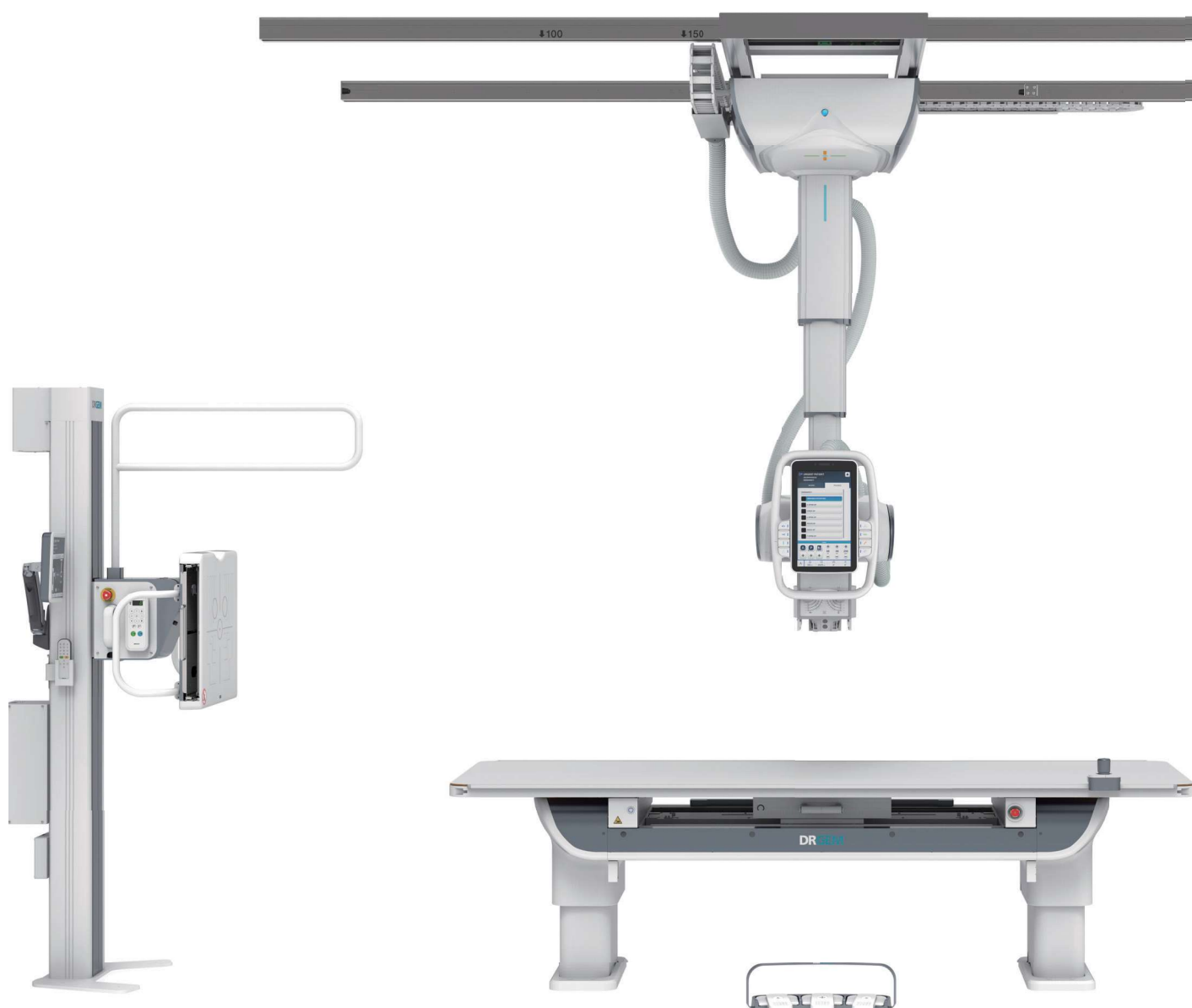


# Auto Positioning System

GXR-SD Digital Radiography System

*Experience optimized workflow and maximize your performance*



# Maximize Your Performance

Fully automated streamline workflow offering auto tracking and positioning features, increase throughput and enhance the experience of patients and operator focusing more on patient care. Fully motorized auto-positioning provides precision positioning to both the wall stand and table with speed and effortless movements. The combination of automation with the pre-programmed RADMAX procedure and the automated RADMAX image processing gets you up to speed, for maximum efficiency.



**WBS-TA Deluxe**  
Automatic Tilting  
Wall Bucky Stand



**TS-CSP Deluxe**  
Automatic Ceiling suspended  
Tube Stand



**PBT-6 Deluxe**  
Elevating  
Patient Table

## Auto Rotating Touch Screen Console



Worklist



Procedure



Positioning



Generator Control



Collimation Control



Image Preview

# Multiple Control Options for Convenience and Efficiency



**RADMAX  
Work Station**



**Tube Stand  
Touch Screen (15.6 inch)**



**Remote Control**



**Control Panel of  
Wall Bucky Stand  
(on the both side)**



**WBS-TA Deluxe 10.1 inch LCD**



**Handgrip Switch**



**Wireless foot switch**

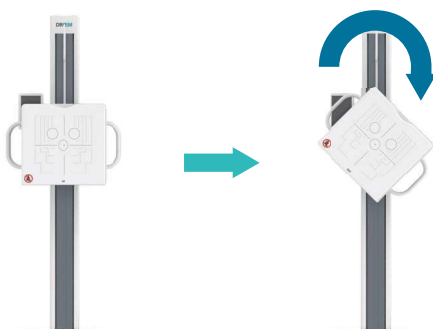


**Wired foot switch**

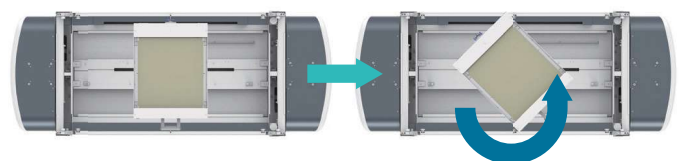
Motorized Vertical Movement (Up / Down)  
Release all of lock (Lateral / Longitudinal)

## 45° Bucky Rotating

- The length gets 1.4 times longer when it rotates, which helps take better X-ray images of tall patient's arm and leg bones.



**WBS-TA (Deluxe)**



**PBT-6 (Deluxe)**

## Auto Positioning – Wall Bucky Stand

- Chest radiography positioning at SID 180cm(S2) by one touch operation.
- Abdomen at SID 100cm(S1) by one touch operation
- Vertical synchronization between wall bucky and tube is available.



In the system setting, enter the S1 and S2 position

## Wall Bucky Centering (Tilted Wall Bucky Synchro)

- Tube tracking the center of Wall Bucky in vertical movement and tube rotating to expose the tilted Bucky perpendicularly at the same time.



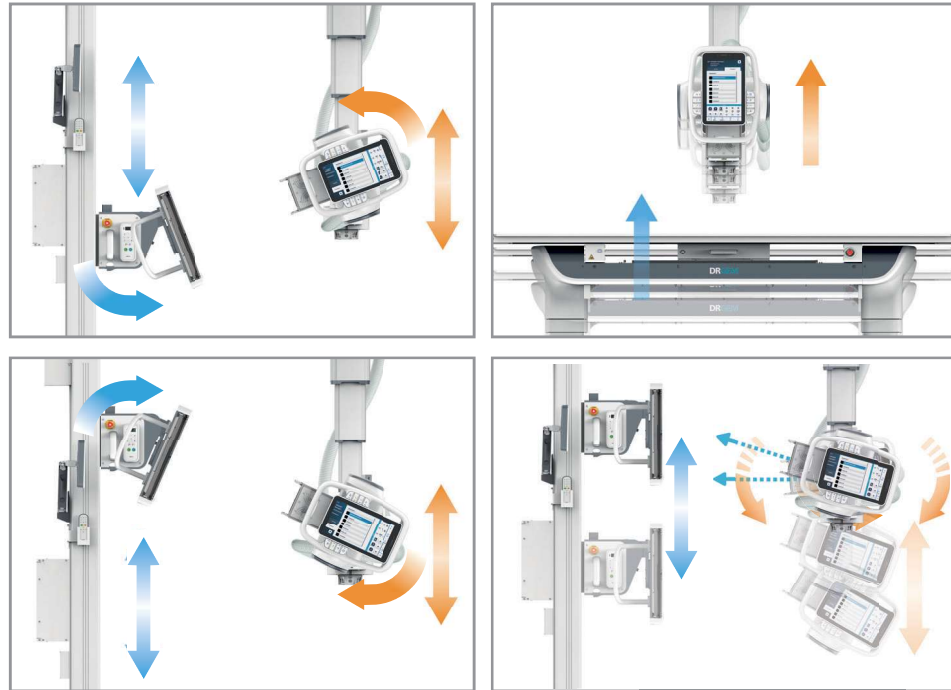
## Table Bucky Tracking

Bucky follows Tube



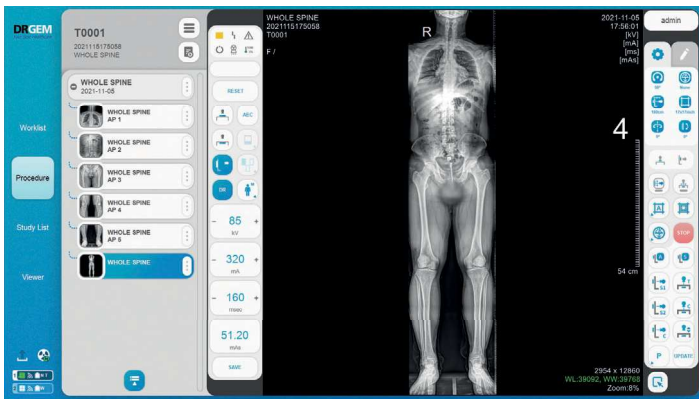
## Vertical Synchronization

Tube follows Bucky



## Auto Stitching

Wall Bucky Stand

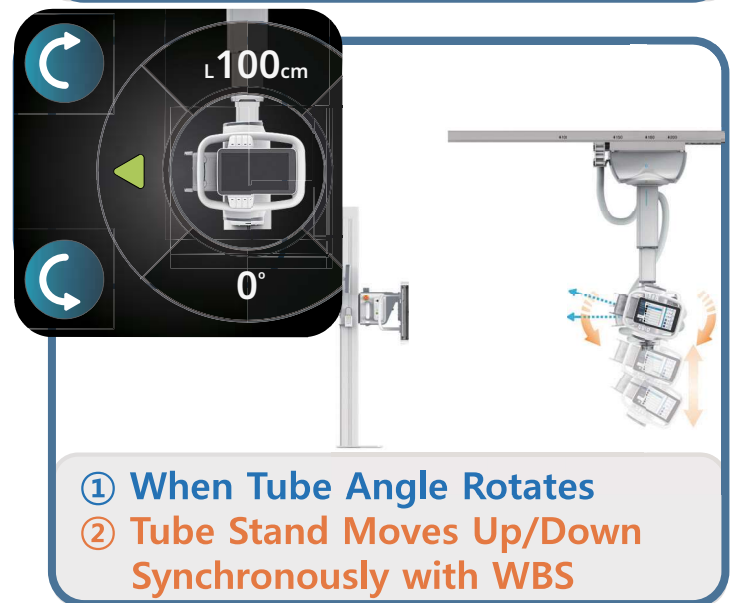
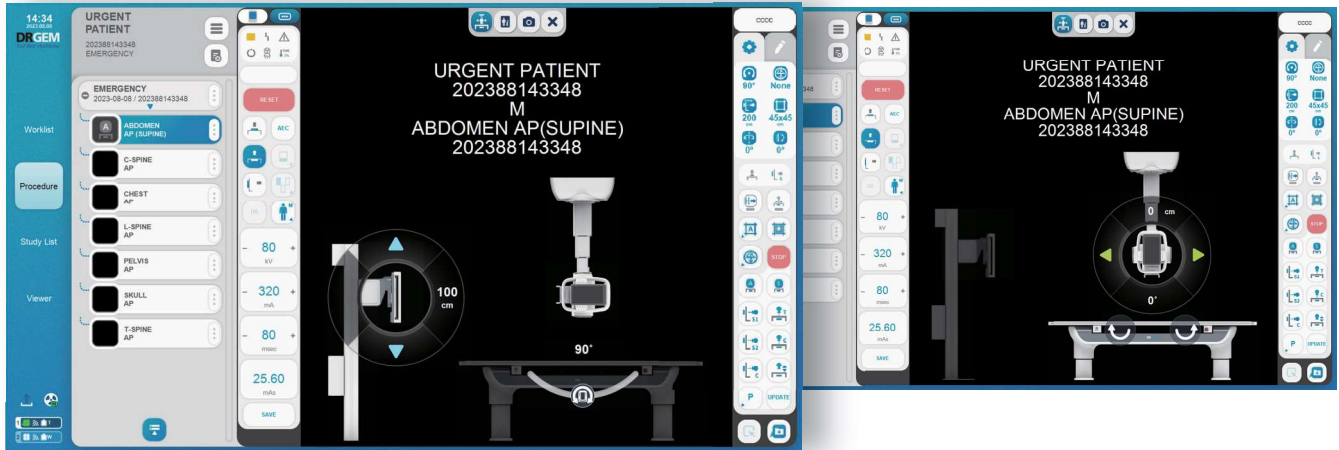


## Patient Table



# Precision Movement Control

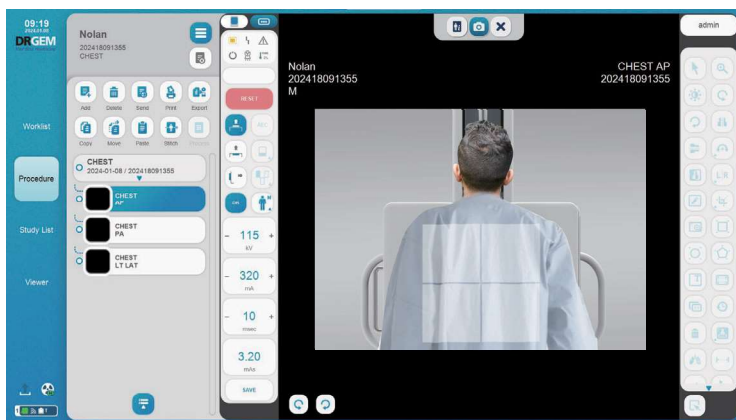
The operator can precisely control the Tube Stand position (Longitudinal Direction), Tube angle, and WBS height via the RADMAX control panel without directly approaching the equipment. Precision Movement Control functions enable intuitive and convenient operation.





## Live Streaming Camera

- Display the live streaming on RADMAX and THU to monitor patient's position.



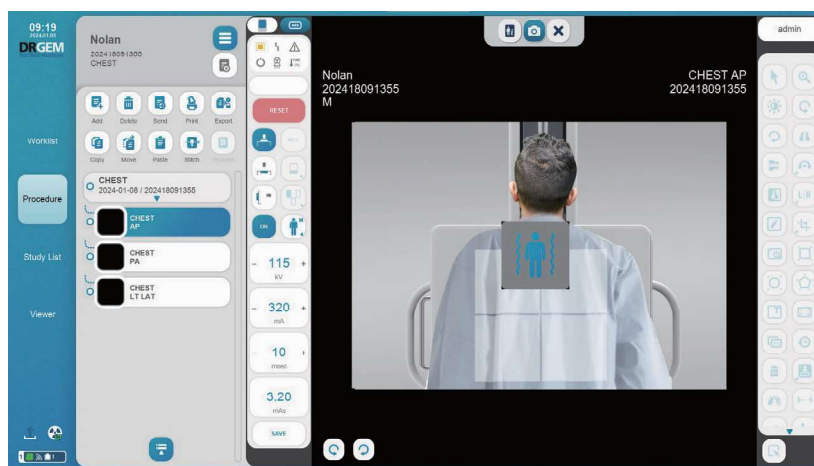
**RADMAX GUI**



**THU GUI**

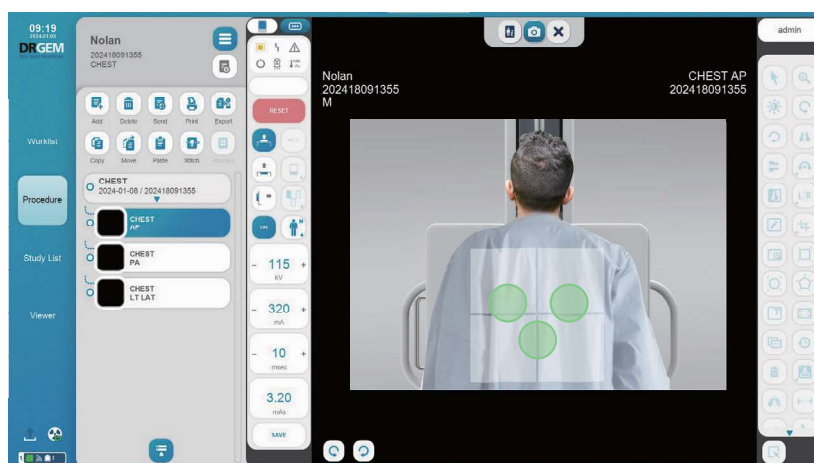
## Patient Movement Detection

- RADMAX can detect patient movement, and alert the operator before the X-ray exposure.

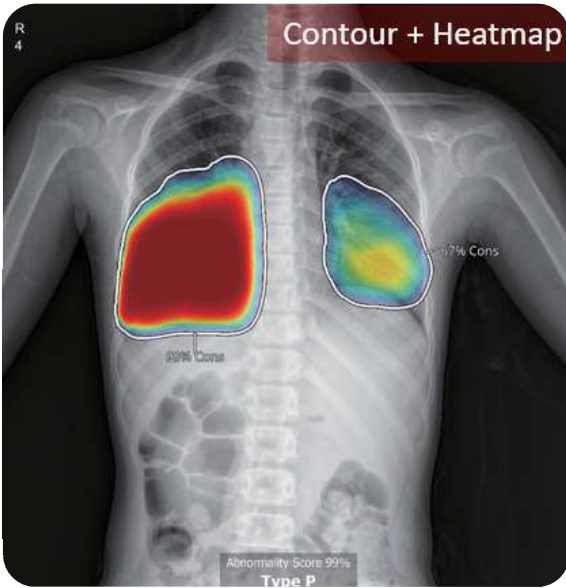


## Virtual AEC Field

- By displaying the AEC Field Area virtually, operator can accurately align and match the AEC Field area with the patient's body during patient positioning.
- It prevents X-ray retakes and helps in acquiring best quality images.

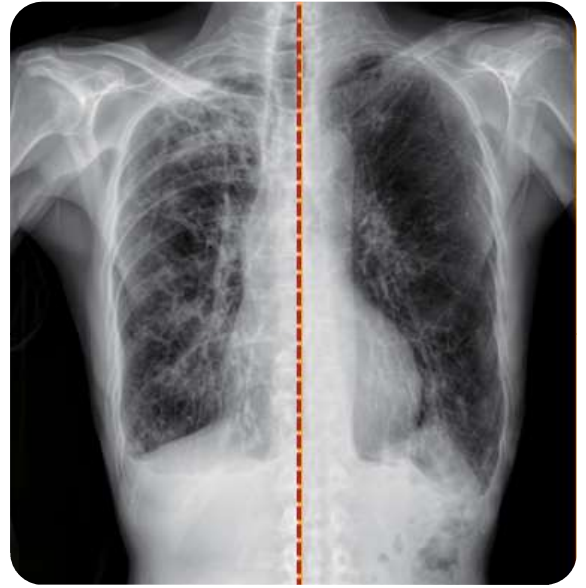


## AI-Based Diagnostic Assistance



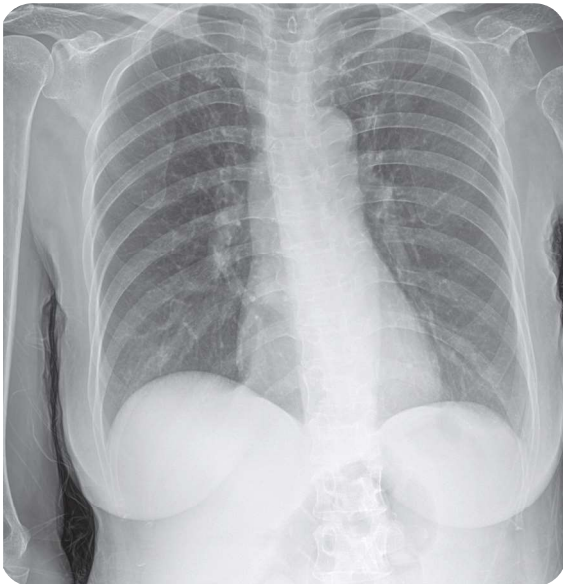
## Bone Suppression

AI-Based Bone Suppression for soft tissue imaging of Digital Chest Radiography.

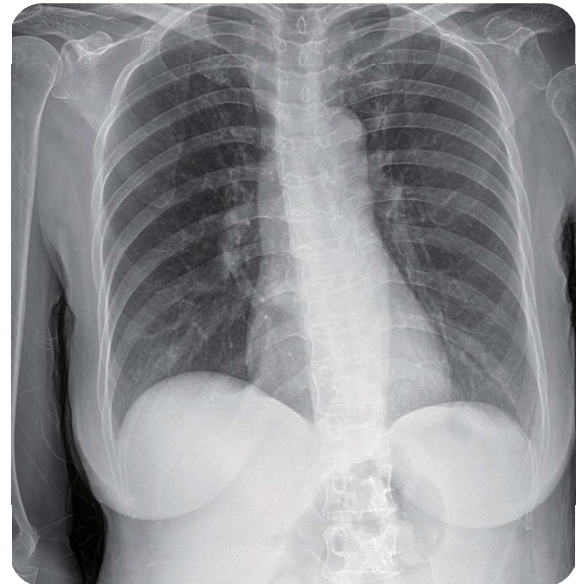


## Scatter Reduction

- This software-generated grid feature helps improve image quality by reducing radiation scatter without using physical grids.



**Non-Grid**



**Scatter Reduction**

## Applicable Detectors

Size	Scintillator	Type
10x12 / 14x17 / 17x17	CsI	Fixed / Wireless / Wired portable

## Patient Safety

### Preventing collisions with safety sensors



### Emergency Stop Switches



Wall Bucky Stand



Tube Stand



Patient Table



Control Room

### Patient Dose Management

**AEC** Automatic Exposure Control, Limiting X-ray dose to patients

**DAP** Dose Area Product, Measuring dose to patient

**RDSR** Radiation Dose Structured Reports for DICOM standard

**Carbon Fiber Tabletop** Superior X-ray transmittance, 270% less X-ray absorption

## High Frequency X-ray Generator



Generator Model	GXR-52	GXR-68	GXR-82
Power Rating	52kW	68kW	82kW
Line Power	380/400/480VAC, 3 $\Phi$ $\pm$ 10% (Frequency: 50*/60Hz), * : Outside North America		
kV Range	40~150kV, 1kV step		
mA Range	10 to 640mA	10to 800mA	10 to 1,000mA
Timer Range	0.001 to 10 sec, 38 steps		
mAs Range	0.1 to 500mAs (Optional up to 1,000mAs)		
Max. Power Output	640mA@81kV 500mA@104kV 400mA@130kV 320mA@150kV	800mA@85kV 640mA@106kV 500mA@136kV 400mA@150kV	1,000mA@82kV 800mA@102kV 640mA@128kV 500mA@150kV
Power Requirement	Minimum 125% of output rating		
Minimum Breaker Rating	75A(380Vac,3 $\Phi$ ) 75A(400Vac,3 $\Phi$ ) 65A(480Vac,3 $\Phi$ )	90A(380Vac,3 $\Phi$ ) 90A(400Vac,3 $\Phi$ ) 75A(480Vac,3 $\Phi$ )	100A(380Vac,3 $\Phi$ ) 100A(400Vac,3 $\Phi$ ) 90A(480Vac,3 $\Phi$ )
Rotor Supply	Dual Speed		
Reproducibility	Coefficient of Variation: kV < 0.005, Time < 0.005, mAs < 0.01, mR < 0.01		
Accuracy	kV < $\pm$ (1%+1kV), mA < $\pm$ (3%+1mA), Time < $\pm$ (1%+0.5ms), mAs < $\pm$ (3%+0.1mAs)		
Linearity	Coefficient of Linearity < 0.01 : CL = (X1-X2)/(X1+X2), where X is mR/mAs		



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#### **Address**

**Head Office/R&D** 7F,E-B/D Gwangmyeong Techno-Park, 60 Haan-ro, Gwangmyeong-si, Gyeonggi-do, Korea (14322)  
**Gumi Factory** 116-59, Sanho-daero, Gumi-si, Gyeongsangbuk-do, Korea (39377)  
**Gimcheon Factory** 213, Saneopdanji-Ro, Eomo-Myeon, Gimchon-Si, Gyeongsangbuk-do, Korea (39536)