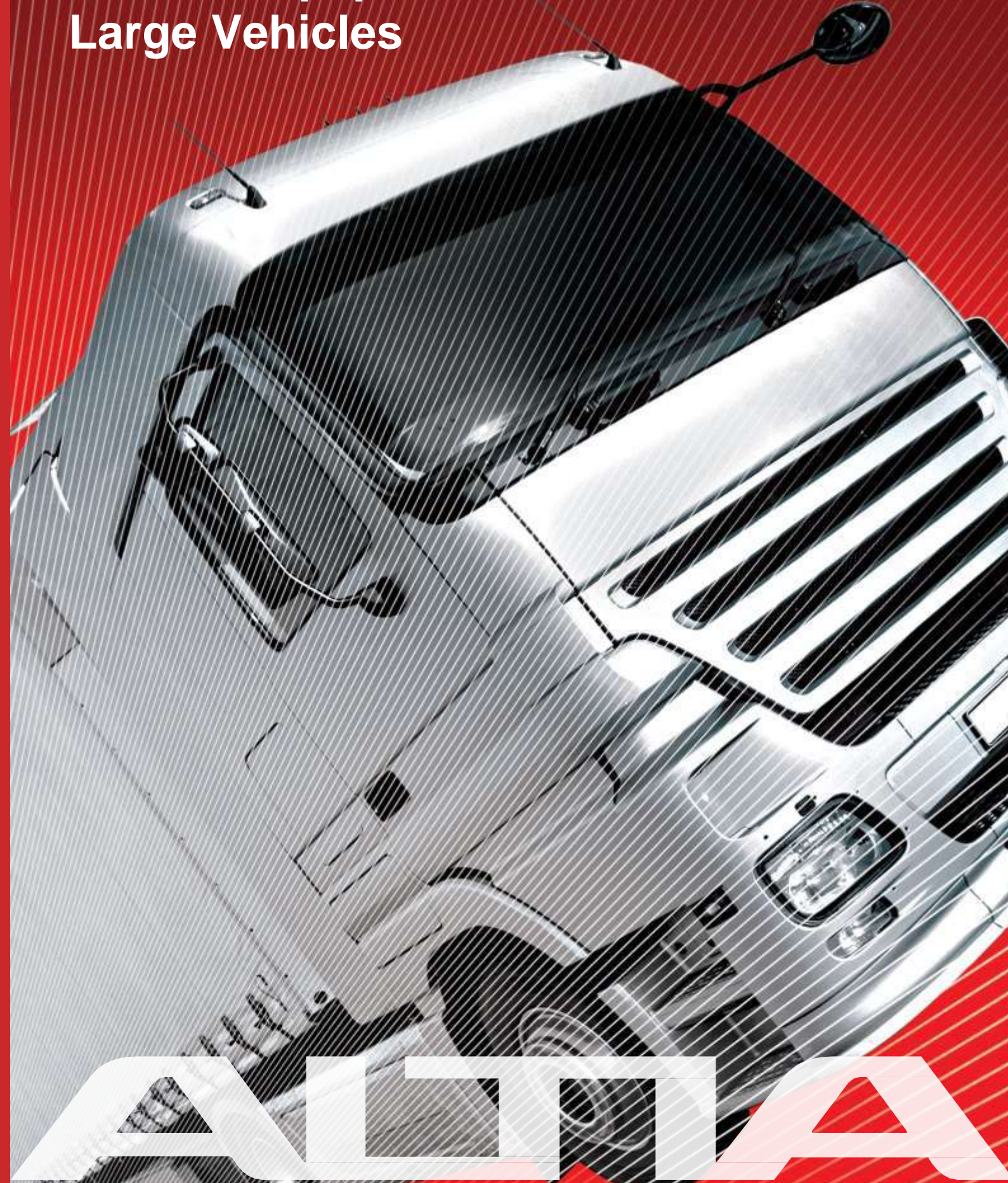
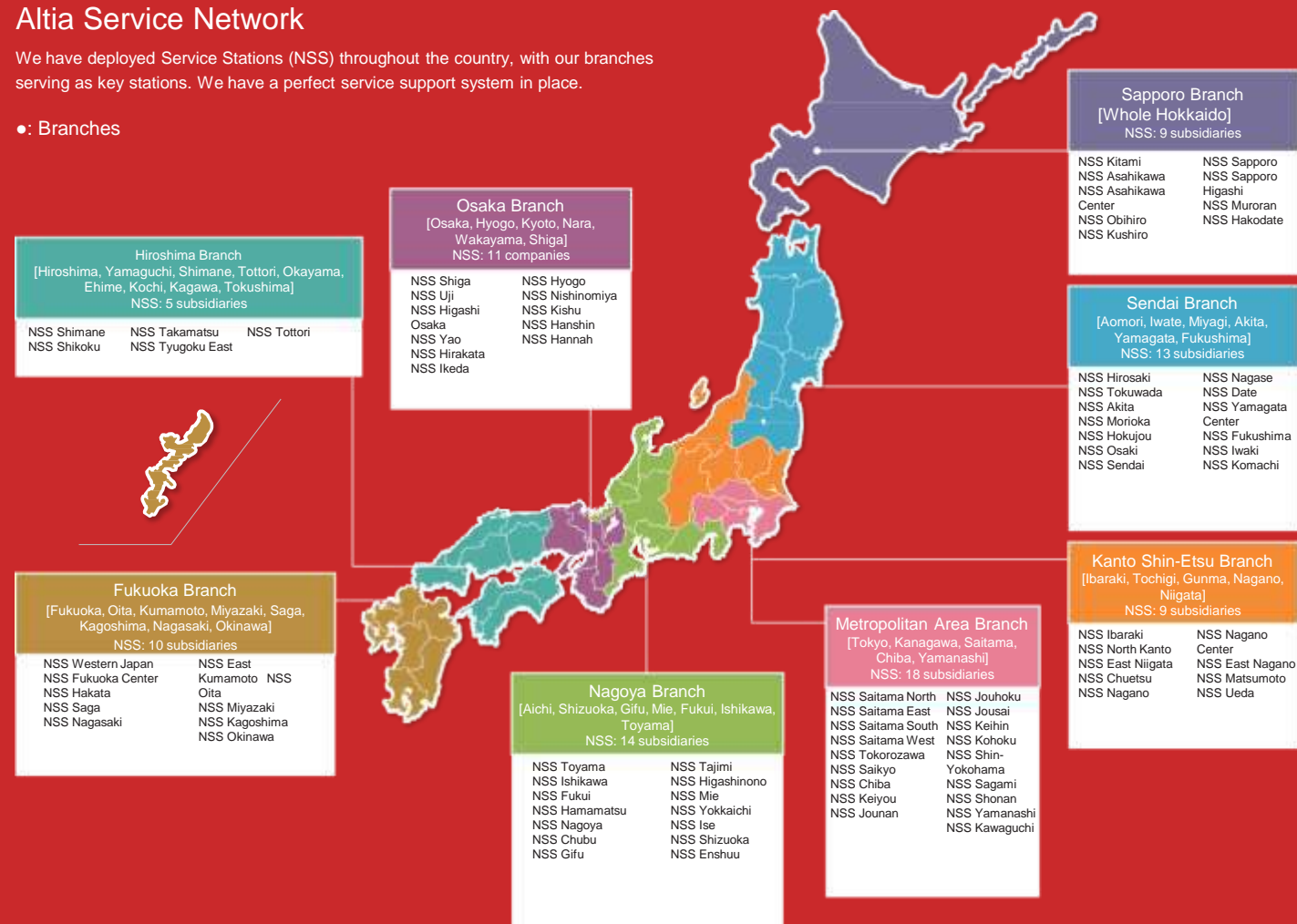


## Altia Service Network

We have deployed Service Stations (NSS) throughout the country, with our branches serving as key stations. We have a perfect service support system in place.

• Branches



Altia Co., Ltd.

<https://altia.co.jp>

## Safety Notice

In order to use the product correctly and safely, please read the Instruction Manual carefully before use.

**Sapporo Branch** [Whole Hokkaido]

Address: 3-1-81 Higashinaebo 3jo, Higashi-ku, Sapporo, Hokkaido 007-0803  
 TEL: 011-786-2010 FAX: 011-786-2020

**Sendai Branch** [Aomori, Iwate, Miyagi, Akita, Yamagata, Fukushima]

Address: 3-2-15 Ogimachi, Miyagino-ku, Sendai-shi, Miyagi Prefecture 983-0034  
 TEL: 022-783-3810 FAX: 022-783-3809

**Metropolitan Area Branch** [Tokyo, Kanagawa, Saitama, Chiba, Yamanashi]

Address: 7-20-10 Nishikasai, Edogawa-ku, Tokyo 134-0088  
 TEL: 03-5659-8180 FAX: 03-5659-8218

**Kanto Shin-Etsu Branch** [Ibaraki, Tochigi, Gunma, Nagano, Niigata]

Address: 7-20-10 Nishikasai, Edogawa-ku, Tokyo 134-0088  
 TEL: 03-5659-8217 FAX: 03-5659-8198

**Nagoya Branch** [Aichi, Shizuoka, Gifu, Mie, Fukui, Ishikawa, Toyama]

Address: 26 Toyogaoka, Meito-ku, Nagoya-shi, Aichi Prefecture 465-0035  
 TEL: 052-775-4010 FAX: 052-775-4050

**Osaka Branch** [Osaka, Hyogo, Kyoto, Nara, Wakayama, Shiga]

Address: 3-7-11 Saiwaicho, Naniwa-ku, Osaka-shi, Osaka Prefecture 556-0021  
 TEL: 06 - 7708-8820 FAX: 06 - 7708-8823

**Hiroshima Branch** [Hiroshima, Yamaguchi, Shimane, Tottori, Okayama, Ehime, Kochi, Kagawa, Tokushima]

Address: 5-25-21 Inokuchi, Nishi-ku, Hiroshima-shi, Hiroshima Prefecture 733-0842  
 TEL: 082-277-2340 FAX: 082-277-5880

**Fukuoka Branch** [Fukuoka, Oita, Kumamoto, Miyazaki, Saga, Kagoshima, Nagasaki, Okinawa]

Address: 3-6-1 Higashihiie, Hakata-ku, Fukuoka-shi, Fukuoka Prefecture 812-0007  
 TEL: 092-411-5351 FAX: 092-472-7398

**Machinery Sales Department**

Address: 7-20-10 Nishikasai, Edogawa-ku, Tokyo 134-0088  
 TEL: 03-5659-8162 FAX: 03-5659-8229

**Overseas Section, Machinery Sales Department**

Address: 7-20-10 Nishikasai, Edogawa-ku, Tokyo 134-0088  
 TEL: 03-5659-8178 FAX: 03-5659-8229



Sales outlet

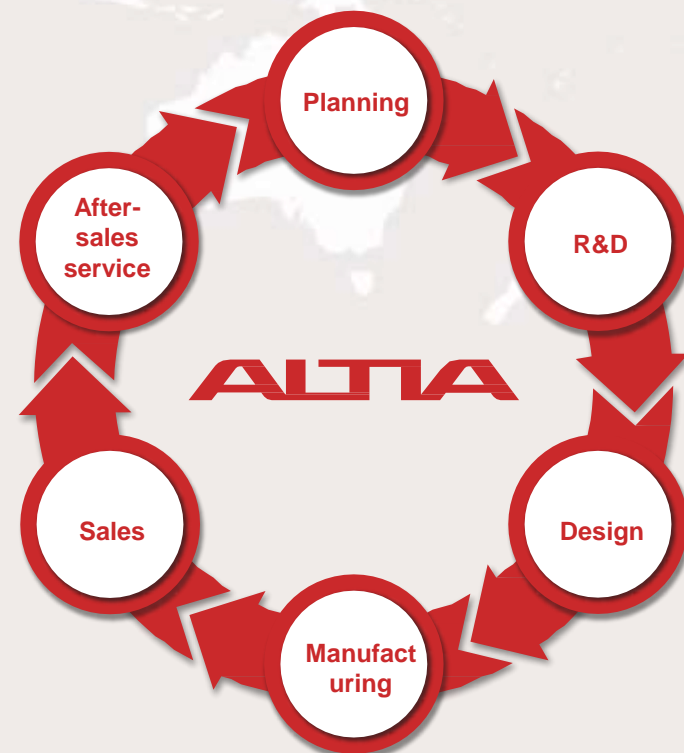
# Being your reliable and creative partner

# ALTIA

Connect you to the future. Support the future.  
Connect the safety, security and comfort of cars to the future.  
Support the future of warm living, society and environment.  
For people and cars to be the best partners of any era.

With its value proposition and creativity, ALTIA will continue to pioneer its future as a trusted business partner that is familiar and approachable to its customers.

Aiming to become a creative and reliable partner, we will continue to take on challenges on a daily basis, not only for development of Japan, but also for global development.



The main products, such as vehicle inspection equipment and lifts, are developed and manufactured in-house and then delivered to customers. The entire process of planning, development, design, manufacturing, sales and after-sales service is carried out in an integrated manner.

## Achievements in Japan



## Achievements overseas



# Model layout of maintenance yard/final inspection yard

It is a model layout of the maintenance yard/final inspection yard that is conscious of the flow line for maintenance of large vehicles.  
By deploying the latest maintenance equipment, we can achieve a work environment that is highly workable and safe.

**Vehicle inspection equipment**

- 1 Computer-based vehicle inspection system "Smart-VIS" P.5
- 2 Side slip tester P.7
- 3 Brake + speedometer combo tester P.7
- 4 Free roller P.8
- 5 Headlight tester P.7
- 6 Emission tester P.8
- 7 Opacity meter P.8

**Cleaning equipment**

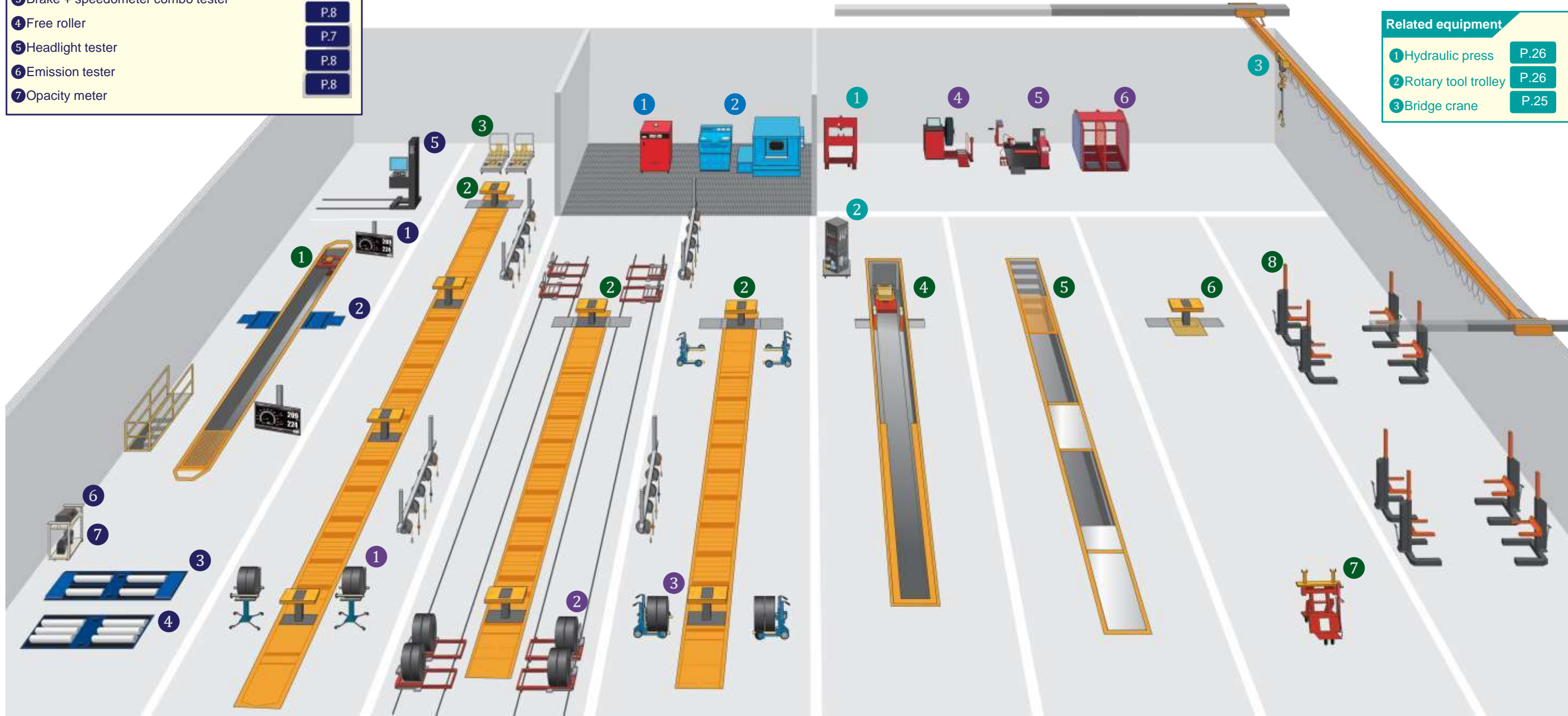
- 1 High-pressure washer P.20
- 2 Parts washer P.20

**Chassis equipment**

- 1 Tatteler P.14
- 2 Rail type wheel dolly P.14
- 3 Mobile wheel dolly P.14
- 4 Wheel balancer P.14
- 5 Tire changer P.14
- 6 Safety enclosure for air filling (safety cage) P.14

**Related equipment**

- 1 Hydraulic press P.26
- 2 Rotary tool trolley P.26
- 3 Bridge crane P.25



**Lift and jack**

- 1 Pit lift P.12
- 2 Caterpillar-type flat lift (2 posts/4 posts) (with hydraulic extension/retraction pedestal) P.9~P.10
- 3 Attachment trolley P.10
- 4 Quick service trio P.11
- 5 Floor lift (separate panels, stairs + slide covers) P.11
- 6 Front lift (flat type) P.10
- 7 Frame lift P.12
- 8 Column lift P.12

Model layout of maintenance yard/final inspection yard

Model layout of maintenance yard/final inspection yard

Vehicle inspection equipment

Lift and jack

Alignment - aiming of chassis equipment

Environmental related equipment Oil service equipment

Car wash layout

Car washing and cleaning equipment

Layout of B&P workshop

Body repairing and painting equipment

Safety measures and related equipment

Model layout of maintenance yard/final inspection yard

Model layout of maintenance yard/final inspection yard

Vehicle inspection equipment

Lift and jack

Alignment - aiming of chassis equipment

Environmental related equipment Oil service equipment

Car wash layout

Car washing and cleaning equipment

Layout of B&P workshop

Body repairing and painting equipment

Safety measures and related equipment

Vehicle Inspection Equipment

# Vehicle inspection equipment

Improving the efficiency of vehicle inspection with various vehicle inspection devices from the latest system!

## Computer-based vehicle inspection system "Smart-VIS"

Strives for visibility! Achieves greater efficiency in vehicle inspection!  
Contributes to prevention of unimplemented inspection and human errors!

- Contributes to reducing work time by automating vehicle inspection equipment and automatically judging measured values.
- Adopts a graphic design with excellent visibility! Uninspected items and non-conforming items are also clearly visible.
- Achieves accurate printing of record book.  
*(If there are non-conforming items or uninspected items, the record book cannot be printed)*
- Contributes to enhanced work efficiency and compliance through a wide variety of optional features!



Monitors can be upsized or added to suit your needs!  
55-inch monitors are recommended for inspection lines for large vehicles!

32 inches (standard) | 42 inches | 55 inches

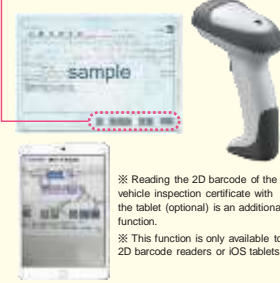


Product No. **IM9832-SV00**

### Smart-VIS's options

#### Vehicle information input system

By using tablet or barcode reader, you can reading the 2D barcode of vehicle inspection certificate, reducing the troublesome time of entering vehicle information.



#### Check the screen on a tablet

Since the measured values can be confirmed at hand, visibility and workability are dramatically improved.  
※ The confirmation function on the tablet is currently limited to the display function due to the model approval of the Japan Automotive Service Equipment Association.  
※ The tablet screen is just for reference.



#### Vehicle image saving system

Switching between monitors allows you to record, save and print vehicle images during completion inspections and check vehicle lights!



#### Functions exclusive to large vehicles

Automatic measurement of side slip of front and rear axles and automatic printing of measurement results on the record book in a vehicle with two front axles

The side slip of front and rear axles of a vehicle with two front axles is also automatically measured and judged in the same way as the foremost axle, and the measurement results are printed in the measurement results column of the designated maintenance record book.

Automatic measurement of special brake force device for towed vehicles (trailers) and other functions for such towed vehicles

The system automatically measures the "emergency brake" (release brake) that activates when the trailer is released from the tractor, and automatically prints the measurement results in the release brake column of the designated maintenance record book for the trailer.

## OSS (one-stop service) application system (linked type)



Smart-VIS Can be linked to various maintenance systems and OSS application system!

- By linking with the OSS application terminal owned by the customer, it is possible to print the "Inspection by Inspection Equipment etc." part of the designated/specified maintenance record book!
- It contributes to reducing work hours and reducing the burden on inspectors!

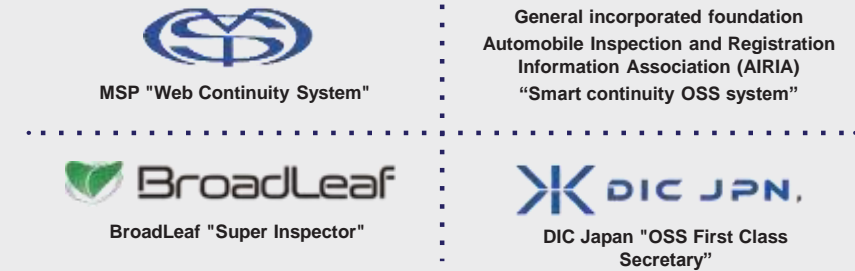


### PICK UP

#### What is OSS (one-stop service)?

A service that enables inspection registration, application for storage site certification, and payment of taxes and fees in a lump sum on the Internet.  
By using this service, we can not only greatly shorten application and work time during continuous inspections, but also make application documents paperless, and reduce entry errors and payment in cash.

▶ Linkable OSS application system (key example)



## Vehicle inspection efficiency system CAI-EX05

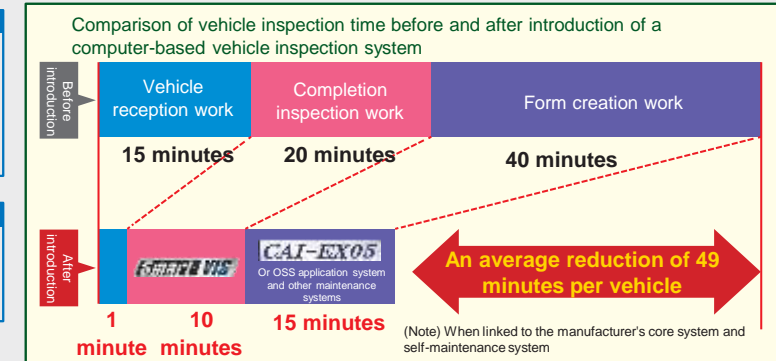
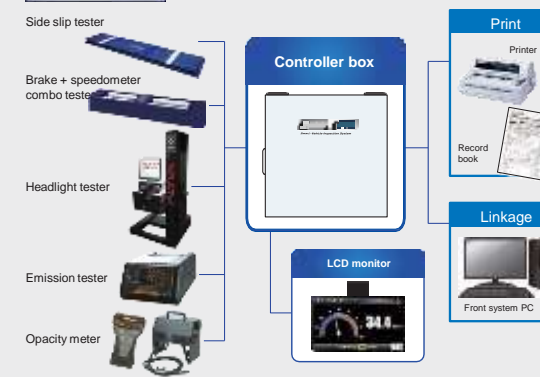


Smart-VIS + Supports the improvement in the overall efficiency of vehicle inspection such as customer management and form creation!

- It is possible to prevent input errors in inspection items and inspection procedures, and to indicate (display) candidates for replacement parts, and save the input data!
- It is possible to print the entire record book and various vehicle inspection related forms!
- It can be linked with OSS (one-stop service)!



### CAI-EX05 Product configuration



## Printing of the entire record book as well as the legal documents for vehicle inspection

It is possible to print the entire record book with the information (entered into the acceptance PC of CAI-EX05) about vehicle inspection certificate and about work instructions and results of inspection items, as well as the information about inspection results transferred from Smart-VIS. In addition, by printing the legal documents required for vehicle inspection, it will greatly improve efficiency and strengthen compliance in the administrative process of vehicle inspection.

### Printable documents related to vehicle inspection

- Printing of measurement column of record book
- Printing of entire designated maintenance/disassembly record book
- Weight tax payment certificate
- Self-compensation liability application
- Continuous inspection application
- Safety standards conformance certificate
- Certificate of conformity delivery ledger
- Preliminary parts purchase order
- Work instructions



記録簿の全面印字  
CAI-EX05

## CAI-EX05's options

### Function for importing vehicle inspection certificate information

#### 2D barcode reader

A dedicated barcode reader is used to read the 2D barcode on the vehicle inspection certificate. Accurate vehicle information can be obtained and manual input can be reduced.



#### PDF conversion scanner

A special scanner is used to read the vehicle inspection certificate and converts all vehicle and customer information on it into character data with a recognition rate of 99.9%, which can then be used as reception information for the CAI-EX05.



All items listed in vehicle inspection certificate are sent to CAI as text data!!

\* The recognition rate is a numerical value when the original of the vehicle inspection certificate is read. Dirty vehicle inspection certificates or copies may reduce your recognition rate.

Smart-VIS is a model that can be linked to Smart-VIS.

### 10t side slip tester

Able to measure the axial slip amount of a vehicle with 2 front axles (IM2201, IM2202)

Is there an increase in the number of warehoused vehicles with 2 front axles? Please consider the side slip tester that can perform "axial slip measurement" for large vehicles.

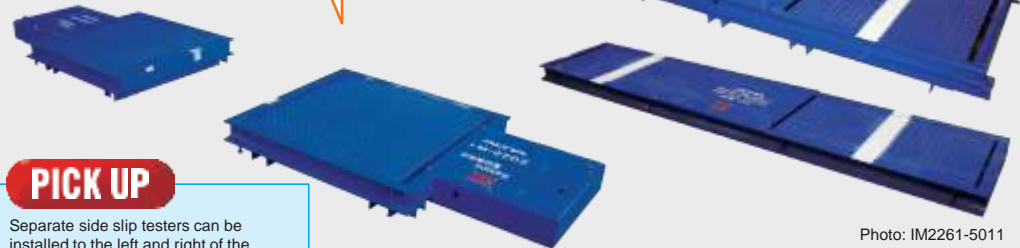


Photo: IM2201-6010

Photo: IM2261-5011

Photo: IM2202-6010



\* The IM2201/IM2261 side slip tester does not support digital indicator.

#### PICK UP

Separate side slip testers can be installed to the left and right of the inspection pit, and adjustments can be made on the spot after measurement.

- Right and left separate type for measurement of axial slip  
Meter hanging type  
Product No. **IM2202-6010**
- Integrated type for measurement of axial slip  
Meter hanging type  
Product No. **IM2201-6010**
- Integrated type  
Meter hanging type  
Product No. **IM2261-5011**

### 10t brake + speedometer combo tester (Super Combi Tester)

Silent rollers are our own unique knurled rollers that are both silent and slip resistant.



Photo: IM2599-7011

Photo: IM2593-7011

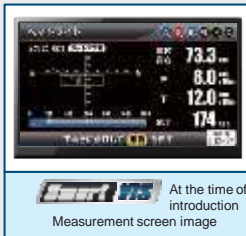
- Grooved roller type  
Meter hanging type  
Product No. **IM2599-7011**
- Silent roller type  
Meter hanging type  
Product No. **IM2593-7011**



### Headlight tester



- Supports downward pointing
- Supports fog lamp (minimum height: 25cm)
- Equipped with cross-line laser
- Supports new light sources (HID/LED)



- Image processing - Automatic type  
Product No. **IM2774**
- Image processing - Manual type  
Product No. **IM2703**
- Image processing - Visual type  
Product No. **IM2707**
- Screen type  
Product No. **IM2714**

### Free roller

- Combined with the brake + speedometer combo tester to perform inspection of large vehicles with 2 rear axles



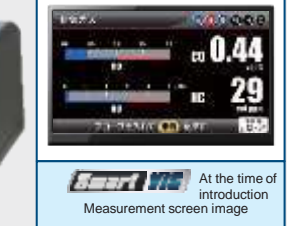
Product No. **IM2594-0000**

### Emission tester UREX-5000V II

- Easy calibration for correct measurement at all times
- Use of highly visible organic EL



Photo: E G 1802-5000



- 2 gases  
Part No. **EG1802-0000**  
HC CO
- 4 gases  
Part No. **EG1802-5000**  
HC CO CO<sub>2</sub> O<sub>2</sub>
- 5 gases  
Part No. **EG1802-5500**  
HC CO CO<sub>2</sub> O<sub>2</sub> NO

### Opacity meter

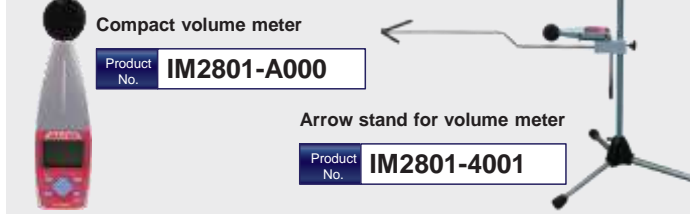


At the time of introduction  
Measurement screen image



- DEX-200  
Product No. **IM5021-0000**
- JASEA-OP-13  
Product No. **IM5050-0000**

### Compact volume meter and arrow stand



- Compact volume meter  
Product No. **IM2801-A000**
- Arrow stand for volume meter  
Product No. **IM2801-4001**

### Visible light transmittance tester

- Easy measurement by pinching the inside and outside of the window glass with the measuring instrument

#### PICK UP

In order to comply with safety standards, the transmittance of the front and side glass must be 70% or more.

- PT-500 (with calibration certificate)  
Product No. **IM2897-0100**

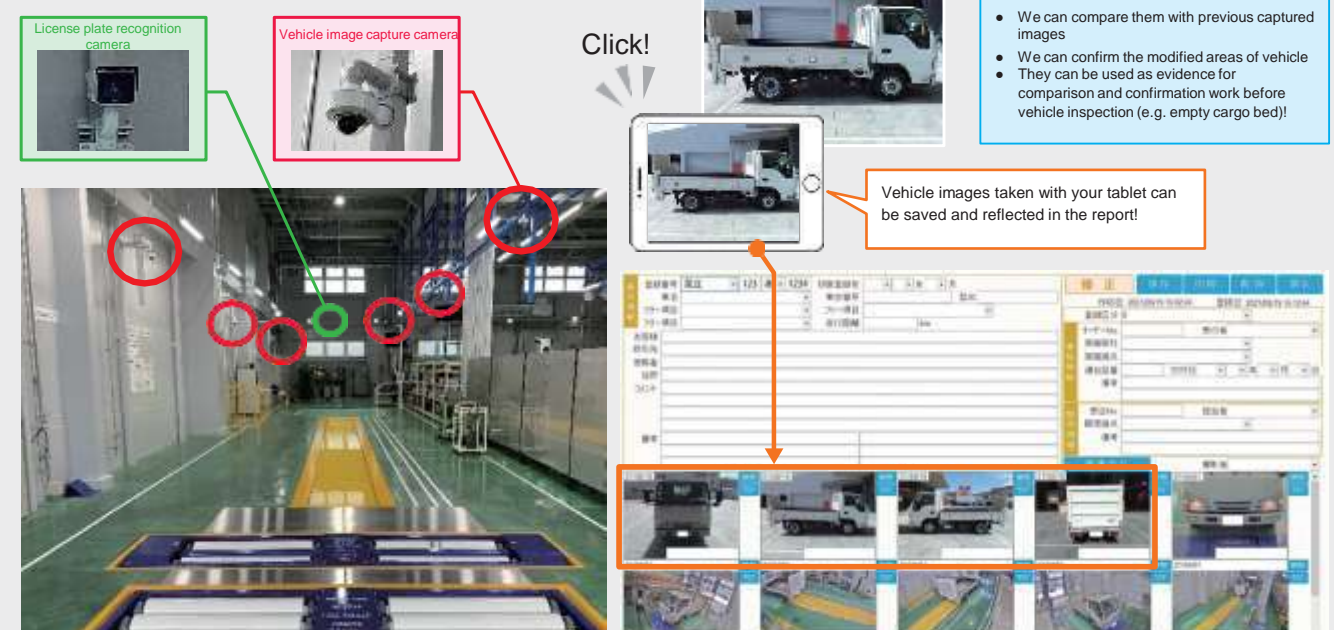
### Vehicle image capture and saving system

- It contributes to enhanced compliance by automatically capturing and saving vehicle images.
- It can acquire license plate information with the license plate recognition camera, and automatically generate and save the folder for saving the vehicle images.
- It can take any image using a tablet and save it in the same folder.
- Compared to manual photographing with digital cameras, etc., it achieves a significant reduction in the time required for photo sorting and saving.

- High work efficiency
- ES improvement
- Enhanced compliance

#### PICK UP

By saving any images,  
 • We can compare them with previous captured images  
 • We can confirm the modified areas of vehicle  
 • They can be used as evidence for comparison and confirmation work before vehicle inspection (e.g. empty cargo bed!)



\* A total of 6 cameras are installed for the front, middle, and rear to capture the images. \* The registration number (license plate information) is dummy.

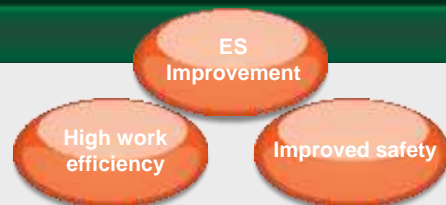
Vehicle Lift & Jack

# Lift and jack

Contribute to a safe working environment and greater efficiency

## Caterpillar-type flat lift

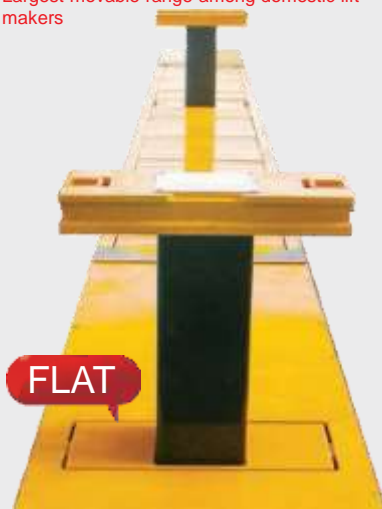
- A rich lineup (2 to 5 posts) that allows you to choose the number of posts according to the type of vehicle being serviced.
  - Three styles that match the situations on site
  - Adopts the Flat & Flat mechanism
- Whether the lift is raised or lowered, the floor is always flat for excellent safety and workability.



### 32t (16t +16t) twin

Compatible with a wide range of applications, from small trucks to large trucks and buses.

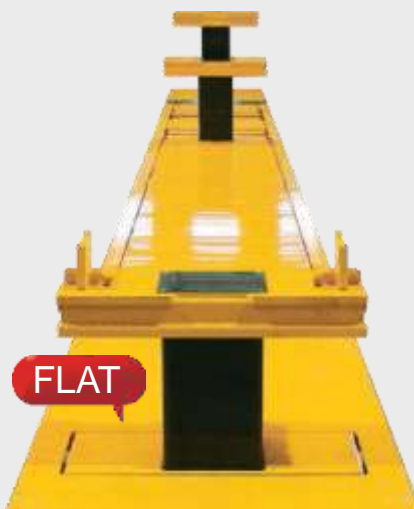
Largest movable range among domestic lift makers



Product No. **LM4142-1RFF**

### 48 (t16t +16t +16t) 3 posts

3 posts for vehicles with 2 rear axles and vehicles equipped with air suspension.



Product No. **LM4143-1RFF**

### 64 (t16t +16t +16t +16t) 4 posts

Ideal for lifting up four-axle vehicles, full trailers, articulated buses, etc.  
Also supports simultaneous maintenance of two small trucks



Product No. **LM4144-0RFF**

### Selectable remote control types

- Wired/wireless remote control for excellent operability!



Wired remote control      Wireless remote control

※ Wired remote control is equipped as standard even if wireless remote control is selected.

### Three styles that match the situations on site

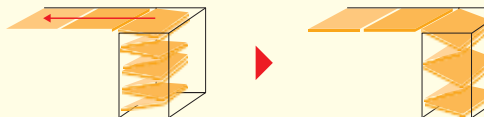
#### Slide plate

With the smallest pit width in the line-up, it can reduce the man-hours required for earthworks and lower construction costs.



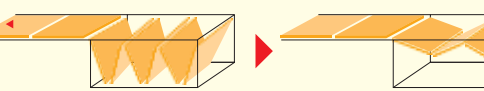
#### Caterpillar vertical storage

The type with the most application cases. A caterpillar system is used, and the plates are flat without overlapping.



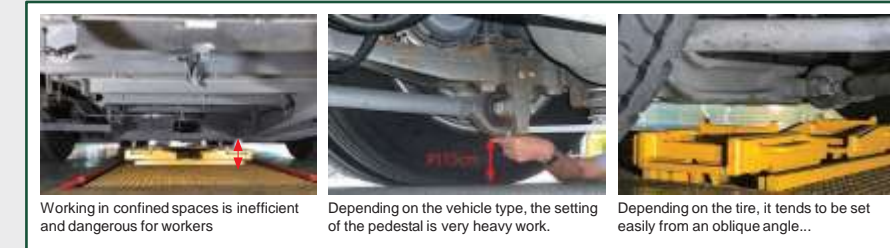
#### Caterpillar horizontal storage

The ideal type for substituting for our existing lifts. Replacement is possible by constructing only the upper rails without dismantling the entire pit.



## Caterpillar-type flat lift (with hydraulic extension/retraction pedestal)

Are you struggling with setting up the pedestal?



Working in confined spaces is inefficient and dangerous for workers

Depending on the vehicle type, the setting of the pedestal is very heavy work.

Depending on the tire, it tends to be set easily from an oblique angle...



That struggle will be solved by the hydraulic extension/retraction pedestal!!

Patent No. 66561 6

16t + 16t  
Caterpillar-type flat twin lift (with hydraulic extension/retraction pedestal) - vertical storage type

Product No. **LM3032-20CF-S**



You can watch the video of the hydraulic extension/retraction pedestal.

※Flat lifts larger than twin lifts can be custom-made according to the specifications of the hydraulic extension/retraction pedestals.

## Attachment trolley

- Accommodates all standard attachments
- Safe with low-platform type! Reduces the burden on the hands and back associated with moving in and out of the attachments



LM4142-1RFF dedicated model

Product No. **LM41AD-0000**

3-section vertical type

Product No. **LM41AD-1000**

### Various attachments

#### Standard attachments

▶Axle attachments for the front/rear (4 pieces each)



▶Trunnion attachments for the rear (4 pieces each)



Example of attachment usage

▶Frame attachments for the rear (4 pieces each)

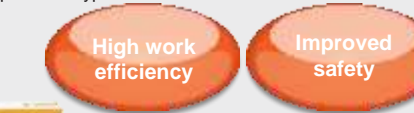


Attachment example

Custom-made attachments are also available for a wide range of vehicle models.

## Front lift

- Compact design with integrated hydraulic unit
- Square posts + unique internal structure ensure high safety
- Low oil volume/high pressure type



\* This product is of a flat type (FLAT & FLAT).

13t Cylindrical type (flat type)

Product No. **LM4148-0TFF**

15t Pit type (flat type)

Product No. **LM4149-00FF**

10t Pit type

Product No. **LM4130-0001**

10t Cylindrical type

Product No. **LM4130-001T**

## Medium pressure test lift

- Test lift that can be selected to suit maintenance and car washing applications
- Floor-mounted and separate hydraulic unit for high maintainability



11t For maintenance

Product No. **LM4120-G000**

11t For car washing

Product No. **LM4120-GW00**

15t For maintenance

Product No. **LM4121-G000**

15t For car washing

Product No. **LM4121-GW00**

## Floor lift

**Pursuing high work efficiency and ease of use according to the needs of the site!**

- A lift that raises and lowers the pit floor to achieve safe and fast work.
- It can be used for everything from quick work to heavy work, such as oil change and transmission change.



### A variety of customization and introduction cases

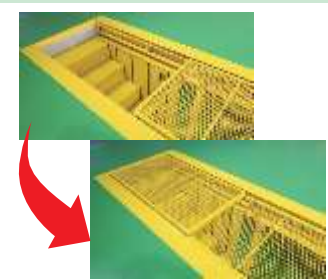
#### ▶With separate panels



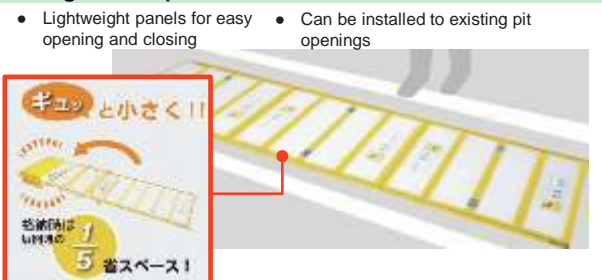
#### ▶Pit lift



#### ▶Stairs + slide covers



#### ▶Panels for avoiding falling into the pit



#### ▶Oil drip pan



## Maintenance system for large vehicles (Quick Service Trio)

**Various responses to quick maintenance and heavy maintenance with the combination of floor lift + axle lift!** ※ The equipment in the lift such as the transmission lift, safety equipment and reel is optional.

- Achieve efficient and safe work for low-floor vehicles, non-step buses, etc.
- Upper and lower simultaneous maintenance is possible, that is performing maintenance from above by holding the axle lift and from below by lowering the floor lift.

#### 7m specification

Product No. **LM4190-1010**

#### 12m specification

Product No. **LM4190-1020**

#### ▶Axle lift

Capacity: 5t + 5t



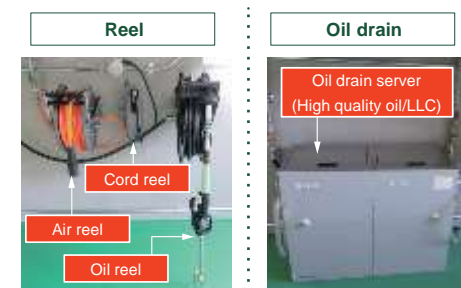
#### ▶Transmission lift (optional)



#### ▶Safety equipment (optional)



#### ▶Customized parts of the lift (optional)



The Quick Service Trio can be combined with customized floor lifts for more efficient maintenance.

## Column lift

- It can be installed anywhere in a horizontal surface, and effective use of the work space can be achieved!
- No construction work required!
- It is very useful as a sub-lift for quick maintenance during busy periods!

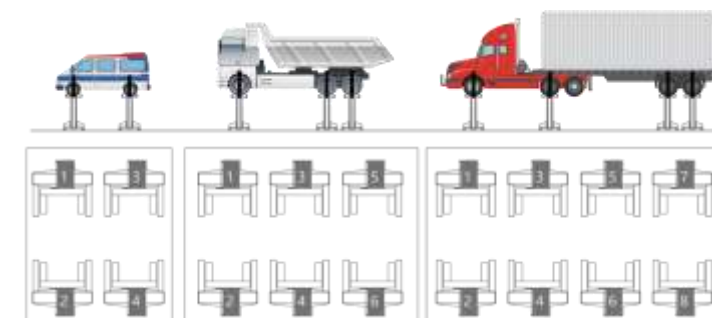


10t/unit Wireless, hydraulic tuning

Product No. **LM4348**

- 4 units/set

#### Usage Image



## 4-post lift master

- Ideal for quick maintenance of medium and small trucks and micro buses!
- A complete safety system for working with peace of mind



4.5t

MK-450 standard type

Product No. **LM4320-0000**

5t

MK-500 standard type

Product No. **LM4321-0000**

## Pit lift

- It is possible to move freely back and forth in the pit
- Since it can be adjusted to the left and right, quick setting to the vehicle is possible
- Safety design equipped with a lowering prevention device for safety



5t

Product No. **LM4163-0000**

10t

Product No. **LM4152-0000**

## Low-profile air garage jack



5t

Product No. **LM4555-A000**

10t

Product No. **LM4454-0002**

15t Vertical lifting type

Product No. **LM4621-15VL**

## Frame lift

- Combined with the front lift to increase efficiency!



10t Rear insertion type

Big 10

Product No. **LM4353-0000**

15t Rear insertion type

Big 15

Product No. **LM4354-0000**

## Low-profile truck lift

- Allows for smooth movement



10t Side insertion type

Product No. **LM4357-1000**

15t Side insertion type

Product No. **LM4357-1500**

Wheel Alignment & Aiming

# Alignment · Aiming

Altia original item for ASV (advanced safety vehicle) maintenance

## Wheel alignment tester for large vehicles - Jumbo 3D SUPER

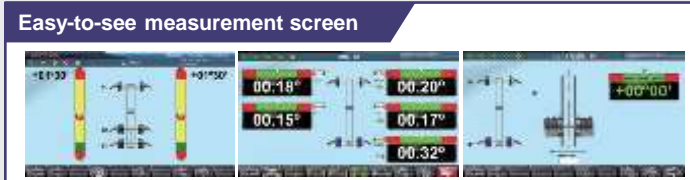
**PICK UP** Contributes to reducing tire costs and fuel costs!

- 3D high-performance camera for fast measurement
- Capable of measuring vehicles with up to 5 axles
- Printable diagnostic report
- 32-inch monitor equipped as standard
- Easy-to-see measurement screen
- Equipped with dual sub-monitors as standard
- Operation and confirmation of measurement values on smartphones and tablets

Enhanced compliance

High work efficiency

### Jumbo 3D SUPER



#### Easy-to-see measurement screen

#### Enhanced mirroring function

**Dual monitors**

**Smartphone and tablet**

The screen can be operated even from a position away from the monitor! It contributes to high work efficiency!

Android/iOS  
Compatible with smartphones and tablets!

Product No. **IM2330-0000**

※ A separate dedicated App must be installed  
※ Please prepare your own tablet/smartphone.

## Aiming pedestal tools

**PICK UP** Achieves simple, accurate and rapid aiming!



**ADAS MASTER**  
Product No. **IM2310-0000**



**Dr. LIN**  
Product No. **IM2320-0001**

※ ADAS master and Dr.LINE are not applicable to large vehicles.  
※ ADAS master is a support tool dedicated to camera aiming.

## Scan tool

**PICK UP** Compatible with a wide variety of aiming work!  
Compatible with all 23 manufacturers, including 4 domestic truck and bus manufacturers



**SSS-T2**  
Product No. **EG3005-0000**

**SSS-α II**  
Product No. **EG3004-0000**

Wheel service equipment

# Chassis equipment

Saving labor with the latest tire-related equipment

## Tire Changer - Mega Winning II

- Ideal for tubeless tire replacement!
- Double action method to speed up work



**TB LT Tubeless**  
Product No. **WS3955-1000**

## Tire changer - Giga Winning

- Compatible with large tires with up to 2,400mm outside diameter
- Also supports replacement of tires for construction vehicles and agricultural machinery



**OR TB LT AG Tubeless**  
Product No. **WS3303-0000**

## Wheel balancer - Mega Road II

- Equipped with distance auto-input function
- Achieves safe work through low-speed rotation (TB mode: 180 rpm)
- Built-in lift for easy setting



**TB LT (optional) PC (optional)**  
Product No. **WS3197-2000**

## Safety enclosure for air filling - Mega Safety II

- Reduces the impact of burst when filling the tire with air

Have you taken safety measures when filling tires with air?

Under the Occupational Safety and Health Act, businesses are required to use equipment such as safety enclosures to prevent burst tires from flying towards the workers.



**Single-row type: Automatic air filling**  
Product No. **WS3198-2100**

**Double-row type: Automatic air filling**  
Product No. **WS3198-2200**

## Tatteler

- Wheels can be removed, installed and serviced with the vehicle in high lift!
- Achieves safe, comfortable and fast work, and reduces burden on mechanics



**TH200-SW**  
Product No. **WS4065-0000**

## Wheel dolly

- Safe and speedy tire removal is possible!



**Mobile type NWD-500G**  
Product No. **WS4050-0000**

**Rail type**  
Product No. **WS4055-0000**

## Impact wrench hanger

- Even a large, heavy impact wrench can be operated upward, downward, leftward and rightward with light force
- Safe and quick installation and removal of tires for large vehicles



**NRH-618**  
Product No. **WS3741-0000**



# Oil service equipment

Improving work efficiency and saving labor with the latest oil-related equipment

## Oil hose reel



Oil hose reel 1/2 15 m

Product No. **LS5064-4G15**



Digital preset Batch meter

Product No. **LS5361-0000**

## Oil pump

- Can pump, transfer and supply oil from 200L drums, tanks, etc. (LS5146-0000)
- Compressed air from the compressor combines the air-powered® oil pump and peripheral equipment into a unit, realizing safe, secure, and reliable work (LS5137-125S).



Drum pump DR-125A13

Product No. **LS5146-0000**



Pump kit with stand

Product No. **LS5137-125S**

## Oil drain/drain cart

- Improved workability by adopting a 100 L large waste oil tank (ND-100)
- Oil can be drained without lifting the vehicle (ND-80)



Oil drain ND-100

Product No. **LS6016-4000**



Drain cart ND-80

Product No. **LS6016-6000**

## Bearing grease lubricator

- Achieves easy and reliable greasing of bearings
- Compact design with telescopic slider lift



GP-850

Product No. **LS5364-0000**

## Oil drain box

- Waste oil and waste LLC can be pumped from the factory and discharged to the tank.
- Achieves smart waste oil treatment



OLD-S (Single sink)

Product No. **LS6012-0000**

- With air pump

## Lube oil tank

- Vertical and space-saving single tank
- Body made of galvanized steel



JT-251B 240L

Product No. **LS6020-2000**

JT-491B 432L

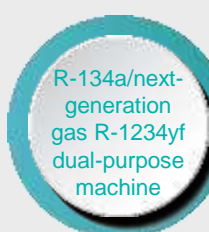
Product No. **LS6020-4000**

We have a rich lineup of lubricating oil tanks. Please contact our representatives for details.

# Environment-related equipment

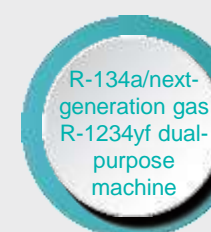
Essential items for future maintenance that are environmentally friendly

## Air conditioner gas recovery/regeneration equipment



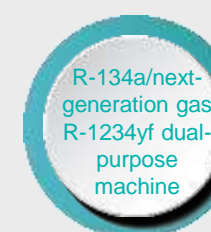
Dual-purpose 2-way Ecomax WS CS-YF134WS

Product No. **EE6427-5000**



RSA-780R

Product No. **EE6415-2000**



OKC-DUAL

Product No. **EE6416-2000**

## DPF Quick Refresher II

- Strong automatic cleaning of PM and Ash in DPF
- DPF can be cleaned while in the on-board state! Removal and installation is unnecessary, resulting in a significant reduction in time

500,000km driven. The number of forced burns has increased...

High work efficiency

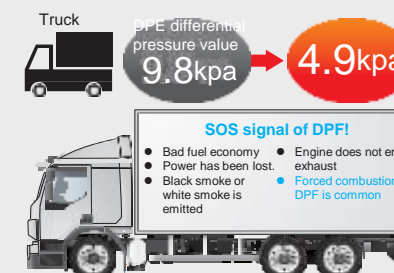
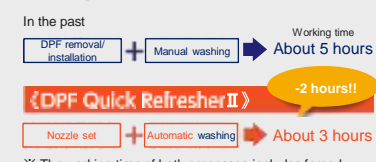


DPF Quick Refresher II

Product No. **EE5001-0000**

Initially introduced chemical set (3 units)

Product No. **EE5000-2000**



**PICK UP** Removal and cleaning is also automated with the off-the-car attachment!

M size (φ185mm) Product No. **EE5001-4000**

L Size (φ268 mm) Product No. **EE5001-5000**

## Exhaust gas system

- Contributes to improving the working environment by discharging exhaust gas outdoors
- Workspaces can be used effectively



S3-5SNR

Product No. **EE6312-0000**

## Brake fluid changer

- Compatible with various advanced brake systems



High Bleeder BB-1000RN

Product No. **WS3376-10RS**

## Spot and zone air conditioning system - FLEX AIR

- Achieves spot air conditioning and zone air conditioning even in buildings such as factories and warehouses where overall air conditioning is difficult due to no partitions and high ceilings!



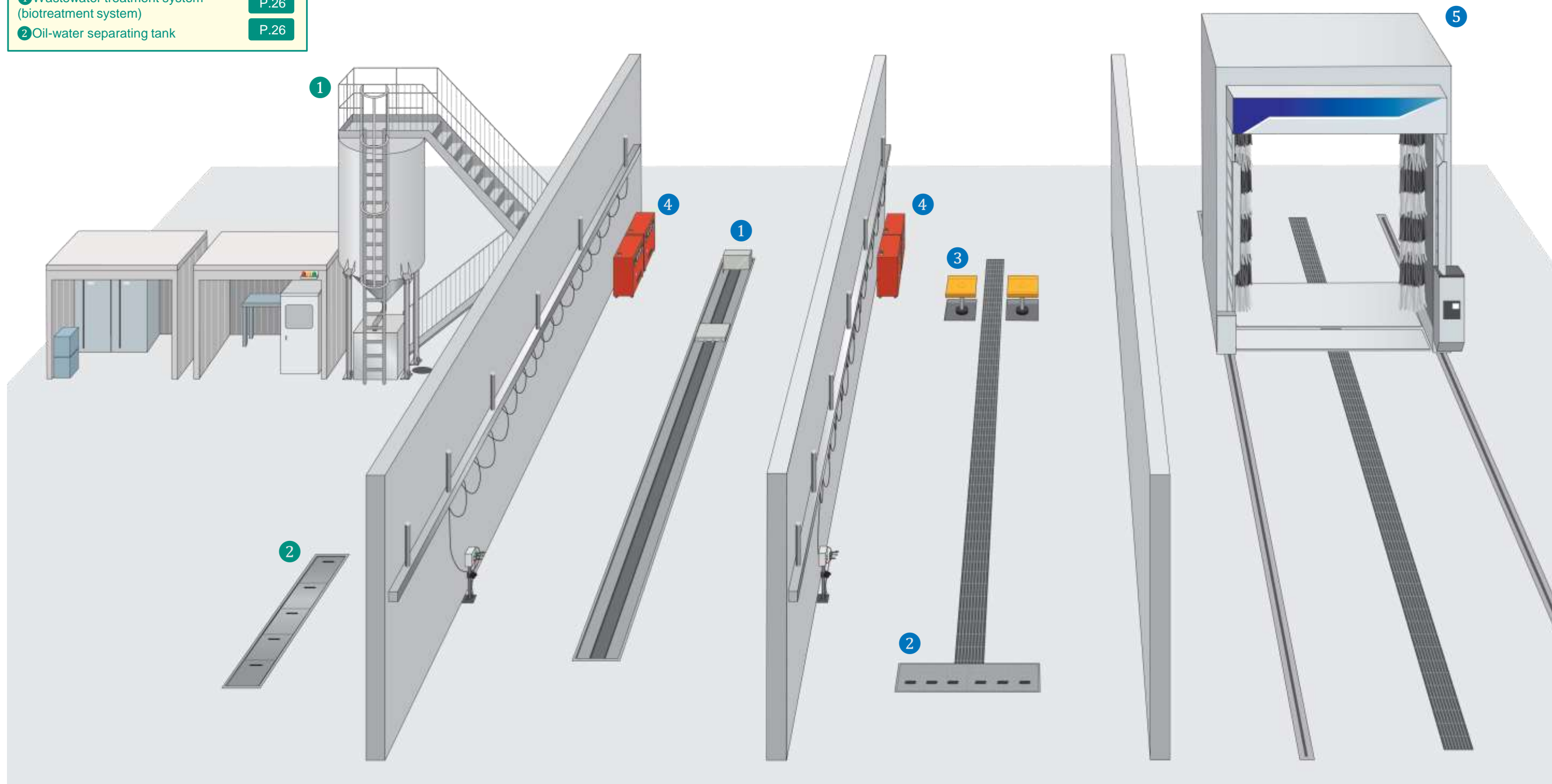
# Model layout of car wash

It is a car wash model layout that takes into account the efficiency of body washing and chassis washing.

In order to comply with the living environment items of the Water Pollution Prevention Act, it is also necessary to consider the installation of wastewater treatment system.

## Drainage-related equipment

- 1 Wastewater treatment system (biotreatment system) P.26
- 2 Oil-water separating tank P.26



## Chassis/body washing equipment

- 1 Mobile underside washer P.19
- 2 Fixed underside washer P.19
- 3 Wheel uplift P.19
- 4 High-pressure washer P.20
- 5 Gantry car washer P.19

※ 2 The iron lid of the oil-water separating tank has been painted. If it is unpainted, the iron lid will have a different color.

Cleaning Service Equipment

## Car washing and cleaning equipment

Contributing to labor saving and plant beautification with the latest lineup of automatic car washing, parts washing, and floor scrubbing

High work efficiency

ES improvement

### Gantry car washer for large vehicles

#### ► Gantry car washer for large vehicles - KAI

- Achieves overwhelming lightness!
- Extensive options such as cold weather models and water repellent coat courses



Product No. **CS6607-0000**

#### ► Gantry car washer for large vehicles - CAMION CUSTOM

- The fastest in the industry! Car washing completed in 4 minutes (when washing a 10t car/12m body back and forth for one round)



Product No. **CS6680-0000**

### Underside washer

- Vehicle washing time is significantly reduced compared to manual washing
- Powerful cleaning, effective for potassium chloride and mud stains

High work efficiency

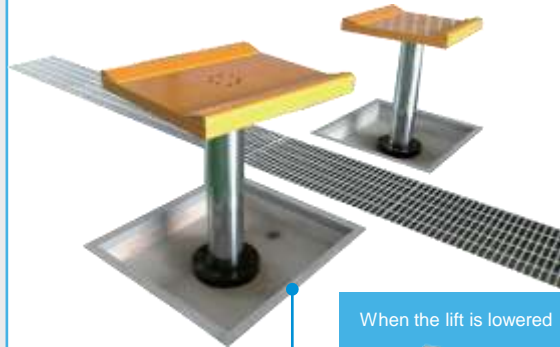
ES improvement

**Mega Shine 3000 and Aqua Shine 3000 GIGA are recommended for washing large vehicles!**

**Powerful washing! Strong cleaning power!**

#### Wheel uplift

**PICK UP** Greatly improves work efficiency in combination with the underside washer!



5t + +5t Wheel uplift

Product No. **LM4141-0000**

※ The medium-pressure test lifts listed on page 10 can also be used as lifts for car washing.

JR-65 Product No. **CS9001-0000**

※ Depending on the washing environment, it may be necessary to install multiple units.

※ Upon request, it is also possible to custom-order a mobile underside washer that does not require the vehicle to be moved. Please contact our staff for more information.

### High-pressure washer

- Multi-purpose application from manual car washing to chassis washing!



Suitable for medium-sized vehicles

Mega Shine 1300HP (50Hz)

Product No. **CS7113-0000**

Mega Shine 1300HP (60Hz)

Product No. **CS7113-6000**

Mega Shine 1500 (50 Hz)

Product No. **CS7115-0000**

Mega Shine 1500 (60 Hz)

Product No. **CS7115-6000**

- Flow rate: 1,000L/h(1300HP) · 1,500L/h(1500)
- Pressure: 11 Mpa (1300 HP) · 9 Mpa (1500)



Suitable for large-sized vehicles

Mega Shine 2000 (50 Hz)

Product No. **CS7020-0000**

Mega Shine 2000 (60 Hz)

Product No. **CS7020-6000**

Mega Shine 3000 (50 Hz)

Product No. **CS6030-0000**

Mega Shine 3000 (60 Hz)

Product No. **CS6030-6000**

- Flow rate: 1,650 L/h(2000) · 2,050 L/h (3000)
- Pressure: 10 Mpa



Cold water type for large vehicles

Aqua Shine 3000 GIGA (50Hz)

Product No. **CS7003-0000**

Aqua Shine 3000 GIGA (60Hz)

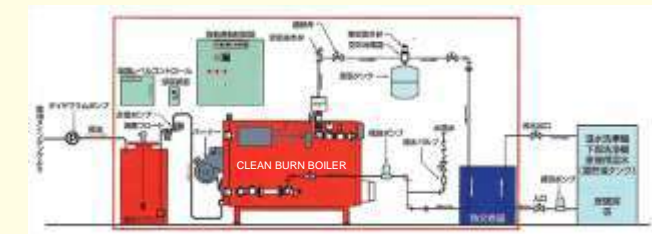
Product No. **CS7003-6000**

- Flow rate: 2,110 L/h
- Pressure: 6 - 7 Mpa

### PICK UP Clean Burn Boiler

Contributes to reducing energy costs by effectively utilizing waste oil!

Waste oil such as used engine oil, hydraulic oil, ATF, and transmission oil can be used as energy to supply hot water. Waste oil can be used to generate hot water for the high-pressure washer, eliminating the need for kerosene as an energy source. It contributes significantly to ecological cost savings.



### Parts washer



JW-350NL

Product No. **CS6385-00NK**

- Maximum size/weight of washing target: Ø 1,170 x H 550mm/500kg



JW-200PB II

Product No. **CS6388-000K**

- Maximum size/weight of washing target: Ø 630 x H 300mm/100kg



Product No. **CS6320-080C**

- Maximum size/weight of washing target: φ800 x H 400mm/120kg



Product No. **CS6320-100C**

- Maximum dimensions/weight of washing target: φ1,000 x H700mm/400kg

### Floor scrubber



Vispa xs scrubber

Product No. **CS6958-0000**

Compact type that can be carried with one hand



Antea 50 BT self-propelled floor scrubber

Product No. **CS6961-1000**

Easy-to-operate self-propelled type



Self-propelled floor scrubber

Product No. **EG-3a**

Compact type that achieves strong cleaning power



Ride-on floor scrubber

Product No. **SE-840e**

The 5000 m floor can be scrubbed with a single washing-water refill!

# Model layout of B&P workshop

Equipped with the latest alignment lines for body alignment

A model layout of a B&P workshop equipped with a frame correction machine and painting booths.

A safer working environment is achieved by equipping the painting booth with aerial work equipment and exhaust equipment.

## Alignment

1 Alignment tester

P.13

## Body repairing equipment

1 Frame correction machine (rail type)

P.23

## Painting equipment

2 Painting booth

P.23

3 Aerial work equipment

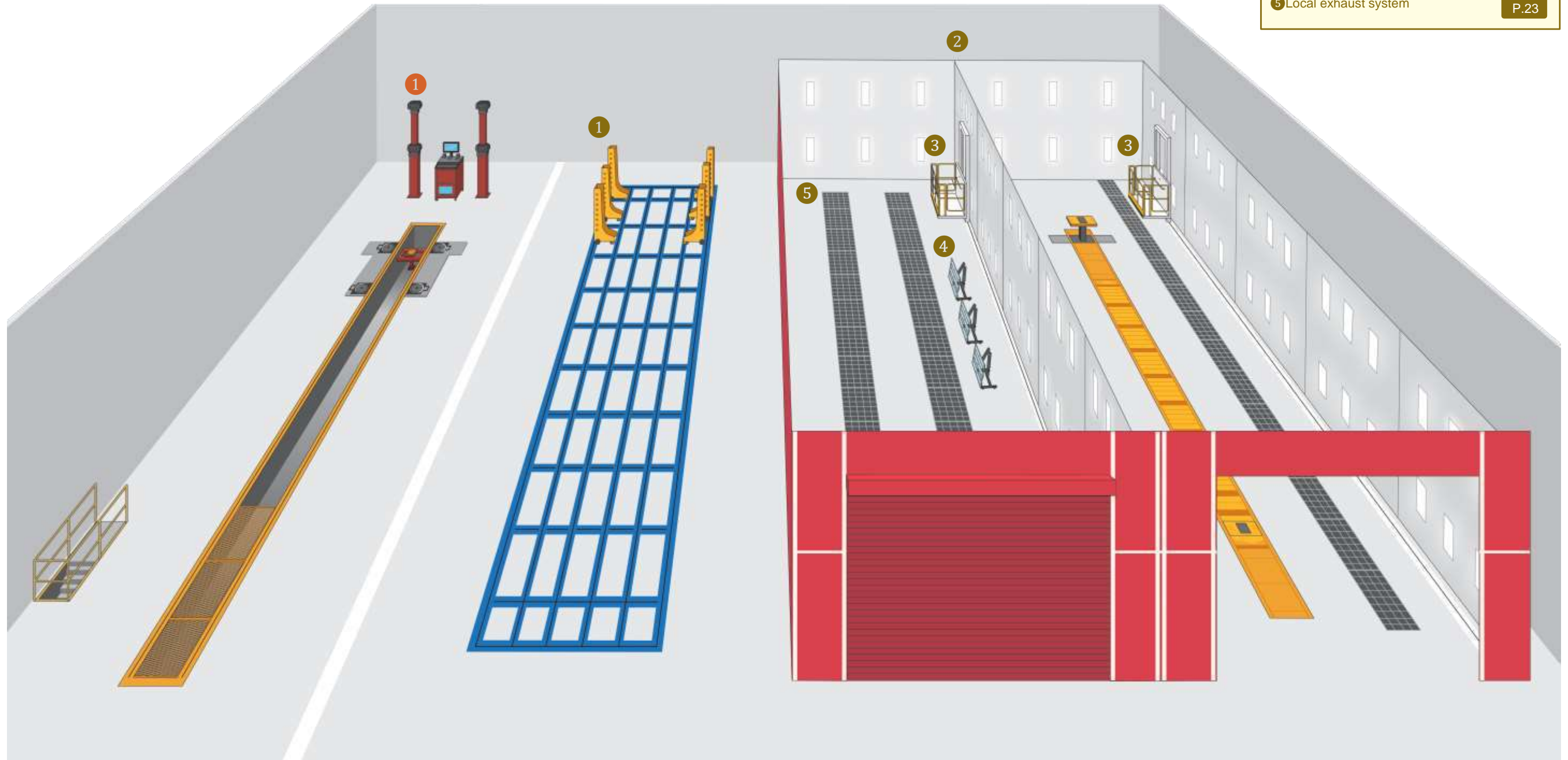
P.23

4 Painting dryer

P.24

5 Local exhaust system

P.23



※ Please follow the instructions of the competent fire department when selecting a lift for the painting booth.  
 ※Please install a separate control and operation unit for the lift.

Body Repairing and Painting Equipment

# Body repairing and painting equipment

Contributes to improving the painting environment and coping with high-tensile steel plates

## Painting booth

### CAB-747

- Creates an ideal, uniform and soft wind
- Compatible with various factory layouts and surrounding environments with a wide variety of options



### G-MAX \* The image is of a shutter-type booth (optional)

- Creates a spacious and bright work space



### CUBIC LGS-5016-16H

- With push-pull and heat-circulation functions, it improves productivity and provides a high-quality painting environment

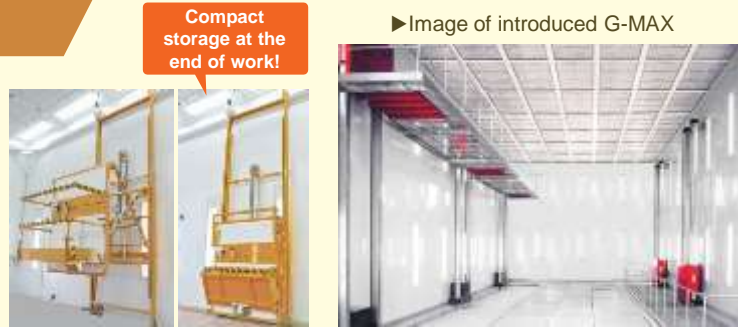


## Aerial work equipment

### PICK UP

It is recommended to introduce aerial work equipment that achieves a high degree of safety when painting large vehicles.

▶ Image of introduced Cubic series LGS-BB-LT-XYZ Pneumatic Access 3D Lift (a type that can move back and forth, left and right, up and down)

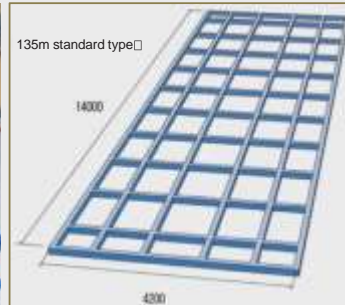


Compact storage at the end of work!

▶ Image of introduced G-MAX

## Truck frame correction machine (rail type)

- By simultaneous pulling and pushing of each tower, direct hammering and bend correction of rivets with a 55t press machine, and measurement with a laser measuring machine, the frame can be corrected in 1mm increments.

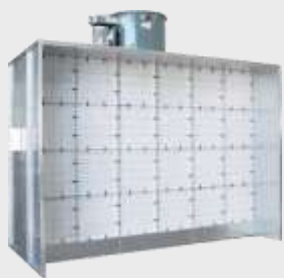


### PICK UP A variety of options



▲ Cubic tower ▲ Strong high joint kit

## Local exhaust device



Floor-mounted



Pit type (for underside)

## Low-pressure painting machine - Spray Ace

- Minimizes paint scattering and contributes to efficient work!
- Ideal for extensive painting of the underside!



HS-200N

Product No. BP7228-0000

## Hot-air painting machine

- Top-class model with the highest power in its class and a noise reduction function



SG2500

Product No. BP7220-2500

## Dry exhaust system - Matching Master

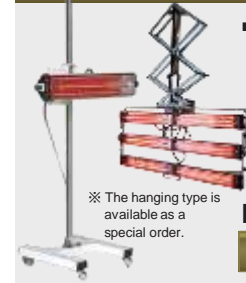
- Pre-filter with high dust-retention capacity reduces filter replacement frequency
- Double filtration by pre-filter and main filter for superior repair efficiency



Product No. KH-4N

## Painting dryer - Heatup Plus

- A wide-ranging lineup, including near-infrared clear lamps, and carbon lamps for water-based paints. (A lineup includes 1-light, 2-light, 3-light and 6-light models.)



※ The hanging type is available as a special order.

HUNM-1

Product No. BP7384-1M00

## Ultrasonic spray gun cleaner

- Speedy cleaning is possible with the power of ultrasonic wave + heat + vegetable detergent!!
- Whether it is water-based or solvent-based paint, one machine can deal with both!



Spray gun cleaner ECO

Product No. BP9299-0000



POINT It can thoroughly remove the paint from the nooks and grooves where it is difficult to remove to paint!



## Spot welder

- A high-class model that combines performance and workability
- A high-power model with a maximum pressure of 670daN
- Freely moves up, down, left and right and rotates
- Ideal for working at heights



For high tensile steel plates

ALPHA V

Product No. BP8044-0000



For high tensile steel plates

YSI-25EZ-P

Product No. BP7950-9103



For high tensile steel plates

Alsace Pro

Product No. BP8025-0000

## Semi-automatic welding machine for aluminum

- Ideal for welding aluminum and stainless steel



For high tensile steel plates

Uni Auto 200L

Product No. BP7884-0001

## Stud welder

- You can leave washer welding and tightening of high-strength steel plates to this unit!

For high tensile steel plates

Best Handman SKE-7000D

Product No. BP8006-7000



## Plasma cutter

- Lightweight and compact! Cutting can be done anywhere

Kitter II

Product No. BP8019-1000



## Welding fume exhaust device



FBM-105 (50 Hz)

Product No. BP8055-0105

FBM-105 (60 Hz)

Product No. BP8055-0106

Welding fumes have been designated as specified chemicals in the Ordinance on Prevention of Hazards Due to Specified Chemical Substances, and the employer has been required to take measures such as introducing ventilation equipment and using protective equipment for workers.



Usage image

Safety Equipment & Others

# Safety items and related equipment

Achieving a safe and efficient work environment with equipment unique to large-sized vehicle maintenance

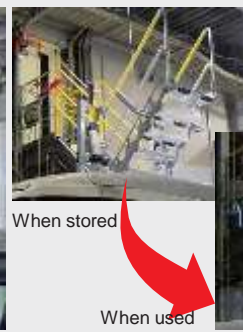
## Overhead crane/chain block

- Essential items for major maintenance
- A diverse lineup for a variety of applications, specifications, environments, and capabilities



- Improved safety
- High work efficiency
- ES improvement

## Aerial-work swing stage



- Improved safety
- High work efficiency
- ES improvement

- Secures a safe foothold as a connecting stairway to the vehicle roof
- Safe and secure transfer possible
- Easy setting, i.e. only needing to lower the stage after warehousing the goods
- Since it is permanently installed, no stepladders or ladders are required, hence creating a spacious and safe working space

## Fall prevention device for aerial work

When working at heights, you must comply with the **Occupational Safety and Health Act**

When working at heights with the foothold **2 meters** above the floor, such as **air conditioner repair, maintenance, car washing, inspection**, etc., it is **essential to set up a safe workplace or take safety measures** such as safety ropes! Violations will result in **penalties for the employer**.

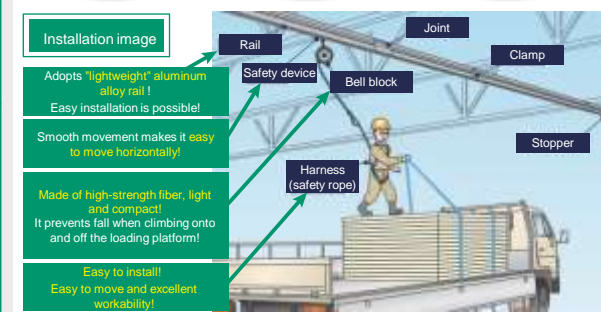
**1,164 fatalities and injuries (approximately 116 per year)** occurred between 2011 and 2020 as a result of **falls and tumbles** during automobile maintenance.

### Accident cases

When the screw conveyor for fodder was disassembled and inspected on the loading platform of the fodder carrier, the worker lost his balance and fell to the ground about **3.9m** below.

**Fall accident due to not wearing a safety rope**

- Improved safety
- High work efficiency
- ES improvement



## Tare-weight scale tester

- With a pressurization capacity of 20 tons (capacity can be increased), it is possible to inspect and adjust the performance of the dump tare-weight scale.



Product No. **IM2800-1000**

## Axle weight scale

- Flat loading surface and ground surface achieve high precision shaft weighing



Product No. **NL-GCF-1**

## Portable axle weight scale



ZAK-06W-10  
10t pad (2 pieces)

Product No. **IM2867-0000**

## Transmission lift for large-sized vehicles



OJ-K950  
Product No. **LM4485-0000**

## Clutch lifter

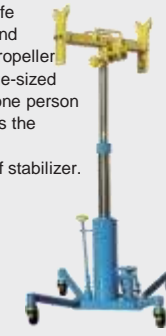
- Enables safe installation and removal of clutch cover and flywheel



NCL-100  
Product No. **LM4702-0000**

## Propeller shaft lift

- Allows for safe installation and removal of propeller shafts of large-sized vehicles by one person
- Also supports the removal and installation of stabilizer.



NPD-150L low type  
Product No. **LM4703-0000**  
NPD-150H high type  
Product No. **LM4703-1000**

## Dump safety

- Contributes to preventing the dump bed from falling and realizes safe work
- 10t, 4t and 2t vehicles can also be handled with accompanying attachments.



DS-700RA long type  
Product No. **LM6721-70RA**  
DS-700SA short type  
Product No. **LM6721-70SA**

## Hydraulic press



35t model for medium-sized vehicles AHP-35  
Product No. **GW8218-0000**  
60t model for large-sized vehicles AHP-60  
Product No. **GW8219-0000**

## Bush changer

- Ideal for removing and installing bushes of large stabilizers and torque rods!
- Can be safely operated by one person



Photo: WS3726-1000  
NBP-500  
Product No. **WS3726-0000**  
NBP-500PW  
With punching wagon  
Product No. **WS3726-1000**

## Element cleaner

- Cleaning the air element through air blowing contributes to improved fuel efficiency



HEM-1000H  
Product No. **CS6433-000H**

## Rotary tool trolley

- From small parts to large tools, any configuration can be custom-made for them.



NRT-300  
Product No. **GW9506-0000**

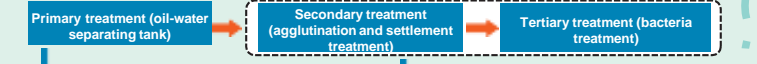
## Wastewater treatment system (biotreatment system)

- Contributes to compliance with regulatory wastewater values when treating wastewater from maintenance plants



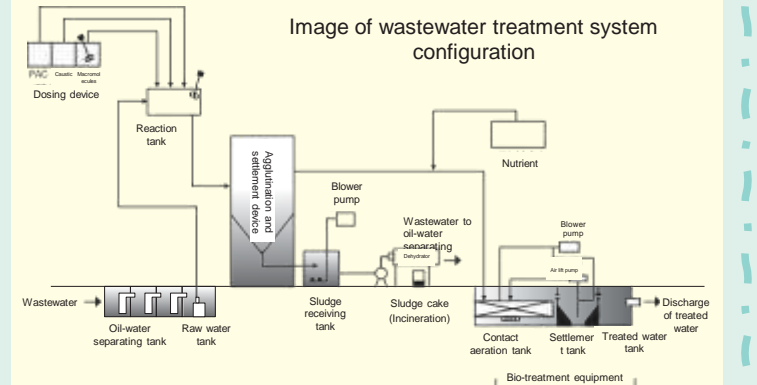
## Importance of wastewater treatment systems

- The permissible range of water quality for wastewater discharged from automobile maintenance plants is specified in the living environment items defined by the Ministry of the Environment.
- There are three main ways to treat wastewater, which vary depending on the size of the plant:



The primary treatment is a wastewater treatment process using an oil-water separating tank. It is necessary to remove as much oil and sludge as possible in this process.

The primary treatment is followed by more advanced treatment (agglutination and settlement treatment as well as bacteria treatment) to fully meet the water quality standards for living environment items.



## Oil-water separating tank - Oil Up

- Highly hydrophilic oil-absorbing pad enables more effective oil-water separation
- Easy and economical to maintain

OSB-16 4 slot type  
Product No. **EE6900**  
OSB-20 5 slot type  
Product No. **EE6901**

