When calculating stroke, count out the dimensions of annealing portions. Annealing may lower hardness on the machined area +10mm fore and aft. (See the examples below). Furthermore, the annealing portions are out the guaranteed range of O.D. Tolerance.

Plastic components are used in ball spline assemblies. Avoid using in high temperature environments, keep below 80°C.

### Stressing Capacity

**Load Capacity**
- **Table:**
  - Load Capacity of Ball Splines (N)
  - Load Capacity of Ball Splines (N)
  - Load Capacity of Ball Splines (N)

**Material:**
- Basic Static Load (N)
- Basic Dynamic Load (N)
- Basic Dynamic Load (N)

**Load Factor (fw):**
- Load Factor (fw) Values in ( ) are for 440C Stainless Steel.

### Spline Shafts

**Hardness Factor (fh):**
- Hardness Factor (fh) Values in ( ) are for 440C Stainless Steel.

**Lubrication**

Ball splines are shipped greased. Administer lubrication maintenance with Lithium soap based grease (Avalon Grease 52 by Showa Shell Sekiyu K.K., etc. as needed).

### Various Grease Application Services

The Lubricant used for Ball Splines can be changed to any of the following Special Greases. Service is provided to apply grease onto nuts and shafts. For performance of each grease, refer to the table below.

**Grease Performance**
- **Comparison of Particle Generation (Experimental Values)**
  - Particle Generation Amount upon grease application

**Grease Application Service Charges Table**
- **Table:**
  - Grease Application Service Charges Table
  - Grease Application Service Charges Table
  - Grease Application Service Charges Table

**Precautions for Use**
- **Particle Generation Amount (Experimental Values)**
  - For application, please consult with us for the applicable range of application.

**Ball Splines - Overview**

### Performance Chart

**Performance Chart:**
- **Table:**
  - Performance Chart
  - Performance Chart
  - Performance Chart

### Snitch Loop

**Snitch Loop **
- **Table:**
  - Snitch Loop
  - Snitch Loop
  - Snitch Loop

**Config Online**
- **Config Online**
- **Config Online**
- **Config Online**

### Item in Slip

**Item in Slip **
- **Table:**
  - Item in Slip
  - Item in Slip
  - Item in Slip

**Config Online**
- **Config Online**
- **Config Online**
- **Config Online**