



Patent acquired! New product launch – fine dust reduction system

Wheel dryer(fine dust reduction system)

Energy-saving ROLL type PORTABLE AUTOMATIC TIRE WASHER

Customer Service 053-623-2580 (Inquiry)

Patent registration application No.2014-0023092

Patent registration application No.2014-0096357

Utility model application No.1 8 3 8 1

Utility model application No.8 9 2 0

Design registration application No.1 4 6 7 7

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DONG SEO

PORTABLE AUTOMATIC TIRE WASHER & DRYER



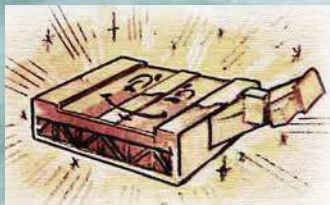
KS A9001/ISO9001-14001
CERTIFICATION COMPANY



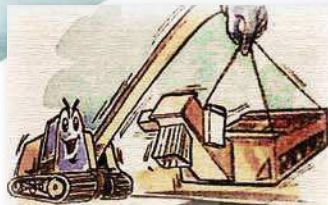
|주|디에스·동서세륵기
DONGSEO PORTABLE AUTOMATIC TIRE WASHER

Clean environment, That's the origin of life!

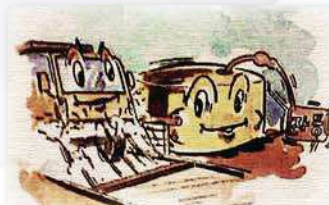
DONGSEO PORTABLE AUTOMATIC TIRE WASHER Co., Ltd. a company that **commits itself to a promise** to clients while building up **clients' trust**, with the belief of 'Technology is the highest priority'.



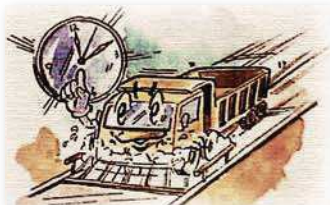
Preparing to install Dongseo
Portable Automatic Tire
Washer



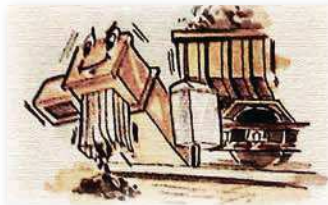
Installing Dongseo Portable
Automatic Tire Washer



Simultaneous washing process of the front wheel and front lower part



Simultaneous washing process of back wheel and back lower part



Automatic discharge of precipitated sludge



Advancement of a wheel washing finished vehicle

Production items

Portable automatic tire washer · Wheel dryer · Removable iron pit · Detritus tank
Sludge box · Vehicle weighing scale · Precipitant · FA business department



|주|디에스·동서세륜기
DONGSEO PORTABLE AUTOMATIC TIRE WASHER

Human First, Technology Innovation

DONGSEO PORTABLE AUTOMATIC TIRE WASHER, distinctive!



Reasonable product innovation- now you experience different product selection criteria.

1. The machine is "scattered dust prevention system" applied by enforcement of atmosphere environmental protection law article 58 clause 4.

2. Fully automatic wheel wash system

It is an ultra-high speed washing method by the automatic detection device sensing car moving in and out. An evenly arranged nozzle simultaneously washes the inner and outer wheels of a vehicle as well as undercarriage. Fully automatic wheel wash system achieves absolutely effective performance in optimal time.

3. Strength design considering durability

- 1) All parts are assembled in use of KS standard products.
- 2) Especially, the main frame is designed to prevent rusting with sanding paint after automatic welding of co2, considering the fact that it is used underwater, and it is designed to ensure sufficient strength even when using it after moving to another site after using it.

4. Self-circulating water supply system

The high-performance underwater pump installed in the PORTABLE AUTOMATIC TIRE WASHER automatically circulates water in the tank, and automatically replenishes the amount of water consumed by the water supply system; it can be operated at optimum conditions at all times.

5. Automatic sludge discharger

- 1) The Power Conveyor built in the washer runs for approx. 3~10minutes, and automatically discharges the deposited sludge. Since the shaft has to be operated for a long time, the S45C is used so that the life of the machine is long lasting.
- 2) The rubber plate that scrapes the deposited sludge is made of special materials to increase wear resistance for longer life expectancy.

6. Perfect and fast customer service

We, Dongseo PORTABLE AUTOMATIC TIRE WASHER, do our best to provide prompt customer service across the whole nation to satisfy customers under the motto of 'human first technology innovation'.

Application area

It is suitable for work sites such as residential construction area, apartment building area, road construction, cement / ready mix concrete plant, landfill and other private sector construction (where scattered fine dust is generated).



DONGSEO PORTABLE AUTOMATIC TIRE WASHER

Dongseo Portable Automatic Tire Washer and DS Co., Ltd. responsibly practice the promise made to customers.

Wheel dryer

DSD-610

Fine dust reduction system

Washing Water Drying Apparatus For Construction Vehicle

- Urban civil construction sites of high civil complaints
- Busy roads exposed to traffic pollutants and where water leaks in the winter
- Removing residue with high-pressure air
- Full automatic operation by wheel detection



| Patent obtained |

Washing water removed

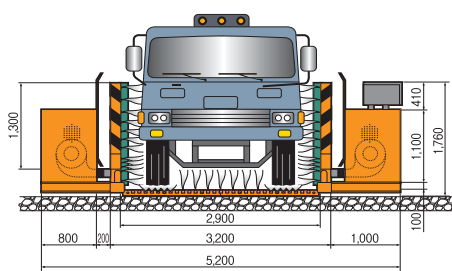
Foreign matter removed

Prevention secondary environmental contamination



- 1 A system dries wheels by blowing air to the left, right and bottom of the vehicle to help the effect of irregularity for the low part of a vehicle.
- 2 High-pressure air is used to effectively remove foreign matter left on the wheel.
- 3 Washing water on the wheel can be effectively dried.
- 4 The wheel dryer prevents road contamination, accident and frozen road in the winter that may be caused by a vehicle dripping polluted water after wheel wash.
- 5 It suppresses the generation of secondary dust and helps prevent environmental pollution caused by road pollution and fine dust

Drawing



Specification

MODEL	DSD-610
Equipment specifications	2,250(W) X 5,200(L) X 100(H)/300(H)
Equipment weight	2,000kg
Applicable vehicle	Large vehicle(25ton)
Drying time	40~60sec(Adjustable)
Processing capacity	Max 600vehicles/day(8 hours/day)
Electric power types	220V/380V 3-phase, 60Hz
Power consumption	15Kw
Operation method	Automatic dry by close S/W detection
Wind speed	20m/s



The above products and specifications can be changed to improve product quality.



ROLL type system(8R)

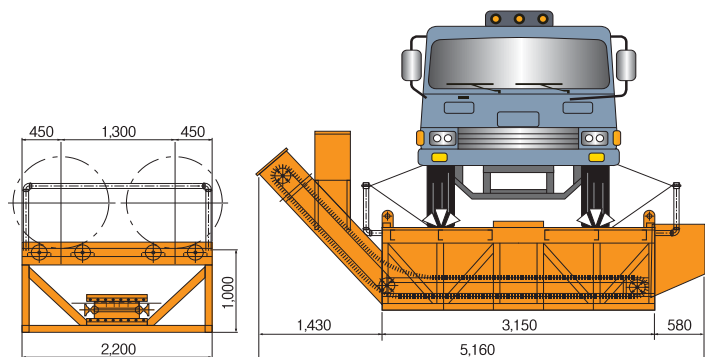
DTW-110

Roll Type Water Portable
Automatic Tire Washer

- General field
- Full automatic operation by wheel detection



Drawing



Specification

MODEL	DTW-110(General field)		
Equipment specifications	2,200(W) X 5,160(L) X 1,000(H)		
Equipment weight	4,700kg		
Applicable vehicle	25Ton, Large vehicle		
Washing time	45sec		
Processing capacity	Max 640 vehicles/day(8 hours/day)		
Electric power types	220V/380V 3-phase, 60Hz		
Power consumption	15.5Kw		
Operation method	Automatic tire washing system by proximity S/W detection		
Water pressure	3~4kg/cm ²	Sludge	Automatic discharge

| Areas difficult to supply 3-phase power |

► New product of energy-saving ROLL type, patented Inquiry on the Portable Automatic Tire Washer (Single phase 220V, combined with a self-generator)

The above products and specifications can be changed to improve product quality.



ROLL type system(10R)

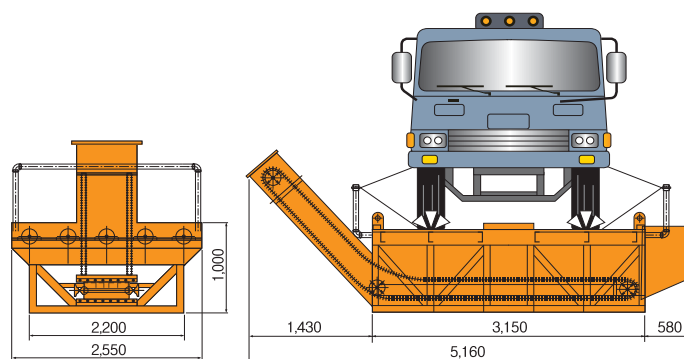
DTW-150

Roll Type Water Portable Automatic Tire Washer

- Custom order
- A site in frequent use of the machine
- Full automatic operation by wheel detection



Drawing



Specification

MODEL	DTW-150(a site for large-capacity)		
Equipment specifications	2,550(W) X 5,160(L) X 1,000(H)		
Equipment weight	4,900kg		
Applicable vehicle	25Ton, Large vehicle		
Washing time	45sec		
Processing capacity	Max 640 vehicles/day(8 hours/day)		
Electric power types	220V/380V 3-phase, 60Hz		
Power consumption	15.5Kw		
Operation method	Automatic tire washing system by proximity S/W detection		
Water pressure	3~4kg/cm ²	Sludge	Automatic discharge

The above products and specifications can be changed to improve product quality.

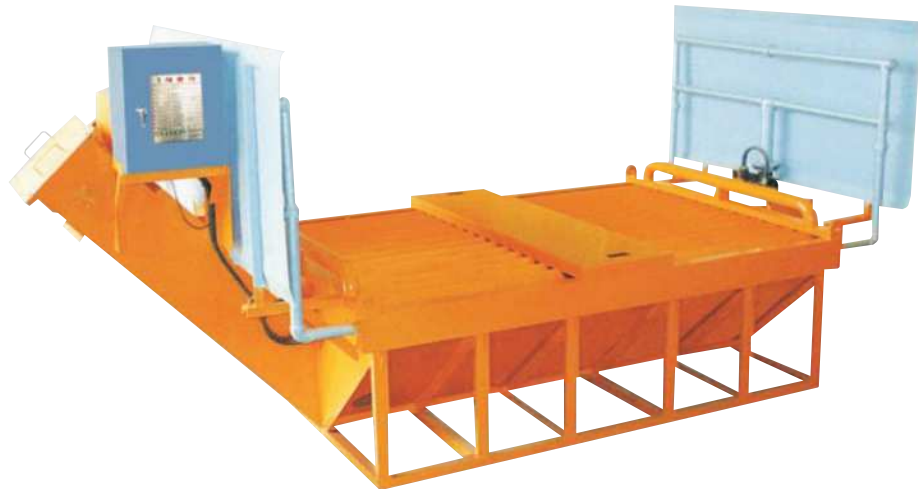


GRATING type system

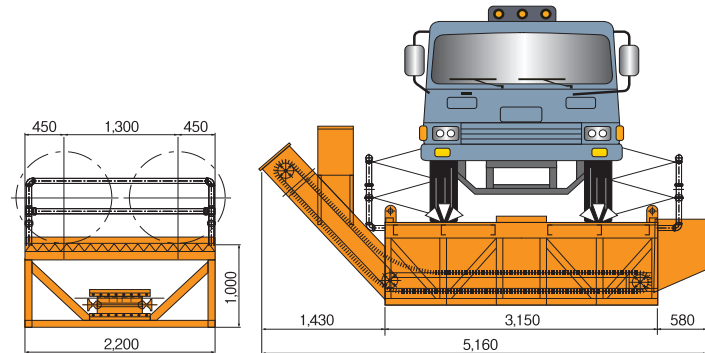
DTW-241

Grating Type Water Portable
Automatic Tire Washer

- Wheel washing by fast upper and lower water spraying
- Full automatic operation by wheel detection



Drawing



Specification

MODEL	DTW-241		
Equipment specifications	2,200(W) X 5,160(L) X 1,000(H)		
Equipment weight	4,000kg		
Applicable vehicle	25Ton, Large vehicle		
Washing time	20~40sec		
Processing capacity	Max 1400 vehicles/day(8 hours/day)		
Electric power types	220V/380V 3-phase, 220V single phase, 60Hz		
Power consumption	11.75Kw		
Operation method	Automatic tire washing system by proximity S/W detection		
Water pressure	3~4kg/cm ²	Sludge	Automatic discharge

The above products and specifications can be changed to improve product quality.



GRATING type system

DTW-242

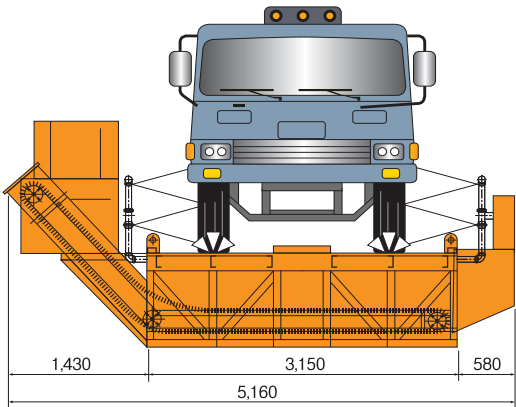
Grating Type Water Portable Automatic Tire Washer

Built-in generator

- Field with difficult electric supply
- Wheel washing by fast upper and lower water spraying
- Full automatic operation by wheel detection



Drawing



Specification

MODEL	DTW-242		
Equipment specifications	2,200(W) X 5,160(L) X 1,000(H)		
Equipment weight	4,000kg		
Applicable vehicle	25Ton, Large vehicle		
Washing time	20~40sec		
Processing capacity	Max. 1400 vehicles/day(8 hours/day)		
Electric power types	220V single-phase / combined with self-generator		
Power consumption	3.75Kw		
Operation method	Automatic tire washing system by proximity S/W detection		
Fuel in use	Gasoline(Consumption : 4 ~ 5L per hour)		
Water pressure	3~4kg/cm ²	Sludge	Automatic discharge

The above products and specifications can be changed to improve product quality.

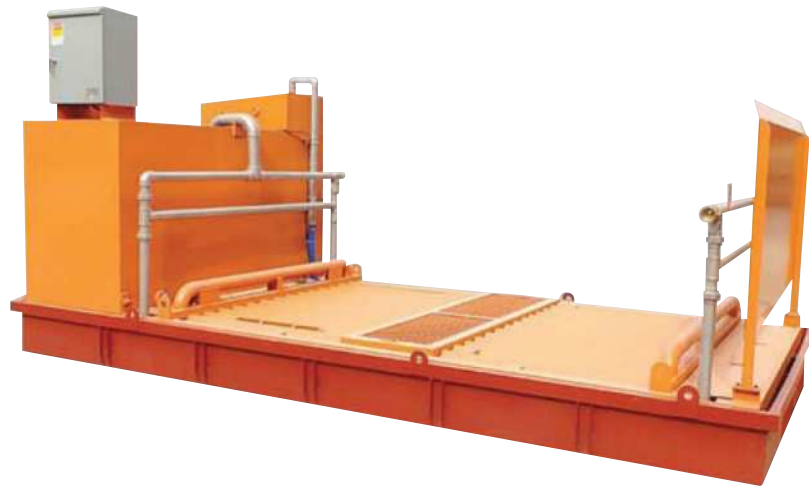


GRATING Low-floor Type system

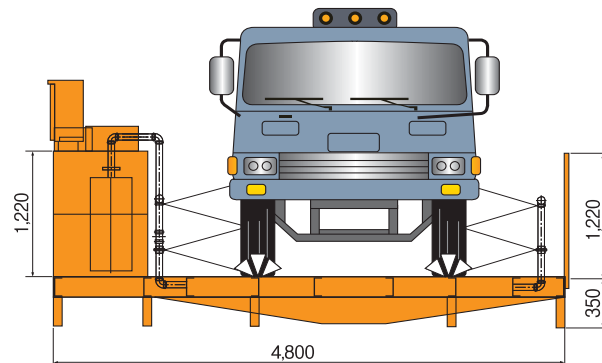
DTW-310

Grating Low Floor Type
Water Portable
Automatic Tire Washer

- Easy installation · affordable installation cost
- Separated type of iron box (easy to clean)
- Full automatic operation by wheel detection



Drawing



Specification

MODEL	DTW-310		
Equipment specifications	2,200(W) X 4,800(L) X 350(H)		
Equipment weight	3,000kg		
Applicable vehicle	25Ton, Large vehicle		
Washing time	20~40sec		
Processing capacity	Max. 720~1400 vehicles/day(8 hours/day)		
Electric power types	220V/380V 3-phase, 220V single phase, 60Hz		
Power consumption	11.75Kw		
Operation method	Automatic tire washing system by proximity S/W detection		
Water pressure	3~4kg/cm ²	Water storage capacity	4ton

The above products and specifications can be changed to improve product quality.



GRATING Low-floor Type system

DTW-310C

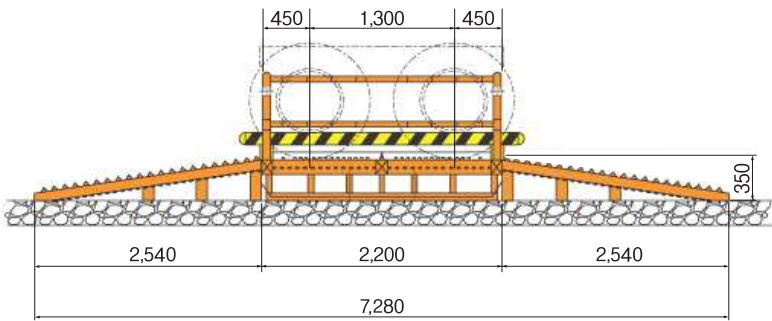
Grating Low Floor Type
 Water Portable
 Automatic Tire Washer (Road Ramp)

ROAD RAMP method

- A site difficult to reclaim
- A frequently mobile site
- Affordable installation cost
- Seperated type of iron box (easy to clean)
- Full automatic operation by wheel detection



Drawing



Specification

MODEL	DTW-310C		
Equipment specifications	2,200(W) X 4,800(L) X 350(H)		
Lamp size	2,540(W) X 1,100(L) (4EA)		
Equipment weight	3,000kg		
Applicable vehicle	25Ton, Large vehicle		
Operation method	Automatic tire washing system by proximity S/W detection		
Processing capacity	Max. 720~1400 vehicles/day (8 hours/day)		
Electric power types	220V/380V 3-phase, 220V single phase, 60Hz		
Power consumption	11.75Kw, single phase 3Kw		
Washing time	20~40sec	Water pressure	3~4kg/cm ²

The above products and specifications can be changed to improve product quality.



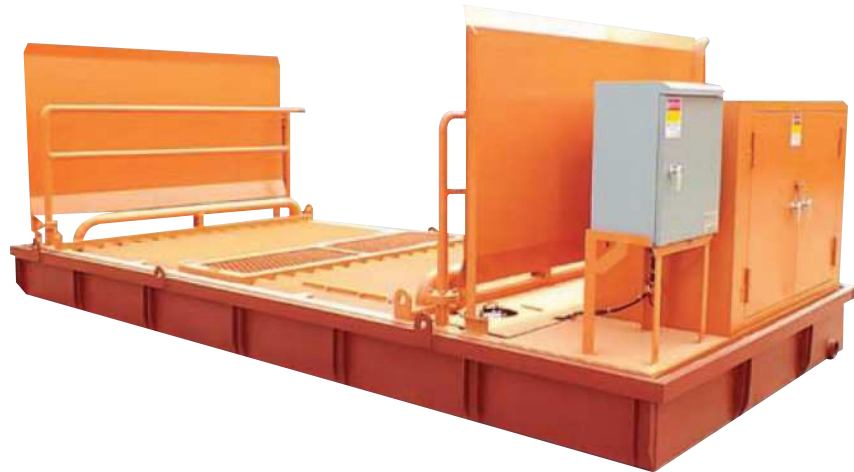
GRATING Low-floor Type system

DTW-312

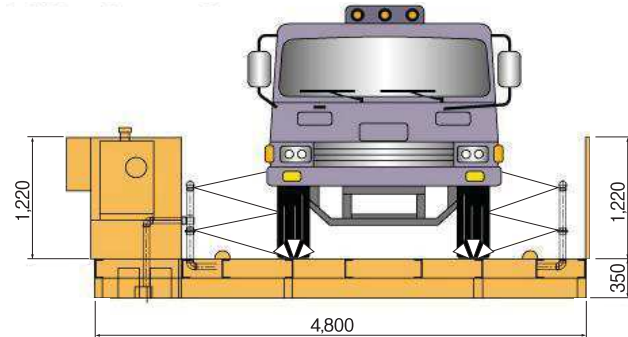
Grating Low Floor Type
Water Portable
Automatic Tire Washer

Built-in generator

- Easy installation
- A difficult site for electric supply
- Affordable installation cost
- Separated type of iron box (easy to clean)
- Full automatic operation by wheel detection



Drawing



Specification

MODEL	DTW-312		
Equipment specifications	2,200(W) X 4,800(L) X 350(H)		
Equipment weight	3,000kg		
Applicable vehicle	25Ton, Large vehicle		
Washing time	20~40sec		
Processing capacity	Max. 720~1400 vehicles/day (8 hours/day)		
Electric power types	220V single-phase / self-generator combined		
Operation method	Automatic tire washing system by proximity S/W detection		
Power consumption	3Kw	Water pressure	3~4kg/cm ²
Fuel in use	Gasoline	Water storage capacity	4ton

The above products and specifications can be changed to improve product quality.

Removable Iron PIT / Sludge Box

Breakthrough cost savings by mobile use, easy installation of wheel washing site and reducing installation cost

Removable iron pit



Dimensions : 4,740(L) X 2,340(W) X 980(H)
4,660(L) X 2,260(W) X 980(H)

Sludge box



Dimensions : 2,080(L) X 1,360(W) X 980(H)
2,000(L) X 1,280(W) X 980(H)

Detritus tank

Detritus tank



Dimensions : 4,740(L) X 2,340(W) X 980(H)
4,660(L) X 2,260(W) X 980(H)



The above products and specifications can be changed to improve product quality.



Vehicle weighing scale DSW-510



Specification

MODEL	DSW-510
Maximum capacity	15,000kg
Usage time	25 hours (using built-in battery, charging for 12 hours)
PAD quantity	2PAD
Vehicle type	100 vehicles
Display panel	Graphic LCD
Display LAMP	Zero, Tare, Stable, Battery charging, warning
Power supply	Rechargeable battery, adapter
Product size	900(W) X 500(D) X 34(H)mm
Measurement PAD connection	Cable type
Printer type	Thermal transfer printing method
Accuracy	1/300
Paper width	58mm
Product weight	19.5kg

* Please inquire for the **wireless weigh-in-motion system**.

Precipitant



Advantages of precipitant in use

- 1 The precipitant helps foreign matter in the water settle down, not to clog the nozzle and increase cleaning efficiency.
- 2 The lifetime of rubber plate becomes long by sludge discharge.
- 3 The failure rate of the sludge discharge device can be reduced.
- 4 Sludge discharge is effective.

How to use precipitant

- 1 Less than 150 vehicles a day (approx. 30g before work)
- 2 More than 150 vehicles a day (approx. 30g before work)
(approx. 30g during work)

Precipitant 1BOX = 5kg

FA business department

Factory
Automations



| Automatic Plastic Waste Cleaning system |



| Systematic tire washer system |

DONGSEO PORTABLE AUTOMATIC TIRE WASHER

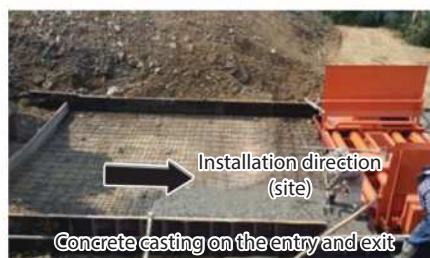
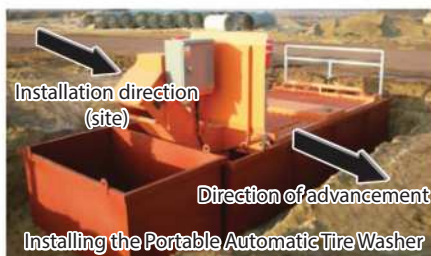
Dongseo Portable Automatic Tire Washer and DS Co., Ltd. responsibly practice the promise made to customers.

Removable iron PIT installation image

6,500(L) X 2,500(W) X 1,000(H) ※ This basic drawing is for the **right direction**.
(Please inquire separately for the left direction.)

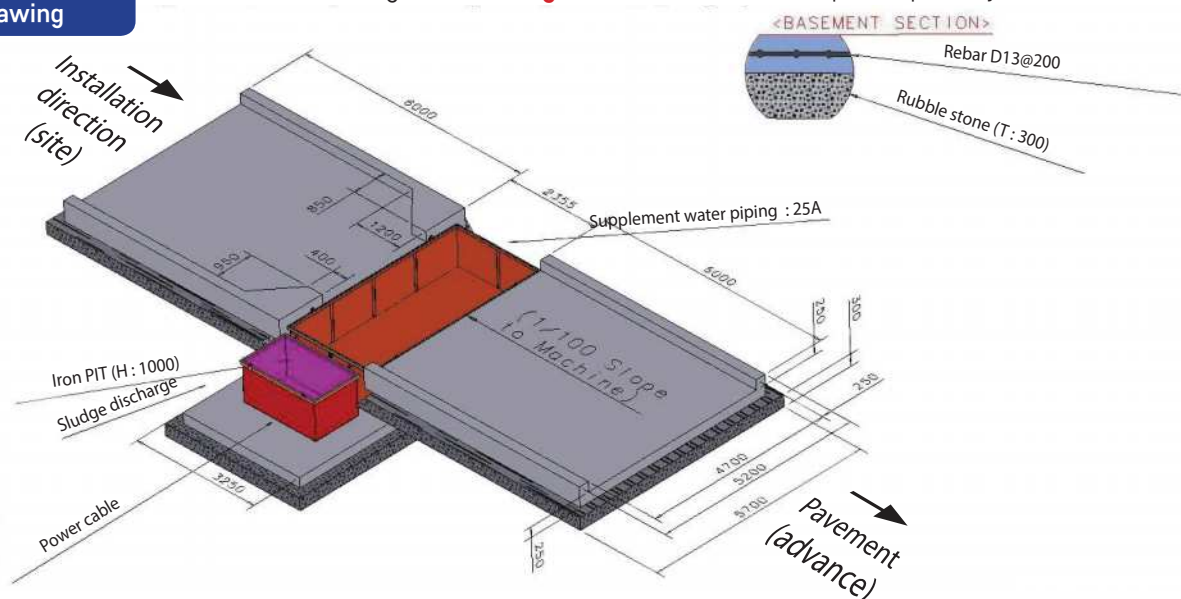
Site preparation

- 1 Portable Automatic Tire Washer installation equipment : forklift 7Ton or more, excavator 0.8 ton or more
- 2 Supplementary water work: 1 / 2B (13mm) PIP or HOSE
- 3 Electric entry construction: Power 20kw 3 phase 380V or 220V, CABLE 660CV 22mm² X 4C
- 4 Basic construction (digging a trench, floor concrete casting, concrete work on entrance and exit)
- 5 Vinyl work on the iron PIT contact surface before concrete casting



Three-dimensional drawing

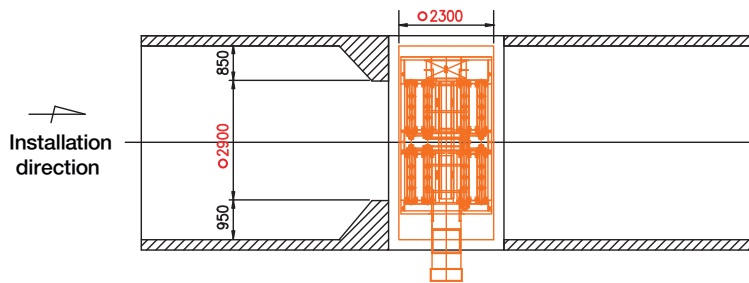
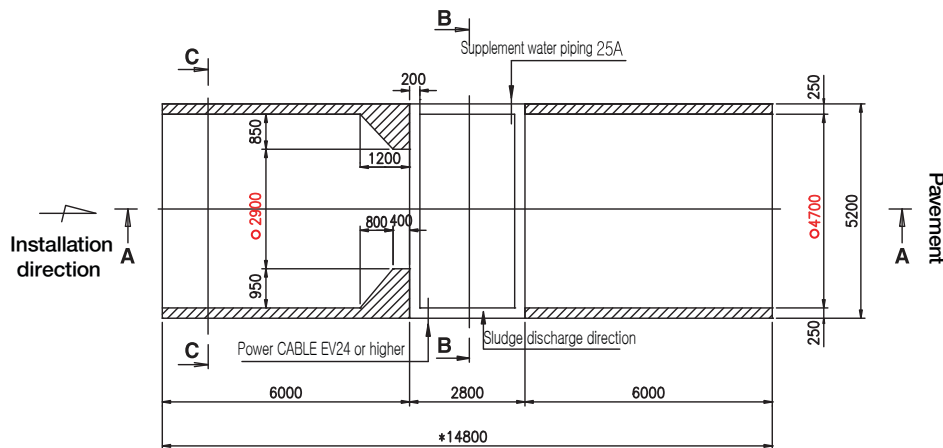
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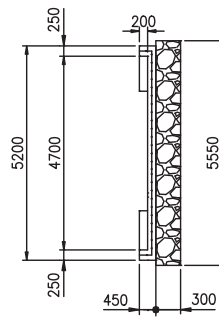
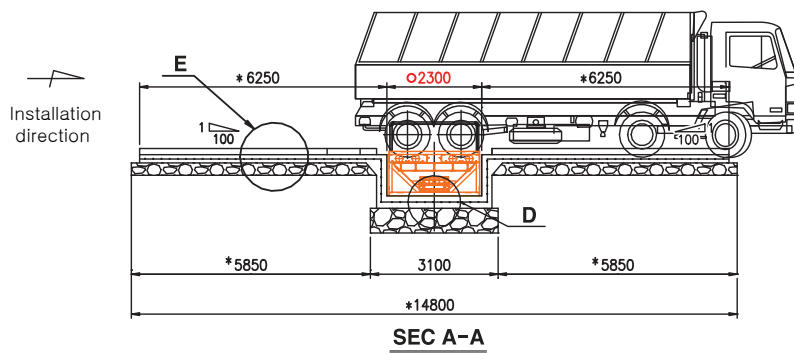


Basic drawing of Dongseo Portable Automatic Tire Washer

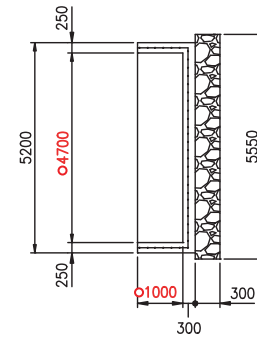
※ This basic drawing is for the **right direction**.
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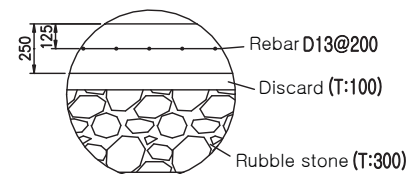
CONCRETE REINFORCEMENT	ST. BAR D 13 @200
CONCRETE STRENGTH	210K
INPUT CABLE	380V, 3-phase, EV24, SQ×4C
INPUT WATER PIPE	25A



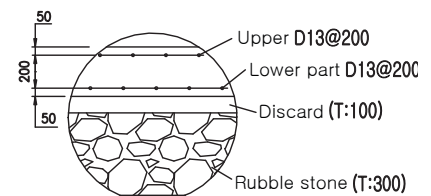
SEC C-C



SEC B-B



DETAIL E(S=1/20)



DETAIL D(S=1/20)

NOTE.

1. Power cable and supplementary water pipe can be adjusted by circumstances.
2. The * mark can be adjusted by circumstances.
3. The dimensions of ○ should be carefully measured as related to the machine.
4. If the level of the part touching the machine (floor surface) is more than 10mm, it should be reconstructed.
5. The path of entry and exit should be installed on the inverse slope(1 ~ 3%).

Portable automatic tire washer · Wheel dryer
Removable iron pit · Sludge box · Detritus tank
Vehicle weighing scale · Precipitant
FA business department



Customer Center
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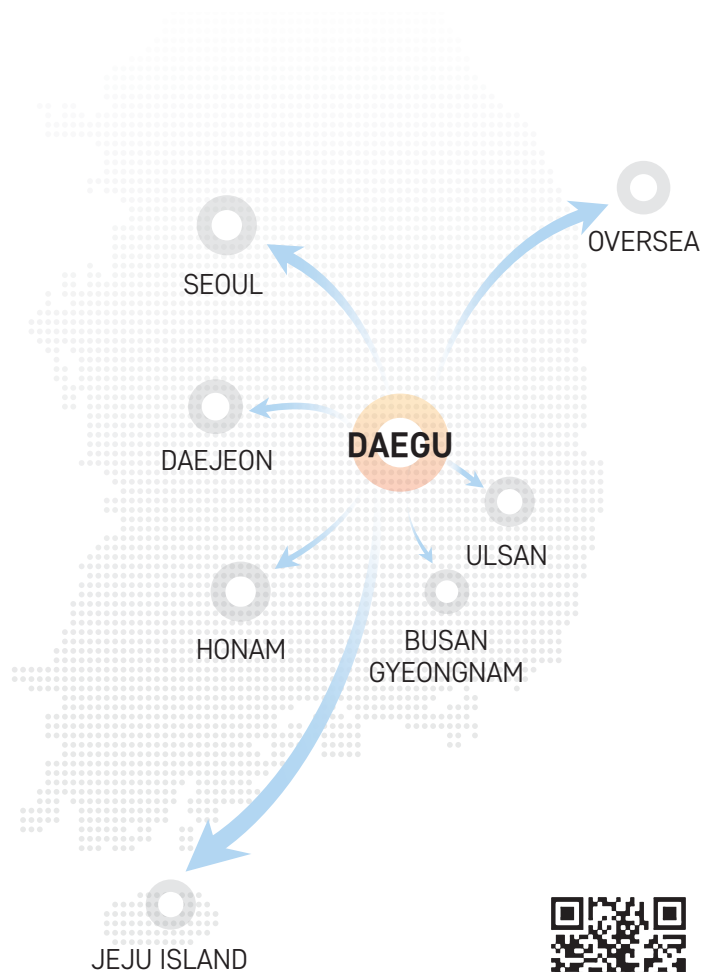
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Dongseo Portable Automatic
Tire Washer(Factory1)



Dongseo Portable Automatic
Tire Washer(Factory2)



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