

Robotic treatment couch for modern advanced radiotherapy systems

The Radiotherapy Patient System (RPS) is a robotic treatment couch for highest requirements. In this case, the system will adapt to your individual requirements and can be integrated into existing systems, combined with new linear accelerators or installed in new constructions.

RPS extended combines increased efficiency, improved security and greater patient comfort: Patients are prepared in parallel in three preparation rooms for radiation treatment - without haste and time pressure. Each patient will be picked up from the RPS and transported vibration free to the linear accelerator. In the basic version, RPS base, the Radiotherapy Patient System is used for the modernization of existing systems or extended with the new acquisition of the linear accelerator. This is because RPS offers decisive advantages when com-

pared to conventional radiation couches: RPS provides even more safety during radiation treatment in addition to improved patient comfort due to low entry height. The system supports optimum patient positioning by the integrated RFID (radio-frequency identification) reader. Thanks to the ultra-modern six degrees of freedom couch, the patient can be placed in the ideal position for the radiation treatment. RPS balances during the radiation treatment respiratory movements and peristalsis.

RPS at a glance:

- · 6 DoF robotic couch
- More safety thanks to an RFID reader
- Optimal radiation treatment angle
- · Efficient multi-user system
- · Integrated documentation
- · Improved patient comfort





Improved documentation: The RPS robotic treatment couch delivers reliable data

It is especially important in cancer treatment and cancer research to document all treatment steps exactly. The Radiotherapy Patient System RPS supports physicians, medical physicists and radiotherapy assistants in their daily work through automatic and reliable documentation. The RFID (radio-frequency identification) reader integrated in the system records without contact the patient's position and moves it automatically on the basis of the stored data from the simulation or previous radiation treatment sequences into the defined position. The radiation treatment position is recorded and documented exactly for each day of treatment. This also

assists quality assurance as the data can be passed on to research institutions or cancer registries, or compared with those of other radiotherapy centers. Indicators of early and long-term results of individual therapies can be collected and analyzed. Of course, the data flows from RPS on demand also into the electronic medical record and are available here for billing or later case reconstructions.



Please contact us and learn more about the suggested ways to use RPS in your clinic. Call us on phone: +49 8234 - 966 38 41 or write to us at: info@gkteso.com





Improved patient positioning – for even more safety and optimal treatment quality

The patient positioning during radiotherapy is critical to the success of the treatment. The Radiotherapy Patient System (RPS) will support you in the exact patient positioning and repositioning for each additional radiation treatment sequence.

High radiation doses improve the effectiveness of the radiation therapy. However, the higher the intensity of the radiation treatment, the more important careful patient positioning becomes - only in this way can surrounding tissue and vital organs be protected. The RFID reader integrated into the RPS records without contact the position of the patient and checks the current location on

the basis of predetermined parameters. By minimum rotational and tilt movements, the system balances locational changes and positions the patient optimally. The likewise integrated documentation covers all data, stores these and makes them available for further radiation treatment sequences of the patient.

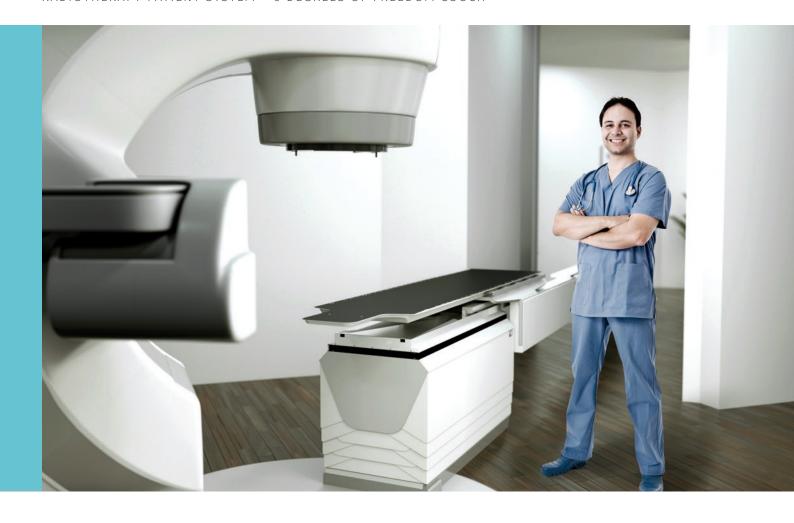


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6 DoF couch – these are six degrees of freedom for still more precise radiation treatments

RPS base suggests itself for clinical centers not planning new buildings. The innovative system with its 6D control provides a lot of comfort and efficiency. The patient platform's flexible mobility and the user-friendly handling represent additional quality features.

The rigidity of the RPS base absolutely guarantees optimum positioning of the patient. The system is also prepared for dynamic corrections. Further advantage: Older linear accelerators can be updated or upgraded with RPS base.



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