











 $^{\star}\mbox{The photos shown in this catalog are of vehicles with optional equipment.}$ 

# 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, his series supports our customers at their work sites.

GVW



## SK22A





Wheelbase 3,850 mm ~ 4,360 mm

#### SKYMASTER





# Structure And Equipment

## 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

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

vertically by operating an independent lever.

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

# **Other Features**

## Options 🞯

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) 💿



» Jack marker lamps 🞯







outlet 🝺



**» LED upper** control light 🞯

## Vehicle dimensions and working range diagram



● 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 direction
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.





## Specifications

SKYMASTER SKITA / SK22A / SK2TA

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						
Туре		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	5 sec 80 sec			
ROTATION DEVICE						
Rotation angle		360° continuous				
Rotation speed	Upper controls	1.0 rpm				
	Lower controls	0.5 rpm				
OUTRIGGER						
	Min	1.7 m - 2.4 m		2.0 m - 2.8 m		
Width	Mid. 1	2.4 m - 3.0 m		2.8 m - 3.6 m		
Width	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						

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)

**Regarding Safety** 

#### STANDARD ACCESSORIES

Wheel chocks, Jack bases





 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 solors 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 🕡 mark.