Qty	Part No.	Item Description
1		**SOMATOM Definition AS(AS64 FAST)**

The SOMATOM Definition AS (AS FAST CARE, 64-slice configuration) is Siemens' state-of-the-art single source CT that offers the possibility to maximize clinical outcome and to minimize radiation dose. The ultimate goal is to provide medical professionals more time to take better care of their patients. With this, it is set to raise the standard of patient-centric productivity. Using Siemens' z-Sharp technology the SOMATOM Definition AS can provide fast sub-millimeter volume coverage and very high spatial resolution. The high rotation time of 0.30 seconds delivers excellent temporal resolution. With Siemens' new FAST - Fully Assisting Scanner Technologies - the SOMATOM Definition AS can simplify typically time consuming and complex procedures: the scanning process gets more intuitive and the results become more reproducible. Its comprehensive low dose portfolio includes many unique features like CARE kV that sets the ideal voltage for every examination or industry's first Adaptive Dose Shield that prevents clinically irrelevant over radiation in spiral scanning. Additionally, its large bore of 78 cm opens CT to all patients, meaning that virtually no patient is excluded.

1 100 kW Power

The 100 kW power allows the X-ray generator the use of maximum power of 100kW in fine adjustable steps.

1 IRIS #AWP

Iterative Reconstruction in Image Space (IRIS) allows to enhance spatial resolution and to reduce image noise by introducing multiple iterative steps in the reconstruction process, thus allowing up to 60 % dose reduction* or image quality improvement. *Disclaimer: In clinical practice, the use of IRIS may reduce CT patient dose depending on the clinical task, patient size, anatomical location, and clinical practice. A consultation with a radiologist and a physicist should be made to determine the appropriate dose to obtain diagnostic image quality for the particular clinical task. Dose reduction potential was determined by lowering dose by 60% and reconstructing with IRIS. Noise, CT numbers, homogenity, low-contrast resolution and high contrast resolution were assessed in a Gammex 438 phantom. Low dose data reconstructed with IRIS showed the same image quality compared to full dose data based on this test. Data on file.

Qty	Part No.	Item Description

1

FAST CARE Platform

Siemens' unique FAST CARE platform is set to raise the standard of patient-centric productivity. Utilizing FAST - Fully Assisting Scanner Technologies -, typically time-consuming and complex procedures during the scan process are extremely simplified and automated, not only improving workflow efficiency, but optimizing the overall clinical outcome by creating reproducible results, making diagnosis more reliable and reducing patient burden through streamlined examinations. Siemens' desire for as little radiation exposure as possible lies at the heart of the CARE - Combined Applications to Reduce Exposure - research and development philosophy offering a unique portfolio of dose saving features, many of them being introduced as industry's first.

1

CARE Child

Dedicated pediatric CT imaging, including 70 kV scan modes and specific CARE Dose4D curves and protocols

1

FAST Advanced Package

Utilizing Siemens' unique FAST - Fully Assisting Scanner Technologies - time-consuming and complex procedures such as scan or recon preparations are extremely simplified - ideally reduced to a single click. The FAST Advanced Packages offers an attractive bundle of FAST features to comprehensively optimize scan and recon preparations.

1

FAST IRS

Reconstruction computer for the preprocessing and reconstruction of the CT raw data. The reconstruction computer contains of a cluster of 3 high-performance GPU boards performing the preprocessing and reconstruction of the CT data. The raw data memory is 2 Tbyte. The peak reconstruction performance is up to 50 frames/sec.

1

Gantry tilt incl. tilted spiral

Allows for sequential scanning with a tilted gantry between +/- 30°, depending on the vertical position of the table. Using the gantry tilt sensitive organs (like eye lenses) can be moved out of the scan range or it eases access during interventional procedures. The tilted spiral allows to utilize the gantry tilt for spiral scan modes.

1

Extended Field of View #AWP

Software program with special reconstruction algorithms that allow for visualization of objects using a FOV up to 78 cm (non-diagnostic image quality). License to use software on a single unit.

1

UHR

UHR mode delivers Ultra High resolution in plane of up to 241p/cm for high defined imaging of small structures such as inner ear, joints or fractures of the bone

1

SOMATOM Definition AS

SOMATOM Definition AS Basic configuration

1

Rear cover incl. gantry panels

Rear Cover including gantry control panels with control functionality from the backside.

1

Keyboard English

Keyboard in the above-mentioned language.

1

Cooling System Air

SOMATOM Definition AS air cooling for the dissipation of heat generated in the gantry.

1

Cable loom 25 m

Cable loom used to connect the power distribution system (PDS) with the gantry.

Qty	Part No.	Item Description

Item Description

Multi Purpose Table

Patient table to support up to 200cm scan range. Motor-driven table height adjustment from min. 48 cm to max. 92 cm, longitudinal movement of the tabletop 200 cm in increments of 0.5 mm, positioning accuracy +/- 0.25 mm from any direction. Horizontal scan range 200 cm. Table height can be controlled alternatively by means of foot switch (2 each on both sides of the patient table). In the case of emergency stop or power failure, the tabletop can also be moved manually in horizontal direction. Max. table load: 227 kg/500 lbs, Table feed speed: 2-200 mm/s, Distance between gantry front and table base 40 cm. Positioning aids: Positioning mattress, mattress protector, head-arm support (inclusive cushion), and non-tiltable head holders with positioning cushion set, patient restraining system for head fixation, restraining-strap set with body fixation strap that can be directly connected to the patient table top, headrest, table extension with positioning mattress, knee-leg support.

Qty: 1

High Cap. Patient & Trauma Tab.Top

The high capacity and trauma table top offers the capability to support up to 300 kg/660 lbs of patient weight. It allows easy positioning and transfer from and to the table, due to its flat surface. Special accessories and an extended table top width of 530 mm ensure a safe and comfortable positioning for obese patients.

Qty: 1

High Cap. Patient & Trauma Acc Kit

The High capacity and Trauma accessory kit contains additional Patient restraint set with a width of 400mm and additional table extensions for feet and head.

Qty: 1

Mattress for Bariatric Table Top

This mat is used for scanning non-bariatric patients on the flat, bariatric table top. Placing this mat on the bariatric table top eliminates the need to exchange the table top when non-bariatric patients are scanned. This mat has a curved profile and enables comfortable positioning of non-bariatric patients.

Qty: 1

Tiltable Head Holder

Tiltable Head Holder for the fixation of the patient's head. Tilt range between +30 till - 15 degree.

Qty: 1

Computer Desk #AWP

New CT desk to accommodate the control components and color monitor. Width: 1200 mm, Depth: 800 mm, Height: 720 mm.

Qty: 1

Computer Cabinet #AWP

New cabinet to accommodate the computer system and UPS. Matched to the design of the control console table. Width: 800 mm, Depth: 800 mm, Height: 720 mm

Qty: 1

CT Project Management

A Siemens Project Manager (PM) will be the single point of contact for the implementation of your Siemen's equipment. The assigned PM will work with the customer's facilities management, architect or building contractor to assist you in ensuring that your site is ready for installation. Your PM will provide initial and final drawings and will coordinate the scheduling of the equipment, installation, and rigging, as well as the initiation of on-site clinical education.

Qty: 1

CT Standard Rigging and Installation

This quotation includes standard rigging and installation of your CT new system. Standard rigging into a room with reasonable access, as determined by Siemens Project Management, during standard working hours (Mon. - Fri./ 8 a.m. to 5 p.m.) It remains the responsibility of the Customer to prepare the room in accordance with the SIEMENS planning documents. Any special rigging requirements (Crane, stairs, etc.) and/or special site requirements (e.g. removal of existing systems, etc.) is an incremental cost and the responsibility of the Customer. All other "out of scope" charges (not covered by the standard rigging and installation) will be identified during the site assessment and remain the responsibility of the Customer.

Qty: 1

Qty	Part No.	Item Description

Initial onsite training 32 hrs

1

Up to (32) hours of on-site clinical education training, scheduled consecutively (Monday - Friday) during standard business hours for a maximum of (4) imaging professionals. Training will cover agenda items on the ASRT approved checklist. Uptime Clinical Education phone support is provided during the warranty period for specified posted hours. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.

1

Additonal onsite training 32 hours

Up to (32) hours of on-site clinical education training, scheduled consecutively (Monday - Friday) during standard business hours for a maximum of (4) imaging professionals. Training will cover agenda items on the ASRT approved checklist if applicable. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.

1

AS-64 slice configuration z-Sharp Tech.

The unique STRATON X-ray source utilizes an electron beam that is accurately and rapidly deflected, creating two precise focal spots alternating 4,608 times per second. This doubles the X-ray projections reaching each detector element. The two overlapping projections result in an oversampling in z-direction. The resulting measurements interleave half a detector slice width, doubling the scan information without a corresponding increase in dose. Siemens' proprietary UFC (Ultra Fast Ceramic) detectors and the corresponding 64-slice detector electronics enable a virtually simultaneous readout of two projections for each detector element - resulting in a full 64-slice acquisition. This sampling scheme is identical to that of a 64 x 0.3 mm allowing for reconstruction of 192 slices using 0.1 mm reconstruction interval increment. z-Sharp Technology, utilizing the STRATON X-ray sources and the UFC detectors, provides scan speed independent visualization of 0.33 mm isotropic voxels and a corresponding elimination of spiral artifacts in the daily clinical routine at any position within the scan field.

1

CT SLICKER; SENSATION AND VOLUME ZOOM

1

Low Contrast CT Phantom & Holder

1

FAST Adjust

FAST Adjust: assists the user to handle system settings in a fast and easy way by automatically solving of conflicts within user defined limits by one single click on the FAST Adjust button. The limits for scan time and tube current per scan are defined via the Scan Protocol Assistant. FAST Adjust offers an undo functionality to return to previously set values.

FAST Scan Assistant

FAST Scan Assistant: An intuitive user interface for solving conflicts by changing the scan time, resp. the pitch and/or the maximum tube current manually.

1

CARE kV

CARE kV: First automated, organ-sensitive voltage setting to improve image quality and contrast-to-noise-ratio while optimizing dose and potentially reducing it by up to 60%.

1

CARE Profile

CARE Profile: Visualization of the dose distribution along the topogram prior to the scan

CARE Dashboard

1

Visualization of activated dose reduction features and technologies for each scan range of an examination to analyze and manage the dose to be applied in the scan

1

Dose Notification

Dose Notification: As requested by the new release of the standard IEC 60601 3rd edition, the SOMATOM Definition AS provides the ability to set dose reference values (CTDlvol, DLP) for each scan range. If these reference values are exceeded the Dose Notification window informs the user.

1

Qty	Part No.	Item Description

Dose Alert

Dose Alert: As requested by the new release of the standard IEC 60601 3rd edition, the SOMATOM Definition automatically adds up CTDlvol and DLP depending on z-position (scan axis). The Dose Alert window appears, if either of these cumulative values exceeds a user-defined threshold.

1 **Adaptive Dose Shield**

Adaptive Dose Shield for spiral acquisition to eliminate pre- and post-spiral over-radiation.

1 **CARE Dose Configurator**

CARE Dose Configurator: Enhancement of Siemens' renowned real-time dose modulation CARE Dose4D, introducing new reference curves for each body region and for each body habitus allowing to adjust the configuration even more precisely to the patient's anatomy.

1 **CARE Dose4D**

CARE Dose4D delivers the highest possible image quality at the lowest possible dose for patients - maximum detail, minimum dose. Adaptive dose modulation for up to 60% dose reduction

One complimentary biomedical tuition is included with the purchase of this system. This training must be completed before the end of the warranty period.

TWO SETS OF SERVICE AND OPERATORS MANUALS

Initial onsite training 32 hrs GovOffset

Offset One Additional Onsite Training 32 hrs

OPTIONS:

Qty	Part No.	Item Description	Initial to Accept
		Stellant Dual Flow CT Inj (Stand)	X
		Adaptive 4D Spiral	X
		With the unique Adaptive 4D Spiral, dynamic CT imaging moves beyond fixed detector limitations to provide larger coverage than the actual detector size.	
1		**syngo Volume Perfusion CT Neuro#AWP** syngo Volume Perfusion CT - Neuro for syngo Acquisition Workplace only. Allows for 3 dimensional evaluation of volume perfusion CT data.	X
1		**syngo CT.3D Workplace #CTWP** A dedicated syngo CT processing workplace, designed to optimize data management at the CT scanner.	X