<table>
<thead>
<tr>
<th>标题</th>
<th>页码</th>
</tr>
</thead>
<tbody>
<tr>
<td>蛇簧联轴器结构特点及应用</td>
<td>1</td>
</tr>
<tr>
<td>The structural features and applications of the grid couplings</td>
<td></td>
</tr>
<tr>
<td>蛇簧联轴器结构型式</td>
<td>3</td>
</tr>
<tr>
<td>The structural style of the grid couplings</td>
<td></td>
</tr>
<tr>
<td>蛇簧联轴器的选用</td>
<td>5</td>
</tr>
<tr>
<td>The selection and use of the grid couplings</td>
<td></td>
</tr>
<tr>
<td>蛇簧联轴器结构型式、基本参数和主要尺寸</td>
<td>10</td>
</tr>
<tr>
<td>The structural style, basic parameter and main dimensions of the grid couplings</td>
<td></td>
</tr>
<tr>
<td>蛇簧联轴器快速冷却安装连接方法</td>
<td>18</td>
</tr>
<tr>
<td>The rapid cooling installation connection method of Grid coupling</td>
<td></td>
</tr>
<tr>
<td>搬运与贮存</td>
<td>19</td>
</tr>
<tr>
<td>Carrying and storage</td>
<td></td>
</tr>
<tr>
<td>蛇簧联轴器的安装、调整与润滑</td>
<td>20</td>
</tr>
<tr>
<td>The installation, adjustment and lubrication of the grid universal couplings</td>
<td></td>
</tr>
<tr>
<td>蛇簧联轴器的使用、维护、保养</td>
<td>28</td>
</tr>
<tr>
<td>The use, maintenance, preservation of the grid couplings</td>
<td></td>
</tr>
<tr>
<td>附表</td>
<td>29</td>
</tr>
<tr>
<td>Attached list</td>
<td></td>
</tr>
</tbody>
</table>
The grid couplings are designed to have the snake spring positioning structure, prevent snake spring axial displacement, maintain the design of the mounting holes in the aluminum alloy cover to avoid the wrong installing. The snake spring of Suoda grid couplings adopt trapezoidal cross-section design, and can keep better contact with tooth surface. Stronger vibration absorption ability and can buffer the impact load, to protect the actuator and driven equipment.

Suoda grid couplings has the cover that used in vertical and horizontal installation. The cover of Suoda snake spring couplings to easy disassemble. Snake spring convenient replacement, the cost is low.

Horizontally mounted see cover figure 1, the design features: the space is little, aluminum alloy cover, light weight, small moment of inertia, suitable for reversing applications, easy to replace the snake spring.

Vertical mounted see cover figure 2, the design features. Suitable for high speed applications. High strength punching, steel cover, light weight, small moment of inertia, easy to replace the snake spring.

Assembled style horizontally mounted cover of the design features of: Suitable for pump applications, aluminum cover, light weight, small moment of inertia, easy to replace snake spring.
选用联轴器的原则

The selection and use of the grid couplings

当选用联轴器时，根据基本信息，计算转矩初步选定联轴器型号规格。再从标准中查出相应联轴器型号规格对应的轴孔尺寸，最大相对圆周（同轴）间隙，并按转速是否满足联轴器的工作条件，以确定选用联轴器型号规格。

When to select and use the grid couplings, according to the basic information and calculate the torque, preliminary select coupling model specification. Then, from standards to find the corresponding specifications corresponding to the shaft孔尺寸, the maximum relative radial clearance (parallel), and according to the working speed of whether meet the coupling working conditions to determine the selection and usage of grid coupling model specifications.

根据以下步骤进行

According to the following steps to select and use couplings

1.1 选择基本信息

The selection and use of the basic information

旋转机型号、旋转机功率、输入功率、工作转速、工作机名称、载荷类别、工作环境、工作性质、是否有规律启动、是否有正反转、输入输出轴直径及长度

Drive machine type, drive machine power, input power, working speed, drive machine name, load type, working environment, nature of work, whether there are regular starting, whether positive and negative rotation, input and output shaft diameter and length.

基本信息见表1

Basic information see Table 1.

1.2 选择计算

The selection and calculation

联轴器的转矩关系是公称转矩Tn，选择时各转矩应符合以下关系：

The main parameter of the couplings is the nominal torque Tn, when selecting, each torques should accord with the following relationship:

\[ T < T_0 < T_{n0} < [T] < [T_{max}] < T_{max} \]

式中:

\[ T \] —— 轴承转矩, N·m
\[ T_0 \] —— 理论转矩, N·m
\[ T_{n0} \] —— 轴心转矩, N·m
\[ [T] \] —— 允许转矩, N·m
\[ [T_{max}] \] —— 允许最大转矩, N·m
\[ T_{max} \] —— 最大转矩, N·m

1.2.1 旋转机的转矩转矩计算

The theory torque calculation of the couplings

则\[ T = \frac{9000P_{wh}}{n_{wh}} \]

式中:

\[ P_{wh} \] —— 旋转功率, Kw
\[ n_{wh} \] —— 工作转速, rpm

1.2.2 联轴器的计算转矩计算

The torque calculation of the couplings

计算公式 \[ T = \frac{9000P_{wh}}{n_{wh}} \]，

式中:

\[ P_{wh} \] —— 旋转功率 (see Table 1)
\[ n_{wh} \] —— 工作转速 (see Table 1)

表1

<table>
<thead>
<tr>
<th>动机机型号</th>
<th>动机机名称</th>
<th>启动机数</th>
<th>启动机次数</th>
<th>刑机系数K</th>
<th>工作条件系数</th>
<th>转弯分类</th>
<th>工作机名称类型</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>电机机、电机机</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>电机机、电机机</td>
</tr>
<tr>
<td>1.2</td>
<td>风机机</td>
<td>1.3</td>
<td>2.0</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
<td>风机机</td>
</tr>
<tr>
<td>1.4</td>
<td>电机机</td>
<td>2.0</td>
<td>2.0</td>
<td>2.0</td>
<td>2.0</td>
<td>2.0</td>
<td>电机机</td>
</tr>
</tbody>
</table>

1.3 当存在以下情况时，应按以下方法计算转矩

When the presence of the following situation, it should be calculated and selected by the following method

① 高速转速
② 旋转（旋转的转速高于联轴器的一个部分）
③ 高频离心力

High speed speed
Brake (brake wheel or brake disc is part of the couplings)
High frequency of centrifugal force
The selection and use of the grid couplings

1.3 Coupling selection requirements / The preliminary selection of the couplings model specifications

1.4 Selection validation / Selection validation

1.5 Determine coupling model specifications / To determine the couplings model specifications

1.6 Product marking / Product mark

2.1 General information

Motor model power: 3kW
Rated speed: 960rpm
Input shaft diameter: d1: 48mm
Input shaft diameter: d2: 60mm
Input and output end distance: 32mm
Working temperature: -30°C – 120°C
Load properties: medium impact
Working environment: such as dust etc
Nature of work: continuous

2.2 Selection and use, calculation

According to the general information, this project should select and use the standard grid couplings.

Selection & calculation

Theoretical torque calculation

\[ T = \frac{9550 \cdot P \cdot n}{9550 \cdot P \cdot n + 41.8} \quad \text{(N·m)} \]

Calculating torque

\[ T = \frac{9550 \cdot P \cdot n}{9550 \cdot P \cdot n + 41.8} \quad \text{(N·m)} \]

Computational formula

\[ T = \text{Torque} \times \text{Kz} \]

In this formula:

Kw: choose 1 / Kz: choose 2 / Kz choose 1
Torque: 9550 \times 10^2 \times (\text{N·m})

2.3 Preliminary selection of coupling model specifications

The preliminary selection of the coupling model specifications

1030T1公转矩 150 N·m

The nominal torque of 1030T1 150 N·m

Meet the torque requirement, primary selection of 1030T1.

2.4 Verification

Verification
### 2.4.1 孔径 / Bore diameter

103T10 最大孔径 35mm
107T10 最大孔径 45mm 满足孔径要求

### 2.4.2 回转空间（与现场条件比较） / Rotary space (compared with on site conditions)

现场对联轴器最大外径有限制
107T10 满足回转空间要求

### 2.4.3 选用速度 / Allowable speed

107T10 允许转速 4125rpm

### 2.5 选定联轴器型号规格 / Selected couplings model specifications

因输入、输出轴同轴，d2mm

### 2.8 标记示例 / Marking Example

1070 T10 蛇簧联轴器

输入端: J1 型输入轴，A型连接，d=48mm，L=76mm
输出端: J1 型轴盖，B型连接，d=60mm，L=76mm

### T10型系列蛇簧联轴器

The structural style, basic parameter and main dimensions of the grid couplings
T20型系列钢制联轴器
T20 Steelflex grid couplings

<table>
<thead>
<tr>
<th>型号</th>
<th>公称转矩 Nominal torque (Nm)</th>
<th>负荷能力 Load capacity (Kg)</th>
<th>轴心直径与孔径 Center diameter &amp; bore size (mm)</th>
<th>主要尺寸 Main Dimension mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>100T</td>
<td>50</td>
<td>6000</td>
<td>33 x 13</td>
<td>1.45 x 14 x 40 x 84 x 24 x 40 x 39 x 3.2</td>
</tr>
<tr>
<td>100T</td>
<td>150</td>
<td>8000</td>
<td>39 x 13</td>
<td>2.55 x 15 x 45 x 90 x 25 x 45 x 42 x 3.2</td>
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<tr>
<td>100T</td>
<td>250</td>
<td>10000</td>
<td>47 x 13</td>
<td>3.35 x 16 x 51 x 111 x 32 x 51 x 48 x 3.2</td>
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<tr>
<td>100T</td>
<td>350</td>
<td>12000</td>
<td>54 x 13</td>
<td>5.34 x 19 x 64 x 148 x 60 x 64 x 52 x 3.2</td>
</tr>
<tr>
<td>100T</td>
<td>450</td>
<td>14000</td>
<td>61 x 13</td>
<td>6.80 x 21 x 78 x 183 x 84 x 82 x 62 x 3.2</td>
</tr>
<tr>
<td>100T</td>
<td>550</td>
<td>16000</td>
<td>68 x 13</td>
<td>8.19 x 22 x 91 x 202 x 96 x 99 x 82 x 3.2</td>
</tr>
<tr>
<td>100T</td>
<td>650</td>
<td>18000</td>
<td>75 x 13</td>
<td>9.49 x 23 x 105 x 222 x 111 x 102 x 92 x 3.2</td>
</tr>
</tbody>
</table>

注：材质材料 C325钢制联轴器。
Note: C325 steel coupling.
### T63系列紏絞聯軸器
#### T63 Steelflex grid couplings

<table>
<thead>
<tr>
<th>型号</th>
<th>M</th>
<th>M1</th>
<th>D1</th>
<th>D2</th>
<th>D</th>
<th>L</th>
<th>D3</th>
<th>M4</th>
<th>P</th>
<th>L1</th>
<th>X</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>20T</td>
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<td>0.024</td>
<td>0.035</td>
<td>0.038</td>
<td>0.041</td>
<td>0.042</td>
<td>0.045</td>
<td>0.049</td>
<td>0.051</td>
<td>0.053</td>
<td>0.055</td>
<td>0.057</td>
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<td>0.040</td>
<td>0.043</td>
<td>0.046</td>
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<td>0.051</td>
<td>0.055</td>
<td>0.057</td>
<td>0.059</td>
<td>0.061</td>
<td>0.063</td>
</tr>
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<td>0.053</td>
<td>0.056</td>
<td>0.059</td>
<td>0.061</td>
<td>0.063</td>
<td>0.065</td>
<td>0.067</td>
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<td>50T</td>
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<td>0.051</td>
<td>0.054</td>
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<td>0.059</td>
<td>0.062</td>
<td>0.065</td>
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<td>0.064</td>
<td>0.067</td>
<td>0.069</td>
<td>0.072</td>
<td>0.075</td>
<td>0.077</td>
<td>0.079</td>
<td>0.081</td>
<td>0.083</td>
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<tr>
<td>90T</td>
<td>1.9</td>
<td>0.064</td>
<td>0.075</td>
<td>0.078</td>
<td>0.081</td>
<td>0.083</td>
<td>0.086</td>
<td>0.089</td>
<td>0.091</td>
<td>0.093</td>
<td>0.095</td>
<td>0.097</td>
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<tr>
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<td>2.5</td>
<td>0.077</td>
<td>0.088</td>
<td>0.091</td>
<td>0.094</td>
<td>0.096</td>
<td>0.099</td>
<td>0.101</td>
<td>0.103</td>
<td>0.105</td>
<td>0.107</td>
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<tr>
<td>110T</td>
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<td>0.101</td>
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<td>0.107</td>
<td>0.109</td>
<td>0.112</td>
<td>0.114</td>
<td>0.116</td>
<td>0.118</td>
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<td>0.123</td>
</tr>
<tr>
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<td>0.116</td>
<td>0.119</td>
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<td>0.124</td>
<td>0.126</td>
<td>0.128</td>
<td>0.130</td>
<td>0.132</td>
<td>0.135</td>
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<tr>
<td>130T</td>
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<td>0.125</td>
<td>0.128</td>
<td>0.131</td>
<td>0.133</td>
<td>0.136</td>
<td>0.138</td>
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<td>0.142</td>
<td>0.144</td>
<td>0.147</td>
</tr>
<tr>
<td>140T</td>
<td>4.5</td>
<td>0.126</td>
<td>0.137</td>
<td>0.140</td>
<td>0.143</td>
<td>0.145</td>
<td>0.148</td>
<td>0.150</td>
<td>0.152</td>
<td>0.154</td>
<td>0.156</td>
<td>0.159</td>
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<tr>
<td>150T</td>
<td>5.0</td>
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<td>0.152</td>
<td>0.155</td>
<td>0.157</td>
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<td>0.162</td>
<td>0.164</td>
<td>0.166</td>
<td>0.168</td>
<td>0.171</td>
</tr>
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</table>

### T70系列紏絞聯軸器
#### T70 Steelflex grid couplings

<table>
<thead>
<tr>
<th>型号</th>
<th>M</th>
<th>M1</th>
<th>D1</th>
<th>D2</th>
<th>D</th>
<th>L</th>
<th>D3</th>
<th>M4</th>
<th>P</th>
<th>L1</th>
<th>X</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>100T</td>
<td>1.0</td>
<td>0.041</td>
<td>0.051</td>
<td>0.054</td>
<td>0.057</td>
<td>0.059</td>
<td>0.062</td>
<td>0.065</td>
<td>0.067</td>
<td>0.069</td>
<td>0.071</td>
<td>0.073</td>
</tr>
<tr>
<td>120T</td>
<td>1.5</td>
<td>0.052</td>
<td>0.061</td>
<td>0.064</td>
<td>0.067</td>
<td>0.069</td>
<td>0.072</td>
<td>0.075</td>
<td>0.077</td>
<td>0.079</td>
<td>0.081</td>
<td>0.083</td>
</tr>
<tr>
<td>140T</td>
<td>2.0</td>
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<td>0.074</td>
<td>0.077</td>
<td>0.080</td>
<td>0.082</td>
<td>0.085</td>
<td>0.088</td>
<td>0.090</td>
<td>0.092</td>
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<td>0.097</td>
</tr>
<tr>
<td>160T</td>
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<td>0.075</td>
<td>0.086</td>
<td>0.089</td>
<td>0.092</td>
<td>0.094</td>
<td>0.097</td>
<td>0.100</td>
<td>0.102</td>
<td>0.104</td>
<td>0.106</td>
<td>0.109</td>
</tr>
<tr>
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<td>0.109</td>
<td>0.112</td>
<td>0.114</td>
<td>0.116</td>
<td>0.118</td>
<td>0.121</td>
</tr>
<tr>
<td>200T</td>
<td>3.5</td>
<td>0.100</td>
<td>0.111</td>
<td>0.114</td>
<td>0.117</td>
<td>0.119</td>
<td>0.122</td>
<td>0.125</td>
<td>0.127</td>
<td>0.129</td>
<td>0.131</td>
<td>0.134</td>
</tr>
</tbody>
</table>

注：
1. 1030-1270型为碳钢制成，1080-1130型为Z-1120球墨铸铁制成。
2. Max. bore diameter of hub includes keyway.

Note: The material of the hub is aluminum alloy casting.
The rapid cooling, installation connection method of Grid coupling

<table>
<thead>
<tr>
<th>Size</th>
<th>φD</th>
<th>φd</th>
<th>J</th>
<th>L1</th>
<th>L2</th>
<th>i</th>
</tr>
</thead>
<tbody>
<tr>
<td>1060T</td>
<td>138</td>
<td>90</td>
<td>79</td>
<td>79</td>
<td>67</td>
<td>67</td>
</tr>
<tr>
<td>1080T</td>
<td>138</td>
<td>90</td>
<td>79</td>
<td>79</td>
<td>67</td>
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<td>1100T</td>
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<td>1120T</td>
<td>138</td>
<td>90</td>
<td>79</td>
<td>79</td>
<td>67</td>
<td>67</td>
</tr>
</tbody>
</table>

Note: 1. The bore diameter marked with "φ" is the bore diameter of hub with rectangular keyway.
2. The max bore diameter marked with "i" is the bore diameter of hub with rectangular keyway.
Carring & Storage

Carring

- Ensure that the grid couplings are stored in a clean, dry, and well-ventilated area, avoiding direct sunlight and adverse conditions.
- Couplings should be stored in a dust-free environment to prevent dust and corrosion.
- Pay attention to dust collection and make sure the storage area is clean.

Storage

- Avoid storing the grid couplings in a humid environment, especially in direct sunlight or exposed to adverse conditions.
- Keep the grid couplings in a clean, dry, and well-ventilated area to prevent rust and corrosion.
- Avoid storing the grid couplings in an area prone to dust accumulation.
- Ensure that the storage area is well-ventilated to prevent moisture accumulation and mold growth.

The Installation, Adjustment & Lubrication of the Grid Couplings

- The installation of the grid couplings should be performed in a clean environment to avoid dust accumulation.
- Ensure that the grid couplings are installed in a well-ventilated area to prevent moisture accumulation.
- Pay attention to dust collection and make sure the installation area is clean.

Notes:

- Before installing the grid couplings, perform a visual inspection to ensure that the components are clean and free from debris.
- Ensure that the installation area is well-ventilated to prevent moisture accumulation.
- Avoid storing the grid couplings in an area prone to dust accumulation.

Maintenance:

- Regularly clean the grid couplings to prevent dust accumulation.
- Avoid storing the grid couplings in an area prone to moisture accumulation.
- Ensure that the installation area is well-ventilated to prevent moisture accumulation.

- The installation of the grid couplings should be performed in a clean environment to avoid dust accumulation.
- Ensure that the grid couplings are installed in a well-ventilated area to prevent moisture accumulation.
- Pay attention to dust collection and make sure the installation area is clean.

- Before installing the grid couplings, perform a visual inspection to ensure that the components are clean and free from debris.
- Ensure that the installation area is well-ventilated to prevent moisture accumulation.
- Avoid storing the grid couplings in an area prone to dust accumulation.

- Regularly clean the grid couplings to prevent dust accumulation.
- Avoid storing the grid couplings in an area prone to moisture accumulation.
- Ensure that the installation area is well-ventilated to prevent moisture accumulation.

- The installation of the grid couplings should be performed in a clean environment to avoid dust accumulation.
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- Avoid storing the grid couplings in an area prone to moisture accumulation.
- Ensure that the installation area is well-ventilated to prevent moisture accumulation.
The installation, adjustment and lubrication of the grid couplings

安装步骤 The installation steps

1. 组装配件和轮毂 见图6
   Assembly the seal element and wheel hub, as shown in figure 6.

图6 Figure 6

首先，关闭启动开关，并卸去来自驱动装置的载荷。用不易燃的清除剂清洗所有的金属零件和需要被固定的两根轴，并在轴上需要装轮毂配合面上涂上润滑脂。然后轻轻地在密封圈上涂上一层润滑脂，在装配前要把密封圈放在轴上。如果是间隙配合的，不需要加热；如果是过盈配合的，根据配合的说明装配轮毂，然后分别把轮毂放到相应轴的轴上，除非另有其它说明，一般使轮毂与轴端平行。

图5所示利用厚薄规和直径测量联轴器的外径和端面或轴端。

As shown in figure 7, Use a feeler gauge and rule to measure the outer edge of the couplings and end face or shaft extension. Then after repeated adjustment until the two mutually perpendicular plane of the offset is less than the allowable value. For larger couplings, generally measure the two mutually perpendicular plane first (horizontal plane and vertical plane) within the offset, through calculation to determine the direction of the relative displacement and size, and then adjust and align. For figure 7(a), the approximate value of angular displacement is $\Delta \alpha = \frac{(82 - 81)}{D}$.

图7所示利用厚薄规和直径测量联轴器的外径和端面或轴端。然后经过重复调整直至两个互相垂直的平面的偏移量小于允许值为止。对于较大的联轴器一般先测量出两个互相垂直的平面（水平面和垂直面）内的偏移量，通过计算确定相对位移的方向和大小，然后进行调整校正。对于图7(a)，角位移的近似值为 $\Delta \alpha = \frac{(82 - 81)}{D}$.

2. 调整对中见图6
   Adjustment and alignment see figure 6.

图6 Figure 6

为了保证联轴器正常运转，达到预定的工作性能和使用寿命，在安装联轴器时，必须进行适当的调整，以获得联轴器所联轴两轴具有较高的同轴度。两轴的相对位移，可以有各种量具进行测量，例如用直尺，厚薄规或百分表等。

3. 蛇簧联轴器的安装、调整与润滑
   The installation, adjustment and lubrication of the grid couplings

In order to guarantee the normal operation of the couplings, reach the expected working performance and service life, when installing the couplings, must be properly adjusted, in order to obtain a higher couplings of the concentricity of two shafts. The relative displacement of two axes can use all sorts of measuring tools to determine, for example with straightedge, feeler gauge or dial gauge etc.

As shown in figure 7, Using thickness gauge and ruler to measure the outer edge of the couplings and end face or shaft extension. Then after repeated adjustment until the two mutually perpendicular plane of the offset is less than the allowable value. For larger couplings, generally measure the two mutually perpendicular plane first (horizontal plane and vertical plane) within the offset, through calculation to determine the direction of the relative displacement and size, and then adjust and align. For figure 7(a), the approximate value of angular displacement is $\Delta \alpha = \frac{(82 - 81)}{D}$.

图7所示利用厚薄规和直径测量联轴器的外径和端面或轴端。然后经过重复调整直至两个互相垂直的平面的偏移量小于允许值为止。对于较大的联轴器一般先测量出两个互相垂直的平面（水平面和垂直面）内的偏移量，通过计算确定相对位移的方向和大小，然后进行调整校正。对于图7(a)，角位移的近似值为 $\Delta \alpha = \frac{(82 - 81)}{D}$.

4. 图7所示利用厚薄规和直径测量联轴器的外径和端面或轴端。然后经过重复调整直至两个互相垂直的平面的偏移量小于允许值为止。对于较大的联轴器一般先测量出两个互相垂直的平面（水平面和垂直面）内的偏移量，通过计算确定相对位移的方向和大小，然后进行调整校正。对于图7(a)，角位移的近似值为 $\Delta \alpha = \frac{(82 - 81)}{D}$.

5. 图7所示利用厚薄规和直径测量联轴器的外径和端面或轴端。然后经过重复调整直至两个互相垂直的平面的偏移量小于允许值为止。对于较大的联轴器一般先测量出两个互相垂直的平面（水平面和垂直面）内的偏移量，通过计算确定相对位移的方向和大小，然后进行调整校正。对于图7(a)，角位移的近似值为 $\Delta \alpha = \frac{(82 - 81)}{D}$.

为了保证联轴器正常运转，达到预定的工作性能和使用寿命，在安装联轴器时，必须进行适当的调整，以获得联轴器所联轴两轴具有较高的同轴度。两轴的相对位移，可以有各种量具进行测量，例如用直尺，厚薄规或百分表等。
In order to improve the accuracy of measurement, use dial gauges to measure. As shown in figure 6, measuring the outer edge of the coupling's flange and the end face of the relative deviation.

Fig. 6. Using dial gauges to measure relative displacement. (a) Measuring the edge (b) Measuring the face

Adjust the two shafts of relative radial displacement within the vertical plane, generally use the compensation washers, the thickness consists of a set of 0.05, 0.1, 0.2, 0.4, 0.8... mm, etc. According to the adjustment amount, needs to choose relevant thickness, in order to adjust reliable and improve the adjustment accuracy, should clean up the adjusting surface in advance, and to remove scrap iron, burr, to increase the contact area. Coordinate the relative angular displacement in a vertical plane, should adopt ball washers. As during the process of work, the couplings deformation due to heat or load deformation etc. and various reasons, but also generates additional relative displacement. So after adjusting the relative displacement between the two shafts should be less than the allowable relative displacement of couplings, generally should reduce 1 to 2 times.

After finished the couplings adjustment, in order to ensure accuracy of adjustment and adjustment not to be repeated, can adopt the positioning pin to fix the relative position between the components. After the adjustment of couplings, the accuracy of alignment of two shafts are shown in table 2.

<table>
<thead>
<tr>
<th>平行偏移 Parallel offset</th>
<th>角度偏移 Angular deviation</th>
<th>垂直移动 Vertical movement</th>
<th>滚动 Floating ends</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.7−1.4</td>
<td>0.3−0.7</td>
<td>0.05−0.15</td>
<td>0.1−0.5</td>
</tr>
<tr>
<td>0.6/100</td>
<td>0.6/100</td>
<td>(0.05−0.25)/100</td>
<td></td>
</tr>
</tbody>
</table>

**Note:**
(1) If the couplings have vibration, adjust the low accuracy, choose the maximum value of coefficient in the table.
(2) In fact, if adopt precision measuring tools, and after careful adjustment, the error of centerline after the adjustment is much smaller than the values in the table.

Adjust and ensure that these dimensions are within the range of couplings installation allows. Tighten bolts, after fixed base, then check the alignment. Deviation allowed of each specification product installation, see table 3.

**Table 2:** The adjustment deviation of the coupling.

**Table 3:** The adjustment deviation of the coupling.

**Table 4:** The adjustment deviation of the coupling.

**Table 5:** The adjustment deviation of the coupling.
**Table 3: Unit: mm**

<table>
<thead>
<tr>
<th>列号</th>
<th>安装轴线 (Install Line)</th>
<th>工作轴线 (Operate Line)</th>
<th>轴肩尺寸</th>
<th>轴端螺纹</th>
<th>尺寸</th>
<th>允许转速 (rpm)</th>
<th>允许转速 (rpm)</th>
<th>允许转速 (rpm)</th>
<th>允许转速 (rpm)</th>
<th>允许转速 (rpm)</th>
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<td>0.33</td>
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<td>0.03</td>
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<tr>
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<td>0.33</td>
<td>5.20</td>
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<td>0.05</td>
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<td>0.33</td>
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<td>11</td>
<td>4900</td>
<td>0.09</td>
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</tr>
</tbody>
</table>

**Grid Couplings 安装与润滑**

The installation, adjustment and lubrication of the grid couplings

**安装与润滑**

在安装蜗杆前，用2号锂基脂润滑蜗杆的轴和键槽。

蜗杆与蜗轮的啮合间隙和轴向的调整，应由制造厂提供。

将蜗杆装入轴中，然后将蜗轮安装到轴上。

蜗轮安装后，蜗杆与蜗轮的轴向间隙，有制造厂保证。

在装配蜗轮时，要保证蜗杆与蜗轮的轴向间隙为：

**安装要求**

蜗杆与蜗轮的轴向间隙的调整，应由制造厂提供。

蜗杆与蜗轮的轴向间隙的调整，应由制造厂提供。

蜗轮安装后，蜗杆与蜗轮的轴向间隙，有制造厂保证。

在装配蜗轮时，要保证蜗杆与蜗轮的轴向间隙为：

**图11**

Cover Installation see figure 11

**图12**

Face Cover Installation see figure 12

**注意：**

蜗杆与蜗轮的轴向间隙的调整，应由制造厂提供。

蜗杆与蜗轮的轴向间隙的调整，应由制造厂提供。

蜗轮安装后，蜗杆与蜗轮的轴向间隙，有制造厂保证。

在装配蜗轮时，要保证蜗杆与蜗轮的轴向间隙为：

**图9**

The installation of grid couplings, see figure 9

**图10**

Figure 9

**图11**

Figure 11

**图12**

Figure 12

**注意：**

蜗杆与蜗轮的轴向间隙的调整，应由制造厂提供。

蜗杆与蜗轮的轴向间隙的调整，应由制造厂提供。

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**图9**

The installation of grid couplings, see figure 9

**图10**

Figure 9

**图11**

Figure 11

**图12**

Figure 12
The installation, adjustment and lubrication of the grid couplings

After all is being installed, check again. Before the formal operation of the couplings, make sure all parts have been installed correctly, closely connected with the couplings and the equipment shaft, install the oil plug to the inside of oiling hole.

Figure 13

The use, maintenance, preservation of the grid couplings

- After installation, before operation, the grid couplings should be checked, and the oil plug should be installed correctly.
- The grid couplings should be checked and maintained regularly. The frequency is once every half a year.
- The oil plug should be tightened and maintained regularly.
- The grid couplings should be cleaned and maintained regularly.

Note: after cleaning, all the oil plugs should be covered and tightened.

Figure 13

注意：涂脂及安装后所有的油塞一定要上紧。
附表1 附表1

附表公司选型基本信息表
Suicide company basic information table selection

<table>
<thead>
<tr>
<th>项目</th>
<th>内容</th>
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<tbody>
<tr>
<td>1. 驱动类型:</td>
<td>电动机 □ 风机 □ 内燃机 □ 其他</td>
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<tr>
<td>2. 功率 (KW):</td>
<td>3. 转速 (rpm):</td>
</tr>
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<td>4. 驱动设备类型:</td>
<td>5. 驱动轴直径 (mm): 6. 轴承 (mm):</td>
</tr>
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<td>7. 驱动轴有效长度 (mm):</td>
<td>8. 轴承宽度 (mm):</td>
</tr>
<tr>
<td>9. 临界转速 (mm):</td>
<td>10. 易装长度 (mm):</td>
</tr>
<tr>
<td>11. 止向补偿 (mm):</td>
<td>12. 横向补偿 (mm):</td>
</tr>
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<td>13. 垂直补偿 (*):</td>
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<td>15. 工作温度 (°C):</td>
<td>16. 允许转矩 (mm):</td>
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附表2 附表2

附表标准安装尺寸
Standard installation dimensions

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<td>7. 驱动轴有效长度 (mm):</td>
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<td>9. 临界转速 (mm):</td>
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<tr>
<td>11. 止向补偿 (mm):</td>
<td>12. 横向补偿 (mm):</td>
</tr>
<tr>
<td>13. 垂直补偿 (*):</td>
<td>14. 工作环境: 室内 □ 室外 □ 腐蚀 □ 尘 □ 水 □ 其他</td>
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<tr>
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附录列表 2

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