

LX80L FAQ

What are the maximum and minimum travels of the LX80L?

As a standard product, the travel range is 150mm to 750mm of travel.

The MX80L also has a 150mm of travel. Which should I use?

In most cases, the MX80L will be a better value at 150mm of travel. It will cost slightly less, is more precise, and is lower in profile. Both units are 80mm wide; however, the MX80L will be 25mm tall where the LX80L will be 45mm tall. If overall length is of concern, the LX80L is 35mm shorter than the MX80L at 150mm of travel. Additionally, if a single rail version of the LX80L is selected its width is 66mm instead of the 80mm width of the MX80L.

Can I get intermediate or longer travel units?

We have already designed intermediate travels between those already released. For OEMs that need a specific travel, these intermediate travel part numbers can be activated and manufactured. The maximum travel limitation of 750mm is not an absolute limitation. For OEM applications, longer units could be manufactured. Contact applications support for details.

Is the LX80L compatible with the MX80 Family?

Absolutely! Bolt patterns for the LX80L were designed to match the MX80. It is very easy to mix and match any MX80 product or MX80 bracket with an LX80L.

Is the LX80L cleanroom compatible?

Yes. The LX80L can be prepared for class 100 environments. As with any cleanroom application cleanliness is dependent on move profile and the area of concern in relation to the table. Contact applications engineering for more details.

What servo drives can I use?

The LX80L uses the same motors as are used in the MX80L. These require a digital servo drive with an 80VDC or lower bus. The ViX250 is an excellent choice and is offered as a choice in the configurable. The Aries drive family is not compatible as this time.

What is the load capacity of the LX80L?

The catalog ratings are 10 kg for the dual rail version and 5 kg for the single rail version. These limitations are based on the motor's thrust capacity not the bearing load capacity. For applications requiring higher load capacity, contact applications engineering for assistance in determining feasibility.

Where is the cable management?

One of the best features of the LX80L is its internal cable management. All of the cable management for operating the axis is already included.

What is the rated life of the cable management?

The cable management system is engineered for 20 million cycles and has been verified to last over 30 million cycles.

Are there any pass through cables like in the 404LXR?

No. This is a great feature of the 400LXR family; however, due to the compact nature of the LX80L there was not room to internalize additional conductors. These need to be handled externally.

Do I have to send the LX80 back to the factory for cable maintenance?

No, the internal cable management is modular and field replaceable. If this is of great concern, a cable module can be kept on site as a spare part. The product manual has detailed instructions explaining how to change the cable module.

If I build an XY system, how do I handle cable management for the Y-axis?

Parker has already engineered cable management for Y-axes. These modules are easily added to either MX80Ls or LX80Ls used as Y-axes. Contact applications engineering taking advantage of these pre-engineered modules.