

A Philips CT 3500 scanner is shown in a clinical setting. The machine is white and grey, with a large circular gantry. A patient table is extended from the gantry. The Philips logo is visible on the gantry. There are two small digital displays on the machine, one on the left and one on the right, showing technical information. The background is a clean, modern clinical environment.

**PHILIPS**

Computed  
Tomography

CT 3500

# Imagine what you could do in a day

Philips CT 3500 Plus and Philips CT 3500 Pro specifications

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\*Optional in Philips CT 3500 Plus configuration, standard in Philips CT 3500 Pro configuration.

# 1. Introduction

Expand your clinical capabilities with a system so hardworking and reliable that you can count on its performance and productivity day after day. Philips CT 3500 Plus and Philips CT 3500 Pro have advances driven by AI-enabled workflow to help meet your organization's most pressing challenges. This system helps enhance the experience for your patients and staff while also offering an attractive total cost of ownership.

Like never before, operator and design efficiencies come together for wise decisions from start to finish.

## Clinically enhance health outcomes

- AI-enabled at every step with CT Smart Workflow
- Improved diagnostic confidence in image quality with Precise Image
- Simple post-processing and consistent image quality with Precise Brain and Spine

## Operationally improve patient and staff experience

- Capability of continuous lung screening scan with no cooling time for up to 240 patients in 8 hours
- Reduce patient positioning time by up to 23%\* and enable interoperator consistency
- Reduce workflow time for lung screening by up to 50%\*\* with CT Smart Workflow and OnPlan patient-side gantry controls

## Financially reduce overall cost of care

- Clinical breadth and high performance tube enable 200-300 patient exams per day
- 50%† longer tube life as compared to a traditional tube
- Remote service technology resolves 38% of issues without on-site service, improving uptime and enabling a first-time fix rate of 84%‡



Feature	Specification
Effective power with iDose <sup>4</sup>	72 kW
Slices	64
Coverage	20 mm
Maximum scannable range	1,550 mm
Bore aperture	720 mm
Reconstruction speed	Up to 35 IPS (55 IPS)
Anode effective heat capacity	≥25 MHU <sub>eff</sub> ; direct cooling

Note: Effective power is calculated by using generator power (55 kW) and using iDose<sup>4</sup> at the same time. This gives Philips CT 3500 Plus and Philips CT 3500 Pro effectively more power.

\* Based on Philips in-house assessment by five clinical experts, comparing manual positioning versus Precise Position in 40 clinical cases using a human body phantom.

\*\* Based on Philips in-house assessment by five clinical experts, comparing manual versus CT Smart Workflow and OnPlan in five clinical cases using a human phantom. Results may vary in different environments.

† Tube replacement offer availability varies by country. Please contact your local Philips sales representative for details.

‡ Data collected across Philips CT scanners using Remote Services, and numbers will be updated on a rolling basis when more CT 3500 data is available.

## 2. Gantry

Feature	Specification
Aperture	720 mm
Rotation times	0.5*, 0.75, 1.0, 1.5 seconds for full 360° scans
Focus-isocenter distance	570 mm
Focus-detector distance	1040 mm
Intercom system	Two-way connection between the gantry and console area
Digital tilt	+/- 30°

\*Optional in Plus, standard in Pro configuration

## 3. Patient table

Feature	Standard table
Maximum scannable range	1,550 mm
Pitch	0.15 – 1.5
Z-position accuracy	+/- 1.0 mm
Longitudinal speed	1–300 mm/s
Lowest table height	480 mm
Maximum load capacity	200 kg (440 lb)

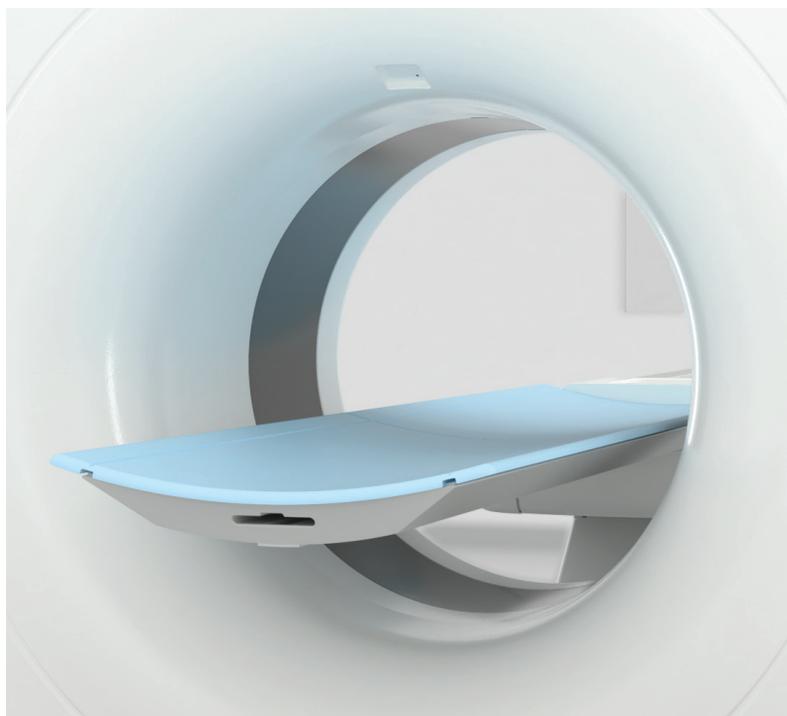
## 4. Patient support

### Standard

Head holder
Head rest cushion
Table pad
Knee pad
Wedges pad
Patient straps
Foot extension with cushions

### Optional

Flat head rest
Coronal head rest
Neck vertebrae cushion
Arm rest
Arms-over-head rest kit
Tabletop push-pull handle
Flat mattress slicker



# 5. Imaging chain

## 5.1 Generator

Feature	Specification
Effective power with iDose <sup>4</sup>	72 kW
Power rating	55 kW
kVp setting	70, 80, 100, 120, 140
mA range (step size)	5 – 667 (1 mA step)

Note: Effective power is calculated by using generator power (55 kW) and using iDose<sup>4</sup> at the same time. This gives Philips CT 3500 Plus and Philips CT 3500 Pro configurations effectively more power.

## 5.2 X-ray tube

Feature	Specification
Nominal focal spot values, quoted to IEC 60336:2005 standard	Small: 0.5 x 1.0 Large: 1.0 x 1.0
Anode effective heat capacity	≥25 MHU <sub>eff</sub> ; direct cooling
Anode heat capacity	8.0 MHU
Maximum continuous anode input power (IEC 60613:2010)	5.5 kW
Anode diameter	200 mm
Anode rotation speed	105 Hz (6,300 rpm)
Target angle	7°
Maximum helical exposure time	120 s

## 5.3 NanoPanel Precise detector

Feature	Specification
Slices	64
Coverage	20 mm
Material	Solid-state GOS with 21,504 elements
Slip ring	Optical – 2.5 Gbps transfer rate
Data sampling rate	Up to 2,320 views/revolution/element
Collimations available	4 x 0.625 16 x 0.625 mm 16 x 1.25 mm 32 x 0.625 mm
Slice thickness (helical mode)	0.67 mm – 5 mm
Slice thickness (axial mode)	0.625 mm – 10 mm
Scan angles	360°
Scan field of view	500 mm

# 6. Image quality

## 6.1 Spatial resolution

### Spatial resolution

High mode

### Specification

16.0 ± 10% lp/cm @ 0% MTF

13.5 ± 10% lp/cm @ 2% MTF

> 11.0 lp/cm @ 10% MTF

> 6.0 lp/cm @ 50% MTF

Standard mode

13.0 ± 10% lp/cm @ 0% MTF

11.5 ± 10% lp/cm @ 2% MTF

9.5 ± 10% lp/cm @ 10% MTF

5.0 ± 10% lp/cm @ 50% MTF

## 6.2 Low-contrast resolution

### Feature

Low-contrast resolution (with iDose<sup>4</sup>)

### Specification

2 mm @ 0.3%; ≤ 42 mGy CTDI<sub>vol</sub> (body)

3 mm @ 0.3%; ≤ 22 mGy CTDI<sub>vol</sub> (body)

4 mm @ 0.3%; ≤ 15.5 mGy CTDI<sub>vol</sub> (body)

5 mm @ 0.3%; ≤ 14 mGy CTDI<sub>vol</sub> (body)

Low-contrast resolution (with Precise Image<sup>†</sup>)

5 mm @ 0.3%; ≤ 5.5 mGy CTDI<sub>vol</sub> (body)

Note: 20 cm Catphan phantom; 10 mm slice thickness

## 6.3 Other

### Feature

Absorption range

### Specification

-1,024 to +3,071 Hounsfield Units

Noise (with iDose<sup>4</sup>)

≤ 0.18% at 120 kV, CTDI<sub>center</sub> (head) ≤ 33 mGy

10 mm image thickness

<sup>†</sup> Optional



# 7. Reconstruction

## 7.1 Reconstruction speed

Feature	Specification
Reconstruction speed, standard console	Max speed $\geq$ 35 images
Reconstruction speed, enhanced console	Max speed $\geq$ 55 images

## 7.2 Precise Image (optional)

Precise Image is a recon mode that uses a convolutional neural network to generate noise reduction images. It provides better low contrast detectability and lower noise using reduced dose compared with standard FBP recon mode.

## 7.3 iDose<sup>4</sup>

iDose<sup>4</sup> improves image quality\* through artifact prevention and increased spatial resolution at low dose.

## 7.4 O-MAR

O-MAR reduces artifacts caused by large orthopedic implants.

## 7.5 Cone Beam Reconstruction Algorithm – COBRA

Philips patented Cone Beam Reconstruction Algorithm (COBRA) enables true three-dimensional data acquisition and reconstruction in both axial and helical spiral scanning.

## 7.6 ClearRay reconstruction

A revolutionary solution pre-computes and stores beam hardening in a database later referenced to create a correction that is personalized to each individual patient. As a fully three-dimensional technique, contrast scale stability is preserved across different patient sizes, image uniformity is improved, and organ boundaries are better visualized.

## 7.7 Adaptive filtering

Adaptive filters reduce pattern noise (streaks) in non-homogenous bodies, improving overall image quality.



## 7.8 Reconstruction field of view

50 to 500 mm

## 7.9 Image matrix

512 x 512 • 768 x 768 • 1,024 x 1,024

## 7.10 Off-line reconstruction

Off-line (batch) background image reconstruction of user-defined groups of raw data files with automatic image storage.

\* Improved image quality is defined by improvements in spatial resolution and/or noise reduction as measured in phantom studies.

# 8. DoseWise

Philips DoseWise is a holistic approach to dose management that is active in every level of product design. It encompasses a set of techniques, programs and practices based on the ALARA (As Low As Reasonably Achievable) principle and supports outstanding image quality at low dose.

## 8.1 DoseRight Index

DoseRight Index (DRI) is a single number used to specify the image quality required for the diagnostic task at hand. DRI includes organ-specific DRI for the liver and the head and neck to provide appropriate dose and image quality within a single acquisition.

## 8.2 CT Dose Check

Supports an operator notification in each exam card that will be shown if an acquisition is planned that exceeds a specified  $CTDI_{vol}$  or DLP. In addition, an alert is available such that, if an acquisition is planned and the total exam will exceed a specified  $CTDI_{vol}$  or DLP, the operator will be required to enter his or her name and (if configured) a password to proceed, or the operator can adjust the scan parameters. Compliant with NEMA XR-25 and XR-29.

## 8.3 DICOM structured reporting/IHE REM profile

DICOM radiation dose structured report that can be transferred to external systems such as HIS/RIS, PACS, or dose registries.

## 8.4 3D-DOM

3D-DOM combines angular and longitudinal information to modulate dose in three dimensions. Personalizes dose for each patient by automatically suggesting tube current settings according to the estimated patient diameter in the scan region. Angular dose modulation varies the tube current during helical scans according to changes in patient shape (eccentricity) and tissue attenuation as the tube rotates. For each rotation, projections are processed to determine the maximum and minimum patient diameter. The tube current for the next rotation is then modulated between these limits.

## 8.5 Dedicated pediatric protocols

Age- and weight-based pediatric protocols produce diagnostic images at a minimum dose according to patient age for head scans, and patient weight for body scans.

## 8.6 Dose display and reports

Philips CT scanners include intuitive reporting and recording of estimated dose indices, dose reduction, and dose efficiency. Dose estimates are displayed on the operator's console for all scan protocols prior to and throughout the examination. Volume computed tomography dose index ( $CTDI_{vol}$ ) and dose-length product (DLP) are automatically updated as the operator plans the scan. Also, a dose report may be included as a DICOM dose structured report and/or DICOM secondary capture with the reconstructed data set.

## 8.7 Dose performance data

$CTDI_{vol}$	Measurement
Head	15.72 mGy/100 mAs
Body	9.01 mGy/100 mAs

Measured on head and body CTDI phantoms (IEC 60601-2-44 ed. 3) at 120 kVp.

# 9. Clinical enhancements

## 9.1 Direct results

End-to-end workflow with clinical intelligence for direct and comprehensive clinical results, optimal image quality and consistency.

## 9.2 Precise Spine

An important practice of Direct Results, with preset protocols defining expected batch results of lumbar and cervical disc for optimal workflow efficiency and clinical consistency.

## 9.3 Precise Brain

An important practice of Direct Results, with preset protocols defining expected batch results of brain for optimal workflow efficiency and clinical consistency.

## 9.4 Split study

Allows automatic split of the exam series into separate exams based on the procedure descriptions.

## 9.5 Precise Planning

Precise Planning can automatically adjust the scan range of subsequent axial or helical scan series based on the surview image – a convenient assistant for you to set scan range. Precise Planning supports head, lung, L-spine disc, C-spine (for helical protocol), liver, pelvis, femur head, lung screening, chest/abdomen combination scan, and CAP (chest, abdomen, pelvis) scan mode.

## 9.6 Clinical applications

- CT Reporting
- MPR
- MinIP
- Volume Rendering
- Filming
- MIP
- AIP
- Virtual Endoscopy

## 9.7 Neuro Essentials (optional)

Provides up to 40 mm of organ coverage for perfusion studies. An axial scan is taken in one location, the table translates to another location within a few seconds, and another axial scan is taken. These multiple data sets are registered automatically to provide the extended coverage.

Advanced Brain Perfusion allows the physician to differentiate areas of increased blood volume and decreased blood flow and presents information that may help to distinguish between still-viable and non-viable infarcted tissue. Using serial CT scans obtained with intravenous injection of contrast, Brain Perfusion derives perfusion information from the time-density curves based on the uptake of injected contrast material and subsequent tissue enhancement. The application generates quantitative color maps of cerebral blood flow (CBF), cerebral blood volume (CBV), mean transit time (MTT) and time-to-peak (TTP).

## 9.8 Lung Nodule Assessment

Provides lung nodule analysis and follow-up studies for doubling time to give reference details for benign and malignant definition of lung cancer, as well as early diagnosis.

## 9.9 Bolus tracking

An automated injection planning technique to monitor actual contrast enhancement and initiate scanning at a predetermined level.

## 9.10 Spiral Auto Start (SAS)

Spiral Auto Start allows the injector to communicate with the scanner. This allows the technologist to monitor the contrast injection and to start the scan (with a predetermined delay) while in the exam room and control room.

## 9.11 Dental Planning (optional)

Generates panoramic views and cross-sectional cuts of mandible and maxilla from high-resolution axial slices.

## 9.12 CT Colonoscopy (optional)

Virtual Colonoscopy can provide automatic colon segmentation, virtual endoscopy, transparent view, cross-sectional and unfold view. Navigation Stage in viewer allows full freedom for clinicians to fly through the colon virtually and mark the polyps for measurements and clinical analysis.

## 9.13 Vessel Analysis (optional)

This set of tools for general vascular analysis allows the user to easily remove bone and extract and segment the vessels to quickly perform typical measurements such as intraluminal diameter, cross-sectional lumen area and length of vessel's segments, and angle of the vessels. The package allows the user to display the data set using volume rendering, Average, or MIP with cross-section images that can be used to delineate aneurysm, presence of mural calcification and lining mural thrombus, branch vessel (celiac, mesenteric, renal) and the iliofemoral arterial runoff circulation.

## 9.14 Parallel workflow (optional)

Dual-monitor console is designed for simultaneous operations of scanning on left-side monitor and post-processing, such as filming, reporting, reviewing, and analysis on right-side monitor for uninterrupted workflow.

# 9. Clinical enhancements (continued)

## 9.15 Cardiology solutions\*

### Cardiac Essentials

Includes both Cardiac Calcium Scoring Acquisition and post-processing application. Prospectively triggers axial scans for accurate and reproducible calcium scoring studies, and is used to quantify the buildup of calcium plaque on the walls of the patient's coronary arteries and other relevant locations. The potential calcifications are highlighted by the application during launch. As you mark calcifications, the application accumulates the calcium data and calculates the patient's calcium score based on a scoring protocol.

A compare function allows you to evaluate scoring results from two studies of the same patient – the original and a follow-up.

\*Optional in Plus, standard in Pro configuration

## 9.16 Interventional solutions (optional)

### Interventional Essentials Cart

Continuous CT (CCT) applications utilize cart-mounted monitor(s) synchronized with single console workflow. CCT biopsy with single, continuous mode enables the clinician to perform scans from the gantry room using a foot pedal to view images on the cart-mounted, in-room monitor(s) to guide planning and monitoring.

### Interventional Advanced Cart

Continuous CT (CCT) applications utilize cart-mounted monitor(s) synchronized with parallel console workflow. CCT biopsy with single and continuous mode enables the clinician to perform scans from the gantry room using a foot pedal and view images on the cart-mounted, in-room monitor(s) to guide planning and monitoring.

### Interventional Essentials Ceiling

Includes CCT applications utilizing ceiling-mounted monitor(s) synchronized with parallel console workflow. CCT biopsy with single, continuous mode enables the clinician to perform scans from the gantry room using a foot pedal and view the images on the ceiling-mounted, in-room monitor(s) to guide planning and monitoring.

### Precise Intervention

Precise Intervention provides virtual needle path and guidance by automatically calculating needle depth, tip-to-target distance, angle and deviation from plan.

## 9.17 Precise Position (optional)

Supports automatic patient positioning for enhanced user workflow and inter-operator consistency. Automatically displays the recommended vertical position and start and end positions, in addition to the selection of patient orientation on both the gantry panel and console. Via the smart load button, the system places the table at the recommended vertical height and start position.

## 9.18 Dual Energy (optional)

Includes a dual-energy scan type that allows the acquisition and reconstruction of sequential dual-energy scans. The Spectral Analysis application may allow separation and analysis of materials such as calcium and uric acid when used with dual-energy scan data.

## 9.19 OnPlan

OnPlan is a brand new gantry operational touch panel located on both sides of the gantry. The OnPlan patient-side gantry controls are used to active the laser marker, controls patient table movements, display patient information and images, and conduct a new patient exam.

# 10. Networking and storage

## 10.1 Networking

Supports 10/100/1000 Mbps (10/100/1000 BaseT) networks. For optimal performance, Philips recommends a minimum 100 Mbps network (1 Gbps preferred) and for the CT network to be segmented from the rest of the hospital network.

## 10.2 DICOM

DICOM 3.0-compliant image format. Images can be auto-stored to selected archive media.

Includes the following DICOM functionality:

- Service-class user and profile (CT, secondary capture)
- DICOM Print
- DICOM Modality Worklist
- Query/Retrieve User
- Modality Performed Procedure Step User
- Removable Media
- Structured Reports

## 10.3 DICOM connectivity

Full implementation of the DICOM 3.0 communications protocol allows connectivity to DICOM 3.0-compliant scanners, workstations, and printers; supports IHE requirements for DICOM connectivity.

## 10.4 DICOM DVD/CD writer\*

Stores DICOM images and associated image viewing software on DVD/CD media. Images on these DVD/CDs can be viewed and manipulated on PCs meeting the minimum specifications. Suited for individual result storage and referring physician support.

## 10.5 Filming

Basic monochrome and color DICOM print capability are supported.

## 10.6 Image storage

Type	Hard drive
<b>Standard console</b>	
Capacity	440 GB
Approximate images**	≥ 900,000
Patients***	≥ 900
<b>Enhanced console</b>	
Capacity	1.3 TB
Approximate images**	≥ 2,600,000
Patients***	≥ 2,600

\* Only available on the enhanced console.

\*\* 512x512 matrix; non-compressed; about 0.5 MB per image

\*\*\* Based on 1,000 images per study

# 11. Site planning

## 11.1 Power requirements

- 200/208/240/380/400/415/440/460/480 VAC
- 50/60 Hz
- 85 kVA supply
- Three-phase distribution source
  - Isolation transformer (optional)

## 11.2 Remote Software Distribution

Remote Software Distribution allows remote software download to the system from the PRS portal and allows the software installation to be performed by service.

## 11.3 Console Uninterrupted Power Supply (UPS) (optional)

Provides up to 30 minutes of backup power for host system.

## 11.4 Environmental requirements

### Temperature

Gantry room	18 to 24°C (64 to 75°F)
Control room	10 to 30°C (50 to 86°F)
Operating maximum gradient	5 °C/hour
Storage temperature	-15° to 45°C (5 to 113°F)
Storage maximum gradient	10°C/hour
Transportation	-20°C to +50°C

### Humidity

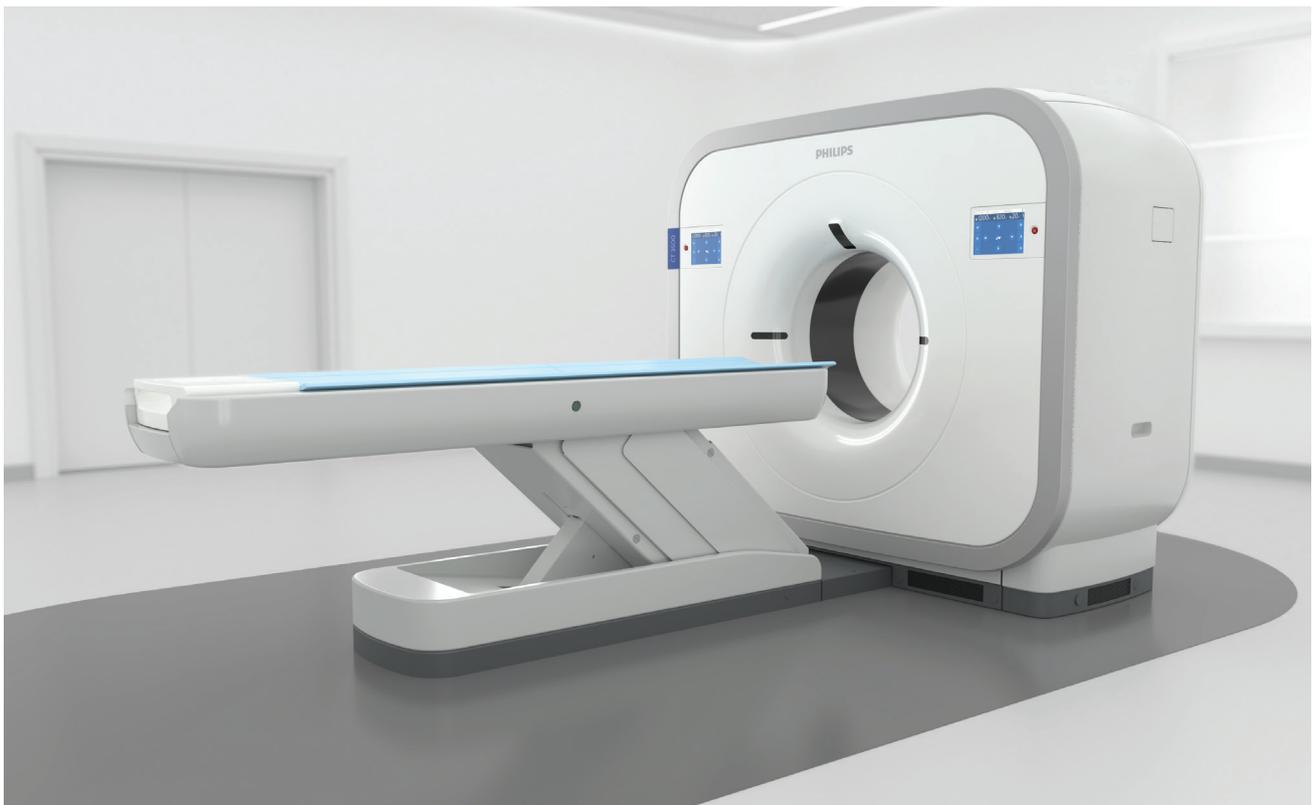
Gantry and control room	40% to 70%, non-condensing
Storage	20% to 80%, non-condensing
Transportation	20% to 80%, non-condensing

### Air pressure

Operating	70 to 106 kPa
Storage	50 to 106 kPa
Transportation	50 to 106 kPa

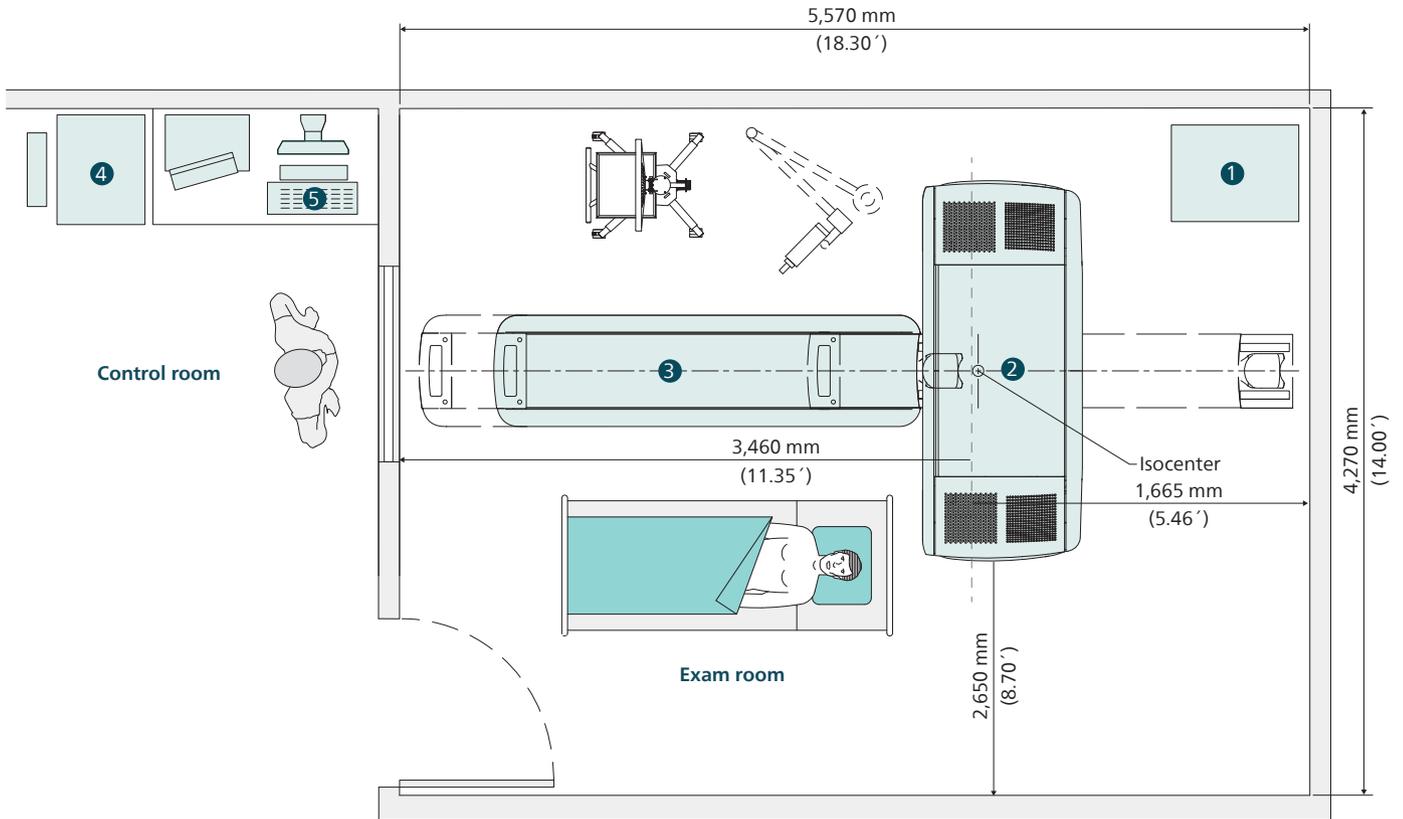
### Altitude

Operation	Maximal 3,000m
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# 11. Site planning (continued)

## 11.5 System requirements – minimum room layout



## 11.6 Dimensions and weights, per unit

Type	Length	Width	Height	Weight
① Isolation transformer (PDU) (optional)	770 mm	592 mm	826 mm	382 kg
② Gantry scanner	2,212 mm	978 mm	1,943 mm	1,874 kg
③ Patient table	2,473 mm	640 mm	866 mm	380 kg
④ Console UPS (optional)	470 mm	430 mm	85 mm	16.8 kg
⑤ Scan control box	334 mm	117 mm	42 mm	1 kg

# 12. Ecopassport

As a company committed to doing business sustainably, we are keen to help our customers make responsible choices. We offer solutions that improve people's health and well-being while reducing impact on the environment. Our EcoPassports summarize the environmental benefits our products offer in one or more of our focal areas. For example, increased energy

efficiency, more sustainable packaging, or a circular-ready product design optimized for repair, refurbishing and recycling. In this way, we want to help ensure that each purchase decision is the right one for our customer's needs *and* the planet.

Further reading at: [www.philips.com/sustainability](http://www.philips.com/sustainability).



## Energy

- Standby mode: 3.4 kW
- Ready to scan: 8.5 kW
- On/Scan mode: up to 55 kW
- Energy usage/year<sup>1</sup>: 23838 kWh



## Weight

- Product: 2174 kg



## Packaging

Total weight: 827.58 kg  
Wood: 769 kg  
Cardboard: 56.58 kg  
Plastic PE: 2 kg



## Substances

As required by law, compliant with:

- RoHS 2<sup>2</sup>
- REACH
- EU-POP
- EU MDR
- California Proposition 65



## Circularity

- Service and spare parts available<sup>3</sup>
- 100% committed to responsible take-back of systems<sup>3,4</sup>

Enhancing the capabilities of your existing scanners, the SmartPath upgrade offers easy access to knowledge-based iterative reconstruction.



**Optimize** your system's performance both now and in the future with regular and ongoing updates, including functionality improvements and remote technical support.



**Enhance** your equipment with regular technology upgrades, and take advantage of the newest features and capabilities.



**Transform** your investment at the end of your system's life by transitioning seamlessly to a next-generation solution or refurbished option.

<sup>1</sup> Average use scenario: 20 scans / day (9 head, 3 chest, 3 spine, 5 abdomen), 35-minute exam period, 12 hours idle overnight

<sup>2</sup> REU Directive 2011/65/EU plus amendment 2015/863

<sup>3</sup> Subject to availability in your country

<sup>4</sup> Provided upon customer's acceptance of our trade-in offer or as a service at customer request. Equipment returned to Philips is, where feasible, made available for refurbishment and/or parts recovery, or locally recycled in a certified way.



Philips CT 3500 is a computed tomography X-ray system intended to produce images of the head and body by computer reconstruction of X-ray transmission data taken at different angles and planes. These devices may include signal analysis and display equipment, patient and equipment supports, components and accessories. Philips CT 3500 is indicated for head, whole body, cardiac (Cardiac Calcium Scoring) and vascular X-ray computed tomography applications in patients of all ages. These scanners are intended to be used for diagnostic imaging and for low dose CT lung cancer screening for the early detection of lung nodules that may represent cancer.\* The screening must be performed within the established inclusion criteria of programs and protocols that have been approved and published by either a governmental body or professional medical society.

\* Please refer to clinical literature, including the results of the National Lung Screening Trial (N Engl J Med 2011;365:395-409) and subsequent literature for further information.

The images and descriptions contained herein provide technical specifications and optional features which may not be included with the standard system configuration. Contact your local Philips representative for complete specific system details.

Some or all of the products, features, and accessories shown or described herein may not be available in your market. Please contact your local Philips representative for availability.

Philips CT 3500 Plus and Philips CT 3500 Pro are configurations of Philips CT 3500.



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