HITACHI
Inspire the Next

Inverter Type Cordless
Mobile X-ray Unit

Sirius 130H Series

Sirius® Star Mobile

Mobile X-ray Unit

Its style has the reasons.

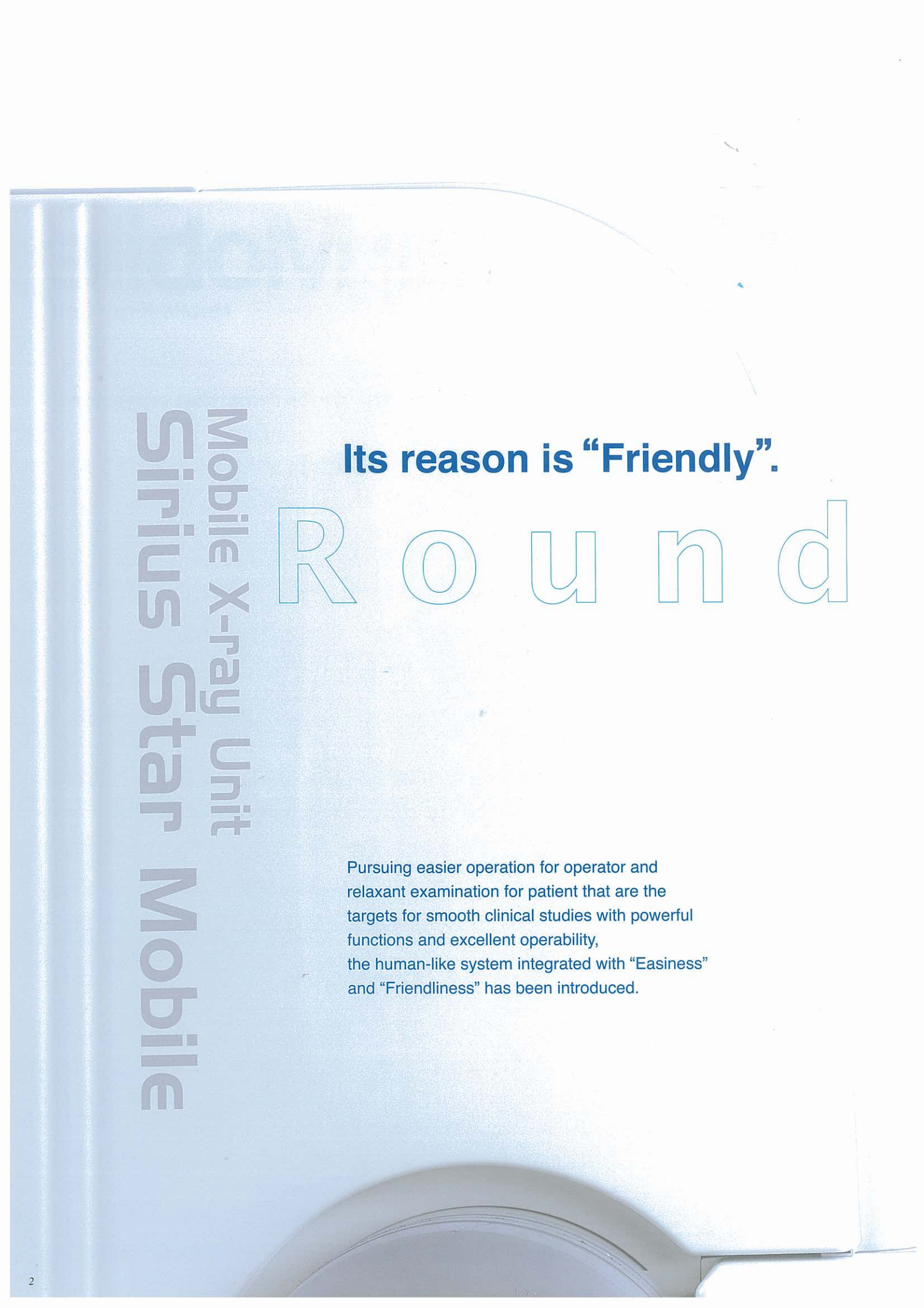
Sirius Star Mobile

Mobile X-ray Unit

Its reason is "Friendly".

Round

Pursuing easier operation for operator and relaxant examination for patient that are the targets for smooth clinical studies with powerful functions and excellent operability, the human-like system integrated with "Easiness" and "Friendliness" has been introduced.



Form

Easy Driving

Light, smooth and pleasant driving maneuverability

Easy Positioning

Hitachi's unique arm design allows the operator to make positioning at will.

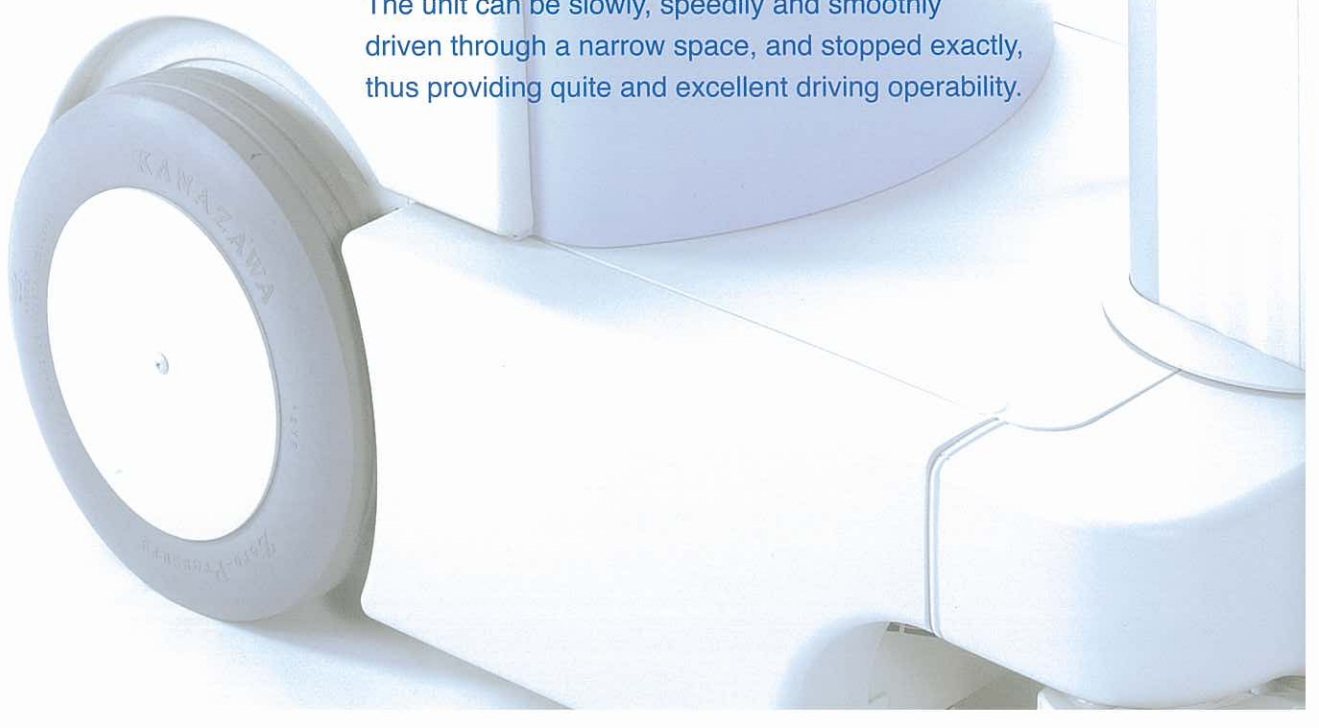
Easy Operation

Operability full of delicate considerations

Quiet and Smooth Mobility

Easy D

Mobility is one of the most important factors for mobile x-ray unit.
The unit can be slowly, speedily and smoothly driven through a narrow space, and stopped exactly, thus providing quite and excellent driving operability.



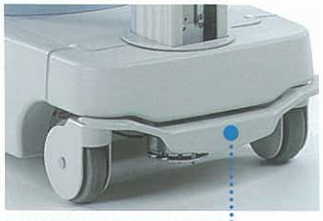
riving

■ Wide frontal view
The built-in high voltage cable, low position to lock the x-ray tube assembly for driving and slim support column provide a wide frontal view for safe and smooth driving of the unit.

■ Assured design for quiet driving
Quiet in driving is achieved by adopting a noiseless-design motor and shock-absorbing casters. Careful consideration is given to driving at nighttime in the wards where patients are quietly sleeping and shock absorption when driving over a bump.

■ Freely steerable mobility
Lightly holding the handle, you can drive the unit freely thanks to the dual motor-drive system.
It can quickly respond to slow drive around the bedside, high speed drive on the pathway and steep turn through the ward entrance and around the bedside.

■ Obstacle-touch sensor effective by bedside
A touch sensor is provided on the front of the unit to automatically stop movement when touching any obstacle.



■ Slim body
The unit body is designed as slim as 45cm in body width and 56cm in width between wheels, thereby it can be easily driven through a narrow path between beds and elevator doorway.

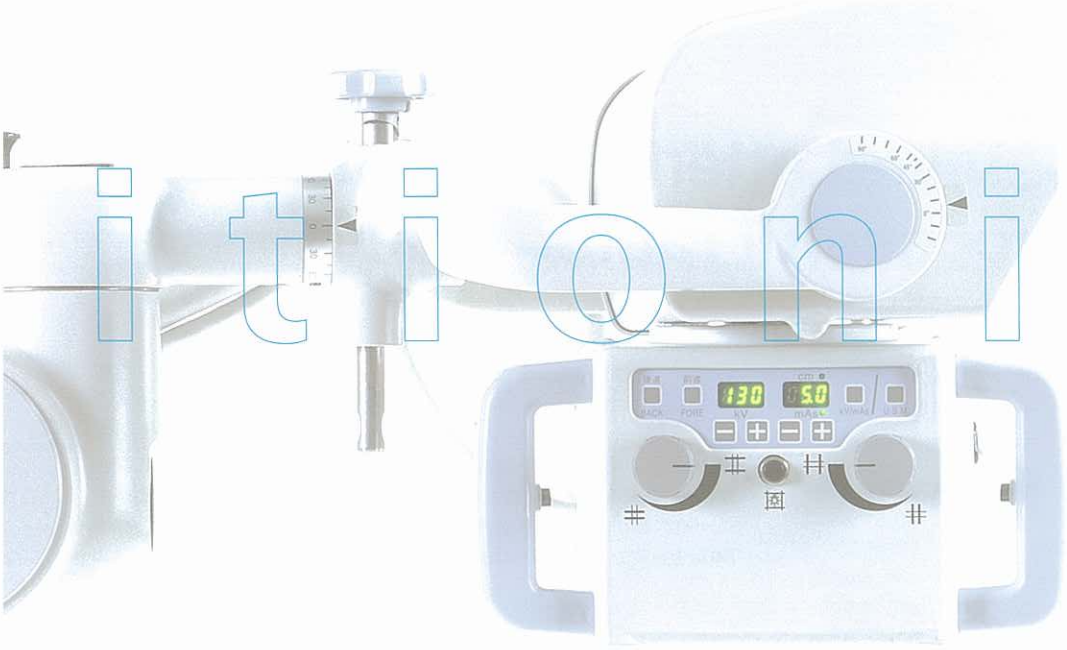
■ Clean driving handle
The driving handle frequently touched with hand is plastic-coated to be always kept clean.

■ Easily sterilizable mechanism around wheel tire
The mechanism around the tires is structured for easy sterilization and cleaning to keep it clean.

Long "Arm" extensible as you desire

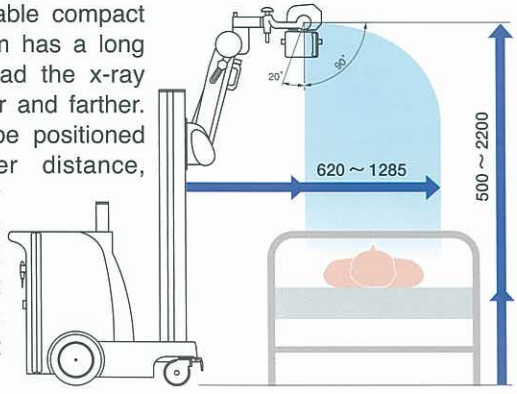
Easy Pos

Hitachi's unique arm developed to pursue smooth positioning in the limited space by the bedside. The X-ray head can be easily positioned as if it is an extension of your own arm.



■ Pantographic arm that can make a radiographic distance longer.

The lightly operable compact pantographic arm has a long arm that can lead the x-ray tube head higher and farther. The head can be positioned up to a longer distance, thereby a longer distance from the x-ray tube focal spot can be set to assure high quality chest image.

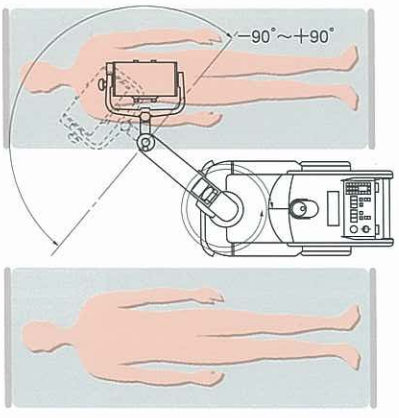


■ Adjusting switch usable for fine adjustment of mobile cart position.

An adjusting switch is provided on the remote panel of the x-ray tube unit to allow for fine adjustment of the mobile cart position as setting the x-ray tube head, thereby it is no more necessary to operate the movement of the mobile cart and positioning of the x-ray tube head separately.

■ Gooseneck mechanism of x-ray tube unit effective for delicate positioning

Even when the arm is positioned toward the diagonal direction, the gooseneck mechanism of the x-ray tube head allows the x-ray tube unit axis to align with the longitudinal axis of the patient body. It also provides convenience for delicate positioning (only for Sirius 130HP)



■ Downsized monotank system

The high voltage cableless monotank type x-ray tube head is employed for easy positioning, and the smartly designed unit with the uniquely downsized structure (Patent pending) does not give oppressive feeling to the patient and operator.

■ One-touch lock system easy for positioning operation

Positioning operation can be speedily performed by one-touch electromagnetic locking and unlocking of vertical movement of the arm and rotation of the main column and completely balanced movement of the x-ray tube head and pantographic arm.

Easy Op

Detailed attentiveness to successful radiography

For accurate imaging and smooth operation, detailed attention is given to various aspects and the policy of "Easiness" and "Friendliness" is incorporated in all functions of the unit.

eration

Compatibility between quality and speed

■ Short-time radiography with high output and small focal spot and sharp image quality

A 0.6mm focal spot and 250mA radiography tube voltage at maximum provide sharp image quality. Because a short-time radiography can be performed even for infant patient difficult to stay still, the unit can be applied to a rich variety of objects.

■ "APR function" with radiography parameters programmable for each anatomical region

Program switches with illustrative symbols and English characters are provided for speedy operation. Imaging parameter sets up to 216 programs can be set. Any of them can be rewritten by the user. According to the selected intensifying screen and radiographic distance, the optimum parameters can be programmed.

Operability with careful considerations

■ Another remote panel provided on the x-ray collimator (Patent pending)

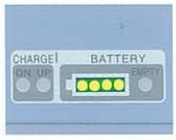
Indicators and controls for various operations such as x-ray parameter setting, fine adjustment of the mobile cart position, electromagnetic lock switches, collimator diaphragm control in both directions, etc. are provided on the x-ray collimator unit. An ultrasound scale can also be built in as option. Operations from positioning to radiography can be more smoothly carried out.

■ Collimator control knobs operable on both sides

Collimator control knobs are equipped on each of the front and rear panels of the x-ray collimator unit, thereby the collimator needs not to be turned around every time in radiography and speedy examination can be performed.

■ LED display allows you to check the battery charge condition at a glance.

The charged condition of the battery can be easily checked by the LED display.



■ Thanks to exposure lamp provided on the arm -fixing rod, you can easily confirm the time when the X-ray is exposed even if you are in remote control position.

When you press the exposure button to the first step (ready) then a green light turns on. And when you further press the button to second step (exposure) then a yellow light turns on.

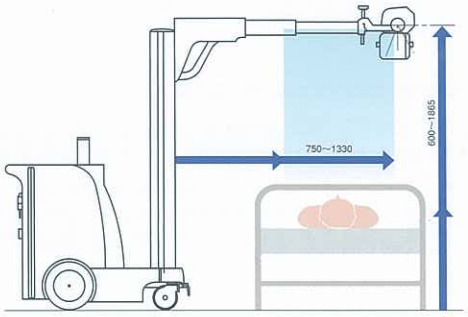
■ Easily accessible bookshelf type cassette box

Twelve 14"×17" cassettes can be stored. A separator is provided to easily distinguish the exposed and unexposed cassettes.

■ Functions and Operations

Telescopic Arm (Sirius 130HT)

- Sirius 130HT with telescopic arm can also be available.
- Positioning operation is easy and simple.
- The max. radiographic distance is 1.865mm from the floor level.
- The gooseneck x-ray unit mechanism is not equipped.



Options

■Infrared wireless hand switch

(ZPS-RH-4)

X-ray exposure can be made wirelessly.

■Ultrasound distance scale

▲Built-in ultrasound distance scale

A radiographic distance can be easily measured.

■Protective screen

The open/close type protective screen can be installed on the control panel.

■Side grid case

A 35×43cm grid can be stored.

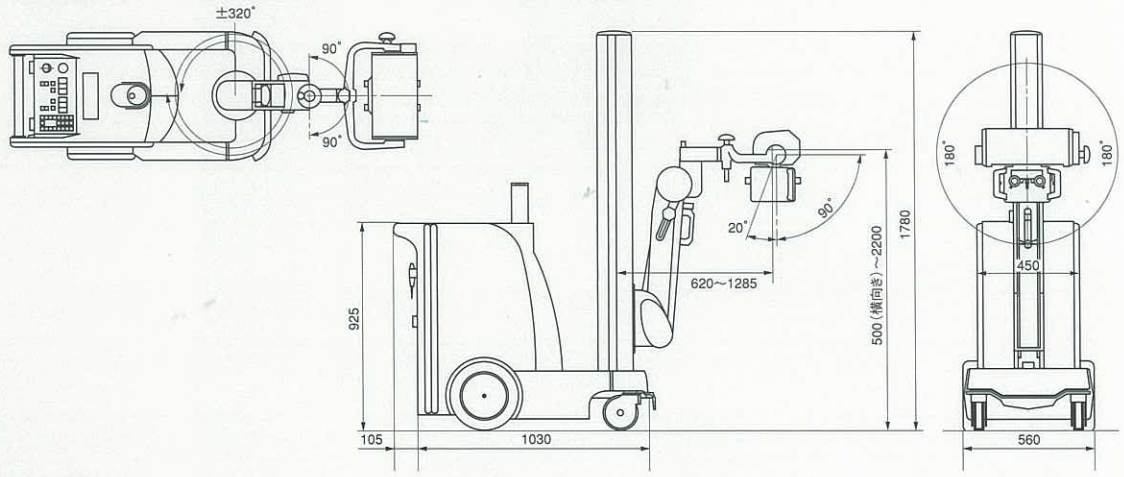
Major specifications and Equipment composition

Item		Sirius 130HP	Sirius 130HT
Max. output		15kW	
Max. anode heat storage capacity		100kJ(140kHU)	
X-ray tube focal spot		0.6mm	
X-ray	output Tube voltage	40～130kV	
	mAs	0.5～200mAs	
	Max. tube current	250mA(60kV)	
Max. driving speed		5km/h	
Driving mode		High /Half /Bedside/Adjust speed	
X-ray tube head supporting system		Pantographic arm	Telescopic arm
Power supply system		Battery power supply system	
Number of storable cassette		12 cassettes (35×43mm light weight type)	
Mass		360kg	
Options		Infrared wireless hand switch	
		Protective screen	
		Ultrasound distance scale	
		Side grid case	
Power requirements		Single phase 200/220/230/240/ VAC±10%(IKVA)	

Physical appearance and dimensions

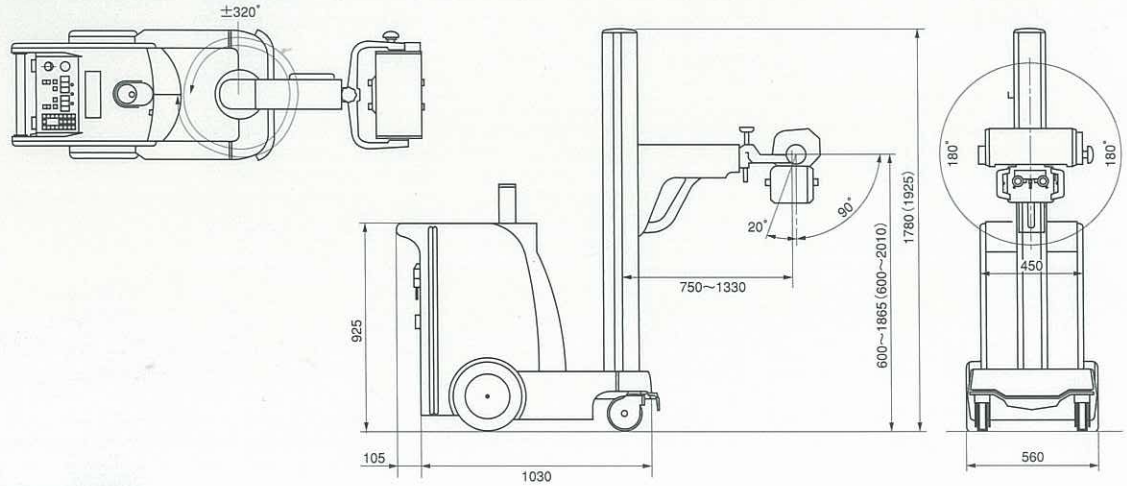
■ Sirius 130HP (Pantographic arm type)

(Unit: mm)



■ Sirius 130HT (Telescopic arm type)

(Unit: mm)



Certified Management System
ISO 9001, JIS Q 9001
ISO 13485, JIS Q 13485

EMS Accreditation
RE 009

EC97J1186

051

Hitachi Medical Corporation, Osaka Works, manufacturer of this product, has been registered according to Environmental Management System ISO14001.
Registration No.: EC97J1186
Registration date: February 23, 1998

- The specifications and physical appearance may be changed without prior notice for improvement in performance.
- For correct and safe use of the equipment, be sure to read the instruction manual.

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CX-E148P

Printed in Japan ZM-N (OMC)