

According to an aspect, there is provided a device for injecting an intraocular lens into an eye, the device comprising: a tubular housing having a longitudinal axis and a passageway along the longitudinal axis; and a plunger shaft disposed within and moveable along the passageway of the tubular housing over an operating range; the tubular housing and the plunger shaft having frictional engaging features configured to produce a varying plunging friction along the operating range to offset one or more changes in plunging resistance arising from injection of the lens into the eye, wherein the frictional engaging features comprise: a slot extending longitudinally along the tubular housing and having a varying width; and a tab that extends transversely from the plunger shaft and frictionally engaging with side walls of the slot as the plunger shaft is translated along the operating range.

According to another aspect, there is provided a device for injecting an intraocular lens into an eye, the device comprising: a tubular housing having a longitudinal axis and a passageway along the longitudinal axis; and a plunger shaft disposed within and moveable along the passageway of the tubular housing over an operating range; the tubular housing and the plunger shaft having frictional engaging features configured to produce a varying plunging friction along the operating range to offset one or more changes in plunging resistance arising from injection of the lens into the eye, wherein the frictional engaging features comprise: an orifice formed within the passageway of the tubular housing, the orifice having an opening, a cross-sectional size of the opening of the orifice being different than a cross-sectional size of the passageway, the cross-section of the orifice and the cross-section of the passageway being transverse to the longitudinal axis; a contoured surface on the plunger shaft that frictionally engages the orifice as the plunger shaft is translated along the operating range.

Of course, those skilled in the art will appreciate that the present invention is not limited to the above features, advantages, contexts or examples, and will recognize additional features and advantages upon reading the following detailed description and upon viewing the accompanying drawings.