

## The new PRS 500 F

## Das neue PRS 500 F



PRS 500 F in analogue base configuration  
PRS 500 F in analoge 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.

PROTEC GmbH & Co. KG | In den Dorfweiden 14 | D-71720 Oberstenfeld

Tel: +49 (0) 70 62/92 55-0 | Fax: +49 (0) 70 62/92 55 60

protec@protec-med.com | [www.protec-med.com](http://www.protec-med.com)

# Product Features

The PRS 500 F 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**

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

The foot-operated mechanical brake is as well effective with disconnection of X-ray system.

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 movement 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 F. 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-film/detector-distance brings optimum image geometry and accurate exposures along with minimal exposure time**

Grid device with cassette drawer for film or digital cassettes.

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 PROVARIO HF or Venus 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.

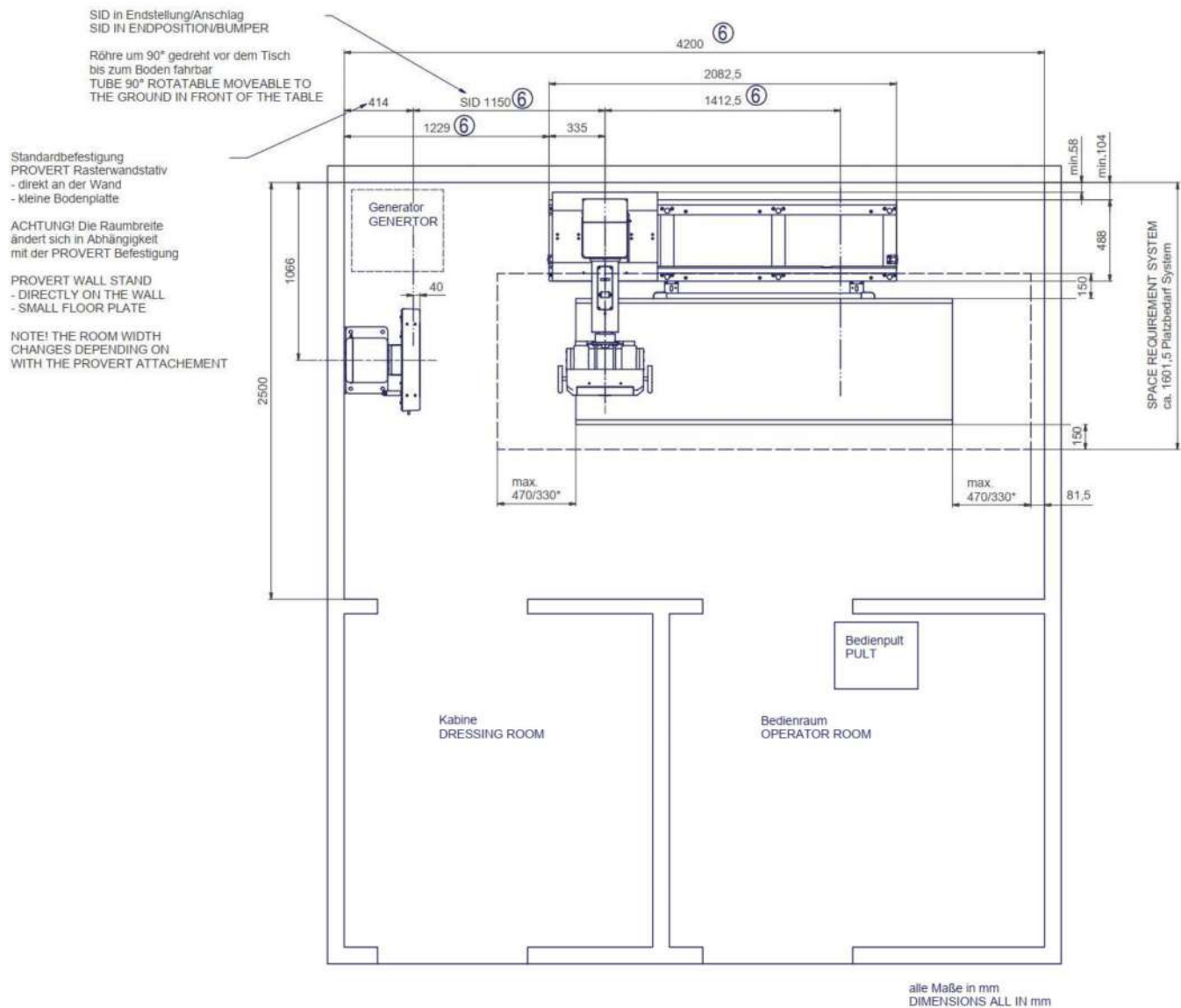
# The new PRS 500 F

## Technical Product Specifications

|                          |                                                              |                                                                                                                                                                                                                         |
|--------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Table</b>             | Table top dimension, standard                                | 2260 x 800 mm (optional 2000 x 755 mm)                                                                                                                                                                                  |
|                          | Table top movement, transvers                                | +/- 150 mm                                                                                                                                                                                                              |
|                          | Table top movement, longitudinal                             | +/- 550 mm (optional +/- 330 mm at 2000 mm)                                                                                                                                                                             |
|                          | Table top height                                             | 697 mm                                                                                                                                                                                                                  |
|                          | Table top brakes                                             | mech. foot controlled                                                                                                                                                                                                   |
|                          | Table top thickness                                          | 25 mm                                                                                                                                                                                                                   |
|                          | Table top material                                           | Composite fiber (optional carbon fiber)                                                                                                                                                                                 |
|                          | Al.-attenuation equivalent @100 kV                           | 0,9 mm Al (optional 0,7 mm Al)                                                                                                                                                                                          |
|                          | Min. distance Bucky center to table head end                 | 330 mm                                                                                                                                                                                                                  |
|                          | Min. distance Bucky center to table foot end                 | 440 mm                                                                                                                                                                                                                  |
|                          | Table top – film distance                                    | 67 mm                                                                                                                                                                                                                   |
|                          | Patient load, max.                                           | 230 kg (optional 250 kg)                                                                                                                                                                                                |
|                          | Line connection table                                        | no                                                                                                                                                                                                                      |
| <b>Operating unit</b>    | Angulation X-ray tube assembly around horizontal support arm | +/- 180°                                                                                                                                                                                                                |
|                          | around tube column (optional)                                | +/- 180°                                                                                                                                                                                                                |
|                          | Detents at:                                                  | -90°, 0°, +90°; 180°;                                                                                                                                                                                                   |
|                          | Brakes for the movements of the column                       | electromagnetic                                                                                                                                                                                                         |
|                          | Control of the brakes                                        | at control handle                                                                                                                                                                                                       |
|                          | Power supply of the column                                   | via generator (230V)                                                                                                                                                                                                    |
|                          | Height tube column                                           | 2287 mm                                                                                                                                                                                                                 |
|                          | Tube stand longitudinal travel                               | 1412,5 mm                                                                                                                                                                                                               |
|                          | Tube stand longitudinal travel, FFD 3m with long rails       | 2078,5 mm                                                                                                                                                                                                               |
|                          | Focal spot to table top distance                             | max.1185,5 mm                                                                                                                                                                                                           |
|                          | Focal spot vertical travel @ horizontal X-ray beam           | 294 - 1882,5 mm                                                                                                                                                                                                         |
| <b>Options</b>           | Operating unit with TOUCH Display                            | 10,1" medical tablet:<br>Intel® Cherry Trail QC Processor<br>System Memory - 4GB<br>QS – Microsoft® Windows 10 IOT LTSC<br>Storage – eMMC 128 GB<br>Camera – 2 MP (Front) / 8 MP (Rear)<br>Resolution – FHD 1920 x 1200 |
|                          | Floor plate for wall mounting                                | for fixed use with wall mounting                                                                                                                                                                                        |
|                          | Floorplate for free standing mounting                        | for free-standing use without wall mounting                                                                                                                                                                             |
|                          | Extension floor rails for 3m SID                             | for example for stitching examinations                                                                                                                                                                                  |
| <b>Wall stand</b>        | Column height                                                | 2190 mm                                                                                                                                                                                                                 |
|                          | Vertical shift film center                                   | 385 - 1865 mm                                                                                                                                                                                                           |
|                          | Cover - film distance                                        | 40 mm                                                                                                                                                                                                                   |
|                          | Cover - wall distance (floor-wall-mounting)                  | 454 mm                                                                                                                                                                                                                  |
|                          | Al.-attenuation equivalent @100 kV                           | 0,4 mm Al                                                                                                                                                                                                               |
| <b>Grid entity/Bucky</b> |                                                              | Different models selectable                                                                                                                                                                                             |
|                          | Cassette sizes                                               | 13 x 18 cm – 43 x 43 cm                                                                                                                                                                                                 |
|                          | Longitudinal travel                                          | 560 mm                                                                                                                                                                                                                  |
| <b>Tube</b>              |                                                              | Different models selectable                                                                                                                                                                                             |

|                           |                                                                            |
|---------------------------|----------------------------------------------------------------------------|
| <b>Collimator</b>         | Different models selectable<br>all models with LED and by +/-90° rotatable |
| <b>Generator</b>          | PROVARIO or Venus series – selectable                                      |
| <b>Total weight</b>       | approx. 784 kg                                                             |
| <b>Upgrades</b>           |                                                                            |
| 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                                                |

### Space requirement / Platzbedarf



min. Raumhöhe 2300  
MIN. CEILING HEIGHT 2300

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