Recent Development of Gantry Design Activities at GSI Darmstadt[*], M. PAVLOVIC, STU Bratislava - It is important for application of accelerators in light-ion cancer therapy, that all beam-shaping procedures must be carried out without inserting materials into the beam. That is why, active energy variation from the accelerator and inclusion of the intensity-controlled beam scanning into the gantry are the crucial tasks. The beam-transport system of the gantry must meet many specific requirements in order to guarantee high level of flexibility, reliability and patient safety. Recent development of gantry design activities at GSI Darmstadt is reviewed in the paper. The latest version of superconducting gantry with two-direction raster scanning option is presented. The ion-optics properties of the gantry are discussed.

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