



Coffee Bean Processing



Coffee Bean Processing

Pre-Cleaning

- Available for variety material
- Input volume adjustable
- Sorting mesh angle controller
- Low vibration and noise
- Air volume adjustment equipment
- Processing checking window



D145



D143.1

De-Stoning

- Free from damage
- Stable and efficient de-stoning
- Special coated plate
- Double sorting : Wind and Plate
- Adjustment of wind pressure
- Dust collection
- Easy installation, minimum space



DVS-6000



DVS-8000



DWSH-20S

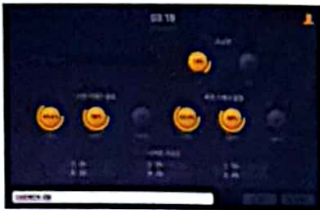
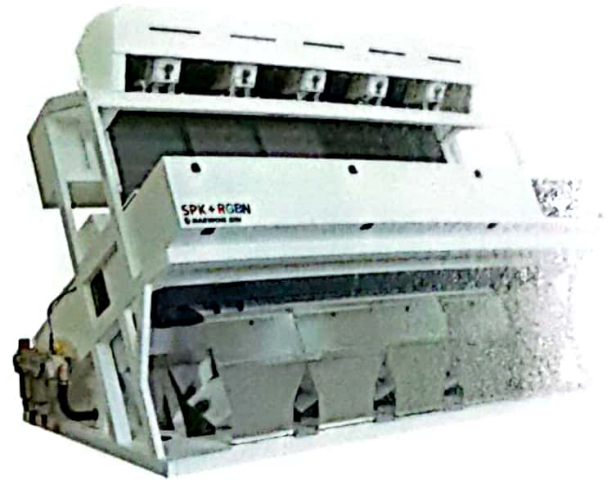


DWSH-20D

Color Sorter (Full Color)

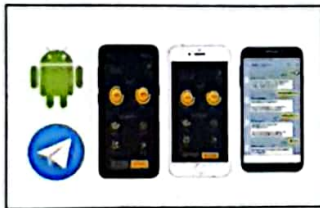
BEST TECHNOLOGY FULL COLOR SORTER

- UHD Class resolution camera recognize 16 million Colors.
- Recognize defects until 0,015mm.
- Long life time Ejector
- Quick service system with remote control.
- Self WIFI adaptor built-in.
- Huge capacity (Max 15 ton/hour)



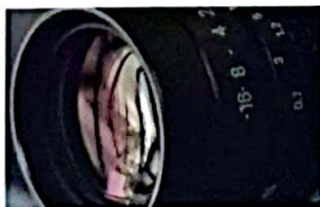
ANDROID SYSTEM

- Adopted Android System
- Touch Panel. Rapid & soft control.
- Automatic System Update.
- Simple UI design.



REMOTE CONTROL

- Remote control by TELEGRAM Messenger.
- Alert Alarm & Monitoring Service.
- Simple UI design.



NEW TECH RGBN CAMERA

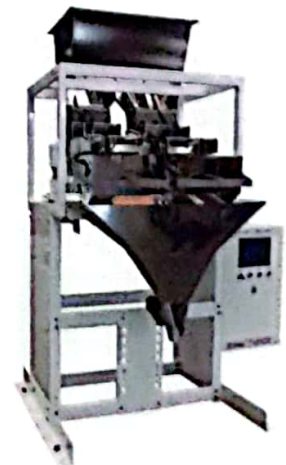
- Sorting foreign material
- Sorting ALL the defects of Coffee.
- INSECT, SMALL SPOT, STONE, VINYLE, GLASS, etc.

Weighing

- Free from damage by vibrating feeder
- Touch screen control panel
- Good durability and easy cleaning
- Reliable weighing
- Memorable weighing conditions



DSS-05A(1stage)



DSS-03AST(2stages)

Sorting Sample



Specifications

MODEL		SIZE (W×L×H mm)	INPUT to M/C (Ton/Hour)	POWER (KW)	Comp. POWER (H/P)
Pre-Cleaner	D143.1	3030×1913×2245	20	3	
	D145	3250×2280×2890	30	5.25	
De-Stoner	DWSH-20S	765×1085×1010	1	0.4	
	DWSH-20D	1410×1200×1110	2	0.75	
	DVS-6000	2115×1715×2010	4-5	2.6	
	DVS-8000	2115×2345×2010	6-7	2.6	
Color Sorter	SPK+C1	900 X 1400 X1770	1-3	2.0	10
	SPK+C3	1600 X 1400 X 1770	3-9	3.0	20
	SPK+C5	2400 X 1400 X 1770	5-15	4.5	30
Weighing	DSS-05A	weighing range 50g~5Kg	8~15 bag/min	220V, 60Hz, 0.3kw / machine	
	DSS-03AST	weighing range 50g~3Kg	8~15 bag/min		
	DDS-25AST	weighing range 100g~30Kg	6~11 bag/min		

* The specifications and designs can be changed without any notice. The capacity depends on impurity ratio. * Compressor, Air dryer, Cooler(option)

* DAEWON GSI reserves the right changing equipment circuitry design, specifications, features, external design, dimensions and functions without any prior notice, for promoting the quality of the products

Processing Flow



INPUT



Elevator & Dust Collection



Material Silo



Automatic Controller



Pre-Cleaner



De-Stoner



Color Sorter



contaminant sorting



contaminant sorting



chute flow



optimal sorting



elevator



Product Silo



Magnetic Separator



Weighing



Packing



Vacuum Packing



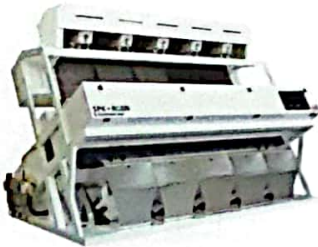
Paper Packing

WE'RE ALWAYS LOOKING FOR THE FUTURE & GLOBE

DAEWON GSI's products represent the best in the manufacturing excellence. Our research and development departments utilize the most current computer technology available. State-of-the-art equipment combined with accumulated experience ensures that our customers receive unsurpassed quality.

DAEWON GSI adheres to one clear and simple goal : the customer must be completely satisfied. From initial contract, to delivery, to future service - we guarantee accessibility, professional expertise and meticulous attention to detail.

DAEWON GSI's most efficient Sorter Series



SPK+ series



NANTA KB+ series



CCS series



NANTA-XPEDIA+ series

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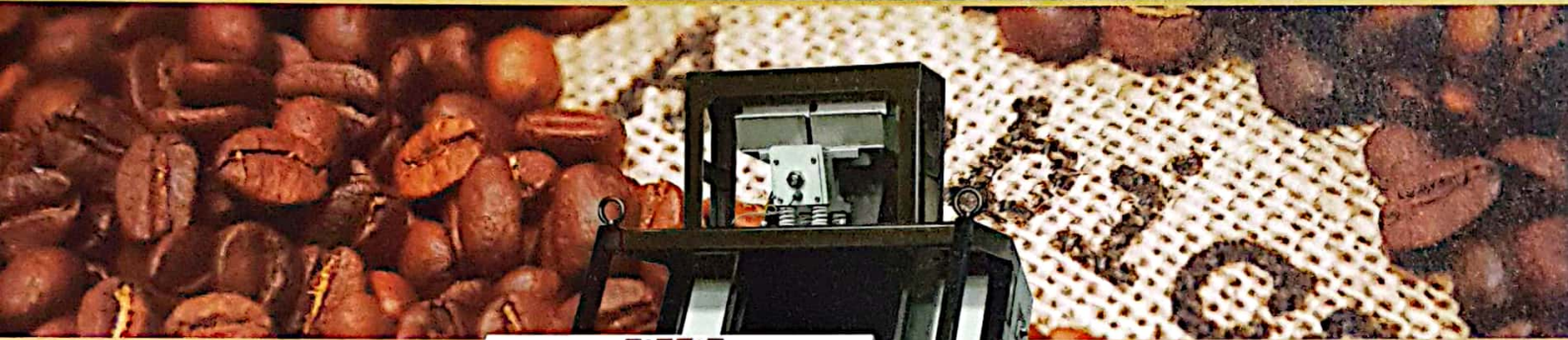
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COFFEE Color Sorter

Full Color



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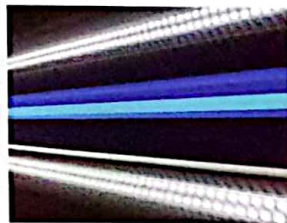
BEST TECHNOLOGY FULL COLOR SORTER

- 16million color recognition with 24bits TRUE COLOR sensor(RGB camera)
- Enhanced defect detection(0.14mm→0.07mm) from high resolution sensors
- Current automatic image correction technology adopted
- Center tracing of defective material makes accuracy rejection
- High Capacity



RGB CAMERA

- RGB sensor realizes Full Color
- Less noise and swift respond meet high speed processing
- High resolution of 4096pixel
- Enhanced resolution prior 0.14mm to 0.07mm



LED

- High luminant LED module with 30% of enhanced intensity
- Adopting ALC(Auto Lighting Control) and widening color expression
- Keeping normal brightness and extending the life, removing noise
- Minimizing the effect of heat and frequency



UI

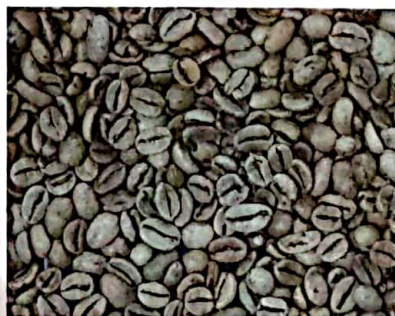
- Easy and stable control
- multi-languages applied

Sorting Samples

material



accept



reject



model	Dimensions (W×L×H mm)	Input to M/C (ton/hr)	Power (kW)	Comp.Power (kW)	Camera
SPK-1C	760×1400×1750	1~3	1	5	full color
SPK-3C	1600×1400×1770	4~12	3	20	full color

* The specifications and designs can be changed without any notice. The capacity depends on impurity ratio. # Compressor, Air dryer, Cooler(option)



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SPARK **R****G****B**-**C**



“OPTICAL SORTER”
“FOR **SPECIALTY COFFEE**”



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SORTING SAMPLES



■ HYBRID RGBN CAMERA

- UHD Class resolution recognize 16 million colors
- DAEWON's Outstanding Camera : RGBN

■ High Luminance LED

- Super durability & stability

■ UI

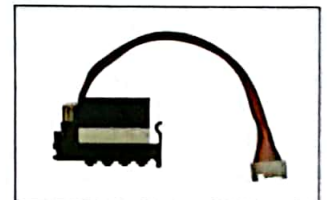
- ANDROID SYSTEM is applied
- Enable to Remote control by Mobile phone

■ EJECTOR

- EJECTOR is optimized to Coffee

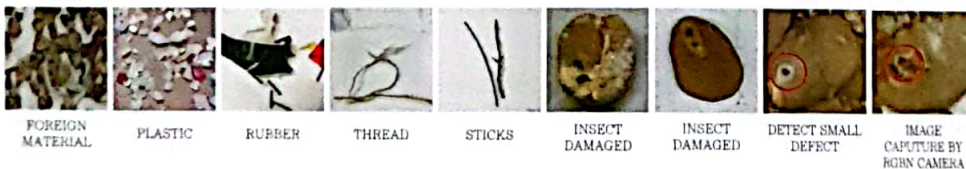
■ ADVANTAGE

- Detect ALL kinds of COFFEE defects. (Broka, Discolored, Impurities, etc)
- Detect invisible defects of COFFEE.
- Semi-permanent duration.
- Stable at any environment.
- Easy to upgrade Program.
- Control by Mobile messenger.
- Monitoring & Alarm service.
- Fast and accurate shooting reduce a waste of product.
- All kind of Coffee is applicable.



🔒 KEY POINT

- 🔧 Specialized in "Specialty Coffee" production.
- 🔧 Control by "Mobile Phone"
- 🔧 Reject all the defects "Simultaneously"
- 🔧 Sort insect bite



	Measurement	RGB-C	RGB-CN
Channels	-	32	32
Camera	-	RGB	RGBN
Impurity sorting function	-	-	o
Light	-	LED	LED / IR LED
Dimension	L x W x H	920 x 540 x 1200	920 x 540 x 1200
Power Consumption	Kw/hr	Ave 0.7 / Max 1.5	Ave 0.7 / Max 1.5
Capacity	Ton/hr	0.3 ~ 1.0	0.3 ~ 1.0
Required power	-	Ac 220V, 50/60Hz Single phase	Ac 220V, 50/60Hz Single phase

* The specifications and designs can be changed without any notice for improving quality of products.
 * The capacity depends on input impurity ratio.



COFFEE COLOR SORTER

SPK+ RGBN



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Upgraded Features

- UHD Class resolution camera recognize 16 million Colors.
- Recognize defects until 0,015mm.
- Long life time Ejector
- Quick technical service with remote control
- Self WIFI adaptor built-in.
- Huge capacity (Max 15 ton/hour)



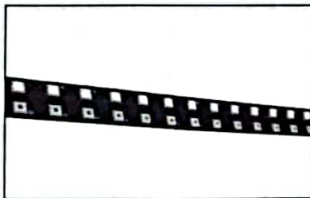
ANDROID SYSTEM

- Adopted Android System
- Touch Panel, Rapid & soft control.
- Automatic System Update.
- Simple UI design.



REMOTE CONTROL

- Remote control by TELEGRAM Messenger.
- Alert Alarm & Monitoring Service.
- Simple UI design.



LED

- IR LED Semi-permanent Life time.
- High illuminance LED.



NEW TECH RGBN CAMERA

- Sorting ALL the defects of Coffee.
- Sorting foreign material
- INSECT, SMALL SPOT, STONE, VINYLE, GLASS, etc.

Model	Dimensions (W×L×H mm)	Input to M/C (ton/hr)	Power (kW)	Comp.Power (hp)
SPK+1	900×1400×1770	1~3	2.0	10
SPK+2	1600×1400×1770	2~6	2.5	15
SPK+3	1600×1400×1770	3~9	3.0	20
SPK+4	2400×1400×1770	4~12	3.5	25
SPK+5	2400×1400×1770	5~15	4.0	30

* The specifications and designs can be changed without any notice. The capacity depends on impurity ratio.
 * Compressor, Air dryer, Cooler (Option)

SPK+ RGBN / Your Smart Choice for Coffee

NEW
TECHNOLOGY
DAEWON
RGBN
CAMERA

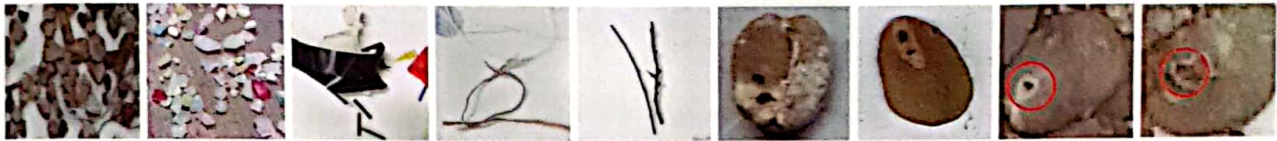
RGBN : DETECT ALL OF DEFECTS



MATERIAL

ACCEPTED

REJECTED



FOREIGN MATERIAL

PLASTIC

RUBBER

THREAD

STICKS

INSECT DAMAGED

INSECT DAMAGED

DETECT SMALL DEFECT

IMAGE CAPTURE BY RGBN CAMERA

Sorting Sample

ARABICA



ARABICA



ROBUSTA



ROBUSTA



MATERIAL

ACCEPTED

REJECTED

ENG ver. [IA504]



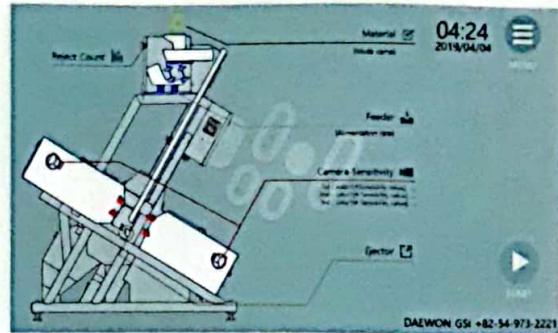
Optical Sorter IA504

Remarkable Sorting Sensor Technology
(simultaneous sorting by color, shape & contaminants)



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Simultaneous sorting grain of discolored and crushed.
 Ultimate resolution camera & Impurities sorting
 (7k camera, RGBN camera, InGaAs camera : optional)
 Easy control with User-Friendly Interface-Android system.
 Remote control by Android smart phone.
 Automatic error detection function.

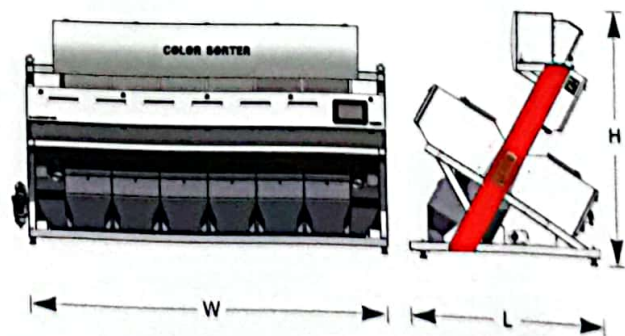


Feature

- 504 Eject channel - High capacity (20% more than before)
- Increases product yield - with the most accurate and effective detection abilities.
- Improves process efficiency - through smart system connectivity(Android) and access to digital data for your product.
- Delivers lowest total consumption but the highest performance - through low maintenance requirements.
- Reduces labor costs - through easy operation and fuction to run unattended during normal production.

SPECIFICATION

Model	IA504
Dimensions (WxLxH mm)	3000x1500x1763
Input to M/C (ton/hr)	7 ~ 24 t/hr
Power (kW)	4.5
Comp.Power (hp)	35












* The specifications and designs can be changed without any notice. The capacity depends on impurity ratio.
 * Compressor, Air dryer and Cooler are optional.

Our Perfect Coverage, Almost cereals and recyclable materials can be sorted

IA504 CAMERA OPTION

CONTENTS	RGB	NEW RELEASE HIGH-7K RGB	RGBN	NEW RELEASE SPECTRAL	InGaAs
Resolution	5K(UHD CLASS)	7K (Ultimate Class)	5K(UHD CLASS)	7K(Ultimate Class)	1024
Sorting size up to ~	0.14mm	0.07mm	0.14mm	0.07mm	0.3mm
Selection by color	SUPPORTED				UNSUPPORTED
Selection by shape	SUPPORTED				UNSUPPORTED
Impurity selection	Unsupported	Unsupported	Supported	Unsupported	Supported
Feature	High resolution Full color camera, Enable to distinguish 16million colors	Ultimate resolution Brand new Full color camera. High-speed capture, Realizing High-definition High-sensibility	Color selection & Impurity selection	*Sensitivity Control of each defect type *Whiteness Control.	Material selection by rate of Humidity
Sorting material	General color defect (Cereals, Grains, Tea, Coffee, Plastic, Seed etc)	Pin-hole Coffee, Light chalky, tiny point and General color defect (Cereals, Grains, Tea, Coffee, Plastic, Seed etc)	Color selection & Impurity selection at the same time (Coffee, Cereals, Grains, Tea, Tabaco, cacaohips etc)	Chalky, White Rice Simultaneous Sorting Supported, User can choice what he want to sort by one touch.	Enable to distinguish all defects that has same color with material. (Polymer, Cascarilla, Vinyle, Glass, Metal, Rubber etc)

RGB SORTING SAMPLE













	Material	Accepted	Rejected
glutinous rice			
wheat			
mung bean			
sesame			

SPECTRAL

WHITENESS SORTING



RGBN&InGaAs SORTING SAMPLE

	Material	Accepted	Rejected	IMPURITY SORTING
rice				
adzuki bean				
coffee				



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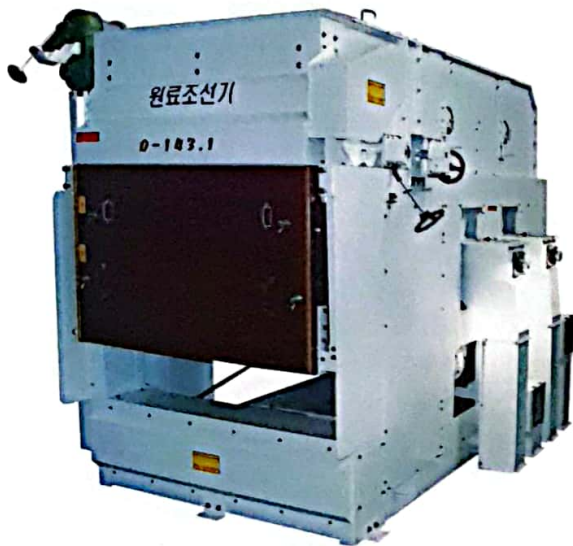
| HQGDS | High Quality Grain Drying System



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Pre-Cleaner

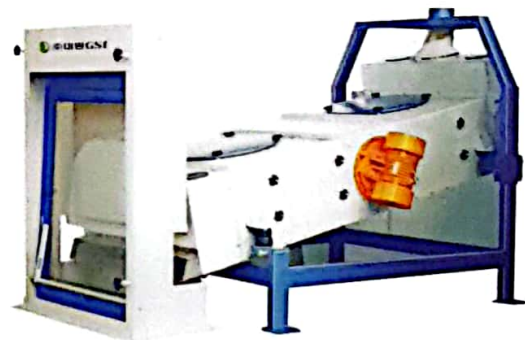
Sort small sand and straw



▲ D143.1



▲ D145



▲ DWPC-1200

- Available for various material
- Input volume adjustable
- Sorting screen angle controller
- Convenience to change screen
- Air volume adjustment equipment
- Processing checking window
- Low vibration and noise

Specifications

Model	D145	D143.1	DWPC-1200
Size (L×W×H)mm	3244×1985×4860	3012×1913×4100	2955×1470×2130
Capacity (ton/hr)	30	20	10~15
Power (kW)	5.25	3	0.75
Air volume (m³/min)	190	190	120
Remarks			



Continuous Grain Dryer

The continuous grain dryer was developed by DAEWON GSI's special accumulated technology. The dryer guarantees low cost drying process and quality grain output. The special structure does not allow any heat loss and any air pollution into surrounding environment.



▲ DCE-6



▲ DBE-6



▲ DAE-10.5

Specifications

Model	DAE-10.5	DAE-6	DBE-6	DCE-6
Size (L×W×H)mm	10341×8392×19737	7668×5790×16356	6608×5720×16356	5358×5650×16356
Batch (ton)	55	38	20	12
Capacity (ton/hr)	40	20	12	7
Power (kW)	97.5	51.5	32.5	17
Drying Rate (%/round)	2.5~3.5	2.5~3.5	2.5~3.5	2.5~3.5

- Various grain drying(corn, wheat, bean and etc)
- High efficient and quick drying
- Uniform drying
- Suitable for high quality grain production
- Flexible discharge of cubic volume
- Full automatic working
- Easily modified to existing plant
- No heating air loss
- Improving rice taste

Components



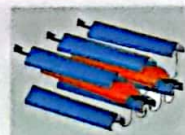
▲ turbo cleaner



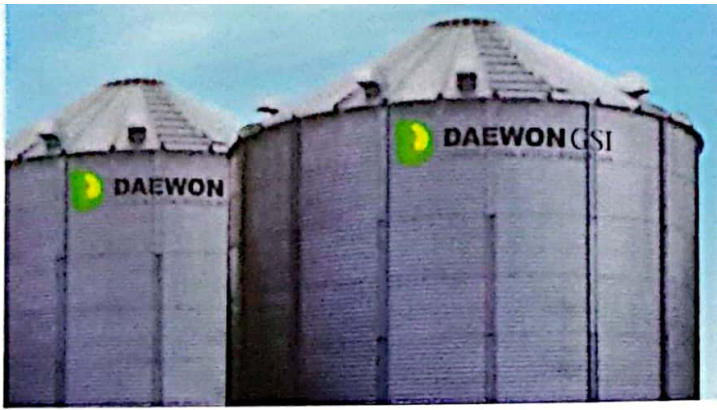
▲ E : discharge,
I : suction



▲ burner
& heat exchange



▲ uniform drying



◀ Flat Silo



▲ HOGDS (Jung-mi DSC)



▲ HOGDS (Chung-gu RPC)

Silo

Paddy storage and drying

- Hat-shaped stiffners
- Sturdy structural roof
- Designed to seismic condition
- Optimum strength of wall panel
- Even tension ring

Specifications

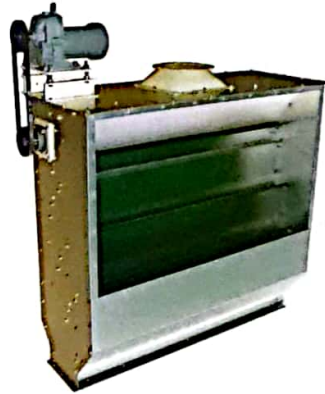
Model	11 x 6	11 x 8	13 x 7	13 x 8
Size (LxWxH)mm	Ø11,000x9,042	Ø11,000x9,042	Ø13,000x10,672	Ø13,000x11,672
Capacity (ton/hr)	310	430	510	600
Power (kW)	28.2	35.7	44.7	44.7

Wind Separator

Separation by wind and gravity

Specifications

Model	DWC-300	DWC-200
Size (LxWxH)mm	1533x885x1696	1533x885x1417
Capacity (ton/hr)	20~30	20~30
Power (kW)	0.75	-
Option	fan	fan

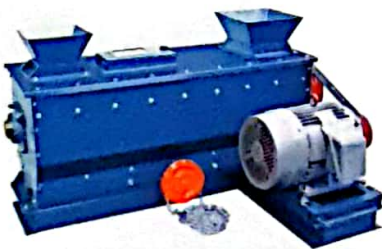


- Spread the material uniformly
- Simple separation by wind and gravity
- Compact design and strong structure
- Easy maintenance

De-Awner

Rethresh, remove impurity and dust

- Discharge volume controller
- Straw removing by special steel
- Perfect threshing
- Threshing regardless of paddy condition



Specifications

Model	D184
Size (LxWxH)mm	1530x1000x680
Capacity (ton/hr)	10~20
Power (kW)	7.5

Magnetic Separator

Remove the iron content material

- Durable structure
- Easy operation
- Easy setting & cleaning by chute type

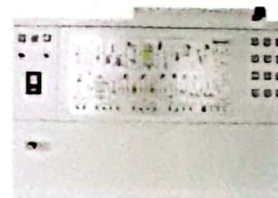


Specifications

Model	DMS-400
Size (LxWxH)mm	Ø380x512
Capacity (ton/hr)	5~30
Power (kW)	-

Control Panel

Control of all system



- Graphic display of the total processing flow
- Centralization of the electric load of individual machine
- Safe check of electricity
- Automatic processing by PLC
- Easy extension at more establishment

Component Connection



A De-Awner

Rethresh,
remove impurity and dust



B Pre-Cleaner

Sort small sand and straw



C Hopper Silo

Tempering & Storage of
Dried Rice



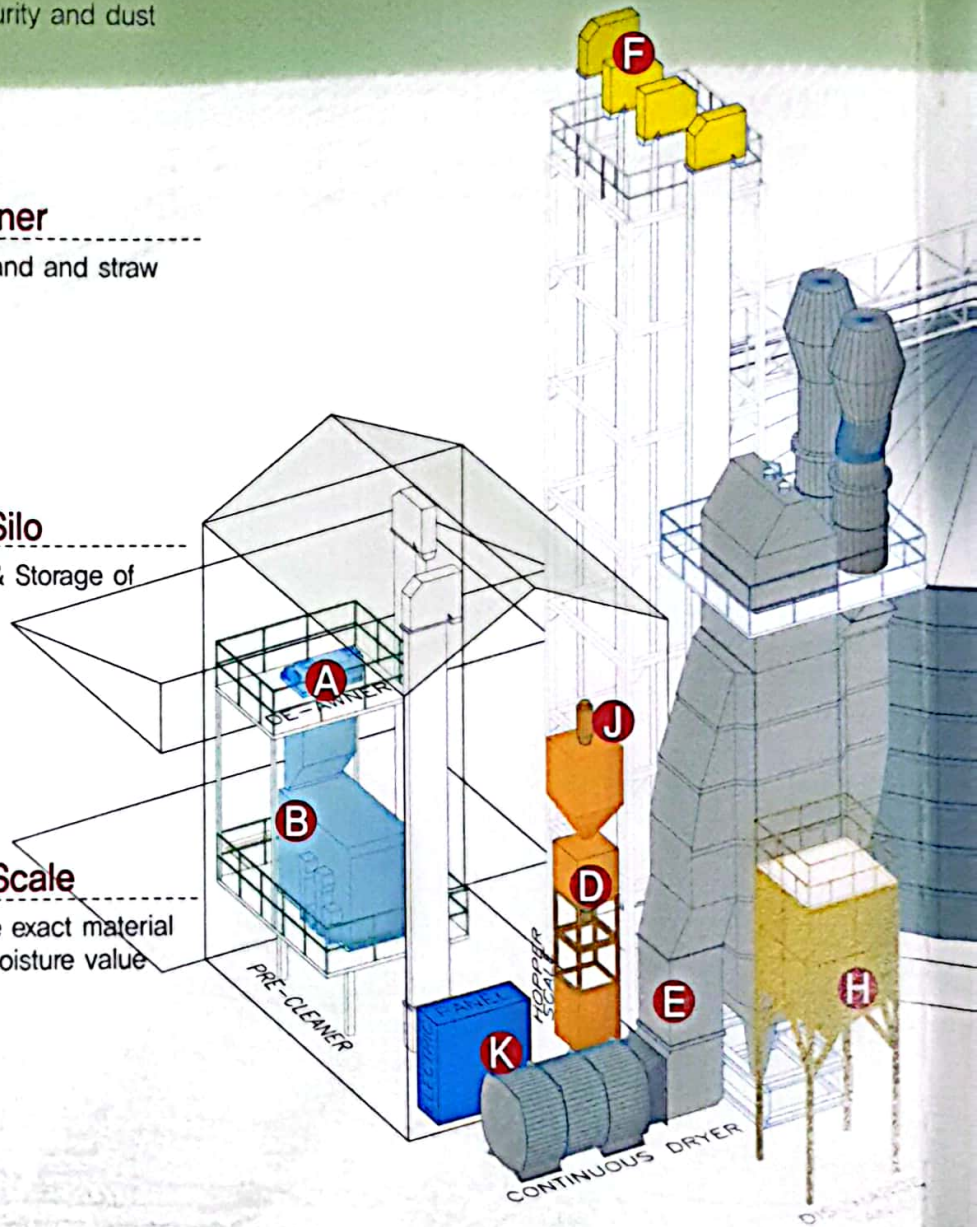
D Hopper Scale

Measure the exact material
volume & moisture value



E Continuous Grain Dryer

Remove inner moisture of paddy



Connection Configuration (HQGDS)

Bucket Elevator / Chain Conveyor **F**

Conveying many kinds of grains like paddy, brown rice and white rice



Silo **G**

Paddy storage and drying



Ton-Bag Scale **H**

Weighing the material



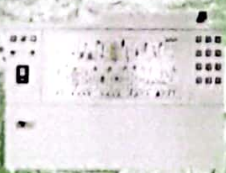
Management Control System **I**

Manage the grain drying and storage



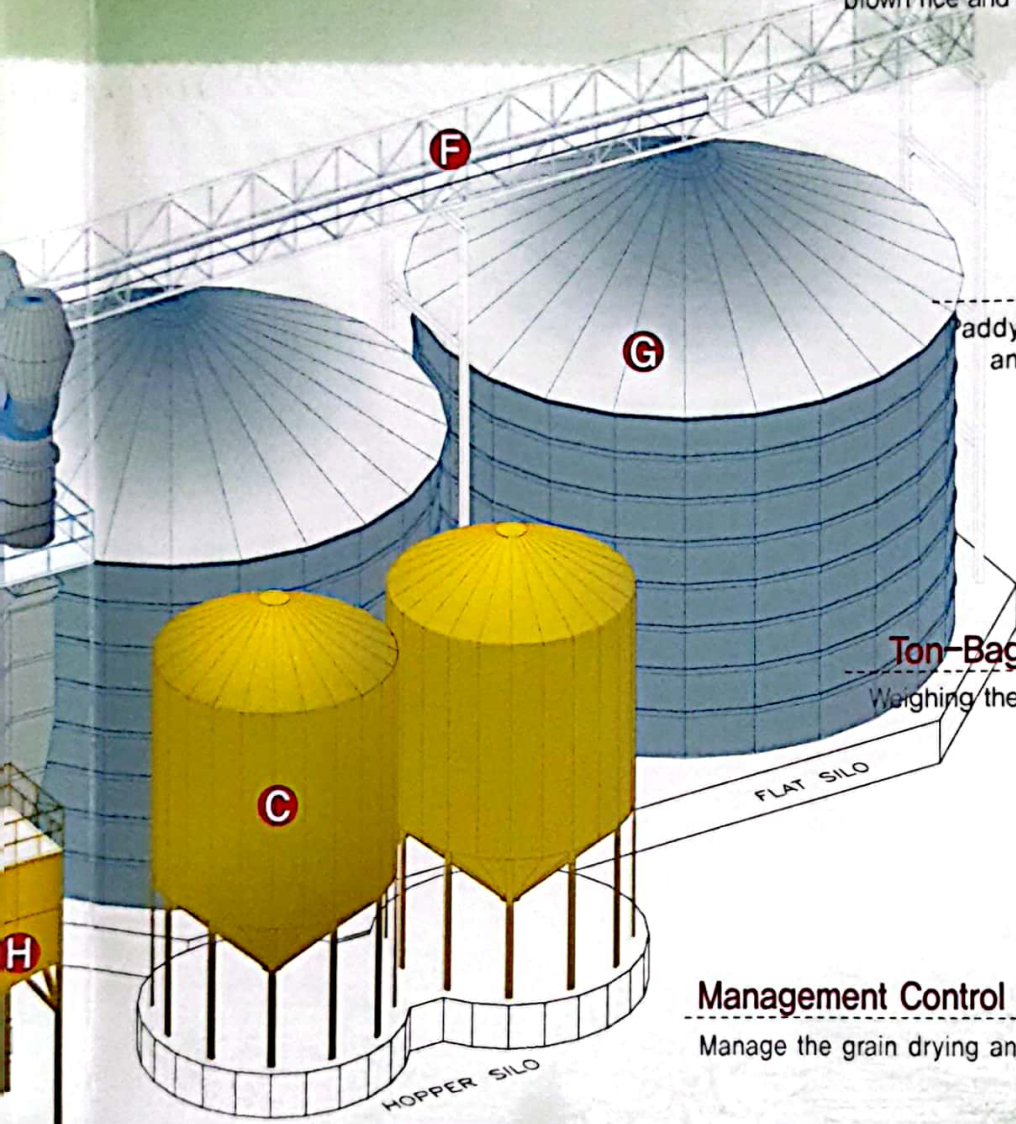
Control Panel **K**

Control all system



Magnetic Separator **J**

Remove iron content material





Hopper Silo

Tempering & Storage of Dried Rice

- Strong stiffeners
- Dual access door
- Rectangular type wall panel, perfect structure using the special curving machine
- Easy discharge, safe operation

Specifications

Model	Ø5 x 4~16H	Ø7 x 4~16H	Ø9 x 4~16H
Capacity (ton/hr)	60~200	130~410	230~700
Roof System	30° Slope		
Hopper Angular	45°	45°	40°
Fan(kW)	2.2 ~3.7		
Remark			

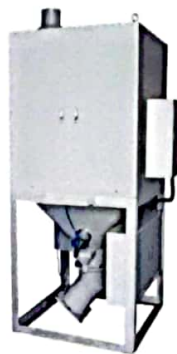
Hopper Scale

Measure the exact material volume & moisture value

- Suitable to paddy, wheat and barley
- Prevent paddy damage
- Excellent sample taking
- Perfect management of input material
- Remote control
- Simultaneous indication of average and present value



▲ DHS-150



▲ DHS-100



(MMI system)

Specifications

Model	DHS-100FRM / DHS-100RMW / DHS-100RM
Size (LxWxH)mm	950x950x2530
Capacity (ton/hr)	10 ~ 35
Power (kW)	0.75
Remark	

Management Control System

Manage the grain drying and storage

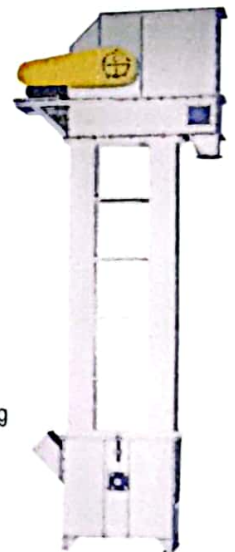
- Management by DAEWON GSI-developed program
- Remote-control system
- Issue purchase ticket by key-touch
- Status of total purchased data by daily, monthly & yearly
- Management of whole weighing system in rice mill



Bucket Elevator

Vertical transport of grains

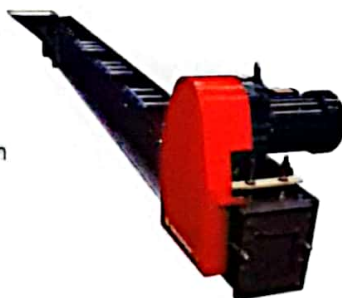
- Belt tension controller
- Intake volume controller
- Windows for checking the outlet
Rice protector & rubber coating
- Upper and lower belt drum for protecting from slipping
- Reverse rotation prevention



Chain Conveyor

Conveying the grains

- Urethan conveying plate
- Chain tension controller
- Guide roller for chain tension
- Waterproofing cover



Tonbag Scale

Weighing the material



- Printing function on weighing value
- Stock control & management through data transmission
- Remote control system operated during driving on the fork-lift