

Body repairing and painting

ALTIA Body Repair Paint System

ALTIA Co,. Ltd.

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Please contact your local sales company or Altia branch for ordering and consultation

Altia Hornepage: www.altia.co.jp



Caution

ALTIA Co,. Ltd.

In the context of the body repair market, there is a growing call for the modernization of equipment.

Challenges facing the body equipment industry are as follows:

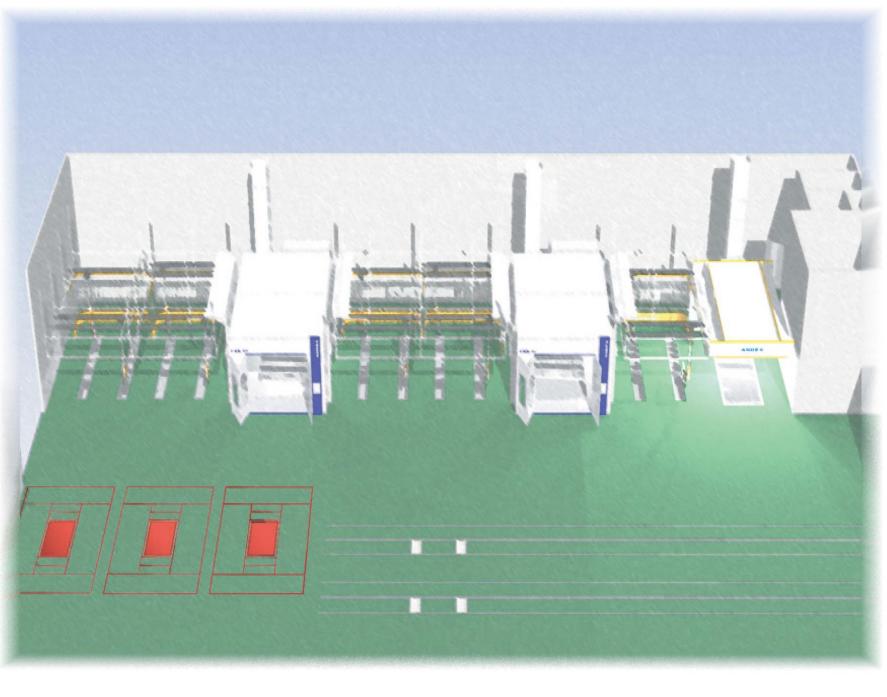
- · Introduction of new technology as vehicles become more technologically advanced
- · Creating an attractive workplace with a clean working environment
- · Securing human resources to support the modernization of technology
- Modernization of facilities to produce high quality and high productivity

For these purposes, Altia will provide you with the following services:

- · State-of-the-art equipment
- · Equipment that pursues high quality
- Systems that strive for high production efficiency
- · Space-efficient layout
- · Comfortable working environment and workplace

These services will be provided based on the needs of body repair shops.

Altia Body Repairing and Painting System will realize customer satisfaction, employee satisfaction, safe operation and high management efficiency.



① Set the target number of units to be processed Planning stage ② Consider the number of bays and personnel required ③ Bring forward layout proposal and select equipment by purpose Manufacturing and trial 4 Equipment manufacturing stage (5) Instruction manual Operation phase 6 Delivery 7 Follow-up

Introduction procedure

System content

Receipt of damaged vehicle from customer Customer information

Quotation

Work agreement

Parts arrangement

Body repair and

Coarse cutting

Measuring

Installation/modification

Dry sanding

Substrate

Putty application

Polyester putty drying Final surface treatment

Masking/degreasing

Primer surfacer coating

Pre-painting treatment

Masking/degreasing

Painting

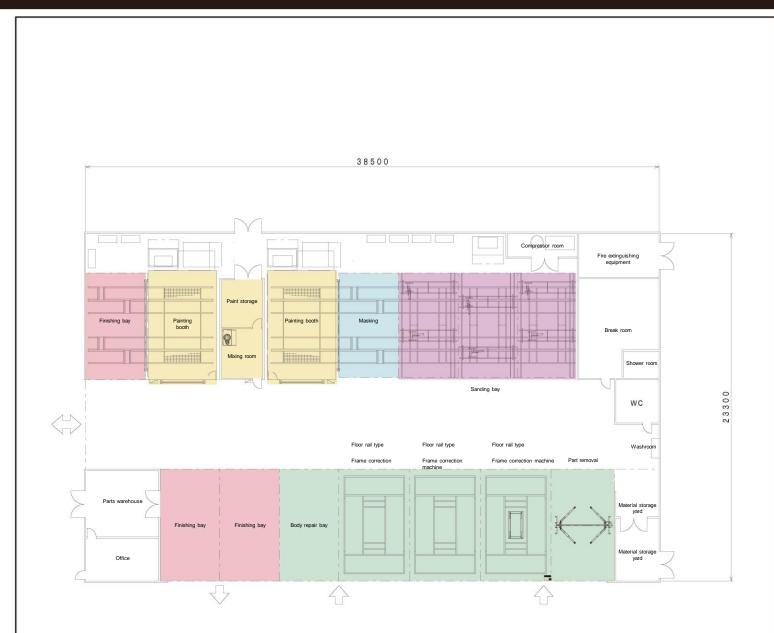
Painting

Finishing and polishing

Installation and cleaning

Completion inspection

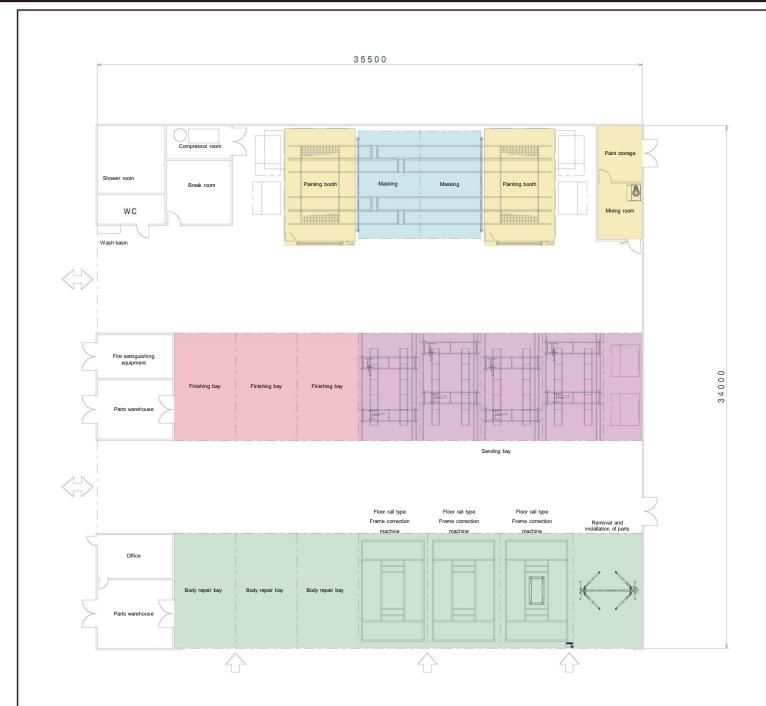
Delivery



Example of number of units to be repaired

- Equivalent to minor to severe damage
- About 150 units

Work process Work content		Number of work bays	Number of personnel required
Part removal and work related to body repair	Part removal, frame correction, panel replacement, hammering, cleaning, putty application	5	4
Sanding	Polishing of putty- applied and primer surfacer-applied areas	3	2
Masking	Masking	1	1
Painting	Painting and drying	2	2
Installation of repaired parts	Polishing the parts after dying and then installing them onto the vehicle	3	3
Total		14	12



Example of number of units to be repaired

- Equivalent to minor to severe damage
- About 200 units

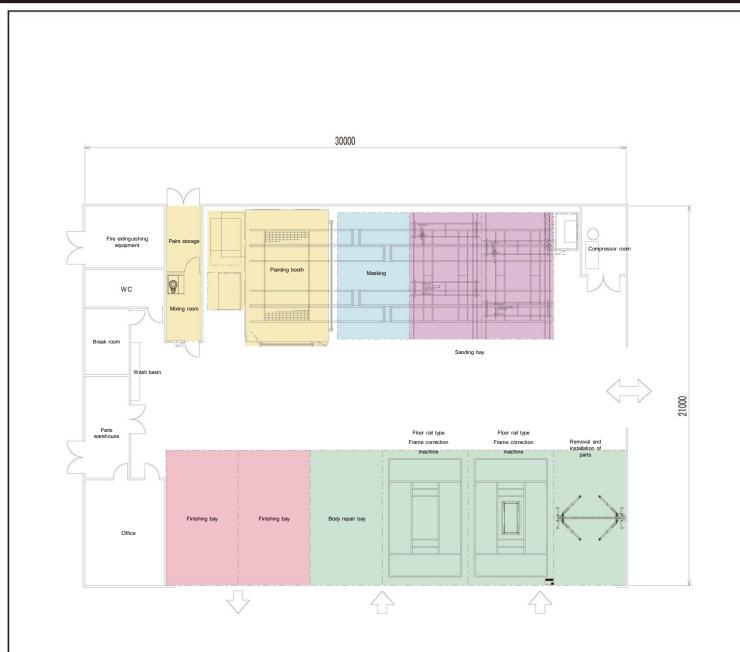
Work process	Work content	Number of work bays	Number of personnel required
Part removal and work related to body repair	Part removal, frame correction, panel replacement, hammering, cleaning, putty application	7	5
Sanding	Polishing of putty- applied and primer surfacer-applied areas	4	3
Masking	Masking	2	2
Painting	Painting and drying	2	2
installation of repaired parts	Polishing the parts after dying and then installing them onto the vehicle	3	3
Total		18	15
		18	15



Example of number of units to be repaired

- Equivalent to minor to medium damage
- About 50 units

Work process Work content		Number of work bays	Number of personnel required
Part removal and work related to body repair	Part removal, frame correction, panel replacement, hammering, cleaning, putty application	2	1
Sanding	Polishing of putty- applied and primer surfacer-applied areas	1	1
Masking	Masking	1	1
Painting	Painting and drying	1	1
Installation of repaired parts	Polishing the parts after dying and then installing them onto the vehicle	1	1
	Total		5



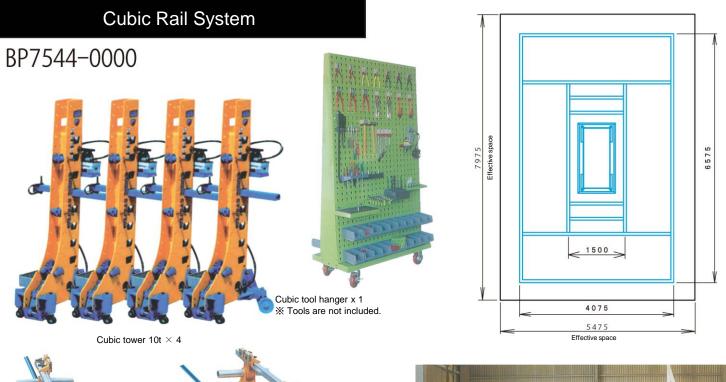
Example of number of units to be repaired

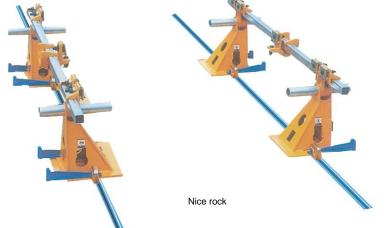
- Equivalent to minor to medium damage
- About 100 units

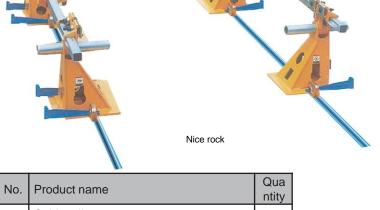
Work process	Work content	Number of work	Number of
·		bays	personnel required
Part removal and work related to body repair	Part removal, frame correction, panel replacement, hammering, cleaning, putty application	4	3
Sanding	Polishing of putty- applied and primer surfacer-applied areas	2	1
Masking	Masking	1	1
Painting	Painting and drying	1	1
Installation of repaired parts	Polishing the parts after dying and then installing them onto the vehicle	1	2
Total		13	10

Frame correction machine

[For severe damage]... Damage spreads to the vicinity of the cabin







	-	
No.	Product name	Qua ntity
1	Cubic rail	1
2	Nice lock for rail	1
3	Cubic lift	1
4	Cubic tower 10t	4
5	Ricky Ⅲ 1.5t	2
6	Chain 3m	4
7	Chain hook A	4
8	Chain hook B	4
9	Ring wire	1
10	Strut chain	1
11	New mini clamp	2
12	Free angle clamp	2
13	All-angle clamp	2
14	Secondary clamp B	4
15	Frame clamp	4
16	Hole plate	1
17	Roof hanger S	1
18	Conveyor gage	1
19	Cubic tool hanger	1

The cubic rail system allows you to pull from any direction (within 360°). In addition, when there is no correction work, the floor surface is flat, making it possible to make the most of the plant space for sanding work as well as maintenance work in combination with a lift. Cubic Rail is an one-piece structure made of hot rolled section steel that is unparalleled in the world, with high technical capabilities, high quality,

XGrating is included.

Nice rock

By eliminating the left and right connecting pipes while maintaining the fixing strength, the efficiency of the chassis-related work is improved.

and high strength jointly developed with Nippon Steel Corporation.

Cubic tower

It is an eternal theme that all body technicians want the newly developed tower to work "faster and more precisely".

Frame correction machine

Tower frame (wide)

Winning anchor

10t ram 25cm

Chain lock head

12.5cm tube

25cm tube

45cm tube

75cm tube

9' chain with 1 hook

14 7' chain with 1 hook

Cam clamp

4.4cm clamp

Yoke and pin

Angle clamp

Dozer hook

21 G clamp

24 Stand B

Wedge clamp

Long nose clamp

Baby box clamp

Ramfoot chain anchor

Super tower

Air pump

Wedge

3

8

9

10

11

12

15

16

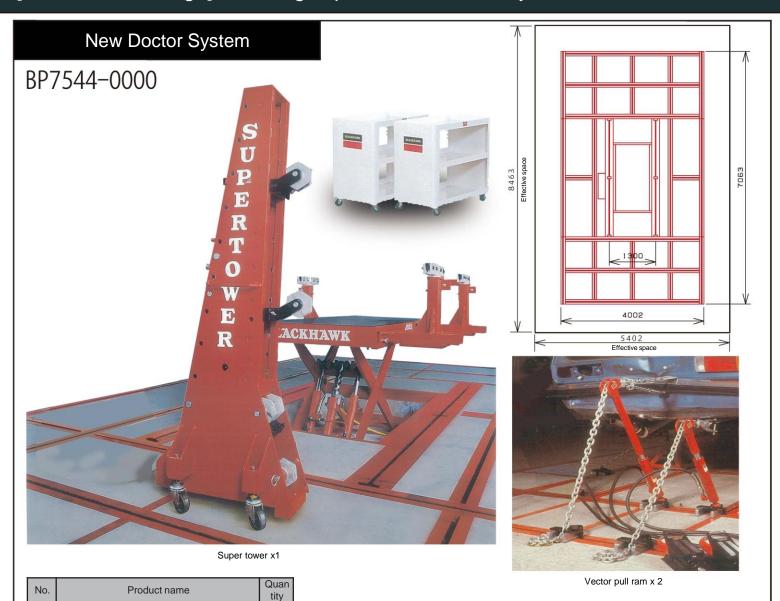
19

20

22

23

[For severe damage]... Damage spreads to the vicinity of the cabin



1

1

2

2

6

12

2

2

2

2

2

2

4

1

2

2

2

1

2

1

1

1

The Doctor System enables pulling from any direction (within 360°). In addition, when there is no correction work, the floor surface is flat, making it possible to make the most of the plant space for sanding work as well as maintenance work in combination with a lift.

Winning anchor

Since lifting is possible while the vehicle is clamped to the lift, parts can be removed or installed and welding can be carried out in a comfortable posture. When pulling, the lift is lowered to the floor and fixed perfectly with a single wedge.

Super tower

Equipped with 2 independent cylinders in one tower, it is possible to pull two near points at the same time. The pull height is steplessly adjustable and has features that are not available elsewhere.

The vector pulling can be pulled in various ways in combination with attachments.

Frame correction machine

[For medium damage]... Damage spreads to the vicinity of the suspension

Body Restore Set BP7546-0119

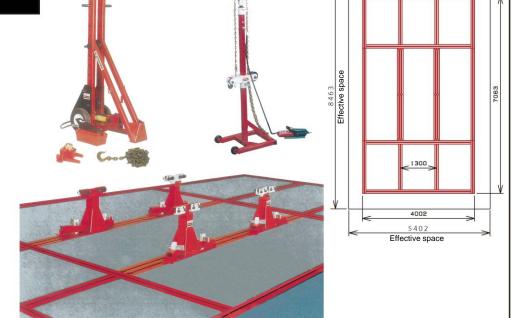
No.	Product name	Qua ntity	No.	Product name	Qua ntity
1	Best lock	1	11	Chain hook B	5
2	Cubic tower 10t	2	12	Ring wire	1
3	Cubic mini tower	2	13	Strut chain	1
4	Open rail 1m	6	14	Mini clamp	2
5	Open rail 2m	4	15	Free angle clamp	2
6	Bridge pipe	1	16	All-angle clamp	2
7	Compare gage	1	17	Side clamp B	4
8	Ricky Ⅲ 1.5t	2	18	Frame clamp	4
9	Chain 1.5m	4	19	Hole plate	1
10	Chain hook A	5	20	W impact kit	1

Firmly secures the vehicle with the nice lock. Cubic tower for heavy pulling and easy tower for support. Since all rails are anchored, the installation will be completed in one day.

Mighty Tower Set

BP7539-0000

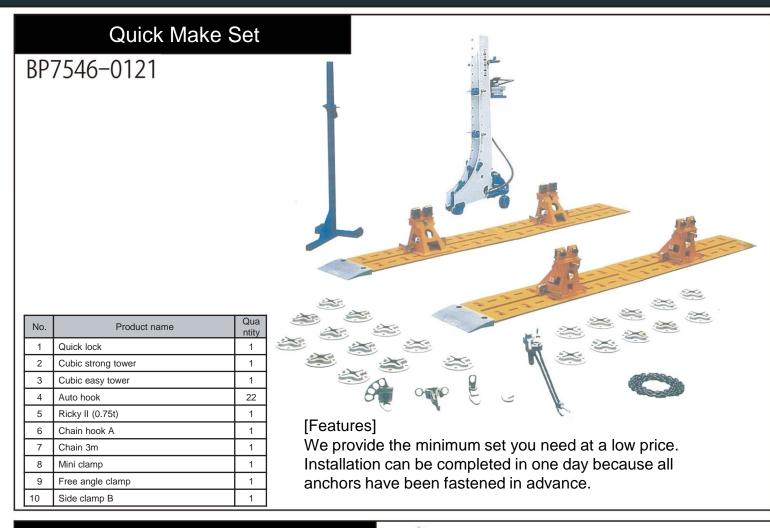
No.	Product name	Qua ntity
1	Standard frame	1
2	Master lock (embedded)	1
3	For mighty tower rail	1
4	New power stand	1
5	Ramfoot chain anchor	2
6	Wedge	4
7	7' chain with 1 hook	2
8	Handy hook	2
9	12' chain	1
10	3 mm chain (8mm) without hook	1
11	Long nose clamp	1
12	G clamp	1
13	Baby box clamp	1
14	Junior clamp	1
15	Wedge clamp	2



The Mighty Tower Set allows you to pull from any direction (within 360°). The master lock utilizes a garage jack and can be easily set to firmly secure the vehicle. The Mighty Tower has large wheels so you can easily move it without getting caught in rail grooves or gratings.

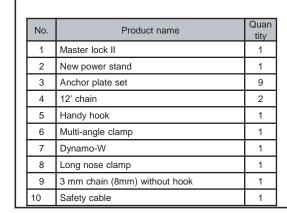
Frame correction machine

[For minor damage accident] ... Damage does not extend to the frame



New Power Stand Set

BP7538-0000



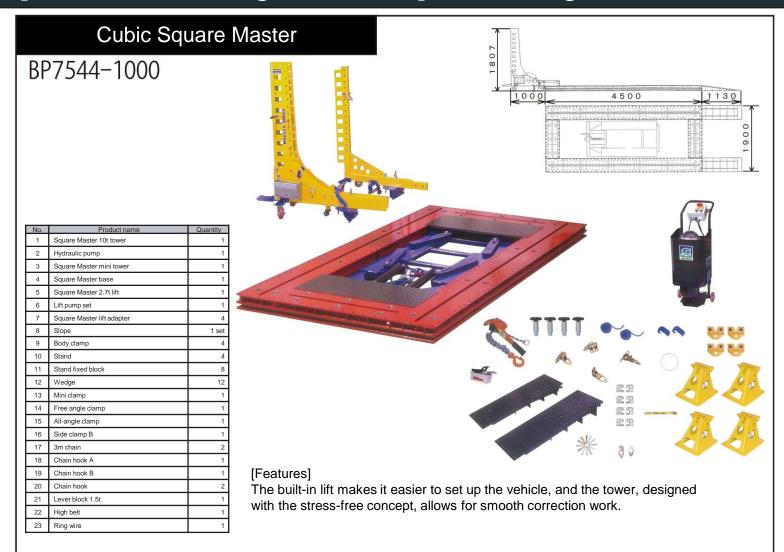


Installation can be completed in one day because all

anchors have been fastened in advance.

Frame correction machine

[For minor damage accident] ... Damage does not extend to the frame



Sanding System

The sanding system protects the environment in the plant while protecting the health of the workers. Altia sanding system is available in various sizes and budgets.







1. Open

2. Curtain

3. Partition

By combining the sanding system with the rail bay of frame correction machine, it is possible to efficiently perform everything from body repairing to sanding.





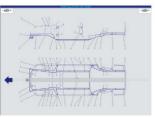


A rust-resistant galvanized steel damper is used. Since only the part to be used can be opened and closed without removing the grating, a high-efficiency dust extraction force can be obtained.

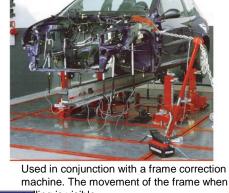
Unit

Data with parts State when suspension members and engine members are installed

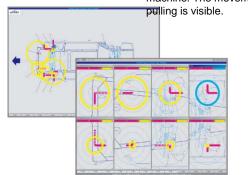
results



Data without parts State when suspension members and engine members are not installed



machine. The movement of the frame when ulling is visible.



The front, back, left and right are indicated by Output of measurement vectors, while the top and bottom are indicated by yellow and blue circles. The display is updated

Frame measuring machine - SHARK MILLENIUM

BP8501-0000

[Features]

- •SHARK performs three-dimensional measurements in real time.
- There is no need to select a frame correction machine to be used.

Measurement is possible as long as there is enough space to place the measuring beam.

All you need to do is put the measuring beam under the vehicle.

- Leveling and centering are not required.
- Multi-point simultaneous measurement possible

Up to 8 points can be measured simultaneously as standard, and up to 12 points can be measured as

Quality assurance is a professional attestation

The measurement result can be used as an accuracy certificate, which is useful as a report for the customer's insurance company.

● Vehicle data is updated four times a year (for a fee)... about 70 units

There are two types of SHARK data for each vehicle, one with suspension and one without.

•We also have a content-packed homepage.

The data of the domestic new model car will be posted on the SHARK support site along with provisional data in advance.



[CAB-07Hyper]

The best series pursuing high performance, ease of use, and optimal design.

- •A touch panel is used for operation, and the operating status and operating history are
- Corner panels are not decorative. Storage box, transformer box and socket box are loaded with





	Specification
Model	CAB-07 Hyper
Ventilation method	Push-pull uniform flow triggering device
Outside dimensions of booth	4,600 (W) × 7,300 (L) × 3,475 (H) mm
Effective dimensions in the booth	4,530 (W)x7,230 (L) x 2,700 (H) mm
Front entrance/exit for vehicle	3,200 (W)x 2,725 (H) mm, with 4 panels openable
Entrance/exit for operator	505 (W) x 1,860 (H) mm (in front corner)
	Air shower blower 0.4KW above the small door
Lighting	Lower section: 40W x 4-lamp type x 10 units
	Upper section: 40W x 4-lamp type x 10 units
Main body panel	3,200W x 20 units in total
Primary filter of air supply	35mm-thick insulated sandwich panel (galvanized base-color steel plate 0.8t)
	4/35, bag filter, 484×563, 3 sets
Secondary (ceiling) filter of air supply	6/6. 1825×1.675 (4 pieces, diagonally cut)
	2-stage pumping balance mesh
Exhaust filter	MS-340500 ×1.000 6 pieces
	Air supply fan/double Sirocco fan.Spec. A. 3-phase. 200V. 7.5KW
Supply and exhaust unit	exhaust fan/double Sirocco fan.Spec. A. 3-phase. 200V. 7.5KW
	Pressurized air volume/static pressure:460-/min. 425pa
Heat source	Gun-type burner, 240,000 Kcal/h (before heat exchange)
Maximum set temperature	Max. 80°C
	Painting ⇔ drying ⇔ after purge
Control method	Automatic control of internal pressure in each mode and switching mode
Control motilos	
	Original TFT touch panel,color LCD, 10.4", 128 colors
Safety device	Vibration detector, internal pressure abnormality, after-purge, inverter abnormality
Salety device	Thermal trip, fire alarm (gas pressure drop, wind pressure drop, high-noise abnormality)
Electrical capacity	Three-phase, 200V, 15.8KW
Electrical capacity	Single-phase, 200V, 3.2KW
Body color	Andex white/Andex black
	Horizontal storage box (medium), 1 place (when open, light-work stand)
	1 vertical storage box (large)
Included	Transformer box (source pressure (1 place), pressure regulation (1 place), auto drain)
	Outlet box (100V × 2200V 20A 200V 30A)
	Part hanger (can be moved to the center of the painting booth)

『A E R I A − 7 0』

A high-spec standard model that combines airflow, quietness, and maintainability at a high level





- ■The air intake unit is our proud product that integrates Altia's know-how.
- Air volume and wind speed that fully meet the Labor Standards Act.
- ■With the theme of quietness, we have achieved low noise while securing the large air volume.
- ■The control motor with an internal pressure sensor ensures that the air volume can be switched between "for painting" and "for drying", a function that our rivals can not keep up.
- Exhaust unit with excellent maintainability
- ■This is an exhaust unit born as a result of thoroughly pursuing the ease of cleaning and replacing the exhaust filter. An exhaust fan is also built into the box to reduce noise.

	One Wantier		
Model	Specification AFRIA-70		
Ventilation method Outside dimensions of booth	Push-pull uniform flow triggering device		
Effective dimensions in the booth	4.600 (W) × 7.300 (L) × 3.475 (H) mm 4.530 (W) x 7.230 (L) x 2.700 (H) mm		
Front entrance/exit for vehicle	2.900 (W)x 2.700 (H) mm, with 3 double doors		
	Front left side (control panel side)		
Entrance/exit for operator	Lower section: 40W x 4-lamp type x 10 units		
	Upper section: 40W x 4-lamp type x 10 units Upper section: 40W x 2-lamp type x 10 units		
Lighting	20 units		
Main body panel	35mm-thick insulated sandwich panel (galvanized base-color steel plate 0.8t)		
Primary filter of air supply	4/35, bug filter, 484 x 563, 3 sets		
Secondary (ceiling) filter of air supply Exhaust filter	6/60, 825 × 1,675, 20 pieces ML-240, 500 × 1,000, 6 pieces		
Extidust litter	Air supply fan/double Sirocco fan, 3-phase, 200V, 7.5KW		
	Exhaust fan/double Sirocco fan, 3-phase, 200V, 7.5KW		
Supply and exhaust unit	Pressurized air volume/static pressure:453m/min. 500 pa		
	Fuel/gas (propane, city gas)/kerosene		
Heat source	Gun-type burner, 240,000 Kcal/h (before heat exchange)		
Maximum set temperature	Max. 80°C		
waximum sectemperature	Painting ⇔ drying ⇔ after purge		
Control method	Automatic control of internal pressure in each mode		
	Automatic control of internal pressure in each mode		
Safety device	Vibration detector, internal pressure abnormality, after-purge (gas pressure drop, wind pressure drop, high-noise abnormality)		
Electrical capacity	Three-phase, 200V, 15.8KW		
Lieutrical capacity	Single-phase, 200V, 3.2KW		

AERIA series Painting booth Painting booth

『AERIA-eco10』

A standard booth with a compact design that integrates the intake and exhaust units, and is equipped with an internal pressure sensor as standard, which is highly



Two types of heat sources are available.





Kerosene burner

Gas burner



_	
pressure of pa const	ainting booth is always kept ant.
naust filter is and there is no with an internal sensor, so it is ainful!	Even if the filter holes are clogged, the damper with control motor works, so it is comfortable. I'm so happy!
	1
~	1/1

e painting is finished, s temporarily stopped, fan is operated again ying mode, so there is foreign matters being ad due to sudden s.	At the end of painting, internal pressure of pai booth is kept constant stopping the fan, and it painting booth automat switches to drying mod

Specification		
Model	AERIA eco 10	
Ventilation method	Push-pull uniform flow ventilator	
Outside dimensions of booth	4,300 (W) x 7,000 (L) x 3,275 (H) mm	
Effective dimensions in the booth	4,230 (W)x 6,930 (L) x 2,700 (H) mm	
Front entrance/exit for vehicle	3,000 (W)x 2,700 (H) mm, with 3 double doors	
Front entrance/exit for verticle	Can also be used as a small door for operators	
	Lower section: 40W x 4-lamp type x 8 units	
Lighting	Upper section: 40W x 2-lamp type x 8 units	
	16 units	
Main body panel	35mm-thick insulated sandwich panel (galvanized base-color steel plate 0.8t)	
Primary filter of air supply	4/35, bag filter, 3 sets	
Secondary (ceiling) filter of air supply	6/60, 765× 1,600, 20 pieces	
Exhaust filter	ML-240, 500×1,000, 6 pieces	
Supply and exhaust unit	One-body, 1,700 (W) x 3,000 (L) x 2,300 (H) mm	
Air supply fan	Double Sirocco fan, 3-phase, 200V, 7.5KW	
Exhaust fan	Double Sirocco fan, 3-phase, 200V, 7.5KW	
Pressurized air volume/static pressure	453m³/min, 500 pa	
Heat source	Fuel/gas (propane, city gas)/kerosene	
Heat source	Gun-type burner, 240,000 Kcal/h (before heat exchange)	
Maximum set temperature	Max. 80°C	
Control method	Painting ⇔ drying ⇔ after purge	
Control metriod	Automatic control of internal pressure in each mode	
Safety device	After-purge, thermal trip, fire alarm	
Electrical capacity	Three-phase, 200V, 15.4KW	
Electrical capacity	Single-phase, 200V, 1.92KW	

『LGS-4073-PP-16H』 Top generator type

Painting booths are used every day for 5 and 10 years... The most important things when purchasing a painting booth..

Conditions required for future paint booth

- Must be fuel-saving.
 Enough brightness and spaciousness in the booth.
- Large air volume and low noise.
 Guaranteed safety for workers and
- enhanced operability.

 5. Must be sturdy.
- 7. Far away from the filter, and long replacement 8. Improved maintainability
- 9. Purchase costs of painting booth.

Differences after purchasing a Cubic painting booth

Reduction in total cost

Example: Comparison table of total cost when used for about 10 years





		Specification
Model		LGS-4073-PP-16
		Top generator type
Air supply method		Push-pull type pit stand or pit method
Body dimensi ons table	External shape	7,340 mm (L) × 4,080 mm (W) × 3,320 mm (H)
	Indoor	7,200 mm(L) × 4,000 mm (W) × 2,800 mm (H)
	Openings and doors	3 doors/2,750 mm (H) × 2,520 mm (W)/80 mm panel thickness/double-layered glass structure
100.0	Side panel	40mm thick insulation panel with reinforcing ribs
Fan	Air supply fan	Double-suction Sirocco fan, twin type (motor 5.5KW)
Fan	Exhaust fan	Double-suction Sirocco fan, twin type (motor 5.5KW)
	Air supply filter	Primary filter (cassette type)/ceiling filter (EU-5)
Filter	Exhaust filter	Cassette type
	Filter efficiency	Final mist capture rate of 98% or more
	Painting process	Air volume: 170m³/m, 20500m³/h
Air		Ventilation frequency: 4.3 times/m, 258 times/h
volume/		Booth flow velocity: 0.15-0.2 m/s
tempera		Temperature adjustment range of hot-air painting room: 0°C∼35°C
ture	Drying process	Air volume: 170m³/m, 10200m³/h
		Temperature adjustment range of drying room: 0°C∼80°C
Fluores	Upper	4 lamps/unit, total 8 units, 58W x 32 lights
cent lamp	Side	3 lamps/unit, total 16 units, 18W x 48 lights
Dryer	Method	Kerosene burner or gas burner Heat exchange type/fresh air heating type
,	Maximum output	250000 kcal/H
Power supply	Electrical capacity	Three-phase, 200V, 19KW
Operati	Control panel	LCD touch-panel display, sequencer control type
on method		With room-temperature cooling process after drying

model] **FRE** @ AUSEN.

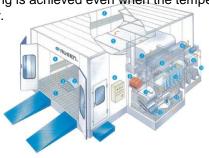
A standard model that pursues ideal airflow. The intake side is a whole-surface filter, and the exhaust side is a whole-surface grating structure. It is the No. 1 model in the series.

•When painting (blue arrow)

The intake damper opens and the fresh air flows uniformly into and out of the booth.

•When drying (red arrow)

The intake damper closes and the circulation damper opens to circulate 80% of the hot air in the booth. Energy saving is achieved even when the temperature rises quickly.



model] \mathbb{Z}





An unparalleled high value-added model that ensures high high air volume and automatically controls the environment and painting process within the booth. Two Sirocco fans create an outstanding air volume.

		Specification
Model		RE
Ventila	ation method	Bench-type dry push-pull uniform flow ventilator
Main body structure		Insulation panel (rock wool) 60t
Outside dimensions of booth		4,126 (W) x 7,124 (L) x 3,555 (H) mm
Effective dimensions in the booth		4,000 (W) x 7,000 (L) x 2,800 (H) mm
Front entrance/exit for vehicle		3,000 (W) x 2,600 (H) mm, with 3 double doors
Entrar	nce/exit for operator	1 side door, 700 (W) x 1,800 (H) mm
Lightir	ng	30W × 4-lamp type × 20 units
Ceiling	g/floor filter	4,000 × 7,000 mm/4,000 × 7,000 mm
	Air supply fan	Double Sirocco fan, 7.5KW
Air supply device	Air volume/static pressure	456/min, 580Pa
	Burner	Kerosene: 200,000 Kcal/h LPG/LNG: 160,000 Kcal/h
de	Drying system	Hot-air circulation
y ice	Maximum set temperature	Max. 80°C
	Exhaust fan	Bag filter
Exhaus system	Exhaust fan	Double Sirocco fan, 7.5KW
	Air volume/static pressure	456∞/min, 580Pa
m st	Exhaust filter	Floor filter/cassette exhaust filter
	Exhaust duct	Connection port: 1,400 x 500 mm
Air volume control		Manual exhaust damper
Safety device		Pre-purge, fire detection, high cut, wind pressure switch, gas pressure switch, vibration detector, etc.
Electrical capacity		AC200V, 3-phase, 15.4KW; 1-phase, 2.4KW

		Specification
Model		ZE
Ventilation method		Dry pit-type push-pull uniform flow ventilator
Main body structure		Insulation panel (rock wool) 60t
Outside dimensions of booth		4,126 (W) x 7,124 (L) x 3,555 (H) mm
Effective dimensions in the booth		4,000 (W) x 7,000 (L) x 2,800 (H) mm
Front entrance/exit for vehicle		3,200 (W) x 2,600 (H) mm, with 4 double doors
Entran	ce/exit for operator	1 side door, 700 (W) x 1,800 (H) mm
Lightin	q	30W × 4-lamp type × 24 units
Ceiling	/floor filter	4,000 × 7,000 mm/3,100 × 6,080 mm
\neg	Air supply fan	Sirocco Fan 5.5KW x 2
Air supply device	Air volume/static pressure	456 _# /min, 570Pa
	Burner	Kerosene: 200,000 Kcal/h LPG/LNG: 160,000 Kcal/h
윤	Drying system	Proportional control burner/hot air circulation
vice	Maximum set temperature	Max. 80°C
	Exhaust fan	Bag filter
	Exhaust fan	Sirocco fan 5.5KW x 2
Exhaus system	Air volume/static pressure	456 _r /min, 570Pa
m ₹	Exhaust filter	Baffle plate/cassette-type exhaust filter
	Exhaust duct	Connection port: 1,700 x 600 mm
Air volu	ume control	Automatic control of internal pressure
Safety device		Pre-purge, fire detection, high cut, wind pressure switch, gas pressure switch, vibration detector, etc.
Electrical capacity		AC200V, 3-phase, 22.4KW; 1-phase, 2.88KW

『DE model』



Overhead doubledoor type



A dedicated model for a traverse painting line that pursues high efficiency and high quality. We have prepared two models, a single-door type and a double-door type, according to various layouts.

The lighting, also located on the overhead doors, provides a sufficient amount of light for workers.

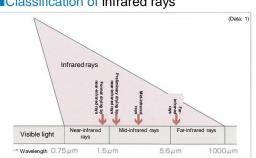
		Specification
Model		DE
Ventilation method		Dry pit-type push-pull uniform flow ventilator
Main body structure		Insulation panel (rock wool) 60t
Outside dimensions of booth		4,426 (W) x 7,124 (L) x 4,200 (H) mm
Effective dimensions in the booth		4,000 (W) x 7,000 (L) x 2,800 (H) mm
Front entrance/exit for vehicle		3,200 (W) x 2,600 (H) mm, with 4 double doors
Entrar	ce/exit for operator	Can be used as one of the front doors
Lightir		30W × 4-lamp type × 24 units
Ceiling	/floor filter	4,000 × 7,000 mm/3,100 × 6,080 mm
	Air supply fan	Double Sirocco fan, 7.5KW
Air supply device	Air volume/static pressure	456 _e /min, 580Pa
	Burner	Kerosene: 200,000 Kcal/h LPG/LNG: 160,000 Kcal/h
de	Drying system	Hot-air circulation
evice	Maximum set temperature	Max. 80°C
	Exhaust fan	Bag filter
	Exhaust fan	Double Sirocco fan, 7.5KW
Exhaus system	Air volume/static pressure	456 _e /min, 580Pa
m ist	Exhaust filter	Baffle plate/exhaust filter
	Exhaust duct	Connection port: 1,400 x 500 mm
\ir vol	ume control	Manual exhaust damper
Safety device		Pre-purge, fire detection, high cut, wind pressure switch, gas pressure switch vibration detector, etc.
Electrical capacity		AC200V, 3-phase, 15.4KW; 1-phase, 2.88KW

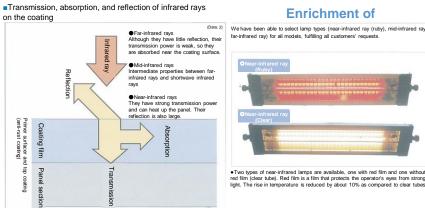
Related Equipment

Painting equipment

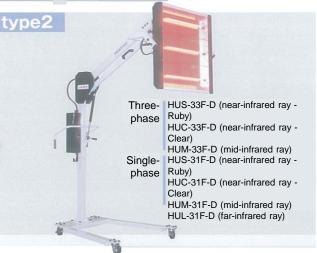
Dryer

Classification of infrared rays









Hot Air Low Pressure **Painting Machine**



Gun stand, sold separately (optional)

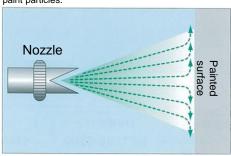
Hot Air Low Pressure Painting Machine - 2 Guns Set BP7220-25NS

Hot Air Low Pressure Painting Machine - 3 Guns Set BP7220-25NT

100V

Low-pressure spraying system with very little splashing and rebounding

• Due to the low-pressure injection, the atomized paint particles adhere to the surface without scattering outward from the flow of the injected air, as shown in the figure below, so there is almost no rebounding of paint particles.



- •Since there is little scattering of paint, there is almost no paint particles rebounding back to the operators, so
- •Since the paint does not fly out of the pattern and can be reliably sprayed on the designated place, the



Gun Cleaner



- · Strong automatic cleaning of spray guns
- · With forced exhaust device
- · Reduced thinner usage
- · Hygiene protection for workers

Related Equipment

Accident evaluation system

Auda Seven - BP7997

The industry standard system that is chosen for its ease of use. This is a system that allows you to create quick, easy, and accurate



Equipment for removing and installing parts and components

Lift



LM4070-0001 (electro-hydraulic) LM4070-1001 (air-hydraulic)

Capacity: 2500Kg Lifting height: 765mm It is movable, and you can choose between a 200V electric type and an air-driven type according to the environment.



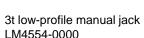
3.2t SkyMax Gantry wide/high post LM8206-0000

High-post design offers room for one-box cars to be fully lift up. Wide design offers room to open and close the doors.

Garage Jack

Low-profile garage jack with nominal capacity from the lowest position.







3t low-profile air jack LM4552-A000

Electronic equipment tool

- Super Scan Tool X-431

X-431 Basic Pack

EG2106-0000

- Applicable to major domestic passenger car manufacturers Applicable to major overseas passenger car manufacturers
- Vehicle diagnosis machine with various functions On-demand on the Internet

No need for ROM cassette, etc. because the software is sent online

X-431 Value Back 14

●14 softwares are all included as standard by domestic and major overseas passenger car manufacturers.

X-431 Super Value Pack

 Softwares in Value Pack 14 can be updated free of charge for 5 years

X-431 Lease Value Pack

EG2106-LE00

• It has become easier to introduce the Super Value Pack with the dedicated X-431 Lease.



Current cars are equipped with a number of control units, such as OBD and CAN, which are intended for environmental protection and safe operation, and many electronically controlled devices such as engines, A/T, ABS, and A/C. For example, when trouble occurs in the electronic control system, it must communicate with the vehicle self-diagnostic function to call up fault codes, erase them, and stream data. Since the scan tools are required to perform these tasks, the introduction of scan tools is becoming common sense in the maintenance industry.

Related Equipment

Welding machine

Spot Welder



Intelligent Vega QC BP7950-5004

It is equipped with a number of new features. Able to handle any materials from highincluding network function. It is possible to create everything from welding plans to are separate, so the freedom of movement quality control and welding result report. In addition, the new QC welding program makes it a top-class spot welder capable of mind by equipping the torch tip with a light. welding new high-strength steel sheets as well as welding anything under all conditions.

Heat-resistant spatter sheet BP6647-0000 (1800 X 840 mm, without eyelets) BP6647-1000 (1800 x 840 mm, with eyelets)

Made of newly developed heat-resistant fiber Z-SIL600, which combines strong spatter resistance and super flexibility.

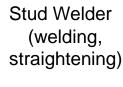


strength steel plates to aluminum panels.

The wire feeding unit and the capacitor unit

is very high. It is designed with the users in

MIG/MAG Welder





QC Stud Master BP8024-0000-

Able to handle any materials from highstrength steel plates to aluminum panels. It has a back burn prevention function during welding. In addition to the conventional dot straightening, the roller straightening as a new function is included as standard. This system also makes it easy to set up highcurrent earthing.

Handy Puller DX BP5001-1000

Panel repair tool that can be pulled out while being pressed down.

IM2712



Inspection

Body Measurement



Frame Measuring Machine - SHARK BP8501-0000

Since ultrasonic real-time threedimensional measurement is carried out, it is easy to set up by simply setting the measuring beam under the vehicle, with no need for leveling and centering.

Alignment Measurement

Uni Auto 200

BP7884-0001



3D Wheel Aligner Autotarget Arago IM2393-0000

The top-end model of 3D aligner, which is also used for GT-R equipped with AragoDigiSmart technology.

Light Measurement



Running lights and low beams can be measured with one unit. In addition, with the cross laser as a piece of standard equipment, it easy to aim at the lights and the vehicle.

Installation Equipment

Installation Equipment Wheel Balancer

Smart Load S WS3251-5001

Basic model of the series Applicable rim diameter: 24 inches

- · Automatic distance input · Fine switch
- · WAS

Tire Changer



Smart Winning 03 WS3299-8001

A high-end model that can handle the replacement of ultraflat and wide tires

- Applicable rim diameter: 20 inches
- Bead helper, mount press
- Equipped with air inflator

Washer

High Pressure Hot Water Washer



Fuel-efficient, lightweight and compact

Eco-friendly high pressure hot water

Mega Shine 1500 CS65012-0000/6000

Ample water flow rate for vehicles from passenger cars to mediumsized cars

Even applicable to trucks Motor output: 3.7kw

Mega Shine Eco 1200 CS6112-0000

High-pressure and small flow-rate type, with low water usage! Achieves excellent thermal efficiency with the pressure boiler! Motor output: 2.2kw



Air Compressor



CM7224-0000 (50 Hz) CM7190-0000 (50 Hz)

CM7224-6000 (60 Hz) CM7190-6000 (60 Hz)

Pressure: 1.37Mpa

Flow rate: 210 L/min

Output power: 2.2kw

Air compressor

Pressure: 0.95Mpa

Flow rate: 250 L/min

Output power: 2.2kw

Low pressure air compressor CM7021-0000 (50 Hz) CM7021-6000 (60 Hz)

Pressure: 0.93Mpa Flow rate: 250 L/min Output power: 2.2kw

High pressure air compressor CM7060-0000 (50 Hz) CM7060-6000 (60 Hz)

> Pressure: 1.37Mpa Flow rate: 210 L/min Output power: 2.2kw



Sub-tank for low

CM7229-0000 (57L)

Sub-tank for high CM7195-0000 (150L)

pressure

CM7230-0000 (83L)

pressure CM7196-0001 (220L)

Compatible with water-based paints

Supports initial drying of water-based paints and solvent-based paints
Mighty Jet

Dehumidification and drying of waterbased paints Initial drying of solvent-based paints Spot cooling device in the paint booth



■Cooling mode

The cooling breeze from the spot cooling device creates a comfortable working room.

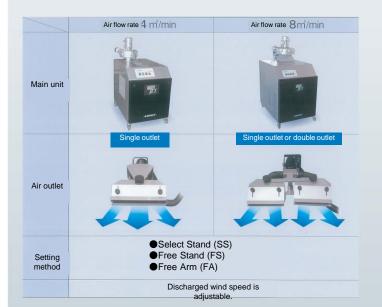
Drying mode (drying of water-based

By heating the air cooled by spot cooling device with a sheathed heater ideal hot air is discharged

Heating mode (drying of solvent-base

Quick drying with air heated by a sheathed heater.









Free Arm (double outlet)





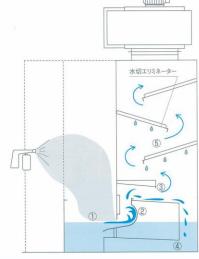
Free Stand (double outlet)

Free Stand (single outlet)

Pumpless Exhaust Unit - VOLTEX

• Even with water-based paints with high viscosity, there is no clogging because it is filterless.





- 1. A limit load fan with high static pressure provides powerful suction and exhaust.
- 2. A high-speed air current is generated in the narrow gap between the vortex plate and the saw-toothed plate.
- 3. The surface of the water is also separated and sucked in together with the air.
- 4. The water film and air can create a strong

airflow along the vortex plate.

- 5. Paint mist and dust are collected by the water film thanks to the centrifugal force.
- 6. Water droplets are separated by the eliminator and discharged as clean air.

• The spray gun is redesigned for water-based paints. The gun body is made of magnesium, and the alumite treatment is applied to the ultra-lightweight paint passage.



 \cdot Maximizes the blowing effect that is indispensable for drying the water-based paint.



Devilbiss LUNA-Pro

BP6500-1000

• It is water pollution if the washing water is discharged as it is. Aqua Gun Cleaner separates washing water into water and solids for treatment and drainage to prevent water pollution.



Aqua Gun Cleaner BP9400-0000



• A heater with a blower that uses a carbon fiber lamp that is optimal for the wavelength of water-based paints.



Carbon Heater with Ultrawin Blow BP7339-600B

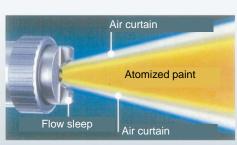
• Due to the low-pressure injection, the atomized paint particles adhere to the surface without scattering outward from the flow of the air curtain, and there is almost no rebounding of paint particles.



• Highly effective for highly viscous, high-solid paints.

Low pressure hot air painting machine

2 Guns Set BP7220-25NS 3 Guns Set BP7220-25NT





- · Water-based paints are sensitive to minute amounts of oil.
- Dewpower dryer can remove 99.99% of oil and moisture.
- · Since no filters are used, there is no running cost.
- ISO 7391 compliant (specifications, tests and performance grade)





Dew Power Dryer Portable CM7260-000S

Dew Power Dryer CM7260-0000