

PRS 500 E



PRS 500 E in analogue base configuration
PRS 500 E in analoger Basisausstattung



CE 0297



made
in
Germany

Please note:

The CE marking with identification number of the notified body (0297) refers only to medical devices intended to be used for human beings.

Hinweis:

Die CE-Kennzeichnung mit der Kennnummer der Benannten Stelle (0297) bezieht sich ausschließlich auf Medizinprodukte zur Anwendung für Menschen.

Product Features

The PRS 500 E series radiography system is a complete and powerful easy-to-use bucky workplace featuring high performance for the operator and a pleasant atmosphere for patients. This complete system delivers excellent exposure quality supporting any kind of examination techniques in orthopedic, surgical and urological application.

Room saving and fast installation with floor mounted X-ray column assembly

6 way X-ray Bucky table with easy moving table top for patient load up to 230 kg (optional 250 kg).

The electromagnetic brake is foot-operated as well as height adjustment of Bucky table top.

An integrated Bucky adapter between Bucky and column centers the X-ray tube unit with the detector or X-ray cassette

Automatic safety coupling for centering of X-ray tube assembly to bucky unit.

Integrated floor mounted tubestand with longitudinal travel and counterbalanced X-ray tube assembly enables low table-wall-distance and therefore optimal room utilization.

New modern design combines functionality and workflow

X-ray competence "Made in Germany" combines modern design with application flexibility and service friendliness with the PRS 500 E. The control unit is available with an analogue display as well as a touch control unit. The automatic activation of the collimator light provides the user with the best possible support and saves work steps. The rope change of the system can be realized for the service technician in a few steps through the easily accessible service flap.

Floating tabletop made of composite fibre material (optional carbon fibre composite material)

I.e. reduced radiation exposure for patients and less wear and tear of tube. The aluminum attenuation of the table top is typical 0,9 mm Al according to EN 60601-1-3 (optional: 0,7 mm at carbon fiber table top). Optional miscellaneous X-ray accessory like hand grips, compression band or bumper profile can be fixed at the integrated PA-accessory rails.

Minimal object-image receptor -distance brings optimum image geometry and accurate exposures along with minimal exposure time

Grid device with cassette drawer for image receptor.

Minimal exposure time, due to the carbon grid and optional digital measuring chamber

PRS 500 digital system with full DICOM-compatibility

Optional the system is available with different PROTEC RAPIXX flat panel versions. Due to its modular set-up the system can also be upgraded individually with additional software options up to a PACS (PROTEC PROPAXX medical imaging software).

PRS 500 digital system with CONAXX as central workstation for generator control and image acquisition

The advantages of a complete system with hard and software together with CONAXX provides the optimal workflow along with centralized control of the generator and detector.

Versions / Options

A generator from the Venus- or Polydoros series, with digital exposure control and an organ automatic, the X-ray tube and the depth aperture are included in the standard package. The selection of different system components enables individual adaptation to any requirements for analogous and digital use. A generator application under table is possible.

PRS 500 E

Technical Product Specifications

Table	<i>Table top dimension, standard</i>	2360 x 825 mm (optional 2000 x 755 mm)
	<i>Table top movement, transvers</i>	+/- 150 mm
	<i>Table top movement, longitudinal</i>	+/- 470 mm (optional +/- 330 mm at 2000 mm)
	<i>Table top height</i>	589-896mm
	<i>Table top brakes and height adjustment</i>	Electr. 4-pedal foot switch
	<i>Elevation speed</i>	10.3 mm/s +/- 1.5mm
	<i>Elevation time</i>	27.8 s
	<i>Programmable height/position for favored FFD/SID</i>	Yes, only by PROTEC
	<i>Table top thickness</i>	25 mm
	<i>Table top material</i>	Composite fiber (optional Carbon fiber)
	<i>Al.-attenuation equivalent @100 kV</i>	0.9 mm Al (optional 0,7 mm Al)
	<i>Min. distance Bucky center to table head end</i>	330 mm
	<i>Min. distance Bucky center to table foot end</i>	440 mm
	<i>Table top – image receptor distance</i>	67 mm
	<i>Patient load, max.</i>	230 kg (optional 250 kg)
	<i>Line connection table</i>	yes
Operating unit	<i>Angulation X-ray tube assembly around horizontal support arm</i>	+/- 180°
	<i>Detents at:</i>	-90°, 0°, +90°; 180°;
	<i>Brakes for the movements of the column</i>	electromagnetic
	<i>Control of the brakes</i>	at control handle
	<i>Power supply of the column</i>	via generator (230V)
	<i>Height tube column</i>	2297.5 mm, standard 2353 mm, with rotation X-ray column
	<i>Tube stand longitudinal travel</i>	1412.5 mm
	<i>Tube stand longitudinal travel, FFD 3m with long rails</i>	2278.5 mm
	<i>Focal spot to table top distance (Standard)</i>	max. 1314 mm, depending on the design
	<i>Focal spot vertical travel @ horizontal X-ray beam</i>	297 mm – 1896 mm, depending on the design
Options		
	<i>Operating unit with TOUCH Display</i>	10.1" medical tablet: Intel® Cherry Trail QC Processor System Memory - 4GB QS – Microsoft® Windows 10 IOT LTSB Storage – eMMC 128 GB Camera – 2 MP (Front) / 8 MP (Rear) Resolution – FHD 1920 x 1200
	<i>Floor plate for wall mounting</i>	for fixed use with wall mounting
	<i>Floorplate for free standing mounting</i>	for free-standing use without wall mounting
	<i>Extension floor rails for 3m SID</i>	for example for stitching examinations
Wall stand	<i>Column height</i>	2190 mm
	<i>Vertical shift image receptor center</i>	385 - 1865 mm
	<i>Cover – image receptor distance</i>	40 mm
	<i>Cover - wall distance (floor-wall-mounting)</i>	454 mm
	<i>Al.-attenuation equivalent @100 kV</i>	0.4 mm Al
Grid entity/Bucky		Different models selectable
	<i>Cassette sizes</i>	13 x 18 cm – 43 x 43 cm
	<i>Longitudinal travel</i>	542 mm
Tube		Different models selectable

Collimator	Different models selectable all models with LED and by +/-90° rotatable
Generator	Venus- or Polydoros series selectable
Total weight	Max. approx. 896 kg, depending on the design
Upgrades	
Flat panel detector	RAPIXX series - selectable
3-field-measuring chamber	selectable
Touch option	selectable (only with RAPIXX flat panel detector)
Dose area product meter	selectable
Grid	Different models selectable

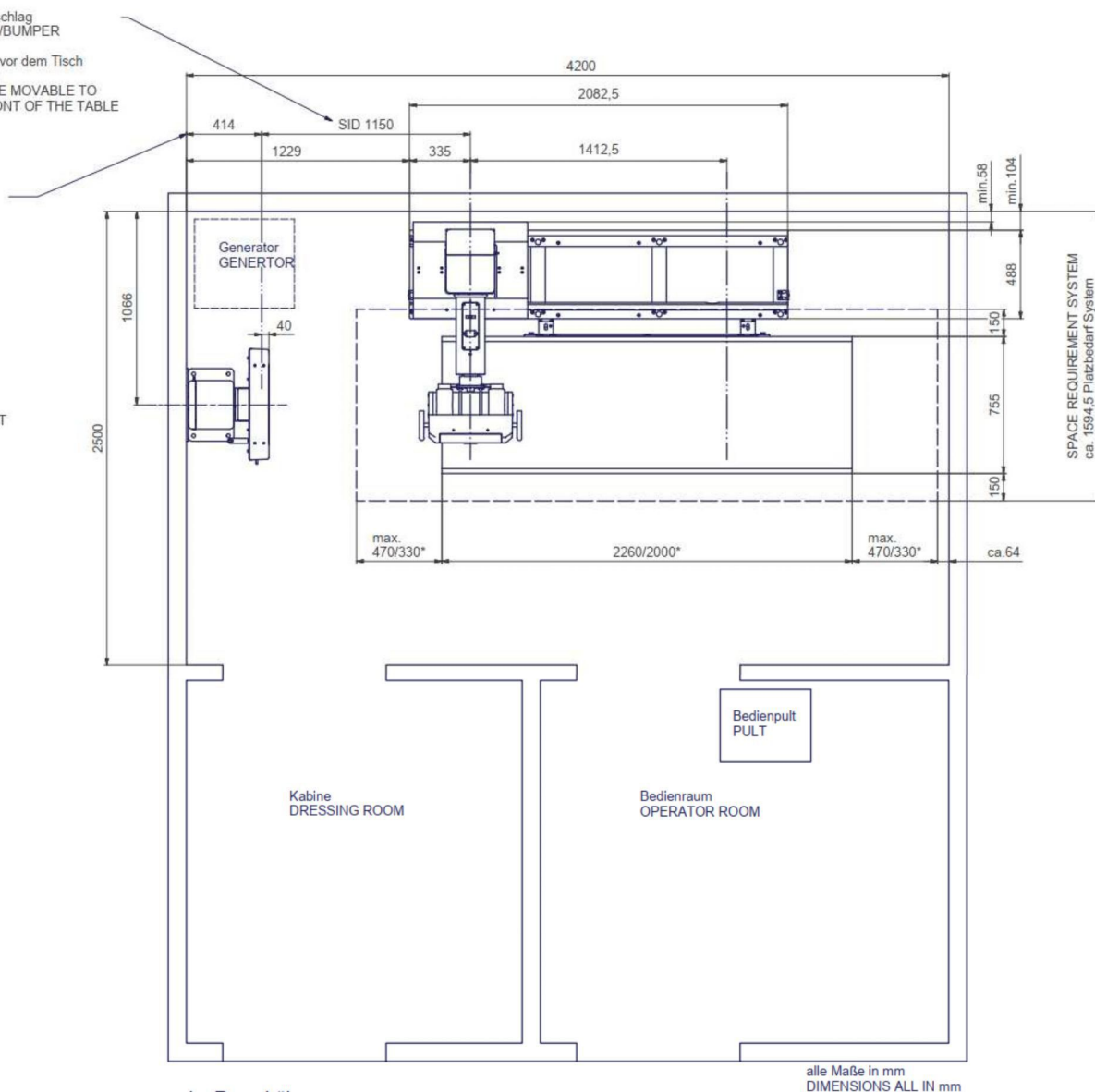
SID in Endstellung/Anschlag
SID IN ENDPOSITION/BUMPER

Standardbefestigung
PROVERT Rasterwandstativ
- direkt an der Wand
- kleine Bodenplatte

ACHTUNG! Die Raumbreite ändert sich in Abhängigkeit mit der PROVERT Befestigung

PROVERT WALL STAND
- DIRECTLY ON THE WALL
- SMALL FLOOR PLATE

NOTE! THE ROOM WIDTH
CHANGES DEPENDING ON
WITH THE PROVERT ATTACHEMENT



min. Raumhöhe
⑦ - 2350 standard
- 2400 mit Drehung Röntgensäule
MIN. CEILING HEIGHT
- 2350 STANDARD
- 2400 WITH ROTATION X-RAY COLUMN

Bei Systemausführung mit 2m Tischplatte
verringert sich die Raumbreite um 270mm
AT SYSTEM WITH TABLE TOP 2m LENGTH
THE ROOM WIDTH DREDREASE BY 270mm