https://truckmanualshub.com/

# SK17A
# SK22A
# SK27A







SKYMASTER

*The photos shown in this catalog are of vehicles with optional equipment.

https://truckmanualshub.com/

# The SK Series:
# Designed for Ease of Use

The SK Series is useful in a wide range of situations,
such as construction and inspection of infrastructure,
as well as large-scale facility maintenance.
Designed to be easy for operators to use,
this series supports our customers at their work sites.

SKYMASTER

# SK17A
# SK22A
# SK27A

## SK17A



GVW 7.5 ton ~ 8.5 ton
Wheelbase 3,365 mm ~ 3,870 mm

Maximum platform height
**17.1 m**
Maximum platform loading
**200 kg**



## SK22A



GVW 8.5 ton ~ 10.4 ton
Wheelbase 3,815 mm ~ 4,360 mm

Maximum platform height
**22.1 m**
Maximum platform loading
**200 kg**



## SK27A



GVW 10.4 ton ~ 15.5 ton
Wheelbase 3,850 mm ~ 4,360 mm

Maximum platform height
**27.0 m**
Maximum platform loading
**200 kg**



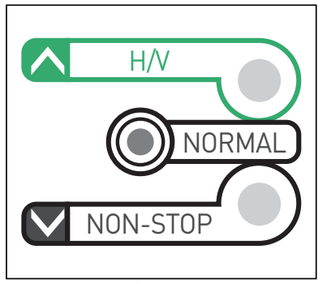
https://truckmanualshub.com/



## POINT 1

### Wide range of features available! Easy-to-use upper control device

■ Switch between three operating modes to smoothly operate the vehicle just the way you want




**Horizontal/ vertical (H/V) motion control mode**

The platform can be moved horizontally or vertically by operating an independent lever.

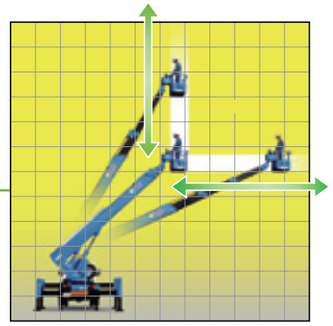
**Independent operations mode**

As with previous models, each action can be done with only one operation.

**Non-stop control mode**

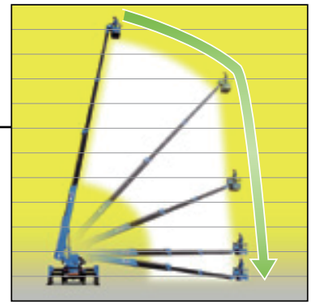
The platform can be moved along the working range control line when lowering the platform.



**Easy horizontal and vertical motion with a single lever!**

By independently using the extension/retraction and elevation levers, the platform automatically moves horizontally or vertically.



**Control stop feature removed**

■ In this mode, we've removed the control stop feature that prevented the boom from operating outside of the working range control when lowering the boom.

■ If the working range control is activated to prevent the vehicle from overturning when lowering the boom, the boom retraction will automatically work in tandem to smoothly move the platform along the working range control line.

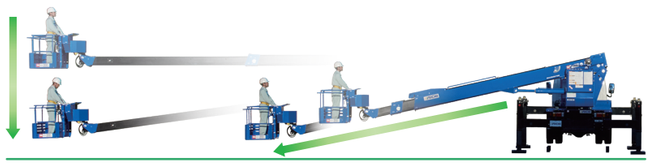
## POINT 2

### Various interference prevention systems that help prevent contact-related accidents

■ The boom won't bump into the ground or the vehicle

The boom will automatically stop when it comes near the cabin, outrigger or the ground (the surface level extending from where the vehicle is placed). This helps prevent contact-related accidents that occur due to operating error.

**》Ground interference prevention system**



Note: this is limited to flat roads.

**》Cabin interference prevention system**



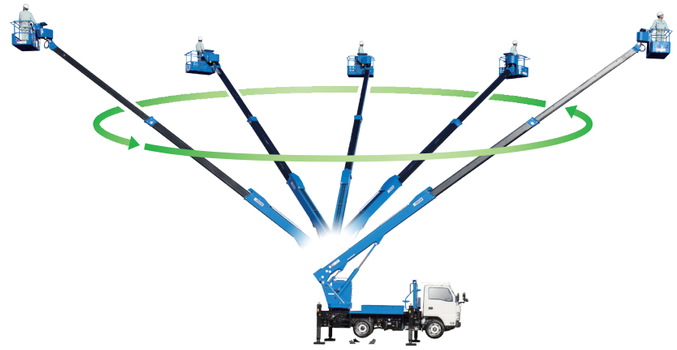
## POINT 3

### Offers free movement in all four directions! Same working range in all directions

The SK17A and SK27A* offer the same working range in all directions, avoiding control restrictions at any boom rotation angle.

This reduces inefficiencies that occur when the platform will not go where you want due to control restrictions, which normally requires moving and setting up the vehicle again.

*When the outrigger is fully extended.
*Excludes the control range required to prevent cabin interference and ground contact.

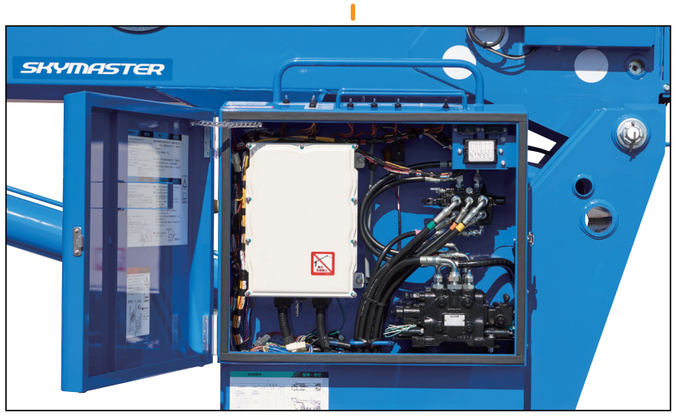


## POINT 4

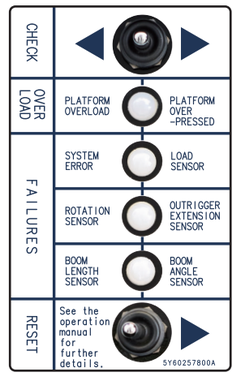
### Highly maintainable. Diagnostics can be quickly performed in the event of trouble.

The hydraulic valve and electrical box are located together inside the large maintenance door, making inspections and maintenance work more efficient. You can quickly and accurately check whether the vehicle has malfunctioned and where the problem lies by looking at the error checker lights.




**》Large maintenance door**




**》Error checker**

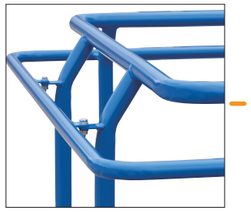
https://truckmanualshub.com/



## Options OP

| Part of vehicle | Equipment | Remarks |
|---|---|---|
| Platform | Handrail guards | Reduces the risk of hands getting pinched in the event of a collision |
| | Upper control panel light | Assists short-range visibility when operating the vehicle |
| | Safety switch | All operations stop when the wire is pushed |
| | Upper control light | Assists in visibility for the operator |
| | LED upper control light | Assists in visibility for the operator |
| | 100 V power outlet | Connect to an electric generator for a 100 V power supply on the platform |
| Sub-frame | Lower control light | Assists in visibility for the operator |
| | Lower control panel light | Assists short-range visibility when operating the vehicle |
| Outrigger/jack | Jack marker lamps | Lights up and warns those around the vehicle when a PTO is connected |
| Onboard equipment | Yellow wheel chocks | Improves visibility, and helps operators to remember to put in or remove the wheel chocks |

## Optional equipment (examples) OP



》Handrail guards OP



》Jack marker lamps OP



Note: SK17A vehicle with optional equipment shown



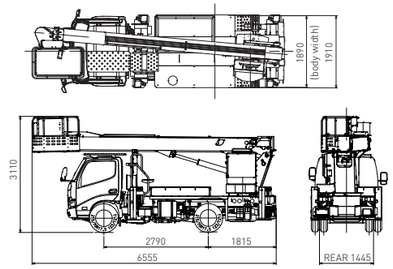
》100 V power outlet OP

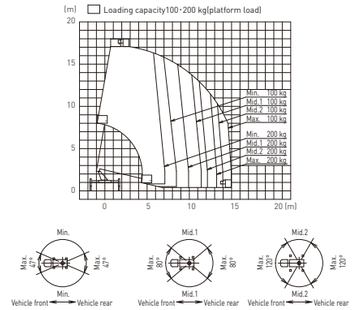


》LED upper control light OP

## Vehicle dimensions and working range diagram

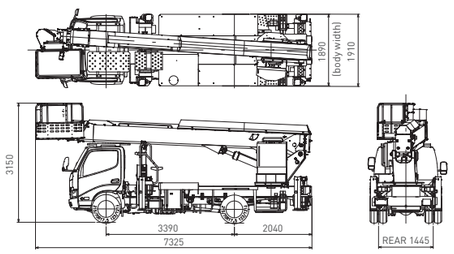
### SK17A

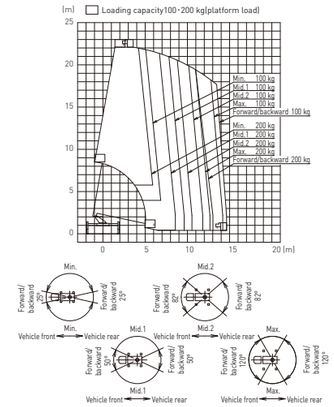



● The working range when the outrigger is fully extended is the same for all directions.
● The working range will change according to the boom rotation angle when the outrigger's extension width is at min., mid. 1 or mid. 2.
⇒See the overview diagram at right for details.

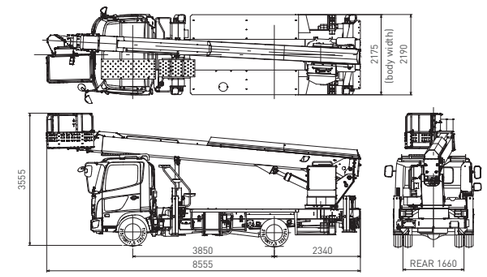
### SK22A

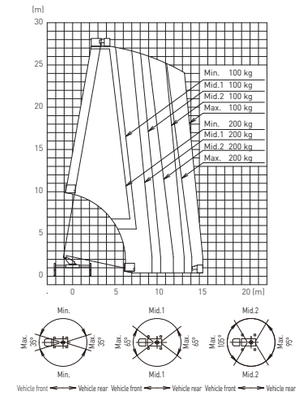



● The working range will change according to the boom rotation angle.
⇒See the overview diagram at right for details.

### SK27A




● The working range when the outrigger is fully extended is the same for all directions.
● The working range will change according to the boom rotation angle when the outrigger's extension width is at min., mid. 1 or mid. 2.
⇒See the overview diagram at right for details.

Note 1: Vehicle dimensions may vary depending on the chassis.
Note 2: The working range diagram does not take into account the flex of the boom.
Note 3: The working range diagram assumes that the jack is set up on a level surface with solid ground.
Note 4: The working range will change according to the outrigger's extension width and the boom rotation angle.
Note 5: The minimum elevation angle on this vehicle differs depending on the boom rotation position, in order to avoid the boom and platform interfering with the chassis cabin, the outrigger or other parts of the vehicle.

https://truckmanualshub.com/

# Specifications

SKYMASTER
SK17A / SK22A / SK27A

| MODEL TYPE AND NAME | | | | |
|---|---|---|---|---|
| Model | | SK17A | SK22A | SK27A |
| Name | | Vehicle-Mounted Aerial Working Platform | | |
| **PLATFORM** | | | | |
| Rated Working Load | | 200 kg or 2 persons | | |
| Floor Height | | 17.1 m | 22.1 m | 27.0 m |
| Working radius (with 100 kg load) | | 15.0 m | 14.6 m | 15.4 m |
| Inner Dimensions (L x W x H) | | 1.2 m x 0.7 m x 0.9m | | |
| Rotation Angle | | L : 95° R : 100° | | |
| **BOOM** | | | | |
| Type | | 3-stages telescopic | 4-stages telescopic | |
| Length | | 6.1 m - 15.3 m | 6.8 m - 20.6 m | 8.1 m - 25.7 m |
| Telescopic stoke | | 9.2 m | 13.8 m | 17.6 m |
| Extension / retraction speed | | 45 sec / 40 sec | 50 sec | 60 sec |
| Elevation angle | | -13° - 80° | -12° - 80° | |
| Elevation speed | Upper controls | 35 sec | 50 sec | |
| | Lower controls | 55 sec | 80 sec | |
| **ROTATION DEVICE** | | | | |
| Rotation angle | | 360° continuous | | |
| Rotation speed | Upper controls | 1.0 rpm | | |
| | Lower controls | 0.5 rpm | | |
| **OUTRIGGER** | | | | |
| Width | Min | 1.7 m - 2.4 m | | 2.0 m - 2.8 m |
| | Mid. 1 | 2.4 m - 3.0 m | | 2.8 m - 3.6 m |
| | Mid. 2 | 3.0 m - 3.6 m | | 3.6 m - 4.3 m |
| | Max. | 3.6 m - 3.7 m | | 4.3 m - 4.4 m |
| Outrigger stroke | | 1.0 m | | 1.2 m |
| Jack stroke | | 0.5 m | | 0.6 m |

**SAFETY DEVICES**

Hydraulic safety devices (relief valve, jack extension safety device, boom elevation safety device, boom telescope safety device, platform leveling safety device), emergency stop switch, foot switch, moment sensing system (AMCS), elevation/rotation speed control system, lever guard, lanyard anchorage point, emergency pump, jack interlock system, boom interlock system, cabin/boom interference prevention system, platform/ground interference prevention system, platform over-press sensing system, overload sensing system

**OTHER DEVICES**

Automatic platform stowage system, vertical / horizontal movement system, automatic accelerator, non-stop control system, error checker, roof steps, spirit level, cargo space (SK17A only)

**STANDARD ACCESSORIES**

Wheel chocks, Jack bases

AICHI CORPORATION
1152-10 Ryoke Ageo Saitama 362-8550 Japan
TEL:+81-48-781-6907 URL:http://www.aichi-corp.jp

**Points of Caution Regarding Safety**

- Operators who use this vehicle for working in high places (aerial work) must hold the following qualifications.
  - Completion of special training or skill workshops for operating vehicles used in aerial work, with platforms for which the maximum height is 2 m or more but less than 10 m.
  - Completion of skill workshops for operating vehicles used in aerial work, with platforms for which the maximum height is 10 m or more.
- Aerial work at heights of 2 m or more during inclement weather such as high winds (with an average wind speed of 10 m/sec. or more in a 10-min. interval), heavy rain (with concentrated rainfall of 50 mm or more) or heavy snow (with concentrated snowfall of 250 mm or more) is prohibited by law.
- Be sure to thoroughly read the "Operating Manual" before using this vehicle, in order to use it correctly.

*The specifications, equipment names, external design and structure of this product are subject to partial change without notice.
*The colors of vehicles and equipment shown in this publication may look different from the actual product, due to the photography and ink used in printing.
*The photos shown are of vehicles with optional equipment.
*Figures shown are reference values.
*Some optional equipment shown may not be available for certain models or grades.

*Optional equipment is indicated by the OP mark.

i2009-1000①

SK17A / SK22A / SK27A SKYMASTER