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SPECOL PLANT



SPECO PLANT LTD.



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The world class company in 21C with the top ranking quality and technology.

It is our great pleasure to take this opportunity to introduce Speco Plant Ltd. We, as one of the leading manufacturers and suppliers in the heavy industrial business field, are proud of customers reputation for high quality products with best performance in the business field of Iron & Steel Plant facilities, and Material Handling Equipment, which consist of stacker / reclaimer, heavy sized overhead cranes, ship loader / unloader, conveyor systems, etc. And also the business field of Environmental facilities, Large Sized Gate Valves, Cement Plant facilities, and Construction Equipment which consist of asphalt mixing plant & concrete batching plant, and products of defense Industry.

We believe that all the requirements for the our esteemed customers will be realized through our accumulated and innovated technologies from engineering stage up to completion of its installation.

As an global-leading heavy industrial facilities supplier, our ultimate goal is to be your best partner and we will do our best to secure the trust and reliance for our products.

We, Speco Plant Ltd., will be in every place where you are for creating bright future with you.

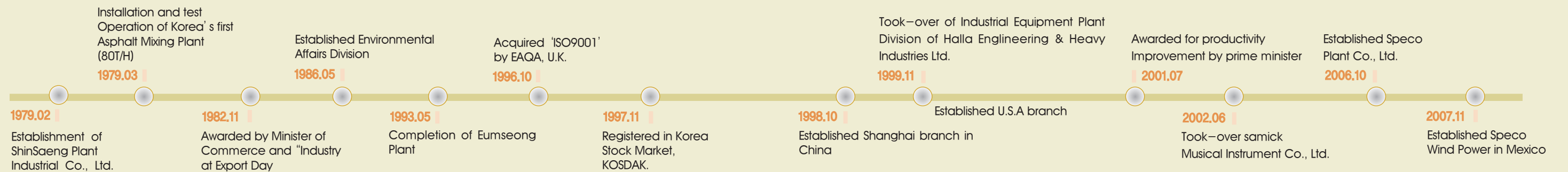
Thanks!

Kenny T. Lee



SPECO PLANT Co. Ltd creates a new era.

HISTORY



BUSINESS FIELD



Industrial Plant

■ Material handling system

- Ship Loader / Unloader
- Overhead Crane
- Gantry Crane
- Stacker & Reclaimer
- Conveyor systems

■ Iron & Steel Plant

- Blast Furnace
- ARC Furnace
- Ladle Furnace
- Ladle Turret
- Rolling Mill Equipment

■ Industrial Equipment

- Valve (Large Size)
 - Gate Valve
 - Butterfly Valve
- Autoclave
- Wind Mill Tower

Environment Facilities

- Engineering
- Flue Gas De-Sulfurization System
- De-NOx System
- De-Dioxin System
- Dust Collection System
- Dryer System
- Rotary Kiln
- RDF (Refuse Derived Fuel)
- MBT (Machanical Biological Treatment)

Defense Industries

- Ship Motion Control System
 - Fin Stabilizer
- Steering System
 - Steering gear with Rudder Roll Stabilization System
 - Adaptive Steering & Stabilization Autopilot (ASSA)
- Water Jet Propulsion System

Construction Equipment

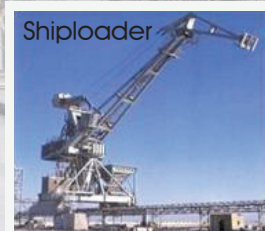
- Asphalt Mixing Plant
- Concrete Batching Plant
- Stone Crushing Plant
- Mobile Plant

Industrial Plant

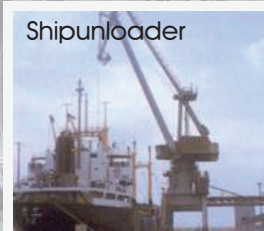
Material Handling Equipment



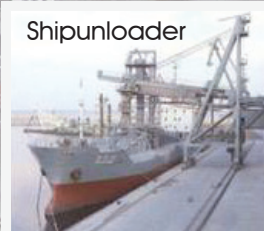
Shiploader in Youngheung-Do, Korea
Telescopic Type (Coal Ash)
Output : 500t/hr(Bulk)
Boom Length : 17.3mts.
Ship Size(DWT) : 3,000



Shiploader



Shipunloader



Shipunloader

We have more than 30 year's experience of manufacturing Industrial Plant.

And we have a wide range of systems for loading and unloading of ocean-going ships as well as canal and river barges.

These systems have been designed for the optimal and most economic bulk material handling.



Shiploader



Gantry Crane



Over Head Crane

Cranes & Conveyor System :

We also supply Cranes and Conveyor System of different models and capacities according to the requests of customers, such as Gantry Crane, Over Head Crane, CDQ Crane, Belt Conveyor System, etc.



Belt Conveyor System



Belt Conveyor System

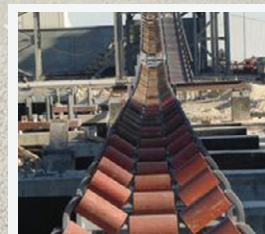
Industrial Plant

Material Handling Equipment

SPECO PLANT ranges among the world wide leading suppliers of bulk material handling stock yards and blending technology for all major industries.



Stacker & Reclaimer
(Bucket Wheel Type)



Material Handling
System
with Conveyor

We offer a wide range of reliable material handling system, which is suitable for all kinds of applications and client's special needs. Our material handling equipments and services support customers in every industrial field.

Industrial Equipment

AutoClave System

AutoClave system is used to manufacture PHC, ALC & PALC.

SPECO PLANT localized all the facilities of autoclave systems and maintains total system which contains design, manufacturing, installation, operation and A/S.

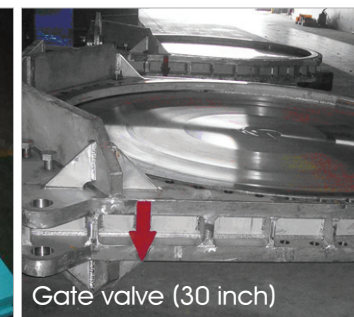
We guarantee EASY OPERATION, HIGH RELIABILITY, HIGH PRODUCTIVITY, EASY MAINTENANCE.



Special Purpose Large Size Valve



66 inch Bonneted
Knife Valve



Gate valve (30 inch)

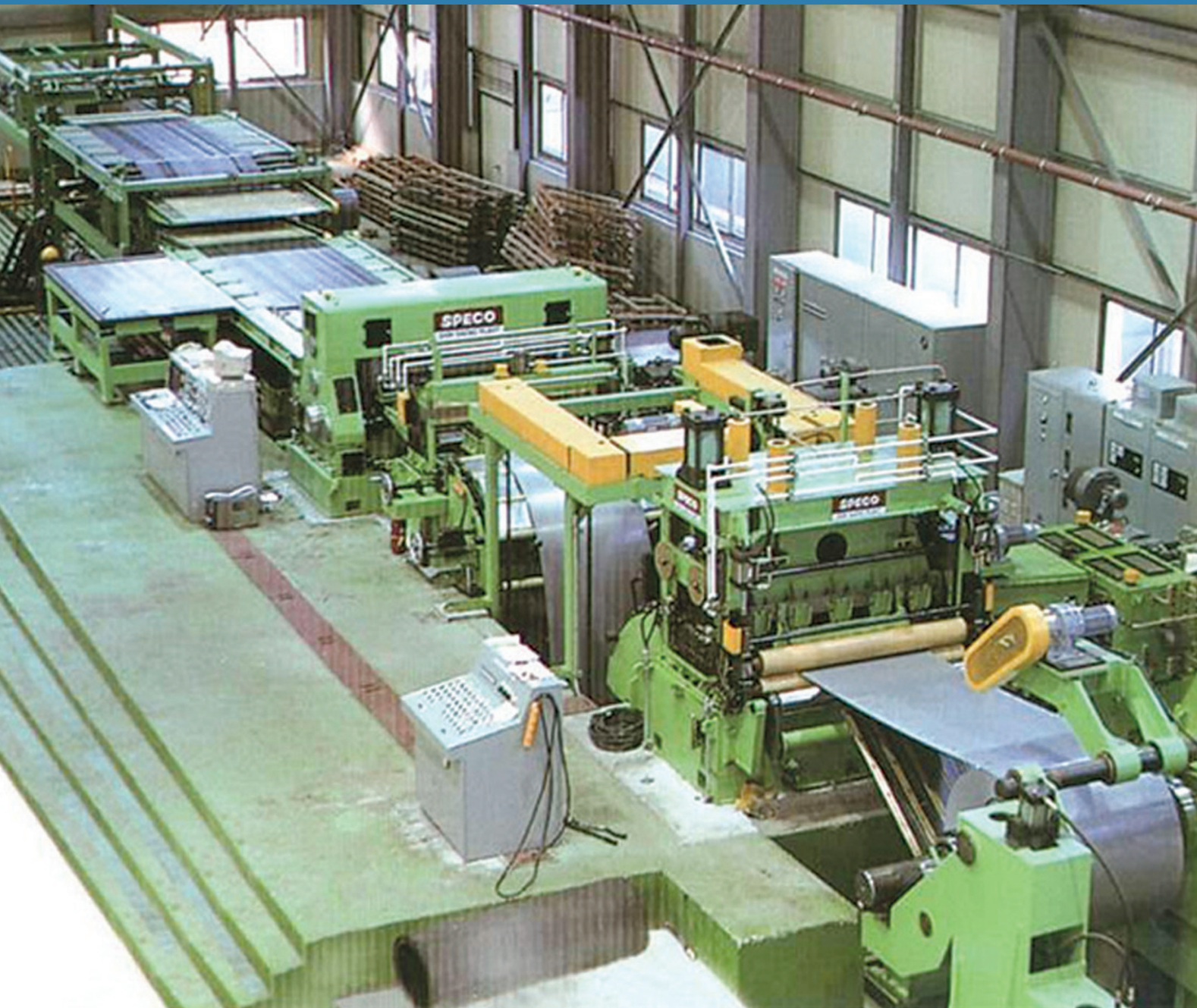


Bonneted Knife Gate
Valve (56 Inch)



Industrial Plant

■ Iron & Steel Plant



Iron & Steel Plant is working, principally, with major companies of the world in consulting, manufacturing and installing of equipments of general or particular process.



We mainly manufacture and supply the equipment of steel making equipment such as ladle turret, roller table, teeming crane, CDQ crane, transfer cars and etc.



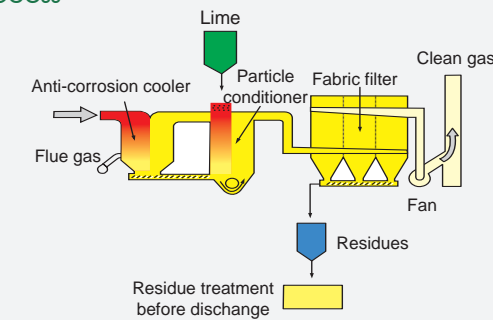
Environment Facilities

Engineering
 Flue Gas Treatment System
 FGD (Flue Gas De-Sulfurization) System
 De-NO_x System
 De-Dioxin System
 Dust Collection System
 Bag Filter (BF)
 Ventfilter
 Multe Cyclone & Cyclone
 Electrostatic Precipitation (EP)
 Dryer System
 Rotary Kiln
 RDF (Refuse Derived Fuel) &
 MBT (Machanical Biological Treatment)

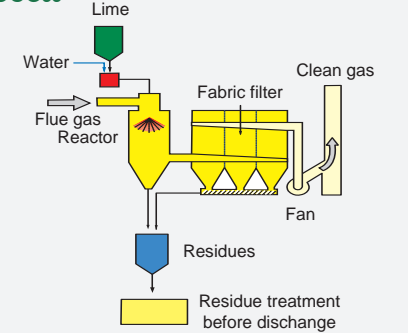
Starting with dust-collecting equipment which collects flying dust and heavy metal dust in industrial plant in 1986, SPECO has developed with technical co-operation with BELCO USA and LAB GROUP in 1994, and supplied Flue gas disposal equipment which removes Dioxins/Furans, Nitrogen Oxides, Acid Gases, Dust and heavy metals coming out while trash incineration. SPECO got over 70% of the domestic market share. SPECO has a plan to expand the business field to NEW RECYCLED ENERGY EQUIPMENT with the unique know-how we accumulated up to present.

Air & Gas Quality Control Process

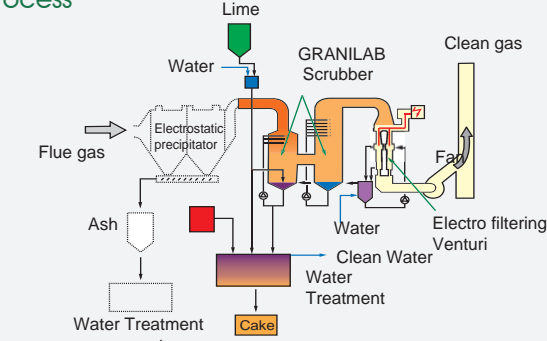
Dry Process



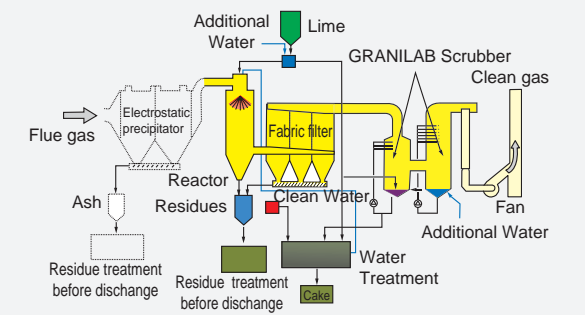
Semi-Dry Process



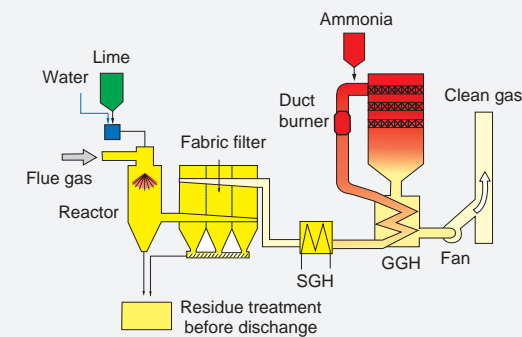
Wet Process



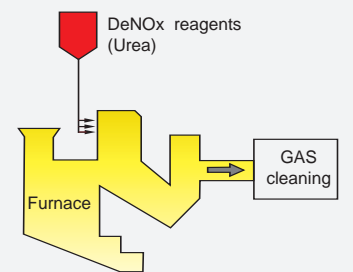
Zero Water Discharge



SCR (Selective Catalytic Reduction) Process

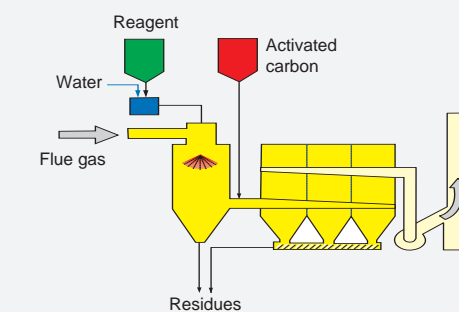


SNCR (Selective Non-Catalytic Reduction) Process

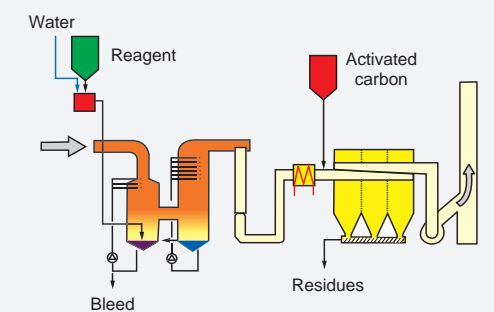


Removal & Destruction Process Of Dioxin & Furans

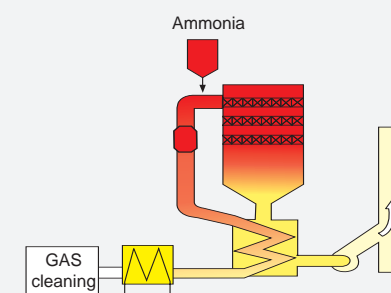
Semi-Dry Process with Activated Carbon



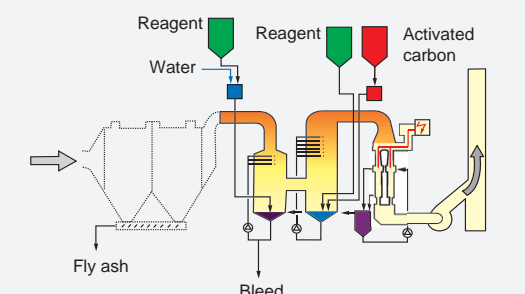
Wet Process Completed a Fabric Filter with Activated Carbon



Catalytic Process



Wet Process with Special Additived



Environment Facilities

Flue Gas Treatment System



FGD (Flue Gas De-Sulfurization) System

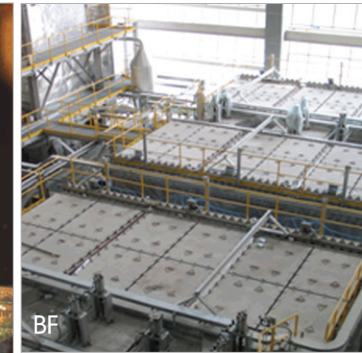
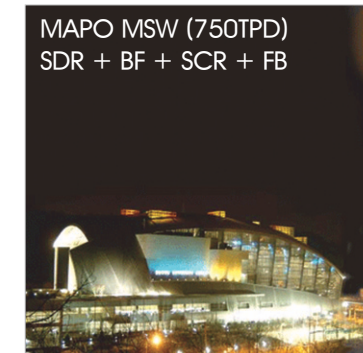
- Lime Slurry Process using the Dual Fluid Nozzle
- Lime Slurry Process using the Atomizer
- Acidic Gas Treatment using Bicarbonate (NaHCO_3)

De-Dioxin System

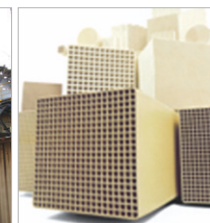
- Dry Type
- Wet Type
- Dry & Wet Type
- Activated Carbon Recycling System

De-NOx System

- SCR(Selective Catalytic Reduction) System
- SNCR (Selective Non-Catalytic Reduction) System
- SCR & SNCR System
- SCR System for Power Plant (Coal & HRSG)
- SCR System for Iron & Steel Plant



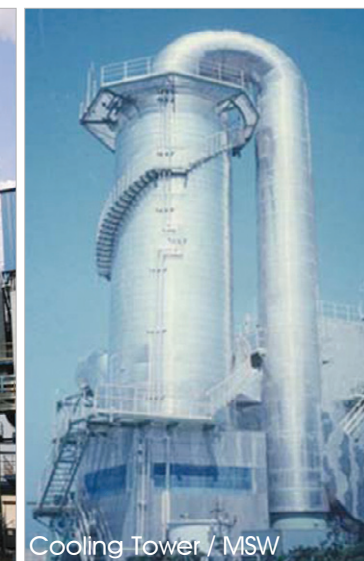
Chemical storage silo



Catalyst



Wet Scrubber / ISW
ESK(Si Haw) ISW (432TPD)



Cooling Tower / MSW
JEJU MSW (70TPD)



SCR / Iron & Steel Work
POSCO FINEX (145MW)

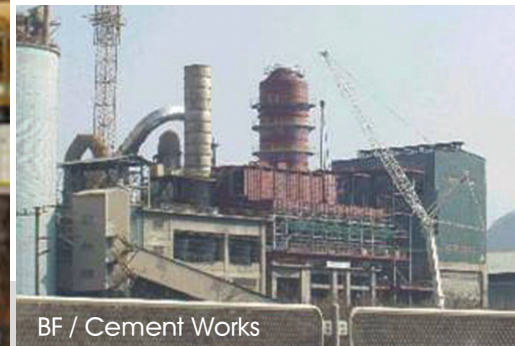
Environment Facilities

─ Dust Collection System



BF / Iron & Steel work
POSCO P1R2 BF (1,500m³/min)

- Bag Filter (BF)
 - Pulse Jet Type
 - Reverse Type
- Ventfilter
- Multe Cyclone & Cyclone
- Electrostatic Precipitation (EP)
 - Dry Type
 - Wet Type



BF / Cement Works
Sung Shin BF (11,117m³/min)



EP / Coal Fired Boiler
Gumi EP (5,145m³/min, 4,095m³/min)



BF / Power Plant
KEPCO-Samchen Po (5,092m³/min)

─ Dryer System



Paddle Dryer / Sewage Treatment Plant
Cheong Ju (1.5ton/hr)

- Paddle Dryer (Sludge)
- Rotary Dryer (Slag)

SPECO supplies the improved and high efficient dryer

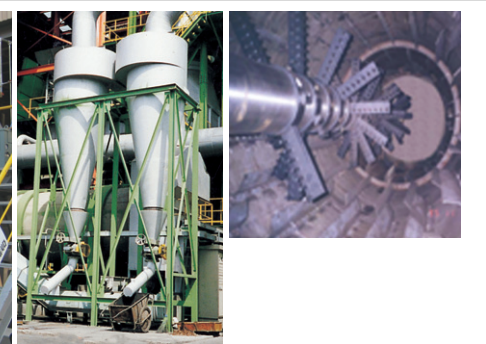
- Small area for installation
- Simple equipment
- High thermal efficiency and heat transfer
- A small carrier air supply and little dust
- Easy repair, maintenance and operating



Paddle Dryer / MSW
Gumi (3ton/hr)



Rotary Dryer / Iron & Steel Work
POSCO (12ton/hr)



Wind Tower

Construction Equipment



Speco Wind Power is expanding its capacity as the best manufacturer of Wind Tower in market of U.S.A. and Europe with the unique know-how about plant industries and experience of manufacturing wind tower. Wind Mill Tower Department is doing its best to be the best of the world in quality, technology and price.



Asphalt Mixing Plant



Concrete Batching Plant



Mobile Plant



Crusher



Mixer

Speco's asphalt mixing plants, concrete batching Plants and Stone crushing plants feature maximum capabilities and performance with their fully computerized operational system. Based on their experience, Speco continues with innovations in research and perfect quality control.



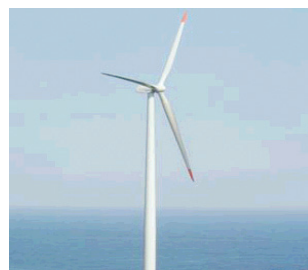
Towers for Japan Power Plant



Towers for Gangwon Power Plant



Towers for Youngduck Power Plant



Towers for Youngduck Power Plant

Defense Industries



■ Ship Motion System

- Fin Stabilizer

■ Steering System

- Steering gear with Rudder Roll Stabilization system
- Adaptive Steering & Stabilization Autopilot (ASSA)

■ Ship Propulsion System

- Large Size waterjet
- Small Size waterjet

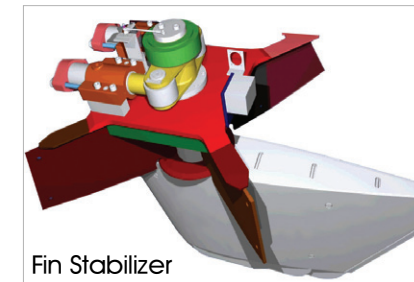
The stabilizer takes advantage of reducing the motion of the ship, especially rolling. The stabilizer system can be used yachts, ferries and passenger ships but also for container ships and large naval units. Stabilizer is operating reliably under all sea and weather conditions provide the only effective way of minimizing a ship's rolling motions.

Fin Stabilizer

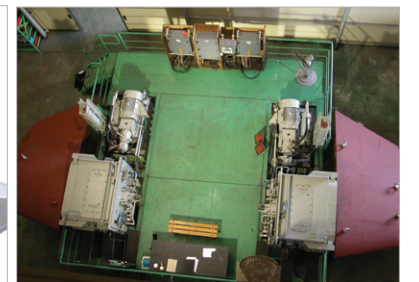
Ship Displacement

- Fixed Type = 300~10,000ton
- Retractable Type = 3,000~50,000ton

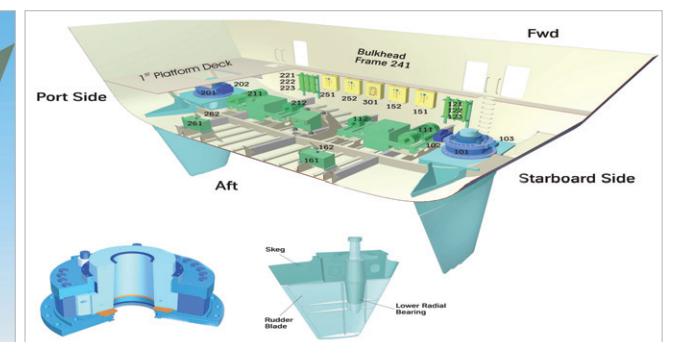
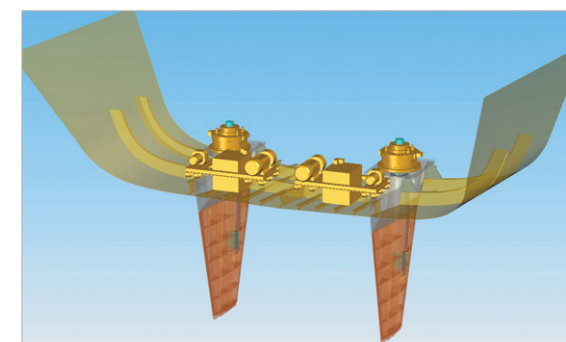
Roll Reduction Efficiency : ~90%



Fin Stabilizer



Steering Gear With Rudder Roll Stabilization System



Ship Propulsion System

Large Size Waterjet

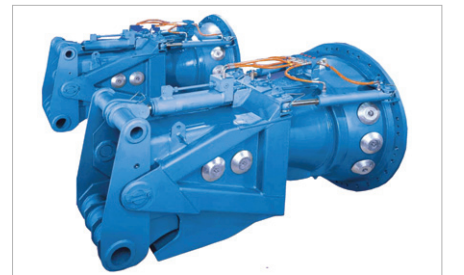
Power Rating : 1,000 ~ 22,000KW
Vessels :

- Tenders, Rescue & Pilot Boats
- Coastguard, Patrol Boats,
- Corvettes
- Very Luxury High Speed Yachts

Small Size Waterjet

Power Rating : 220 ~ 1,500KW
Vessels :

- Tenders, Rescue & Pilot Boats
- Coastguard, Patrol Boats,
- Fishing Vessels
- Small Size Yachts



Eumseong Plant of SPECO PLANT

has been completed in 1993, for producing of various kinds of industrial plant facilities equipped with the modernized manufacturing facilities and system together with high skilled manpower.



Outdoor Yard

A : Blasting Room

12mw x 30ml x 10mh (1)
35mw x 25ml x 10mh (2)

B : Painting Room

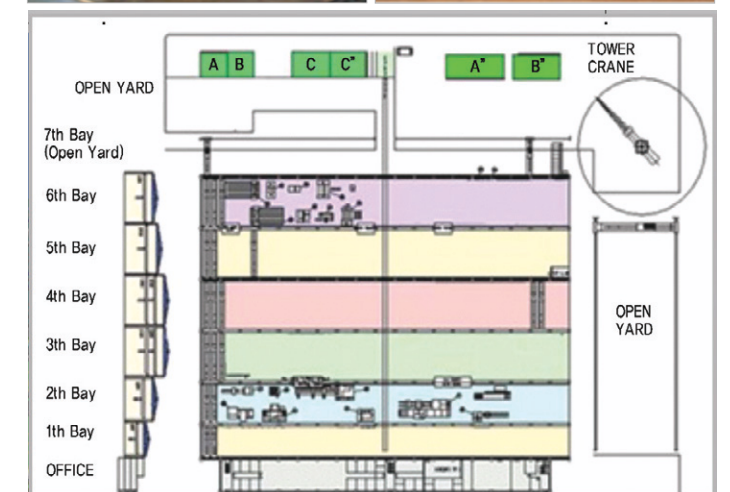
12mw x 30ml x 10mh (1)
35mw x 30ml x 10mh (2)

C : Frnace & RT ROOM

15mw x 20ml x 6mh

CNC Cutting M/C : 300t x 5500W x 27,500L
Frame Cutting M/C : 100t x 6500W x 20,000L
Shearing M/C : 19t x 4,200W
Welding Manipulator : 3 sets
– boom : 6,000 mm
– welding power : DC 1,500A
Turning Roller : 135 ton, 90 ton,
4 Roll Bending M/C : 80t x 3,600W
4 Roll Bending M/C : 25t x 3,600W
3 Roll Bending M/C : 16t x 3,600W
Press Brake : 1,200 ton
Trailer : 25 ton
Transporter : 100 ton
Forklift : 15 ton, 7 ton,
O.H. Crane : 110 tON, 75 ton,

Total Land Area : 174,000 m²
Total Floor Space : 103,600 m²
Floor Space : 48,000 m²
1 Bay : Fabrication & Assembly Area
2 Bay : Machining Assembly Area
3~5 Bay : Fabrication & Welding Area
6 Bay : Fabrication & Materail Preparation
7 Bay : Material Stock Area (Plate)
Working Area (per Bay)
: 30 mw x 228 ml x 18 mh



R&D and Quality

The value of SPECO Plant is Tecnology.

SPECO Plant is giving whole effort to customers satisfaction and marketing with continuous R&D, accumulated technology, applying patent, and developing new technology of each business part. SPECO Plant is also trying hard to obtain advanced technology by co-operation with technologically advanced country.

Quality and techonlogy of SPECO Plant is keeping up with the World-Class level. That's why Speco Plant products are widely and well accepted by customers of the world. SPECO has been obtained ISO 9001 certification since 1996.



NETWORK

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