

A Large Screen Coordinating Equipment with Six Degrees of Freedom

Abstract

Large screen coordinating equipment with six degrees of freedom comprising three robot arms. Each robot arm has a column with a rotation kinematic pair on top and bottom, a stretch arm connected to the column via the stretch arm rotation kinematic pair, a first rotation arm connected to the stretch arm via the first rotation kinematic pair, a second rotation arm connected to the first rotation arm via the second rotation kinematic pair, and a third rotating arm connected to the second rotation arm via the third rotation kinematic pair. The third rotation arm is connected and matched with a display screen via a screen rotation kinematic pair. The stretch arm rotation pair, the first rotation kinematic pair and the second rotation kinematic pair are parallel to each other. The second rotation kinematic pair, the third rotation kinematic pair and the screen rotation kinematic pair are perpendicular to each other.

Figure 3