

## 7. Rated Life

The service life of an LM system is subject to slight variations even under the same operational conditions. Therefore, it is necessary to use the rated life defined below as a reference value for obtaining the service life of the LM system.

The rated life means the total travel distance that 90% of a group of units of the same LM system model can achieve without flaking (scale-like exfoliation on the metal surface) after individually running under the same conditions.

The rated life (L) of an LM system is obtained from the following equation using the basic dynamic load rating (C) and the applied load (P).