Fiberoptic bronchoscopes have emerged as the gold standard for endotracheal intubation of patients with suspected or known difficult airways. The Airtraq® is a new intubation device that has been developed for the management of the normal and difficult airways. Optical stylet-assisted intubation, retrograde intubation, blind nasal intubation, fiberoptic intubation or usage of any other type of laryngoscopes with support of fiberscopes are often secondary choices in the event of an anatomical or technical obstacle for direct laryngoscopic intubation. Here we present a case report in which a patient could not be intubated by standard laryngoscopy because of a major larynx anatomical variance, using an Airtraq® laryngoscope for a fiberoptic intubation. We performed a successful intubation with ease using the increased view advantages of Airtraq® and a fiberoptic bronchoscope in a patient with a difficult airway.