rotary bar screens, Mechanical bar screens, Automatic grab screens, Travelling bridge scrapers, Bridge circular clarifiers, Travelling band screens, Sludge hoppers, Belt conveyors, Screw conveyors, Grit Separators, to water, sewer, & wastewater treatment plants in 18 countries on the world by 2022. DWA has also supplied Incinerator plants and equipment for liquid and solid waste treatment in oil & gas plants and MSW treatment sectors since 2011.

Together with continuous growth in every year, DWA has supplied more than 1,000 units over 200 plants in 18 countries on the world and has awarded Million Exporter Trophy & Certificates of Commendation for Exporting Activities from Busan Technopark authority, Busan National University, Busan Metropolitan City, Korean government since 2011 to 2022. DWA has also awarded the Certificate of Commendation for its contribution to the development of environment in Vietnam by the Ministry of Natural Resources and Environment, Vietnam government in 2018. DWA has been qualified and certified its quality management system by ISO 9001:2015 and T4 Excellent Technology for Sludge Scraper System by Korea Ratings since 2004 and 2019. DWA has been designated the Promising Small & Medium Enterprise in Export by Ministry of SMEs and Startups in Korean government and certified the Specific Product Exporter under FTA by Korean Customs Office from 2018 to 2027.

Nature's contribution to people, we commit our contribution to Environmental Sustainability. Top quality Management and Customer Impression is our business goal. We hope to provide global customers with the best solutions by our sustainable advanced water & wastewater technology. Although this brochure reflects a limited range of our commitment with finest technology to our valuable customers, please choose DWA, DOWON APEX CORPORATION, to your technical partner in your project.

Yours faithfully,

Bonghee Han, CEO

Achievements



Found in December 16, 1996.

1,000 units over 200 plants in 18 countries on the world in 1996 to 2022.

ISO9001:2015 Quality Management System since 2004.

Million Exporter Trophy from Korean Government in 2011.

Registered Trade Mark “DWA” to KIPO.

Certificate of commendation by Mayor, Busan Metropolitan City in 2015, 2016, 2017, 2018.

Certificate of commendation by Korea Industrial Complex Authority in 2017.

Certificate of commendation by The Ministry of Natural Resources and Environment, Vietnam Government in 2018.

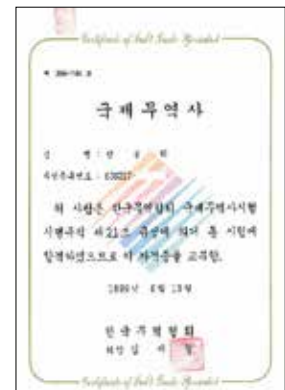
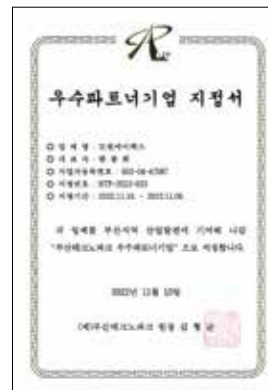
Certificate of Excellent Technology, TCB, for Sludge Collectors by Korea Ratings.

Promising Medium Enterprise in Exporting by Ministry of SME`s & Start-Up by Korean Government in 2020 to 2023.



- Patent Registration for “Screen Trash Removal Equipment” on Korean Intellectual Property Office.
- Certificate of Product-Specific Approved Exporter under FTA by Korea Customs Office to 2020 to 2027.
- Certificate of Commendation by Busan Technopark Authority in 2021.
- The Grand Prix for Excellent Patent Korea 2022 by Korea Institute of Patent Information & Korea Times.

Certificates & Awards





Automatic Rotary Trash Bar Screens

Automatic rotary bar screens are installed on front of river water pumping stations to lift-up trashes and foreign materials automatically in river water incoming. Automatic rotary trash bar screen plants are consisted of numbers of rotary screens, horizontal belt conveyor, inclined belt conveyor, and hopper. Running of automatic rotary bar screens, belt conveyors, and hopper is automatic interactively. Rotary bar screens are mostly made of mild & carbon steel tar epoxy coated, and stainless steel 304, and 316. The opening of bar space is 50 to 60mm. Double chain system at both side are applied and the chain is made stainless steel. 4 to 5 rakes are applied typically and the speed of rake rotation is 5.0 m/min. Lifting weight for each rake is 300 to 500kg/cycle. Installation degree of rotary bar screen is 75°. Drive system is variable such as motor, hydraulic coupling, and gear box, or motor with Cycloid reducer to control smooth and long duration of run of equipment. DWA has so many references for Automatic Rotary Trash Bar Screens in South East Asian countries such as Malaysia, Thailand, Vietnam, since 2014 and has contributed to successful run of river water pumping stations for the proper water supply and flood prevention in the territory.



Automatic Rotary Trash Bar Screens



DWA has directly fabricated and supplied more than 50 units of Automatic rotary trash bar screens to SEA countries since 2014. Dimensions has applied is 2 to 8m width and 5 to 12.5m of height. Materials has been applied are stainless steel 304, 316 and structural steel specially coated with Epoxy Tar, according to site conditions.

Automatic Rotary Trash Bar Screens



Shipping picture for side frames of rotary bar screens 8m width & 12.5m height



Assembly for rake, shaft, sprocket, main chain, chain tension unit & front screen.



Assembly for main shaft, sprocket, rake, main chain, and chain tension units. All parts are assembled in precise and allowed dimensions under DWA's dedicated quality control system.

DWA has a special design for trash rakes to lift up trash well. Main shafts are made of carbon steel and epoxy coated in enough thickness.

Drive system is consisted of Induction motor, hydraulic coupling, & high ratio of gear reducer

DWA Drive system for automatic rotary bar screens is Gear box with hydraulic coupling or Cycloid reducer for smooth start up and running of equipment. 2.2 to 5.5kw, IP55, motors are applied. Shear pins protection for overload.





Horizontal & Inclined Belt Conveyors



Horizontal belt conveyor, 51m installed together with 4 rotary screens and platform in apumping station, Bangkok, Thailand 2019.

DWA designs and fabricates Horizontal belt conveyors, 20 to 51m length, and Inclined belt conveyors, 30 degree, 15 m length, with platforms, for automatic rotary bar screens which discharge trash and sludges from automatic rotary bar screens. To avoid trash backward on conveyors, DWA adapts Fin Rubber belts and impact rollers in conveyor systems. Conveyor speed is 20m/min. Has references for automatic rotary bar screens and Incinerator plants in SEA and Middle East countries since 2014.



Ready to ship a sludge hopper with platform



Cut gate Type Sludge Hopper

DWA fabricates and supplies Sludge hoppers for the storage and discharge of sludge, trash, and cake from Automatic rotary bar screens and dewatering equipment. The gate opening is done by cut gate or slide gate by electric power cylinders or hydraulic power units. According to the specification, numbers of screw conveyors are applied to chute of hopper in behalf of gate opening. DWA has typically apply 4 load cells to measure and transmit weight signals to control panel. Special design as automatic flushing system for inside of hopper is available to fabricate and supply. The capacity of hopper has supplied is 10 to 35m³ and has the reference in SEA & Middles East countries since 2015.

Sludge Hoppers



DWA has installed and run 12 units of Non-Metallic chain flights sludge scrapers in Guheswori WWTP Kathmandu Nepal successfully by 2020. 8 units for primary sludge settling tanks, 23Lx5Wx3.5Hm and 4 units for secondary sludge settling tanks, 40Lx5Wx3.5Hm.



Non-Metallic Chain Flight Sludge Scrapers



DWA fabricates and supplies Rectangular Non-Metal Chain Flight Sludge Scrapers for primary & secondary sludge settling tanks in sewer, wastewater, potable, and desalination treatment plants since 2004. Chain flight sludge scraper system removes bottom sludge settled by flights equipped, 3m distance each, and removes scums by scum skimmer in each settling tank. DWA applies high tensile strength and anti-corrosion plastics for all parts such as scraper chains, attachments, sprockets, flights, and wear strips, and drive chains. shafts, guide rails, and tension units are made of stainless steel 304 & 316. Chain flight sludge scraper system is the typical equipment to remove high loads of sludge in primary and secondary sludge settling tank. It provides higher sludge removal efficiency than any other scraper mechanisms. In the view of high loads of sludge removal, space of installation, power consumption, and long duration of operation, the most economical scraper system is chain flight sludge scraper system. DWA has the references for chain flight scraper systems in Finland, Turkiye, Morocco, China, Indonesia, Taiwan, Malaysia, India, Nepal, Vietnam, since 2004.



DWA Sprockets are made of high density of polyurethane. Water absorbing rate of sprockets is less than 0.3%. The pitch of driven chain is 66.27mm and the number of tooth is 40. The pitch of main sprocket is 152.4mm with the number of tooth 12. Pitch of Idle sprocket is 152.4mm and the number of tooth is 9. Water absorbing rate of sprockets are 0.3 to 0.5%. Flight is made of GRP with more than 50% of glass fiber reinforced. Flights are produced by pultrusion process to avoid cracking during running of flight and long time duration. Mostly the flights are installed at 3m, 3,048mm, distance. Less than 0.3% of water absorbing rate for flight. Wear shoes, 12mm thickness, are assembled to each flight to prevent the abrasion of flights during running of flights on bottom of sludge settling tanks. Wearing shoes are made of high tensile of Polyurethane. Carry & return wear strips are made of UNMW Polyurethane. Thickness of wear strips are 10mm and fixed to bottom by stainless steel 304 or 316 cone washers.



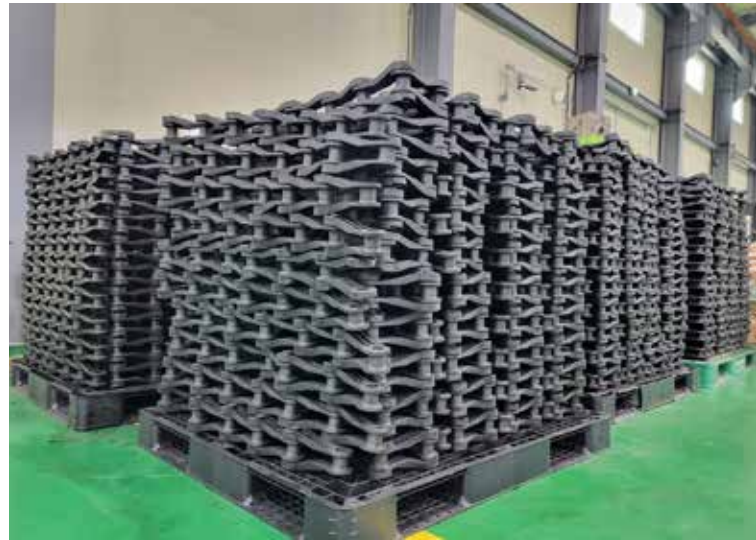
Non-Metallic Chain Flight Sludge Scrapers



Non-Metallic Chains



DWA Non-Metallic scraper chains are made of high tensile Polyketone. Pitch of chain is 152.4mm. Tensile strength of chain is 30 to 42 kN. Has an excellent mechanical characteristics as very high anti-corrosion. Chain body, pin, and clip are made of same material and no metal parts are applied which cause disassembling of chain connections by corrosion of metal materials. Provides with attachment for chain flights. Weight is 2.4 kg per meter. Tensile strength is tested & verified by Public Testing Institutes.



DWA produce non-metal chains directly by it's a special production line and also has the references for the supply of non-metal chains to SEA, Middle East, European, and African countries since 2008. Drive unit is consisted of motor with horizontal cycloid reduction or helical bevel gear reducer. Power transmission is done by non-metallic drive chain, Nylon 66, 66.27 mm of pitch. Variable scraping speed control is available.



Driven sprocket, Head sprocket, Drive chain, and Drive system by helical bevel gear motor and reducer.

Non-Metallic Chains And Drive Systems

Scum Skimmer and Control Panel



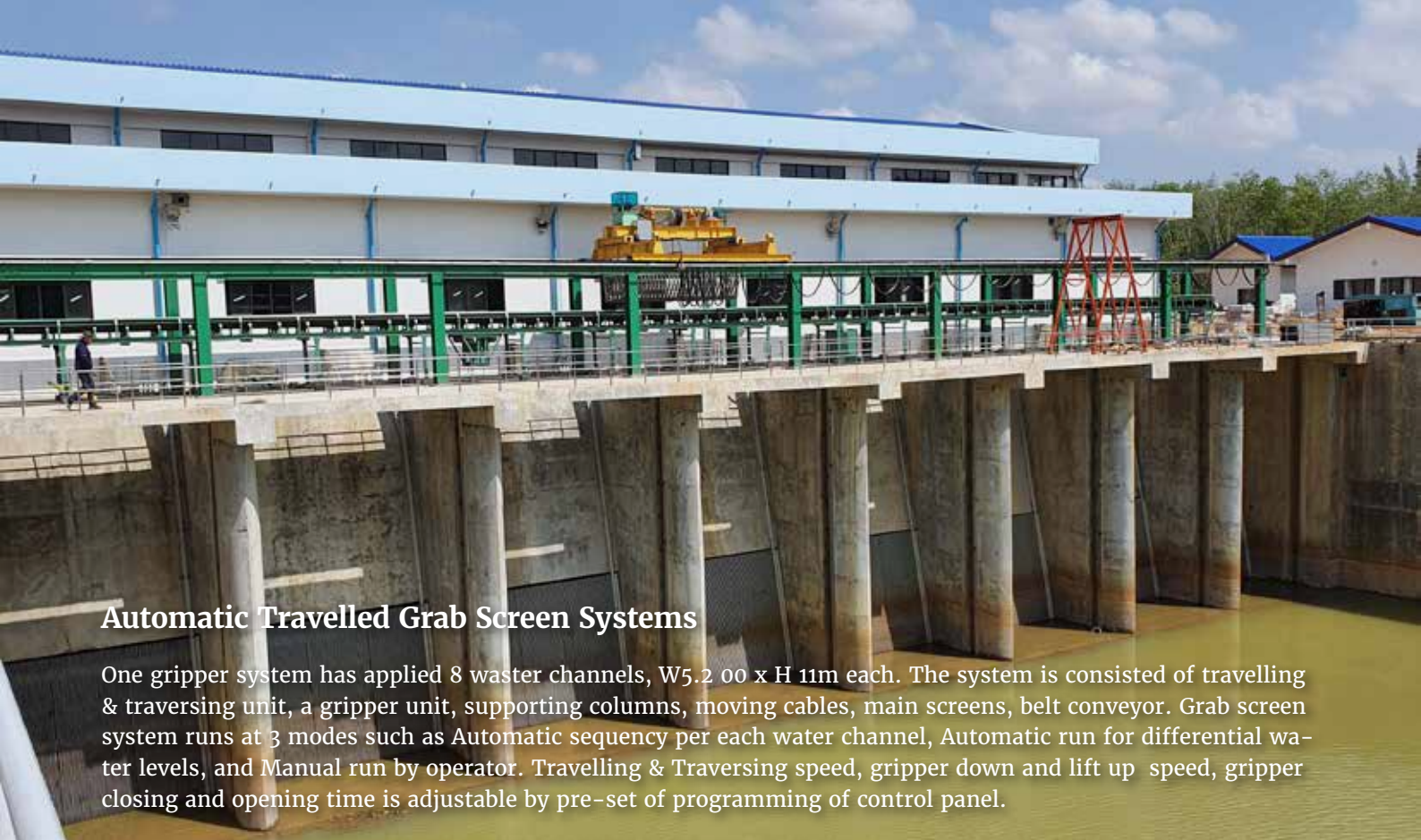
Dia. 250mm stainless steel scum skimmer run by motorized actuators. Each actuator has PLC system to control rotation direction and speed of scum skimmer.



Main body of scum skimmer is made of stainless pipe, 304, $\phi 250\text{mm}$. There are 5 openings to receive and discharge scums. Scum pipe is supported at both sides to endure twist and loop trust. Motorized actuator is run a PLC controller

Control panel is made of stainless steel 304, 2mm thickness. Automatic and manual operation by Remote/Local selector switches. Alarm and auto stop of motor by torque limit installed. Automatic stop of equipment by all fault signals and re-set are available.





Automatic Travelled Grab Screen Systems

One gripper system has applied 8 water channels, W5.2 00 x H 11m each. The system is consisted of travelling & traversing unit, a gripper unit, supporting columns, moving cables, main screens, belt conveyor. Grab screen system runs at 3 modes such as Automatic sequency per each water channel, Automatic run for differential water levels, and Manual run by operator. Travelling & Traversing speed, gripper down and lift up speed, gripper closing and opening time is adjustable by pre-set of programming of control panel.

DWA fabricates and supply Automatic Travelled Grab Screens to grip, lift up, and discharge trash on belt conveyor or hopper by a claw unit in front of river water pumping stations. One claw unit runs 2 to 10 water channels according to the differential water levels or programmed logic automatically. The equipment is so effective way to reduce equipment investment with much energy saving. In case of installation of automatic rotary screen in each water channel, more numbers of rotary screens are required, however, one grab (claw) system runs on all channels bring the effect don't require more equipment in all water channels. Rotary screen has the limited capacity to lift up trash in the river water and can not lift up large volume of trash due to limited rake dimensions, however, in case of Automatic travelled grab screen, heavy and large sized trash can be lift up and discharge to belt conveyor or hoppers easily. According to design consideration, no require to install belt conveyors to move trashed to hoppers because the grab screen discharge trash to hopper directly. Whole system is protected by Korea Patent Office through Patent Registration by DWA in 2020. Has awarded the Grand Prix for Excellent Patent Korea 2022 by Korea Institute of Patent Information Korea Times. Has the reference in Thailand. There are more demands in power plants using seawater as cooling water.



Automatic travelling and traversing gripper works by crane system equipped. Gripper downs, opens, grip, lift up, and discharge trash to set position.



Awarded the
Grand Prix for
Excellent
Patent
Korea 2022.

2022 대한민국
우수특허大賞



Automatic Travelled Grab Screen Systems

Claw unit is made of stainless steel 304 or 316 according to condition of river water. Width of claw unit is variable fit to width of water channel. 4 sets of wheels are equipped on back side of claw unit. Travelling and Traversing unit has driving & lifting motors, wire drum, limit switches, and other necessary electronic parts. The positions for claw unit's downing and upping are adjustable by set of program in control panel and the adjustment of limit switches equipped. Ultrasonic water level transmitters are installed in front or rear side of grab screen system and transmit signal to main control panel to allow claw unit runs per differential water or trash levels automatically. In case of automatic sequency , the claw unit moves each water channel in sequency. In case of emergency in water channel or system, or maintenance for system, operator can run the equipment in manual mode. Overloads in lifting capacity or others, alarm producing and the equipment stop run automatically.

5,200mm width of Claw unit is made of stainless steel 304. Claw unit to grip, open, lift up, and discharge trash on hopper or belt conveyor. Picture for Going down of claw unit to river water in-coming pumping station. Another picture for MOP of for grab screens equipped inverters, PLCs, and other electronic parts. Indicator for ultrasonic water level transmitters.



Mechanical Bar Screens

DWA fabricates & supplies Automatic coarse & fine mechanical bar screens, double chain rakes rotation type, for grit chamber and raw sludge water incoming stations. All equipment are made of stainless steel 304, 316, or Duplex stainless steel. Main chain for rake rotation is also made of stainless steel. For the rake cleaning before discharge of sludge to chute, a sludge scraper is installed on the top & rear side of screen equipment. Installation inclination is 60. to 75°. Bar clearance is 20 to 25mm for coarse mechanical bar screens and 6 to 10mm for fine mechanical bar screens. Typical raking speed is 3m/ min. which is adjustable according to customer request. An wedge bar system will be applied to fine screen to avoid clogging of screenings passing through. 10 to 14 numbers of rakes are equipped in mechanical bar screens and there are 2 sprockets, top & bottom parts, to run rakes and chains. Bottom sprocket are removeable according to specification. Shear pin protection devices are equipped on drive sprocket to protect equipment against overloads. Drive system is Cycloid reducer or Geared motor reducer. Control panels for automatic, manual runs, are also supplied by DWA.

DWA has supplied Mechanical Coarse and Fine bar screens to SEA countries and US military in Korea since 2010.





4 Mechanical Coarse & Fine Bar Screens shipped to a WWTP in Vietnam 25mm bar



10mm bar clearance of fine bar screens with wedge bars to avoid clogging of bar space. Made of stainless steel 304 applied.

W700 x H3,500mm Coarse mechanical bar screen installed in a US Army. Explosion proof motor and control panel applied. Made of stainless steel 316.



25mm bar clearance of coarse bar screens and submerged bottom sprockets made of stainless 304.

Mechanical Bar Screens



Travelling Band Screens

Automatic travelling band screens are installed on rear flow of travelling bridge scraper system at river water intake station for potable water treatment plant, to lift-up fine screenings. Inclination of screen is 85 to 90 degree. The equipment is consisted of stainless-steel mesh screen, rib plate, chain, drive & driven sprocket, shaft, guide & guide angle, cycloid geared type drive & reduction system. Mostly opening of mesh screen is 3 to 4mm. Driving speed of mesh screen is variable according to inlet volume of screenings.



4mm mesh opening of mesh screen is made of stainless steel 304, 316.



Roller chain. Roller is made of special engineering plastic.



Band screen installed and water level is transmitted by ultrasonic water level sensor.



Chain Flight Sludge Scrapers are made of structural steel, carbon steel and stainless steel for high loads of sludge removal in rectangular primary and secondary sludge settling tanks. It provides higher sludge removal efficiency than any other scraper mechanism due to metal flights installed. In the view of high loads of sludge removal, space of installation, power consumption, and long duration of operation, the most economical scraper system is chain flight sludge scraper system. 2.2 to 3.7 Kw motors with cycloid reducer or geared type reducer are applied. The system is consisted of drive units, sprockets, flights, flight attachments, shafts, tension units, guide rails, bottoms rails, tension units, scraper chains, drive chains, and others.



DWA Fabricated & supplied 20 units of chain flight sludge scrapers to a WWTP, Steel Mills in Istanbul, Turkiye in 2010. W4.8 x H4.3 x L24m, 10 units for primary sludge settling tanks and W4.8 x H4.3 x L42m, 10 units, for secondary sludge settling tanks. Scrapping speed is 0.2 ~ 0.6m/ min. Shear pins protection on drive sprockets against overload of equipment.

Chain Flight Sludge Scrapers



Chain Flight Sludge Scrapers



Numbers of shafts such as main, take-up, and tail shaft machined for Tar Epoxy coated for anti-corrosion.



Driven, Head, and drive shafts machined.



Flights & wearing shoes made of structural steel coated with Tar Epoxy for anti-corrosion.



2.2 to 3.7kw, IP55, motor with Cycloid reducers. Drive chains, carbon steel, are assembled to ship.



According to inlet sludge condition, either center driving or peripheral driven type of clarifier is selected. In case the sludge inflow is much, or the equipment is applied to sludge thickening, peripheral driven type of sludge scraper can be selected. Surface scum is removed by scum skimmer and sludge settled to bottom is scrapped to center hopper by bottom scraper. Bridge and platforms are made of structural steel with epoxy rubber coated. All parts submersed are made of stainless steel 304 or 316. In case of scrapers for sludge thickening, Picket fences are also attached to scraper arm side to withstand against sludge loads. DWA has fabricated and supplied many equipment to local and overseas plants since 2004.

Circular Clarifiers



Center feed wells, scraper arms, platforms, handrails, center supports are made of stainless steel and structural steel. Electric insulation devices.





Travelling Bridge Scrapers

Travelling bridge scrapers are installed at a local sewer treatment plant and potable water treatment plants. Wide is 5 to 12 meters in one bridge for one water channel or one bridge for two water channels. Ideal for the scrapping of heavy-duty top and bottom sludge. Forwarding speed of bridge is 0.2 to 1.8m/min, variable, and reverse speed is 1.8m/min, variable. Drive system will be either the drive motor with cycloid reduction or worm geared reduction type. Skimmer and scraper installed to scraper top and bottom sludge. Cable reel installed.



Exception for bridge structure, all parts submersed are made of stainless steel 304 or 316. Submersed scraper is driven by stainless steel wire and drum.





Automatic Grit Separators

DWA supplies automatic grit separator to separate grit and water in grit chamber. All materials are made of stainless steel 304 or 316. Screw conveyor installed together with main body of grit separator to discharges grit to out. PLC system is applied to automatic operation and interactive with auxiliary equipment. For the cleaning of sludge, a cleaning air fan system, 0.75kw is equipped. The system is consisted of inlet nozzle, settling tank, inclination plate to separate the grit and water well, cleaned water drain, & etc. A water enclosure gland packing inserted to avoid leakage of settled water in the bottom of screw conveyor. Typical diameter and length of screw conveyor is $\varnothing 250 \times 4500$ mm. DWA has the references for grit separators in SEA countries since 2016 and also supply Vortex type grit separators.



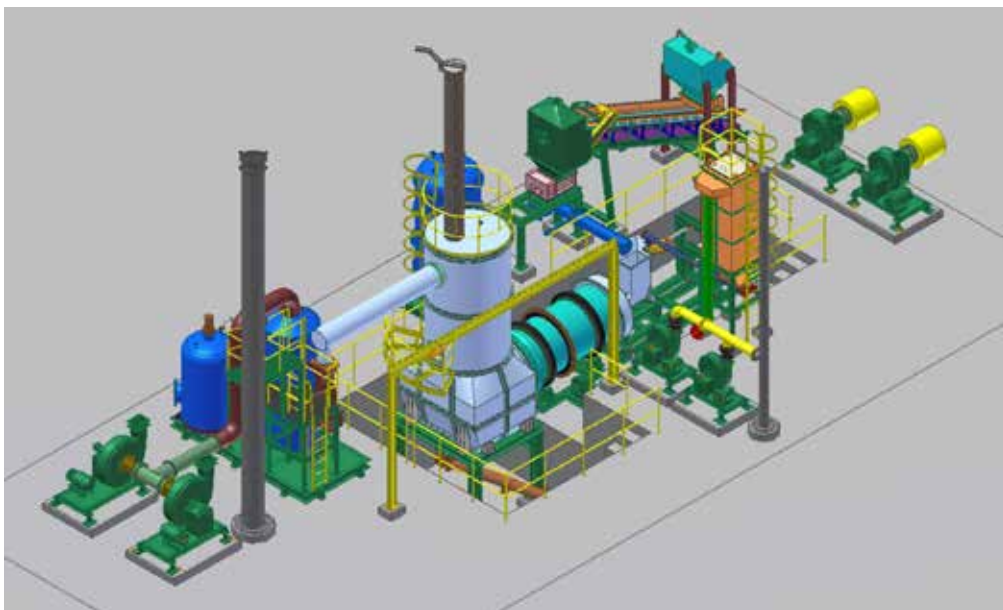


Screw Conveyors

DWA has fabricated supplied, $\varnothing 250\text{mm}$, 4 to 20m length, stainless steel screw conveyors, to overseas sewer & wastewater treatment plants. 6 Cake screw conveyors has been installed and run successfully in a dewatering station in a plant, Vietnam, since 2017, and this plant has included 2 swing and inclined screw conveyors. The swing conveyors receive cakes in a position and distribute cakes to container uniformly by automatic movement of discharging chute as above picture. DWA also produce special design of hopper equipped with 6 top and 2 bottom screw conveyors to discharge dewatered sludge, as an integral part of hopper. 2 screw conveyors are replaced hopper gate in this system.



Post combustion furnace connected to Rotary Kiln



Incinerator Plants for Hazardous Waste Treatment

DWA has fabricated and supplied 2 Incinerator plants, 100kg/h, running 24 hour per day, for solid & liquid waste treatment in Lorestan & Mahabad petrochemical plants in Iran . All EPC has been conducted completely by DWA.

DWA Incinerator plant is based on cost effective, less investment of equipment ,and resource circulation plant. The plant is consisted of drum lifters, belt & screw conveyors, crusher or shredder systems, automatic feeding system, rotary kiln, post combustion chamber, Incoloy hot gas inlet tube, Incoloy quencher, bag filter, wet scrubber, induced draft air fan, stack, forced draft combustion air fan, NaoH chemical tank, liquid waste storage tank, water circulation tank, pumps, valves, electric & instrument systems, PLC automatic control system. According to hazardous classification by customer, explosion proof motors with auxiliary equipment are applied. Either fuel gas or diesel fuel is applied. All flue gas is met to international emission standards. Fabrication, test & inspection procedures is also followed to international standard. This plant can be applied to MSW and Medical waste treatment.



Incinerator plants



Rotary kiln is the solution for complete combustion of solid & liquid waste without accumulation of waste inside of furnace. Rotation speed of rotary kiln is 1.5m/min. Inside of rotary kiln will be layered by castable refractory, which is resistant to 1,600°C.



Fabrication pictures for plant. Lower parts for post combustion chambers which are connected to Rotary Kiln, Emergency stacks, wet scrubbers, automatic waste feeding systems.

Induced and Forced air fans. Hydraulic power units for the run of automatic waste feeding system.





Gas burner installed in Rotary Kiln.



Automatic waste feeding system actuated by hydraulic power unit.



Stainless steel 304 Wet scrubber equipped with demisters, palling rings, spray nozzles, and spray pumps.



Emergency stacks installed on post combustion chamber to discharge abnormal hot gas and actuated by pneumatic cylinders.

Shipping pictures for rotary kilns and post combustion chambers to Iran customer.



Incinerator Plants

Incinerator Equipment



DWA 150, 150 to 200 kg/h of capacity. Delivered to Vladivostok Russia

DWA fabricates and supplies Incinerator Equipment for municipal solid waste, petrochemical solid and liquid wastes, medical waste, sewer sludge, and industrial wastes. DWA's Incinerators series are consisted of waste input door, 1st & 2nd combustion chambers, 1st & 2nd cyclones, ash discharge doors, dust box, 1st burner (On/Off), 2nd burner fuel controlled automatically, 1st & 2nd air fans, and PLC operation panel. Combustion and flue gas temperature is indicated on control panel. Combustion temperature in 2nd combustion chamber is controlled automatically according to set temperature on control panel. Air fans and 1st and 2nd combustion burner are interactive by programmed logic circuit. Combustion temperature is controlled and adjusted 0 to over 950°C. Very simple & economical operation and no maintenance is featured by DWA series.

Incinerator Equipment



DWA 150, 150 to 150kg/h of capacity.
Delivered to Bagdad Iraq



Features

- 1st combustion chamber is made of structural steel lined with Castable refractory, C401, GR. C
- 2nd combustion chamber is made of structural steel lined with Castable refractory, C401, GR. C
- Heat resistant temperature for Castable Refractories is more than 1,600°C.
- On/Off automatic operation burner for 1st combustion chamber.
- Proportional & automatic fuel controlled burner for 2nd combustion chamber.
- 1st & 2nd air blowers, and air controlled damper are installed on 2nd combustion chamber.
- Dust capturing by the scrubbing of 2 sets of cyclones and decrease flue gas temperature by 2nd centrifugal cyclone, SS304 & 310.
- Temperature transmitters on 1st, 2nd combustion chamber and stack.
- Very simple operation and minimum maintenance.
- So economic, cost effective, and energy saving system.
- 850 to 1250° of operation temperature.
- Temperature at 1st & 2nd combustion chamber, and stack, will be monitored at PLC panel.
- O₂, Co₂ monitoring at PLC is optional by customer.
- High heat resistance painting, Aluminum RAL 9006, is applied to the equipment.



Temperature transmitters with cable trays are installed. Provide with platform, walkway, and ladder to access.

Waste feeding door with a heat resistance sight glass.

Automatic On/Off burner for 1st combustion chamber. 1st combustion chamber burns waste.

Temperature transmitter, O2, and CO2 analyzing transmitters are installed on stack.

Automatic Proportional burner for 2nd combustion chamber to burn hot gas from 1st combustion chamber.

High heat resistance painting, Aluminum RAL9006, is applied to coat the equipment.

Incinerator Equipment

Technical Information

Model	Capacity Kg/h	Electric supply kW x Hz x P	Combustion area	Dimensions W x L x Hmm
DWA100	~150	3.5 X 50 / 60 X 3	3.7	1,670X5,000X5,800
DWA150	~200	5.5 X 50 / 60 X 3	4.8	1,800X5,300X8,300
DWA200	~250	6.5 X 50 / 60 X 3	5.1	2,000X5,500X8,500
DWA250	~300	7.5 X 50 / 60 X 3	5.6	2,200X5,800X9,000
DWA300	~500	9.0 X 50 / 60 X 3	6	2,300X6,200X10,000

This Technical Information can be modified for quality & performance improvement.



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