WASHING SYSTEM FOR TRAIN

JAPAN CAR WASH CO.,LTD

MADE IN JCW. MADE IN TOKYO.

Washing system for carriages of the Shinkansen (high-speed railways)

Washing system to maintain the world' s most beautiful carriages

The world's largest washing system.
Nine units of the washing system realize the best washing quality.

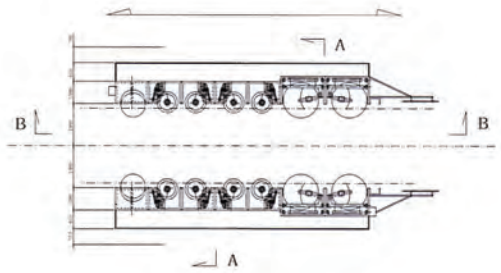
The beauty of the carriages of the Shinkansen is second to none in the world. The washing system for such carriages has been brought to realization through our long-term vision for technology development. The world's largest-scale washing system was supplied to West Japan Railway Company. This system contains various kinds of equipment such as reverse osmosis water treatment equipment and wash water recycling equipment, to say nothing of carriage washing equipment, all of which were designed and manufactured by us. It is considered the world's best railway washing system in light of all its aspects including safety, mechanical quality and control system, operating cost, and mechanical durability.

Washing system for carriages of the Shinkansen (high-speed railways)

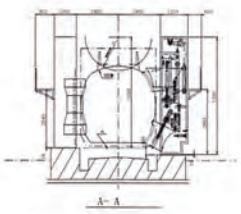
JAPAN CAR WASH Co.,Ltd

MADE IN JCW.

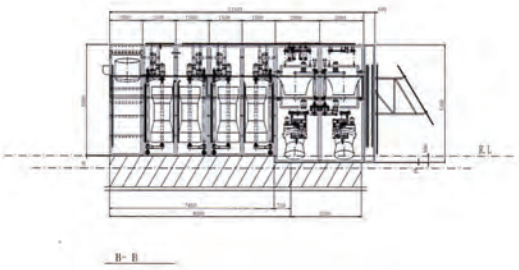
●TOP VIEW



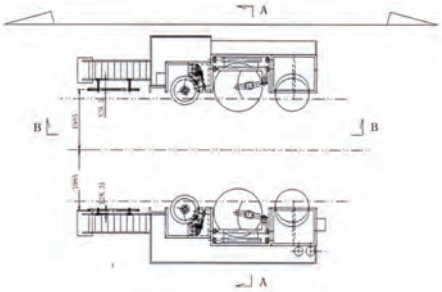
●ELEVATION VIEW
(FRONT FACE)



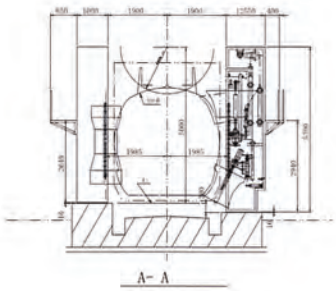
●ELEVATION VIEW
(SIDE)



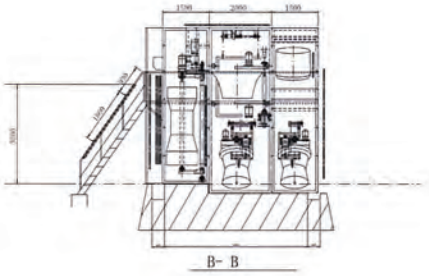
●TOP VIEW



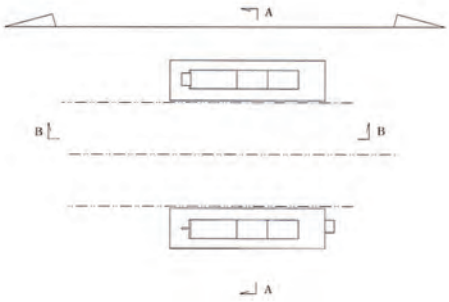
●ELEVATION VIEW
(FRONT FACE)



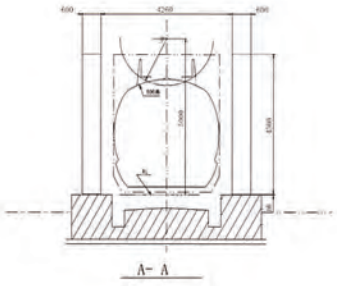
●ELEVATION VIEW
(SIDE)



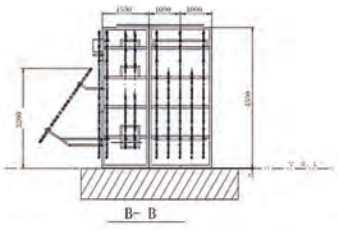
●TOP VIEW



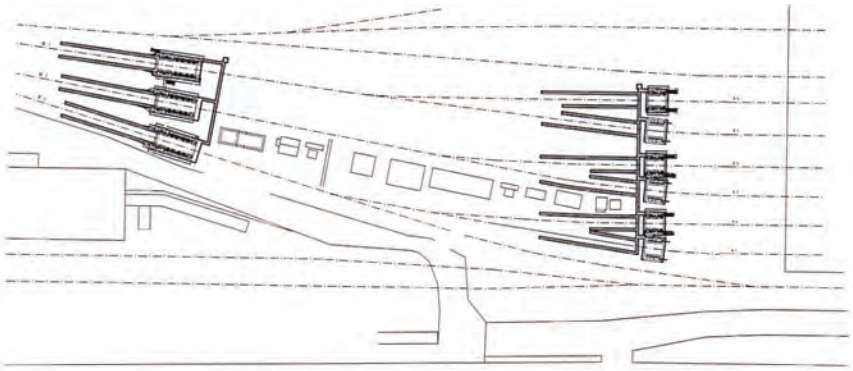
●ELEVATION VIEW
(FRONT FACE)



●ELEVATION VIEW
(SIDE)



●ARRANGEMENT PLAN



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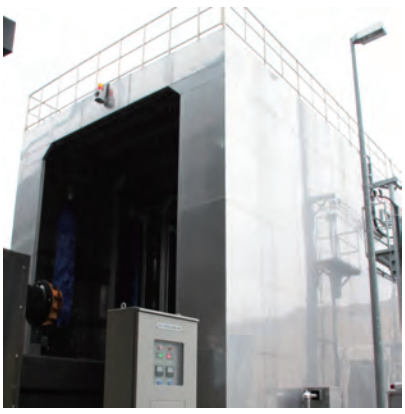
Washing system for railway (monorail) carriages

The world' s longest (80-meter) movable washing machine for monorail carriages



The front of a carriage is fully washed without missing any parts with the new control system, special mechanism, and special brushes. Also, many options are available. Please feel free to contact us for more information.

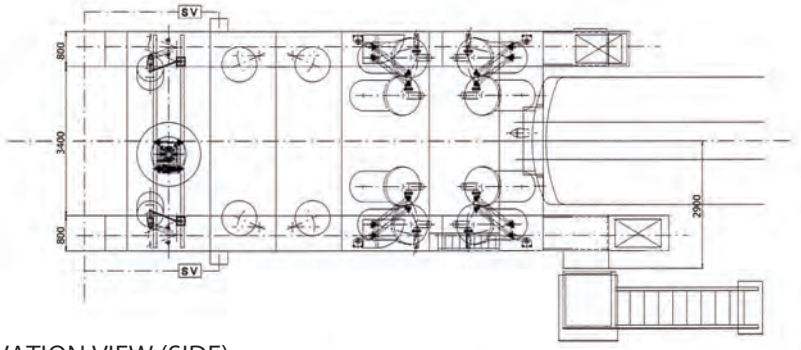
The machine is movable (80 meters) while the carriage remains motionless.
The whole circumference of a carriage including the front and rear, to say nothing of the sides, is fully washed. The new control system and special mechanism perform the washing by precisely correlating to a carriage without any need for manual washing. In adequate consideration of the long-term use of the system, stainless frames and a stainless body are equipped for the best quality and durability. Needless to say, the washing system is thoroughly safeguarded against unlikely accidents so that you can use it without worry.

Washing system for railway (monorail) carriages

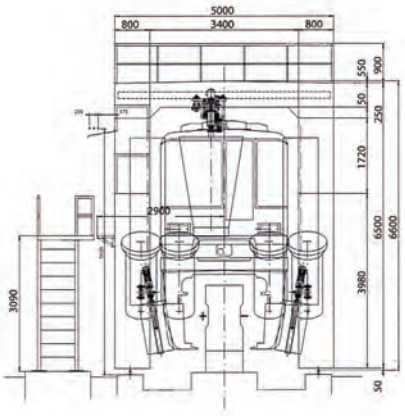
JAPAN CAR WASH.Co.,Ltd

MADE IN JCW.

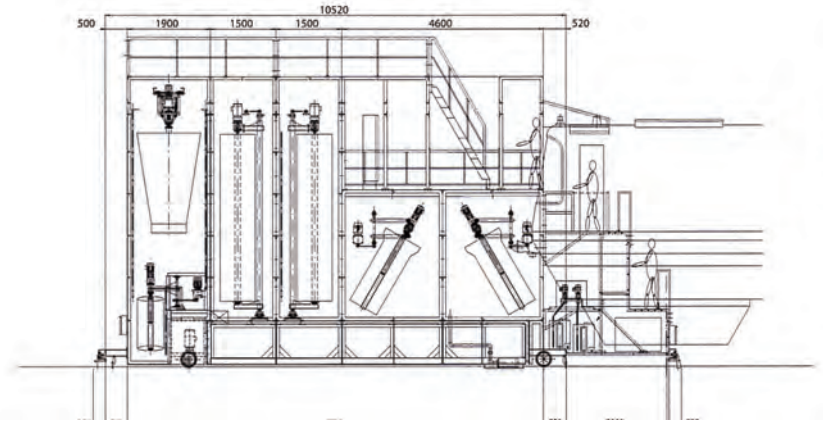
●TOP VIEW



●ELEVATION VIEW (FRONT FACE)



●ELEVATION VIEW (SIDE)



●SPECIFICATIONS

Model	Washing system for railway (monorail) carriages		
Machine size	Length 10502 × Width 5000 × Height 7400(㎜)		
Side brush	Size	:	Diameter 800 × Height 3800(㎜)
	Quantity	:	4Pc (The right and left 2Pc)
	Rotating device	:	3.7kw × 4Pc
	Application device	:	0.5kw × 4Pc
Corner brush (Front)	Size	:	Diameter 800～1460 × Height 2260(㎜)
	Quantity	:	1Pc
	Rotating device	:	2.2kw × 1Pc
	Application device	:	0.4kw × 1Pc
Lower corner brush	Size	:	Diameter 700～800 × Height 1835(㎜)
	Quantity	:	4Pc
	Rotating device	:	0.75kw × 4Pc
	Application device	:	0.3kw × 4Pc
Side brush	Size	:	Diameter 600 × Height 1100(㎜)
	Quantity	:	2Pc
	Rotating device	:	0.75kw × 2Pc
	Application device	:	0.3kw × 2Pc
Motor movement		:	5.5kw × 2Pc (Inverter control)
Cleaning pump unit	Wash pump	:	2.2kw × 2Pc
Water tank	Clear water	:	2800L × 2Pc
	Chemical	:	100L × 2Pc
Total power		:	40kw (3-phase 200V 50/60HZ)

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Washing system for railway carriages (movable)

(215-meter) movable washing machine for railway carriages

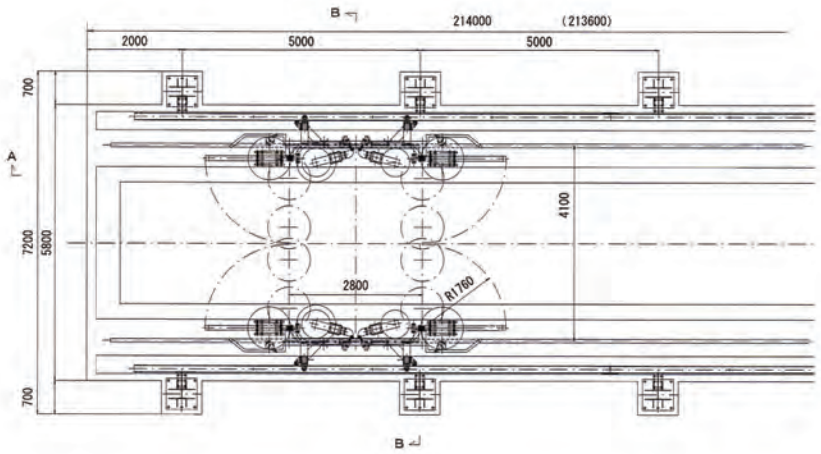
The front of a carriage is fully washed without missing any parts with the new control system, special mechanism, and special brushes. Also, many options are available. Please feel free to contact us for more information.

The machine is movable (215 meters) while the carriage remains motionless! The whole circumference of a carriage including the front and rear, to say nothing of the sides, is fully washed. The new control system and special mechanism perform the washing by precisely correlating to the shape of a carriage as well as the number of carriages without any need for manual washing. You can set up the washing according to the train schedule. If the schedule is tight, you can change the period of the washing time by making it shorter. You can also operate the washing system by remote control wirelessly. Materials and a surface treatment method in adequate consideration of long-term use of the system are applied for the best quality and durability. Needless to say, the washing system(Train Wash Plant) is thoroughly safeguarded against unlikely accidents so that you can use it without worry.

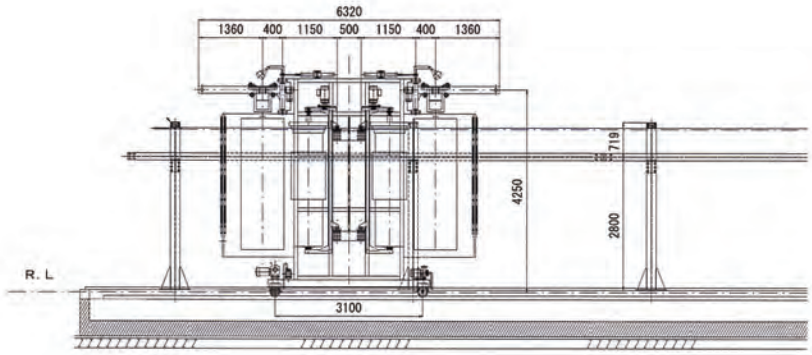
Washing system for railway carriages (movable)

MADE IN JCW.

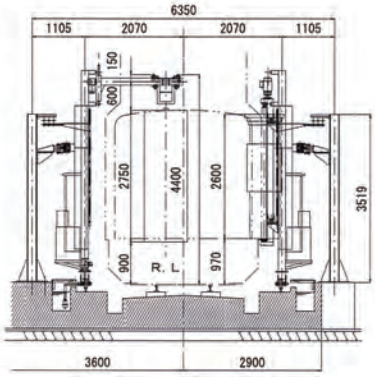
●TOP VIEW



●ELEVATION VIEW (SIDE)



●ELEVATION VIEW (FRONT FACE)



●SPECIFICATIONS

Model	Washing system for railway carriages (movable)		
Machine size	Length 6320 × Width 6350 × Height 4400(㎜)		
Main materials	SUS304		
Front・Rear・Side brush	Size	:	Diameter 900 × Height 2750(㎜)
	Quantity	:	4Pc (The right and left 2Pc)
	Rotating device	:	0.75kw × 4Pc
	Compressor	:	0.4kw × 4Pc
Shoulder brush	Size	:	Diameter 600～820(The diameter of the window700) × Height 2600(㎜)
	Quantity	:	4Pc
	Rotating device	:	2.2kw × 4Pc
Motor movement		:	1.5kw × 2Pc (Inverter control)
Cleaning pump unit	Wash pump	:	0.75kw ＋ 0.4kw
Total power		:	19.9kw (3-phase 200v 50/60Hz)

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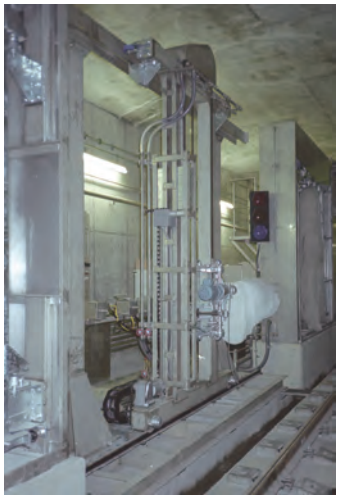
Washing system for subway carriages

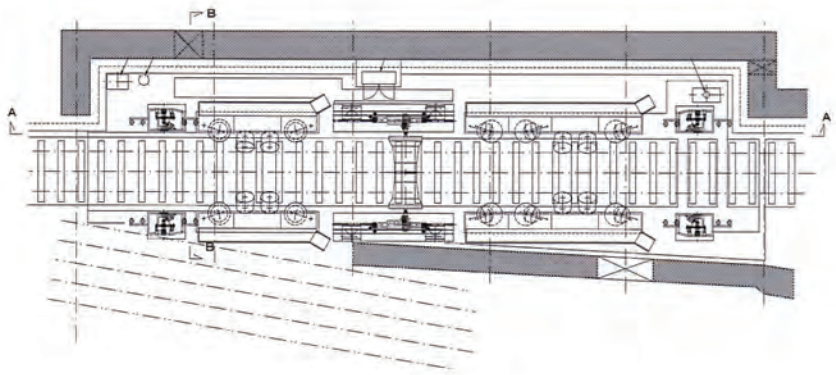
Our washing system washes carriages running under the tightest schedule in the world



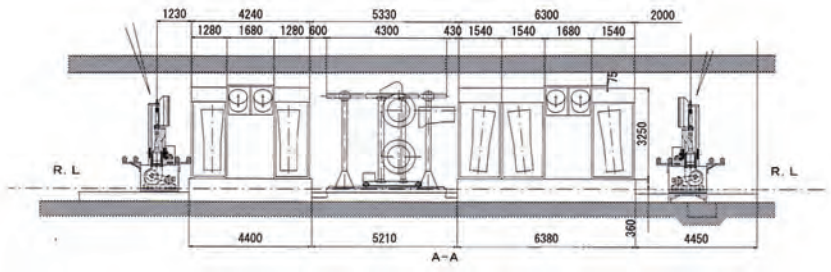
The Tokyo metropolitan area has subway carriages running through it under the tightest schedule and carrying the largest number of passengers in the world. The beauty of such carriages is maintained by our washing system(Train Wash Plant). Our washing system(Train Wash Plant) realizes the best washing quality under the extremely limited conditions of washing time, washing space, volume of water, etc. The whole circumference of a carriage including the front and rear, and shoulders, to say nothing of the sides, is fully washed. Our blower system thoroughly removes the washing water droplets stuck to the windows of the front and rear of a carriage without any need for manual washing. Materials and a surface treatment method in adequate consideration of long-term use of the system are applied for the best quality and durability. Needless to say, the washing system(Train Wash Plant) is thoroughly safeguarded against unlikely accidents so that you can use it without worry.

MADE IN JCW.

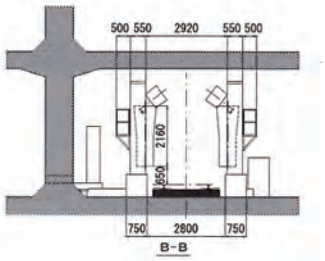
●TOP VIEW



●ELEVATION VIEW (SIDE)



●ELEVATION VIEW (FRONT FACE)



●SPECIFICATIONS

Model	Washing system for subway carriages		
Machine size	Vehicle length 22900 × Vehicle width 5020 × Vehicle height 3610(㎜)		
Main materials	SUS304		
Side brush	Size	:	Diameter 600～800 × Height 2160(㎜)
	Quantity	:	10Pc
	Rotating device	:	3.7kw × 10Pc
Shoulder brush	Size	:	Diameter 600～650 × Width 2600(㎜)
	Quantity	:	4Pc
	Rotating device	:	0.75kw × 4Pc
Front・Rear brush	Size	:	Diameter 700～1200 × Height 1380(㎜)
	Quantity	:	2Pc
	Lifting and lowering device	:	0.75kw × 2Pc
	Motor movement	:	0.4kw × 2Pc
Blower device	Blower	:	7.5kw × 4Pc
	Reversal nozzle	:	0.1kw × 4Pc
	Swing nozzle	:	0.2kw × 4Pc
Cleaning pump unit	Wash pump	:	5.5kw
Chemical	Pump	:	0.75kw
	Stirring machine	:	0.4kw
	Water tank	:	1000L
	Air compressor	:	1.5kw
Preliminary cleaning pump unit		:	3.7kw
Total power		:	89.5kw (3-phase 200v 50/60Hz)

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Washing system for railway carriages (stationary type)

The best washing quality is provided in the shortest period of time.

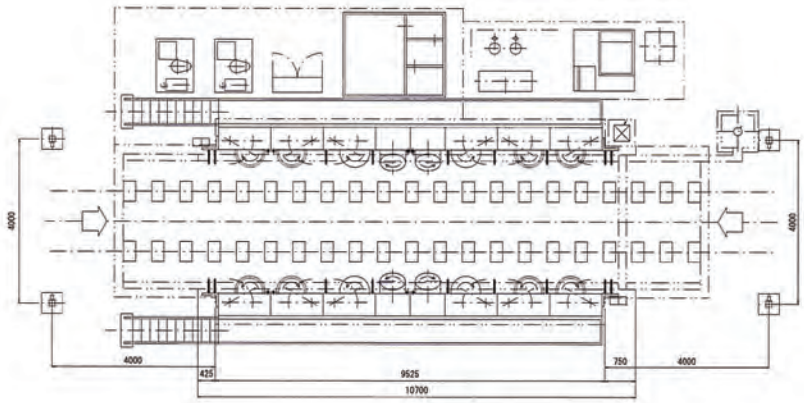
The front of a carriage is fully washed without missing any parts with the new control system, special mechanism, and special brushes. Also, many options are available. Please feel free to contact us for more information.

This is a fundamental washing system(Train Wash Plant) for railway carriages consolidating all the know-how accumulated since our foundation. It is a stationary type, and can be installed in a small footprint. Moreover, a carriage can be brought in from either direction for the washing process, thus the system can be installed at a place which was considered not possible in the past. The whole circumference of a carriage up to the shoulders, to say nothing of the sides, is fully washed. The new control system and special mechanism perform the washing by precisely correlating to the shape of a carriage without any need for manual washing. Materials and a surface treatment method in adequate consideration of long-term use of the system are applied for the best quality and durability. Needless to say, the washing system(Train Wash Plant) is thoroughly safeguarded against unlikely accidents so that you can use it without worry.

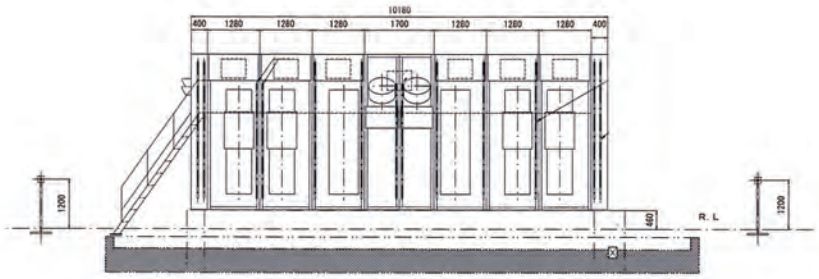
Washing system for railway carriages (stationary type)

MADE IN JCW.

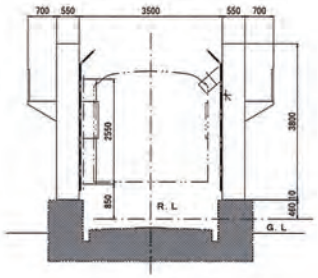
●TOP VIEW



●ELEVATION VIEW (SIDE)



●ELEVATION VIEW (FRONT FACE)



●SPECIFICATIONS

Model	Washing system for railway carriages(stationary type)		
Machine size	Vehicle length 10700 × Vehicle width 6000 × Vehicle height 3800(㎜)		
Main materials	SUS304		
Side brush	Size	:	Diameter 620 (The diameter of the window720) × Height 2550(㎜)
	Quantity	:	12Pc (The right and left 6Pc)
	Rotating device	:	3.7kw × 12Pc
Shoulder brush	Size	:	Diameter 670 (The diameter of the window700) × Height 300(㎜)
	Quantity	:	4Pc (The right and left 2Pc)
	Rotating device	:	0.75kw × 4Pc
Cleaning pump unit	Wash pump	:	3.7kw
	Preliminary cleaning pump unit	:	2.2kw
	Chemical pump	:	0.75kw × 2Pc
	Stirring machine	:	0.4kw × 2Pc
Sewage treatment plant	Oil-water separator tank	:	SUS304 6㎥
	Neutralizing apparatus	:	2m2/h
Pump		:	0.75kw
Air compressor		:	1.5kw
Total power		:	57.03kw (3-phase200v 50/60Hz)

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Washing system for railway carriages (at plants)

The beauty of Japanese railway carriages is created at plants

The front of a carriage is fully washed without missing any parts with the new control system, special mechanism, and special brushes. Also, many options are available. Please feel free to contact us for more information.

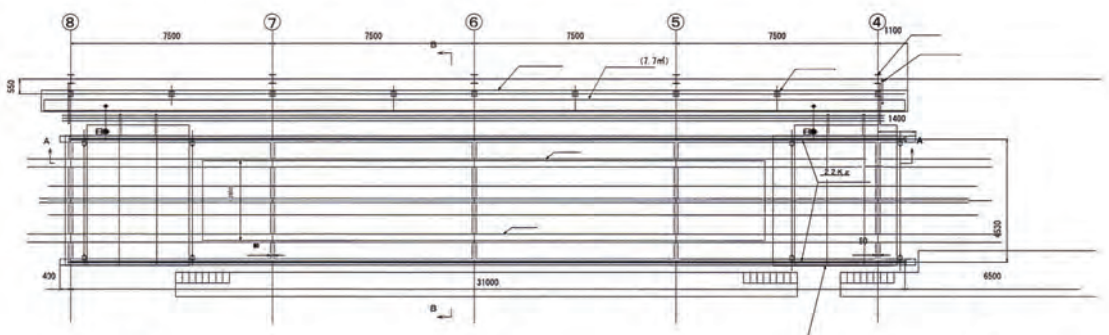
This train wash plant system washes the carriages produced at a plant or brought in for inspection, realizing a systematic line management. It is equipped with all the functional features required to wash carriages at a plant. Because the system has a movable washing method, space is effectively used when the system is not in use. The whole circumference of a carriage including the front and rear, shoulders, and base, to say nothing of the sides, is fully washed. The new control system and special mechanism perform the washing by precisely correlating to the shape of a carriage without any need for manual washing. Materials and a surface treatment method in adequate consideration of long-term use of the system are applied for the best quality and durability. Needless to say, the washing system is thoroughly safeguarded against unlikely accidents so that you can use it without worry.

Washing system for railway carriages (at plants)

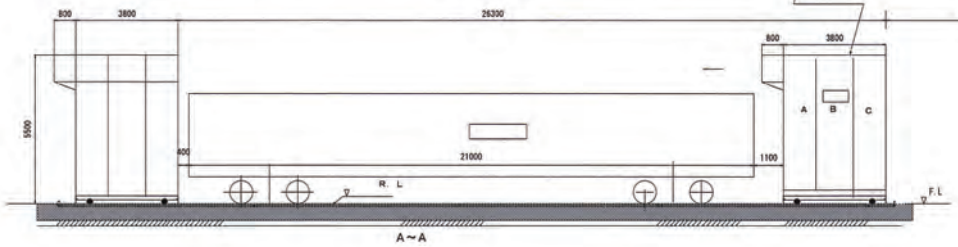
JAPAN CAR WASH Co.,Ltd

MADE IN JCW.

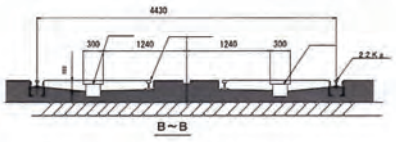
●TOP VIEW



●ELEVATION VIEW (SIDE)



●ELEVATION VIEW (FRONT FACE)



●SPECIFICATIONS

Model	Washing system for railway carriages (at plants)		
Machine size	Vehicle length 10700 × Vehicle width 6000 × Vehicle height 3800(㎜)		
Main materials	SUS304		
Side brush	Size	:	Diameter 750～1110 × Height 2650(㎜)
	Quantity	:	2Pc (The right and left 1Pc)
	Rotating device	:	2.2kw × 2Pc
	Rampant equipment	:	0.4kw × 2Pc
Front・Rear brush	Size	:	Diameter 720～120 × Width 2600(㎜)
	Quantity	:	1Pc
	Rotating device	:	2.2kw × 1Pc
	Lifting and lowering device	:	1.5kw × 1Pc
Shoulder brush	Size	:	Diameter 570～840 × Height 800(㎜)
	Quantity	:	2Pc (The right and left 1Pc)
	Rotating device	:	0.75kw × 2Pc
	Into and out of the library device	:	0.4kw × 2Pc
Skirt Brush	Size	:	Diameter 700 × Height 1150(㎜)
	Quantity	:	2Pc (The right and left 1Pc)
	Rotating device	:	0.75kw × 2Pc
	Into and out of the library device	:	0.4kw × 2Pc
Cleaning pump unit	Wash pump	:	2.2kw
	Chemical pump	:	0.4kw
	Stirring machine	:	0.4kw × 2Pc
Motor movement		:	2.2kw
Automatic lift for inspection		:	1.5kw
Total power		:	22kw (3-phase 200v 50/60Hz)