



Explorers reach the goal

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SINCE 1996

**Cross shaft universal
couplings**

十字轴万向联轴器

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十字轴万向联轴器结构特点及应用
The structural features and application of the cross shaft universal couplings

十字轴万向联轴器具有传动效率高，允许两轴间的角位移大，噪音小，对润滑要求不高，传递转矩大，而且使用可靠，因此获得广泛的应用。十字轴万向联轴器按结构分为：整体式叉头结构——UC和剖分式叉头结构——UP两个系列。

The cross shaft universal couplings get a wide range of applications because of high transmission efficiency, allows two-axis angular displacement, lower noise and lubrication requirements, work reliability. According to the structure is divided into: Integral fork head structure– UC and split fork structure– UP two series.

● 十字轴万向联轴器的主要特性

The main features of the cross shaft universal couplings

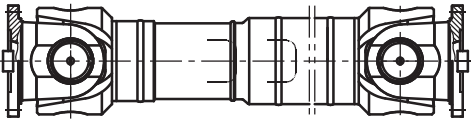
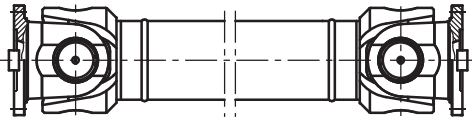
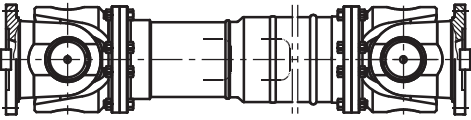
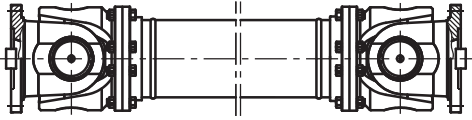
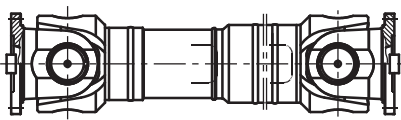
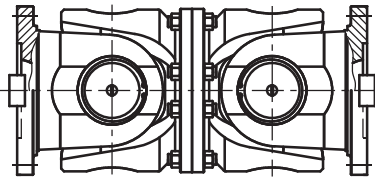
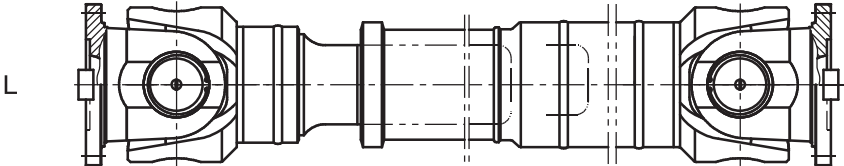
- ◆ 具有较大的角度补偿能力，UC系列轴线折角可达15° – 25° 、UP系列可达到10° 。
- ◆ 承载能力大，与回转直径相同的其它型式的联轴器相比，所传递的扭矩更大，对回转直径受限制的机械设备，其配套范围更具优越性。
- ◆ 传动效率高，其传动效率达98%~ 99.8%，用于大功率传递，节能效果明显。
- ◆ 运转平稳，噪音低，装拆维护方便。
- ◆ Ability to compensate a large angle, UC Series axis angle can reach 15° – 25° , UP series can reach 10° .
- ◆ Large bearing capacity, Compared to other types of couplings with same swing diameter, the greater torque transmitted for the turning diameter limited mechanical equipment, which its matching range has more advantages.
- ◆ High transmission efficiency, The transmission efficiency of 98%~ 99.8%, for high–power transmission, energy–saving effect is obvious.
- ◆ Smooth operation, low noise, easy assembly, disassembly and easy maintenance.

十字轴万向联轴器结构型式
The structural style of the cross shaft universal couplings

● UC系列 UC Series

UC型由于十字轴轴承的固定不用螺栓，避免螺栓松动或断裂，因而提高了这一薄弱环节的强度，提高了使用寿命，并且也便于维修。UC系列适用于不同的需要有7种结构形式：

UC series because of the cross shaft bearing fixed to prevent loose bolts or broken, thus increasing the strength of the weak links, improve the service life, and is easy to repair. UC series apply to different needs. There are seven kinds of structure:

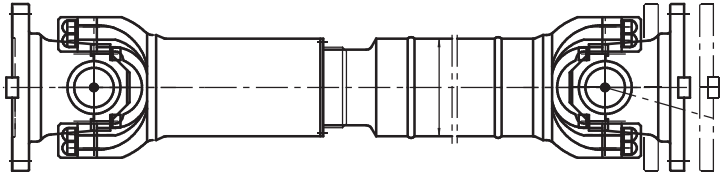
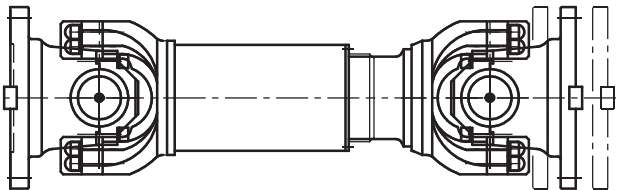
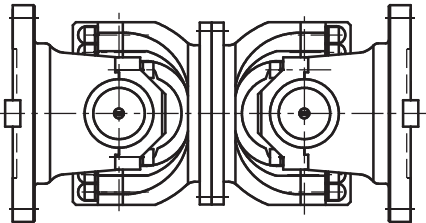
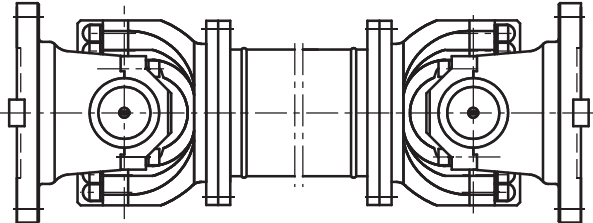
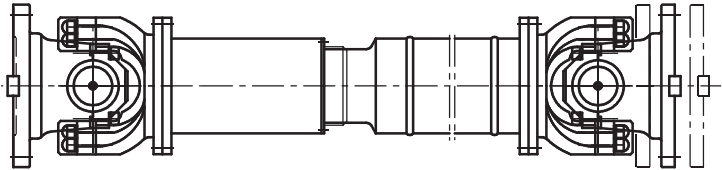
结构名称 Structure name	结构图 Structure pattern	结构名称 Structure name	结构图 Structure pattern
结构代号 Structure code	结构代号 Structure code	结构代号 Structure code	结构代号 Structure code
标准伸缩焊接式 Standard telescopic welded type	 B	无伸缩焊接式 Non-stretch welded type	 W
标准伸缩法兰式 Standard telescopic flange type	 F	无伸缩法兰式 No telescopic flange type	 X
短伸缩焊接式 Short telescopic welded type	 D	无伸缩短式 No stretch shortening type	 Y
长伸缩焊接式 Long telescopic welded type	 L		

十字轴万向联轴器结构型式
The structural style of the cross shaft universal couplings

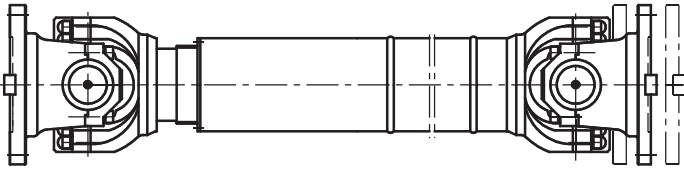
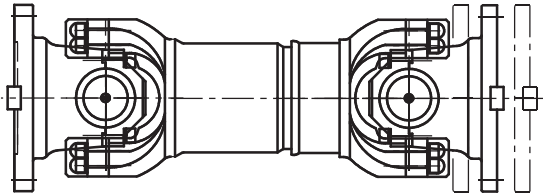
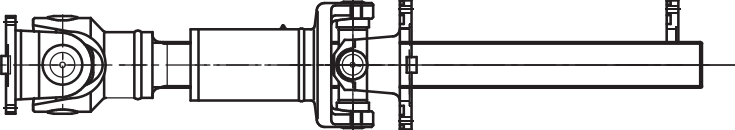
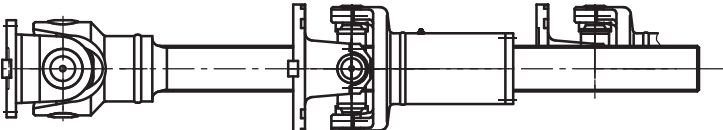
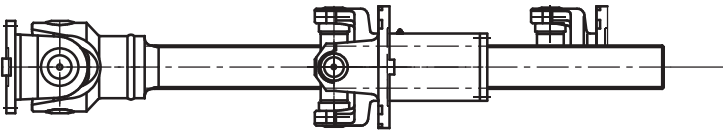
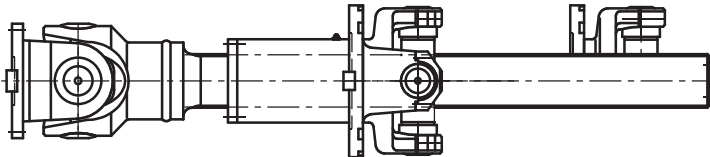
● UP系列 UP series

UP型是考虑到轴承是万向联轴器的易损件，将压盖制成剖分，就是为了便于更换轴承。UP系列适应于不同需要有11种结构形式：

The UP type is considering the bearing of universal couplings is quick– wear part, the gland is made split, is to facilitate the replacement of bearings. UP type series apply to different needs. There are eleven kinds of structure:

结构名称 Structure name	结构代号 Structure code	结构图 Structure pattern
有伸缩长型 Telescopic long type	B	
有伸缩短型 Telescopic short type	D	
无伸缩短型 Non telescopic short type	Y	
无伸缩长型 Non telescopic long type	W	
有伸缩双法兰长型 Telescopic double flanged long type	F	

十字轴万向联轴器结构型式
The structural style of the cross shaft universal couplings

结构名称 Structure name	结构代号 Structure code	结构图 Structure pattern
大伸缩长型 Large telescopic long type	L	
有伸缩超短型 Telescopic ultra-short type	C	
花套、法叉正装贯通型 Shaft sleeve and fork of the positive assembly and cut-through type	GA	
花套、法叉反装贯通型 Shaft sleeve and fork of the reverse assembly and cut-through type	GB	
花套反装、法叉正装贯通型 Shaft sleeve of reverse assembly and the fork of positive assembly and cut-through type	GC	
花套正装、法叉反装贯通型 Shaft sleeve of positive assembly and the fork of reverse assembly and cut-through type	GD	

十字轴万向联轴器的选用

The selection and use of the cross shaft universal couplings

选用十字轴万向联轴器时，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型号规格对应的最大孔径、最大径向尺寸（回转空间）、许用转速是否能满足联轴器的工作条件，以确定选用十字轴万向联轴器型号规格。

When select and use the cross shaft universal couplings, according to the basic information and calculate the torque, preliminary select couplings model specification. Then from standard found the corresponding specifications corresponding to the maximum pore size, the maximum radial dimension (Rotary space) and the allowable speed can meet couplings working conditions to determine the selection and use of cross universal couplings model specifications.

● 选用联轴器按以下步骤进行

According to the following steps to select and use couplings

1.1 选用基本信息 / The selection and use of the basic information

驱动机名称、驱动机数量、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、是否频繁启动、是否正反转、输入输出轴直径及长度。

Drive machine names, drive machine quantity, input power, working speed, work machine name, load type, working environment, nature of work, whether frequent start, whether positive & negative, input and output shaft diameter and length.

基本信息见附表1
Basic information see table 1.

1.2 选用计算 / The selection & use and calculation

联轴器的主参数是公称转矩Tn，选用时各转矩间应符合以下关系：
 $T < T_c \leq T_n \leq [T] < [T_{max}] < T_{max}$
式中：
T—理论转矩，N·m
Tc—计算转矩，N·m
Tn—公称转矩，N·m
[T] —许用转矩，N·m
[Tmax] —许用最大转矩，N·m
Tmax—最大转矩，N·m

The main parameter of the couplings is the nominal torque Tn, among various torque when selection should accord with the following relationship:
 $T < T_c \leq T_n \leq [T] < [T_{max}] < T_{max}$
In the formula:
T — theory of torque, N·m
Tc — computed torque, N·m
Tn — nominal torque, N·m
[T] — allowable torque, N·m
[Tmax] — allowable maximum torque, N·m
Tmax — maximum torque, N·m

1.2.1 联轴器的理论转矩计算 / The theory torque calculation of the couplings

$T=9550P_w/n$
式中：
Pw—驱动功率，Kw
n—工作转速，r/min

$T = 9550P_w/n$
In the formula:
Pw — driving power, Kw
n — working speed, r/min

十字轴万向联轴器的选用

The selection and use of the cross shaft universal couplings

1.2.2 联轴器的计算转矩计算 / The torque calculation of the couplings

计算公式 $T_c=T \cdot K_w \cdot K \cdot K_z$
式中：
Kw—动力机系数（见 表1）
K—工况系数（见 表1）
Kz—启动系数（见 表1）

$T_c= T \cdot K_w \cdot K \cdot K_z$
In the formula:
Kw — coefficient of engine (see table 1)
K — working condition coefficient (see table 1)
Kz — start coefficient (see table 1)

表1 / Table 1

动力机 系数Kw Coefficient of engine	动力机 名称 Engine name	启动 系数 Kz Start coefficient	启动 次数 Number of starts	工况 系数k Working condition coefficient	载荷 分类 Load type	工作机名称举例 Work machine names example
1.0	电动机、透平机 The motor and turbine	1.0	≤120	1	均匀 载荷 Even load	鼓风机、泵、压缩机、液体搅拌设备、机纺织机械（印花机、浆纱机）、造纸设备、(漂白机、校平机)、均匀加载运输机 Blower, pump, compressor, liquid mixing equipment, textile machinery(printing machine, sizing machine), papermaking equipment, bleaching machine, leveling machine, uniform loading conveyor
1.2	四缸及四缸以上内燃机 Four and more than four cylinder internal combustion engine	1.3	> 120 ~ 240	1.5	轻冲击 载荷 Light impact load	机纺织机械（压榨机、卷取机）、造纸设备(卷取机)、不均匀加载运输机、给料机、印刷机械 Textile machinery (squeezing machine, recoiling machine), papermaking equipment (recoiling machine), non-uniform loading conveyor, feeding machine, printing machine
1.4	两缸内燃机 Two cylinder internal combustion engine	由制造厂确定 Determined by the manufacturer	> 240	2	中等冲击载荷 Medium impact load	提升机械、起重机和卷扬机、旋转式粉碎机、轧制设备、石油机械、造纸设备（搅拌器和破碎机 卷筒装置、切断机） Lifting machinery, crane and windlass, rotary crusher, rolling equipment, oil machinery, papermaking equipment (agitator and crusher, cutter)
1.6	单缸内燃机 Single cylinder internal combustion engine			2.5	重冲击 载荷 Heavy impact load	摆动运输机、碎矿机、碎石机、往复式给料机、橡胶机械 Swinging conveyor, crusher, stone crusher, reciprocating feeding machine, rubber machinery
				3	特重冲击载荷 Extra heavy impact load	可逆输送辊道、初轧机、中厚板轧机、机架辊、剪切机、冲压机 Reversible roller conveyer, blooming mill, plate mill, the breast roll, shearing machine, punching machine

十字轴万向联轴器的选用

The selection and use of the cross shaft universal couplings

1.2.3 当存在下列情况时，应按以下方法计算选型 / When the presence of the following situation, it should be calculated and selection by the following method

- ①峰值载荷
- ②刹车制动（制动轮或制动盘为联轴器的一部分）
- ③高频率轴向窜动
- High peak loads
- Brake (brake wheel or brake disc is part of the couplings)
- High frequency axial channeling move

峰值载荷 / Peak load

当电机功率大、有冲击载荷、频繁启动和制动、有间歇性运转等系统存在反复性峰值载荷时，联轴器额定转矩等于或大于根据下式计算出的选型转矩。

When the big motor power, impact load, frequent starting and braking, intermittent operation and etc system exists repetitive peak load, the couplings rating torque is equal to or greater than the calculated according to the following formula to calculate the model selection and torque.

a. 无反向峰值载荷 / No reverse peak load

选型转矩（N·m）=系统峰值转矩
选型转矩（N·m）=系统峰值功率（Kw）x9550/转速（rpm）
Election torque (N·m) = system peak torque
Selection torque (N·m) = system peak power(Kw) × 9550 / rotate speed(rpm)

b. 有反向峰值载荷 / Have reverse peak load

选型转矩（N·m）=1.5x系统峰值转矩
选型转矩（N·m）=1.5x系统峰值功率（Kw）x9550/转速（rpm）
Selection torque (N·m) = 1.5 × system peak torque
Selection torque (N·m) = 1.5 × system peak power (Kw) × 9550 / rotate speed (rpm)

c. 偶然峰值载荷（无反向） / Occasional peak load(no reverse)

在联轴器的预期寿命期间，如果系统峰值载荷出现次数少于1000次，使用下面公式：
选型转矩（N·m）=0.5x系统峰值转矩
选型转矩（N·m）=0.5x系统峰值功率（Kw）x9550/转速（rpm）
During the couplings of the expectation life, if the system peak load appeared a number less than 1000 times, using the following formula:
Selection torque (N·m) = 0.5 × system peak torque
Selection torque (N·m) = 0.5 × system peak power (Kw) × 9550 / rotate speed(rpm)

对于反向情况，选用步骤b。
For reverse situation, selects the step b.

十字轴万向联轴器的选用

The selection and use of the cross shaft universal couplings

制动 / Selection

如果制动力矩超过电机转矩，根据下式计算制动选型转矩：
选型转矩（N·m）=制动力矩x工况系数
If the braking torque exceed the motor torque, according to following formula to select model and torque:
selection torque (N·m) = brake torque × application factor

高频率轴向窜动 / High frequency axial channeling shift

如果轴向窜动超过每小时5次，那么工况系数需增加0.25。
选型转矩（N·m）=功率（Kw）x 9550 x(工况系数+0.25)/转速（rpm）
If the axial channeling move exceed more than 5 times per hour, so the working condition coefficient should be increased by 0.25.
selection torque (N·m) = power (Kw) × 9550 × (application factor+ 0.25) / rotate speed (rpm)

1.3 初选联轴器型号规格 / The preliminary selection of the couplings model specifications

1.4 选型验证 / Selection validation

1.5 确定联轴器型号规格 / To determine the couplings model specifications

1.6 产品标记 / Product mark

● 选型示例 Selection example

2.1 基本信息 / General information

电机额定功率：130Kw
输出转速：37rpm
输入、输出端距离：2703mm
压缩长度：2650mm
补偿长度：100mm
联轴器类型：万向轴
平衡等级：G10
工作温度：-30℃ ~ 120℃
载荷性质：中等冲击
工作环境：有灰尘等
工作性质：连续

Motor rated power: 130Kw
Output speed: 37rpm
Input and output end distance: 2703mm
Compressed length: 2650mm
Compensated length: 100mm
Coupling type: universal shaft
Balance grade: G10
Working temperature: -30℃ ~ 120℃
Load properties: moderate impact
Working environment: such as dust etc
Nature of work: continuous

2.2 选用计算 / Select & use, calculation

根据基本信息，本项目选用伸缩万向轴。
According to the general information, this project choose the telescopic universal shaft.

十字轴万向联轴器的选用

The selection and use of the cross shaft universal couplings

选型计算

理论转矩计算

$T=9550Pw/n=9550*130/37=33554\text{ (N}\cdot\text{m)}$

计算转矩计算

计算公式 $T_c=T\cdot K_w\cdot K\cdot K_z$

式中:

K_w 取1 / K 取2 / K_z 取1

$T_c=33554*1*2*1=67108\text{ (N}\cdot\text{m)}$

selection & calculation

Theoretical toque calculation

$T= 9550Pw/n= 9550* 130/ 37= 33554\text{ (N}\cdot\text{m)}$

Calculated torque

Computational formula $T_c= T\cdot K_w\cdot K\cdot K_z$

In this formula:

K_w choose 1/ K choose 2/ K_z choose 1

Then $T_c= 33554*1*2*1= 67108\text{ (N}\cdot\text{m)}$

2.3 初选联轴器型号规格 / The preliminary selection of the couplings model specifications

SWC285 十字轴万向联轴器 公称转矩 90000N·m

满足转矩要求 初选十字轴万向联轴器 SWC285

SWC285 cross shaft universal couplings nominal torque 90000N·m

Meet the torque requirement. primary selection of cross shaft universal couplings SWC285

2.4 验证 / Verification

2.4.1 孔径 / Bore diameter

基本信息无孔径，此项视同满足要求

Basic information without bore diameter, this shall be regarded as meet the requirements

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没有限制 此项视同满足要求

There is no restriction to the on site couplings of the max diameter, this shall be regarded as meet the requirements

2.4.3 许用转速 / Allowable speed

联轴器实际输出转速较低,转速为37rpm

满足许用转速

The actual output speed of the couplings is relatively lower 37rpm.

Meet the allowable rotate speed.

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

因基本信息要求平衡等级 G10

选定联轴器型号规格SWC285*2650min+100（伸缩量）

平衡等级 G10

Due to the requirements of basic information are balancing level G102.6

Determination of the couplings model specifications SWC285 × 2650min+ 100 (stroke)

Balance grade G10

2.6 标记示例 / Marking Example

SWC285 十字轴万向联轴器

SWC285*2650min+100（伸缩量） 平衡等级 G10

SWC285 Cross shaft universal couplings

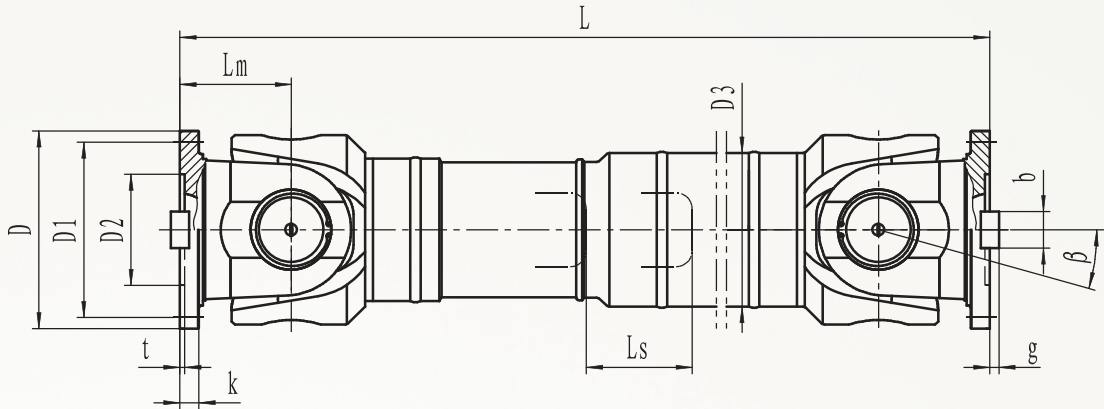
SWC285*2650min+ 100 (stroke) balance level G10

十字轴万向联轴器的结构型式、基本参数和主要尺寸

The structural style, basic parameter and main dimension of the cross shaft universal couplings

● UC系列十字轴万向联轴器

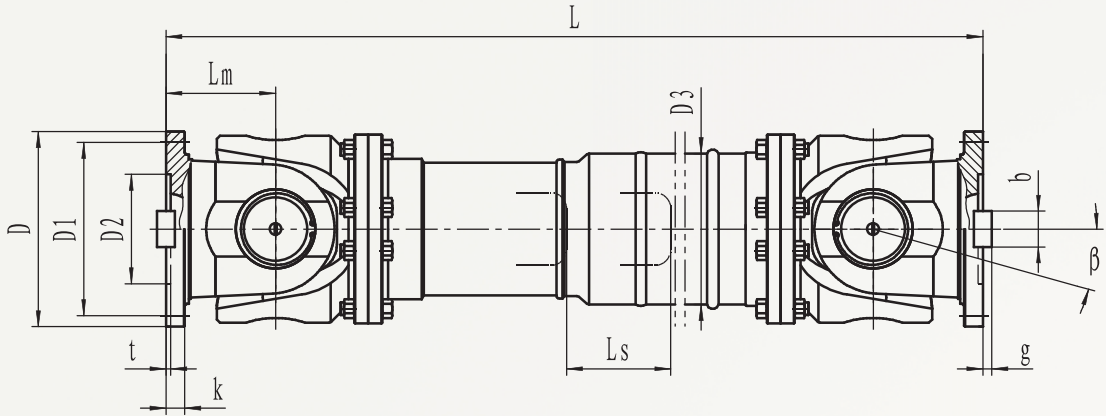
The UC series of cross shaft universal couplings



UCB型—标准伸缩焊接式万向联轴器
UCB type–Standard telescopic welded type universal couplings

型号 Size	回转 直径 D mm	公称 转矩 Tn kN·m	疲劳 转矩 Tf kN·m	轴线 折角 β°	伸 缩 量 Ls mm	主要尺寸 Main Dimension mm										转动惯量I kg.m ²		注油量G kg	
						LMin.	D1 (js11)	D2 (H7)	D3	Lm	n-d	k	t	B (h9)	g	LMin.	增长 Increase 100mm	LMin.	增长 Increase 100mm
UCB 100	100	1.25	0.63	≤25	55	390	84	57	60	55	6-9	7	2.5	-	-	0.0044	0.00019	6.1	0.35
UCB 120	120	2.5	1.25	≤25	80	485	102	75	70	65	8-11	8	2.5	-	-	0.0109	0.00044	10.8	0.55
UCB 150	150	5	2.5	≤25	80	590	130	90	89	80	8-13	10	3.0	-	-	0.0423	0.00157	24.5	0.85
UCB 180	180	12.5	6.3	≤25	100	810	155	105	114	110	8-17	17	5.0	-	-	0.1750	0.0070	70	2.8
UCB 225	225	40	20	≤15	140	920	196	135	152	120	8-17	20	5.0	32	9.0	0.5380	0.0234	122	4.9
UCB 250	250	63	31.5	≤15	140	1035	218	150	168	140	8-19	25	6.0	40	12.5	0.9660	0.0277	172	5.3
UCB 285	285	90	45	≤15	140	1190	245	170	194	160	8-21	27	7.0	40	15.0	2.0110	0.0510	263	6.3
UCB 315	315	125	63	≤15	140	1315	280	185	219	180	10-23	32	8.0	40	15.0	3.6050	0.0795	382	8.0
UCB 350	350	180	90	≤15	150	1410	310	210	267	194	10-23	35	8.0	50	16.0	7.0530	0.2219	582	15.0
UCB 390	390	250	125	≤15	170	1590	345	235	267	215	10-25	40	8.0	70	18.0	12.164	0.2219	738	15.0
UCB 440	440	355	180	≤15	190	1875	390	255	325	260	16-28	42	10.0	80	20.0	21.420	0.4744	1190	21.7
UCB 490	490	500	250	≤15	190	1985	435	275	325	270	16-31	47	12.0	90	22.5	32.860	0.4744	1452	21.7
UCB 550	550	710	355	≤15	240	2300	492	320	426	305	16-31	50	12.0	100	22.5	68.920	1.3570	2380	34

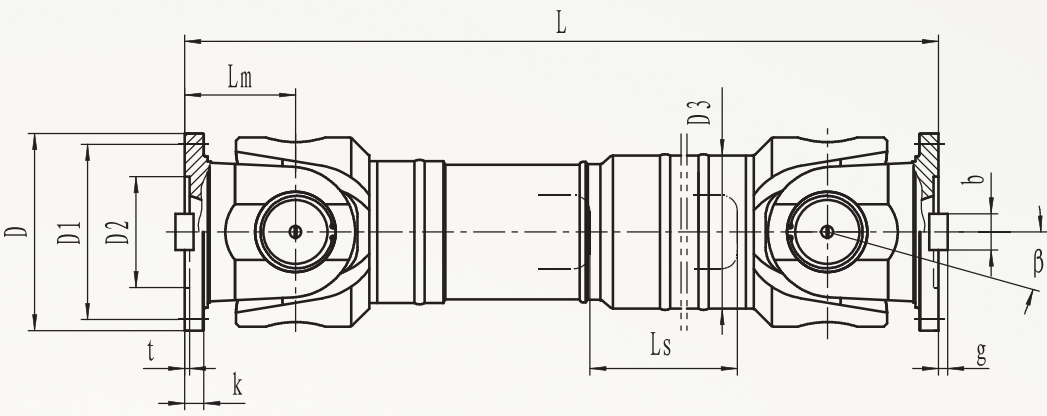
十字轴万向联轴器的结构型式、基本参数和主要尺寸
The structural style, basic parameter and main dimension of the cross shaft universal couplings



UCF型—标准伸缩法兰式万向联轴器
UCF type—Standard telescopic flange type universal couplings

型号 Size	回转 直径 D mm	公称 转矩 Tn kN·m	疲 劳 转矩 Tf kN·m	轴线 折角 β°	伸 缩 量 Ls mm	主要尺寸 Main Dimension mm										转动惯量I kg.m²		注油量G kg	
						LMin.	D1 (js11)	D2 (H7)	D3	Lm	n-d	k	t	B (h9)	g	LMin.	增长 Increase 100mm	LMin.	增长 Increase 100mm
UCF 180	180	12.5	6.3	≤25	100	810	155	105	114	110	8-17	17	5.0	—	—	0.267	0.0070	80	2.8
UCF 225	225	40	20	≤15	140	920	196	135	152	120	8-17	20	5.0	32	9.0	0.788	0.0234	138	4.9
UCF 250	250	63	31.5	≤15	140	1035	218	150	168	140	8-19	25	6.0	40	12.5	1.445	0.0277	196	5.3
UCF 285	285	90	45	≤15	140	1190	245	170	194	160	8-21	27	7.0	40	15.0	2.873	0.0510	295	6.3
UCF 315	315	125	63	≤15	140	1315	280	185	219	180	10-23	32	8.0	40	15.0	5.094	0.0795	428	8.0
UCF 350	350	180	90	≤15	150	1410	310	210	267	194	10-23	35	8.0	50	16.0	9.195	0.2219	632	15.0
UCF 390	390	250	125	≤15	170	1590	345	235	267	215	10-25	40	8.0	70	18.0	16.62	0.2219	817	15.0
UCF 440	440	355	180	≤15	190	1875	390	255	325	260	16-28	42	10.0	80	20.0	28.24	0.4744	1290	21.7
UCF 490	490	500	250	≤15	190	1985	435	275	325	270	16-31	47	12.0	90	22.5	46.33	0.4744	1631	21.7
UCF 550	550	710	355	≤15	240	2300	492	320	426	305	16-31	50	12.0	100	22.5	86.98	1.3570	2567	34
UCF 620	620	1000	500	≤15	240	2500	555	380	426	340	10-38	55	12.0	100	25.0	147.50	1.3570	3267	34

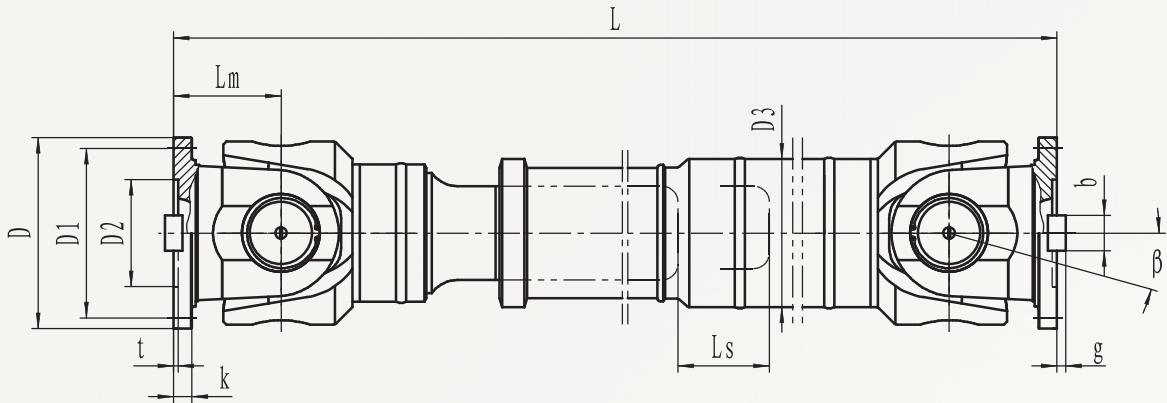
十字轴万向联轴器的结构型式、基本参数和主要尺寸
The structural style, basic parameter and main dimension of the cross shaft universal couplings



UCD型—短伸缩焊接式万向联轴器
UCD type—Short telescopic welded type universal couplings

型号 Size	回转 直径 D mm	公称 转矩 Tn kN·m	疲 劳 转矩 Tf kN·m	轴线 折角 β°	伸 缩 量 Ls mm	主要尺寸 Main Dimension mm										转动惯量I kg.m²		注油量G kg	
						LMin.	D1 (js11)	D2 (H7)	D3	Lm	n-d	k	t	B (h9)	g	LMin.	增长 Increase 100mm	LMin.	增长 Increase 100mm
UCD 180a	180	12.5	6.3	≤25	75	650	155	105	114	110	8-17	17	5	—	—	0.165	0.0070	58	2.8
UCD 180b					55	600										0.162		56	
UCD 180c					40	550										0.160		52	
UCD 225a	225	40	20	≤15	85	710	196	135	152	120	8-17	20	5	32	9.0	0.415	0.0234	95	4.9
UCD 225b					70	640										0.397		92	
UCD 250a	250	63	31.5	≤15	100	795	218	150	168	140	8-19	25	6	40	12.5	0.900	0.0277	148	5.3
UCD 250b					70	735										0.885		136	
UCD 285a	285	90	45	≤15	120	950	245	170	194	160	8-21	27	7	40	15.0	1.876	0.0510	229	6.3
UCD 285b					80	880										1.801		221	
UCD 315a	315	125	63	≤15	130	1070	280	185	219	180	10-23	32	8	40	15.0	3.331	0.0795	346	8.0
UCD 315b					90	980										3.163		334	
UCD 350a	350	180	90	≤15	140	1170	310	210	267	194	10-23	35	8	50	16.0	6.215	0.22119	508	15.0
UCD 350b					90	1070										5.824		485	
UCD 390a	390	250	125	≤15	150	1300	345	235	267	215	10-25	40	8	70	18.0	11.125	0.2219	655	15.0
UCD 390b					90	1200										10.763		600	

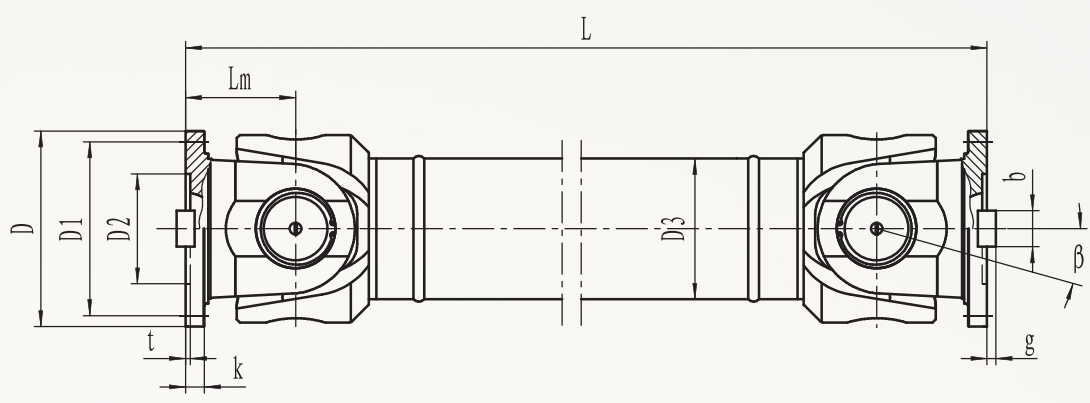
十字轴万向联轴器的结构型式、基本参数和主要尺寸
The structural style, basic parameter and main dimension of the cross shaft universal couplings



UCL型—长伸缩焊接式万向联轴器
UCL type—Long telescopic welded type universal couplings

型号 Size	回转 直径 D mm	公称 转矩 Tn kN·m	疲劳 转矩 Tf kN·m	轴线 折角 β°	伸 缩 量 Ls mm	主要尺寸 Main Dimension mm										转动惯量 I kg.m²		注油量 G kg	
						LMin.	D1 (js11)	D2 (H7)	D3	Lm	n-d	k	t	B (h9)	g	LMin.	增长 Increase 100mm	LMin.	增长 Increase 100mm
UCL 180 UCL 180	180	12.5	6.3	≤25	200 700	925 1425	155	105	114	110	8-17	17	5	-	-	0.181 0.216	0.0070	74 104	2.8
UCL 225 UCL 225	225	40	20	≤15	220 700	1020 1500	196	135	152	120	8-17	20	5	32	9	0.561 0.674	0.0234	132 182	4.9
UCL 250 UCL 250	250	63	31.5	≤15	300 700	1215 1615	218	150	168	140	8-19	25	6	40	12.5	1.016 1.127	0.0277	190 235	5.3
UCL 285 UCL 285	285	90	45	≤15	400 800	1475 1875	245	170	194	160	8-21	27	7	40	15	2.156 2.360	0.0510	300 358	6.3
UCL 315 UCL 315	315	125	63	≤15	400 800	1600 2000	280	185	219	180	10-23	32	8	40	15	3.812 4.150	0.0795	434 514	8.0
UCL 350 UCL 350	350	180	90	≤15	400 800	1715 2115	310	210	267	194	10-23	35	8	50	16	7.663 8.551	0.2219	672 823	15.0
UCL 390 UCL 390	390	250	125	≤15	400 800	1845 2245	345	235	267	215	10-25	40	8	70	18	12.730 13.617	0.2219	817 964	15.0
UCL 440 UCL 440	440	355	180	≤15	400 800	2110 2510	390	255	325	260	16-28	42	10	80	20	22.540 24.430	0.4744	1312 1537	21.7
UCL 490 UCL 490	490	500	250	≤15	400 800	2220 2620	435	275	325	270	16-31	47	12	90	22.5	33.970 35.870	0.4744	1554 1779	21.7
UCL 550 UCL 550	550	710	355	≤15	500 1000	2585 3085	492	320	426	305	16-31	50	12	100	22.5	72.790 79.570	1.3570	2585 3045	34

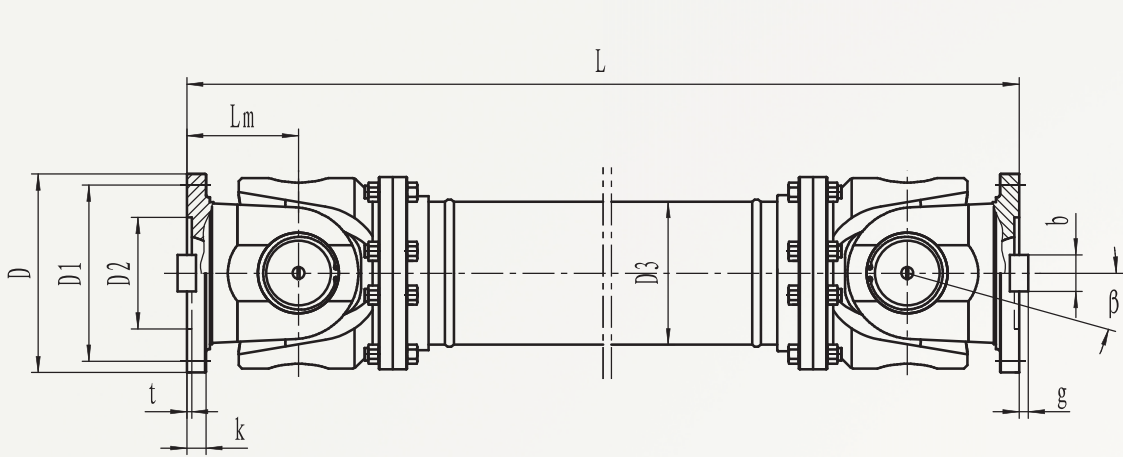
十字轴万向联轴器的结构型式、基本参数和主要尺寸
The structural style, basic parameter and main dimension of the cross shaft universal couplings



UCW型—无伸缩焊接式万向联轴器
UCW type—Non telescopic welded type universal couplings

型号 Size	回转 直径 D mm	公称 转矩 Tn kN·m	疲劳 转矩 Tf kN·m	轴线 折角 β°	主要尺寸 Main Dimension mm										转动惯量I kg.m²		注油量G kg	
					LMin.	D1 (js11)	D2 (H7)	D3	Lm	n-d	k	t	B (h9)	g	LMin.	增长 100mm	LMin.	增长 100mm
UCW 100	100	1.25	0.63	≤25	243	84	57	60	55	6-9	7	2.5	-	-	0.0039	0.00019	4.5	0.35
UCW 120	120	2.5	1.25	≤25	307	102	75	70	65	8-11	8	2.5	-	-	0.0096	0.00044	7.7	0.55
UCW 150	150	5	2.5	≤25	350	130	90	89	80	8-13	10	3.0	-	-	0.0371	0.00157	18	0.85
UCW 180	180	12.5	6.3	≤25	480	155	105	114	110	8-17	17	5.0	-	-	0.1500	0.0070	48	2.8
UCW 225	225	40	20	≤15	520	196	135	152	120	8-17	20	5.0	32	9.0	0.3650	0.0234	78	4.9
UCW 250	250	63	31.5	≤15	620	218	150	168	140	8-19	25	6.0	40	12.5	0.8470	0.0277	124	5.3
UCW 285	285	90	45	≤15	720	245	170	194	160	8-21	27	7.0	40	15.0	1.7560	0.0510	185	6.3
UCW 315	315	125	63	≤15	805	280	185	219	180	10-23	32	8.0	40	15.0	2.8930	0.0795	262	8.0
UCW 350	350	180	90	≤15	875	310	210	267	194	10-23	35	8.0	50	16.0	5.0130	0.2219	374	15.0
UCW 390	390	250	125	≤15	955	345	235	267	215	10-25	40	8.0	70	18.0	8.4060	0.2219	506	15.0
UCW 440	440	355	180	≤15	1115	390	255	325	260	16-28	42	10.0	80	20.0	15.790	0.4744	790	21.7
UCW 490	490	500	250	≤15	1205	435	275	325	270	16-31	47	12.0	90	22.5	26.540	0.4744	1014	21.7
UCW 550	550	710	355	≤15	1355	492	320	426	305	16-31	50	12.0	100	22.5	48.320	1.3570	1526	34

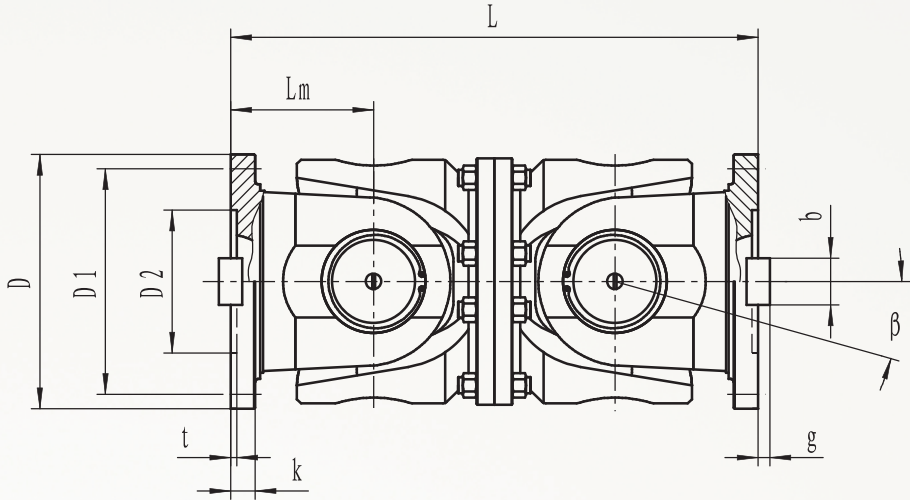
十字轴万向联轴器的结构型式、基本参数和主要尺寸
The structural style, basic parameter and main dimension of the cross shaft universal couplings



UCX型—无伸缩法兰式万向联轴器
UCX type—Non telescopic flange type universal couplings

型号 Size	回转 直径 D mm	公称 转矩 Tn kN·m	疲 劳 转 矩 Tf kN·m	轴 线 折 角 β°	主要尺寸 Main Dimension mm										转动惯量I kg.m²		注油量G kg	
					LMin.	D1 (js11)	D2 (H7)	D3	Lm	n-d	k	t	B (h9)	g	LMin.	增长 Increase 100mm	LMin.	增长 Increase 100mm
UCX 180	180	12.5	6.3	≤25	560	155	105	114	110	8-17	17	5.0	-	-	0.248	0.0070	58	2.8
UCX 225	225	40	20	≤15	610	196	135	152	120	8-17	20	5.0	32	9.0	0.636	0.0234	93	4.9
UCX 250	250	63	31.5	≤15	715	218	150	168	140	8-19	25	6.0	40	12.5	1.352	0.0277	143	5.3
UCX 285	285	90	45	≤15	810	245	170	194	160	8-21	27	7.0	40	15.0	2.664	0.0510	220	6.3
UCX 315	315	125	63	≤15	915	280	185	219	180	10-23	32	8.0	40	15.0	4.469	0.0795	300	8.0
UCX 350	350	180	90	≤15	980	310	210	267	194	10-23	35	8.0	50	16.0	7.388	0.2219	412	15.0
UCX 390	390	250	125	≤15	1100	345	235	267	215	10-25	40	8.0	70	18.0	13.184	0.2219	588	15.0
UCX 440	440	355	180	≤15	1290	390	255	325	260	16-28	42	10.0	80	20.0	23.250	0.4744	880	21.7
UCX 490	490	500	250	≤15	1360	435	275	325	270	16-31	47	12.0	90	22.5	40.750	0.4744	1173	21.7
UCX 550	550	710	355	≤15	1510	492	320	426	305	16-31	50	12.0	100	22.5	68.480	1.3570	1663	34
UCX 620	620	1000	500	≤15	1690	555	380	426	340	10-38	55	12.0	100	25.0	127.530	1.3570	2332	34

十字轴万向联轴器的结构型式、基本参数和主要尺寸
The structural style, basic parameter and main dimension of the cross shaft universal couplings



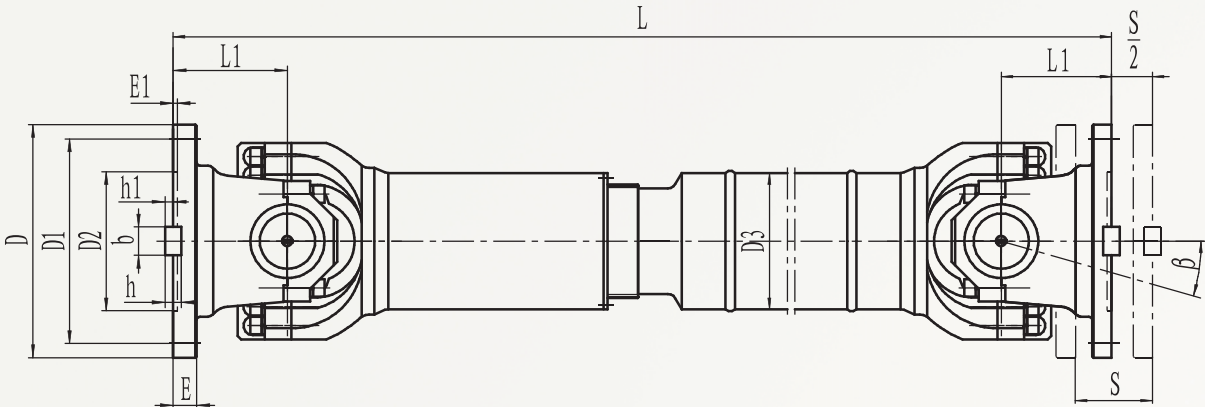
UCY型—无伸缩短式万向联轴器
UCY type—Non telescopic short type universal couplings

型号 Size	回转 直径 D mm	公称 转矩 Tn kN·m	疲 劳 转 矩 Tf kN·m	轴 线 折 角 β°	主要尺寸 Main Dimension mm									转动 惯量 I kg.m²	注油 量 G kg
					LMin.	D1 (js11)	D2 (H7)	Lm	n-d	k	t	B (h9)	g		
UCY 180	180	12.5	6.3	≤25	440	155	105	110	8-17	17	5.0	-	-	0.145	52
UCY 225	225	40	20	≤15	480	196	135	120	8-17	20	5.0	32	9.0	0.355	82
UCY 250	250	63	31.5	≤15	560	218	150	140	8-19	25	6.0	40	12.5	0.8311	127
UCY 285	285	90	45	≤15	640	245	170	160	8-21	27	7.0	40	15.0	1.715	189
UCY 315	315	125	63	≤15	720	280	185	180	10-23	32	8.0	40	15.0	2.820	270
UCY 350	350	180	90	≤15	776	310	210	194	10-23	35	8.0	50	16.0	4.791	370
UCY 390	390	250	125	≤15	860	345	235	215	10-25	40	8.0	70	18.0	8.229	524
UCY 440	440	355	180	≤15	1040	390	255	260	16-28	42	10.0	80	20.0	15.32	798
UCY 490	490	500	250	≤15	1080	435	275	270	16-31	47	12.0	90	22.5	25.74	1055
UCY 550	550	710	355	≤15	1220	492	320	305	16-31	50	12.0	100	22.5	46.78	1524
UCY 620	620	1000	500	≤15	1360	555	380	340	10-38	55	12.0	100	25.0	83.76	2120

十字轴万向联轴器的结构型式、基本参数和主要尺寸
The structural style, basic parameter and main dimension of the cross shaft universal couplings

● UP系列十字轴万向联轴器

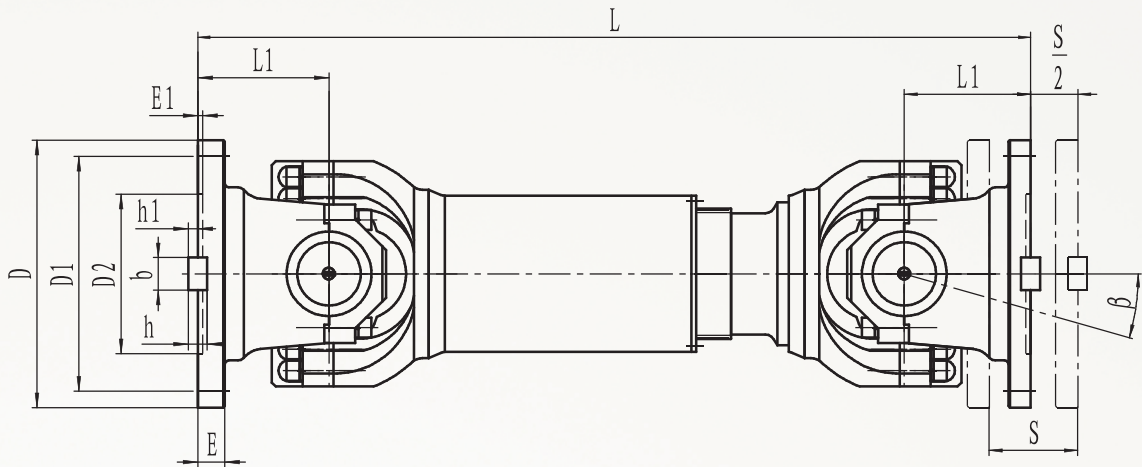
The UP series of cross shaft universal couplings



B型—有伸缩长型
B type—Telescopic long type

型号 Size	回转 直径 D mm	公称 转矩 Tn kN·m	疲 劳 转 矩 Tf kN·m	轴线 折角 β°	主要尺寸 Main Dimension mm										转动惯量I kg.m ²		注油量G kg		
					S mm	LMin.	D1 (js11)	D2 (H7)	D3	E	E1	b×h	h1	L1	n-d	LMin.	增长 Increase 100mm	LMin.	增长 Increase 100mm
UPB 160	160	16	8	≤10	50	660	140	95	114	15	4	20×12	6	85	6-13	0.13	0.0059	47	2.1
UPB 180	180	20	10	≤10	60	752	155	105	121	15	4	24×14	7	95	6-15	0.22	0.0072	60	2.3
UPB 200	200	31.5	16	≤10	70	823	175	125	127	17	5	28×16	8	110	8-15	0.37	0.0114	81	3.4
UPB 225	225	40	20	≤10	76	933	196	135	152	20	5	32×18	9	130	8-17	0.63	0.0290	109	6.6
UPB 250	250	63	31.5	≤10	80	978	218	150	168	25	5	40×25	12.5	135	8-19	1.02	0.0407	147	7.3
UPB 285	285	90	45	≤10	100	1133	245	170	194	27	7	40×30	15	150	8-21	2.17	0.0702	241	9.4
UPB 315	315	140	63	≤10	110	1250	280	185	219	32	7	40×30	15	170	10-23	3.86	0.1144	322	12.0
UPB 350	350	180	90	≤10	120	1380	310	210	245	35	8	50×32	16	185	10-23	6.66	0.1663	428	13.6
UPB 390	390	250	112	≤10	120	1495	345	235	273	40	8	70×36	18	205	10-25	11.53	0.2695	566	18.0
UPB 435	435	355	160	≤10	150	1710	385	255	299	42	10	80×40	20	235	16-28	21.81	0.3645	932	20.0
UPB 480	480	500	224	≤10	170	1910	425	275	351	47	12	90×45	22.5	265	16-31	38.04	0.7028	1294	28.0
UPB 550	550	710	315	≤10	190	2135	492	320	402	50	12	100×45	22.5	290	16-31	61.28	1.1842	1744	35.7
UPB 600	600	1000	500	≤10	210	2580	544	380	450	55	15	90×55	27.5	360	22-34	98.63	1.7159	2330	40.5
UPB 640	640	1250	630	≤10	230	2685	575	385	480	60	15	100×60	30	385	18-38	167.67	2.3080	3153	48.3

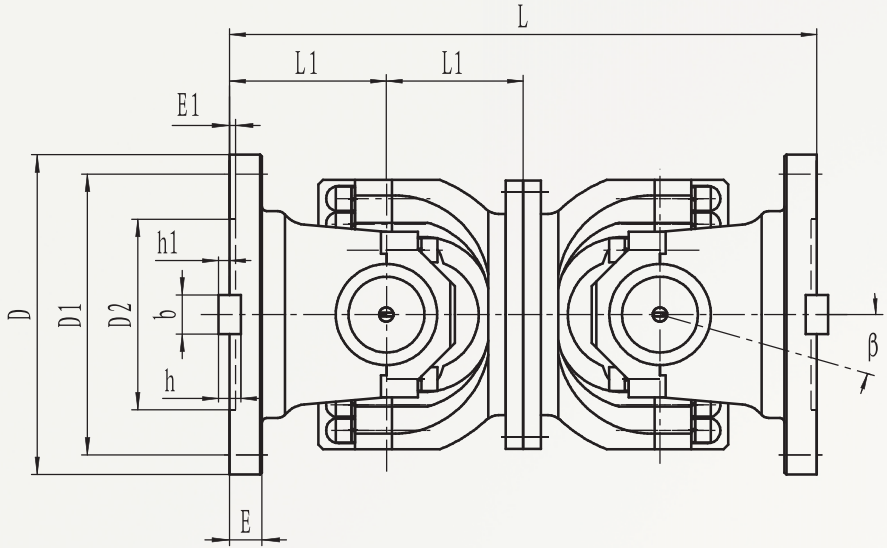
十字轴万向联轴器的结构型式、基本参数和主要尺寸
The structural style, basic parameter and main dimension of the cross shaft universal couplings



D型—有伸缩短型
D type—Telescopic short type

型号 Size	回转 直径 D mm	公称 转矩 Tn kN·m	疲劳 转矩 Tf kN·m	轴线 折角 β°	主要尺寸 Main Dimension mm										转动惯量 I kg.m ²	注油量 G kg
					伸缩量 S mm	L	D1 (js11)	D2 (H7)	E	E1	b×h	h1	L1	n-d		
UPD 160	160	16	8	≤10	50	585	140	95	15	4	20×12	6	85	6-13	0.14	44
UPD 180	180	20	10	≤10	60	640	155	105	15	4	24×14	7	95	6-15	0.23	56
UPD 200	200	31.5	16	≤10	70	730	175	125	17	5	28×16	8	110	8-15	0.36	75
UPD 225	225	40	20	≤10	76	830	196	135	20	5	32×18	9	130	8-17	0.61	108
UPD 250	250	63	31.5	≤10	80	860	218	150	25	5	40×25	12.5	135	8-19	0.98	138
UPD 285	285	90	45	≤10	100	1000	245	170	27	7	40×30	15	150	8-21	2.12	229
UPD 315	315	140	63	≤10	110	1120	280	185	32	7	40×30	15	170	10-23	3.80	309
UPD 350	350	180	90	≤10	120	1230	310	210	35	8	50×32	16	185	10-23	6.60	408
UPD 390	390	250	112	≤10	120	1310	345	235	40	8	70×36	18	205	10-25	10.50	539
UPD 435	435	355	160	≤10	150	1555	385	255	42	10	80×40	20	235	16-28	22.39	903
UPD 480	480	500	224	≤10	170	1740	425	275	47	12	90×45	22.5	265	16-31	38.21	1243
UPD 550	550	710	315	≤10	190	1905	492	320	50	12	100×45	22.5	290	16-31	61.00	1643

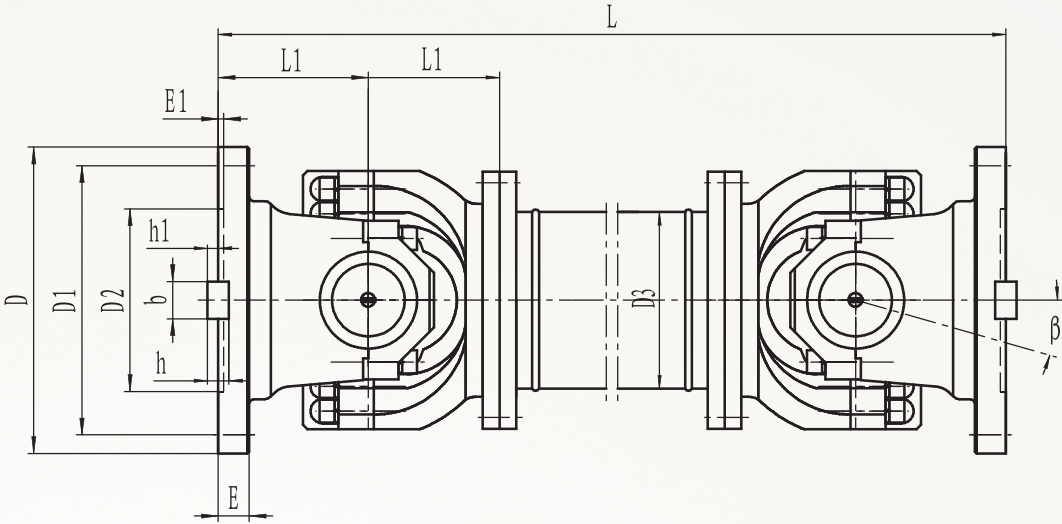
十字轴万向联轴器的结构型式、基本参数和主要尺寸
The structural style, basic parameter and main dimension of the cross shaft universal couplings



Y型—无伸缩短型
Y type–Non telescopic short type

型号 Size	回转 直径 D mm	公称 转矩 Tn kN·m	疲劳 转矩 Tf kN·m	轴线 折角 β°	主要尺寸 Main Dimension mm									转动惯量 I kg.m ²	注油量 G kg
					LMin.	D1 (js11)	D2 (H7)	E	E1	b × h	h1	L1	n-d		
UPY 160	160	16	8	≤10	340	140	95	15	4	20 × 12	6	85	6-13	0.11	31
UPY 180	180	20	10	≤10	380	155	105	15	4	24 × 14	7	95	6-15	0.17	42
UPY 200	200	31.5	16	≤10	440	175	125	17	5	28 × 16	8	110	8-15	0.29	59
UPY 225	225	40	20	≤10	520	196	135	20	5	32 × 18	9	130	8-17	0.51	80
UPY 250	250	63	31.5	≤10	540	218	150	25	5	40 × 25	12.5	135	8-19	0.93	119
UPY 285	285	90	45	≤10	600	245	170	27	7	40 × 30	15	150	8-21	1.88	179
UPY 315	315	140	63	≤10	680	280	185	32	7	40 × 30	15	170	10-23	2.88	232
UPY 350	350	180	90	≤10	740	310	210	35	8	50 × 32	16	185	10-23	4.59	300
UPY 390	390	250	112	≤10	820	345	235	40	8	70 × 36	18	205	10-25	8.64	432
UPY 435	435	355	160	≤10	940	385	255	42	10	80 × 40	20	235	16-28	17.41	688
UPY 480	480	500	224	≤10	1060	425	275	47	12	90 × 45	22.5	265	16-31	28.25	904
UPY 550	550	710	315	≤10	1160	492	320	50	12	100 × 45	22.5	290	16-31	49.49	1309
UPY 600	600	1000	500	≤10	1440	544	380	55	15	90 × 55	27.5	360	22-34	87.17	1377
UPY 640	640	1250	630	≤10	1540	575	385	60	15	100 × 60	30	385	18-38	152.76	2635

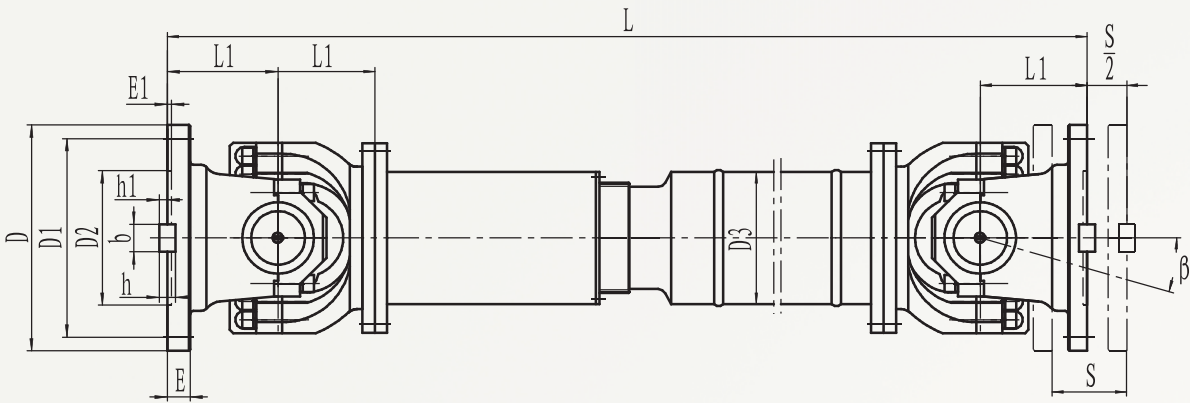
十字轴万向联轴器的结构型式、基本参数和主要尺寸
The structural style, basic parameter and main dimension of the cross shaft universal couplings



W型—无伸缩长型
W type–Non telescopic long type

型号 Size	回转 直径 D mm	公称 转矩 Tn kN·m	疲劳 转矩 Tf kN·m	轴线 折角 β°	主要尺寸 Main Dimension mm										转动惯量I kg.m²		注油量G kg	
					LMin.	D1 (js11)	D2 (H7)	D3	E	E1	b×h	h1	L1	n–d	LMin.	增长 Increase 100mm	LMin.	增长 Increase 100mm
UPW 160	160	16	8	≤10	430	140	95	114	15	4	20×12	6	85	6–13	0.13	0.0059	35	2.1
UPW 180	180	20	10	≤10	474	155	105	121	15	4	24×14	7	95	6–15	0.22	0.0072	47	2.3
UPW 200	200	31.5	16	≤10	544	175	125	127	17	5	28×16	8	110	8–15	0.37	0.0114	67	3.4
UPW 225	225	40	20	≤10	636	196	135	152	20	5	32×18	9	130	8–17	0.63	0.0290	94	6.6
UPW 250	250	63	31.5	≤10	690	218	150	168	25	5	40×25	12.5	135	8–19	1.02	0.0407	140	7.3
UPW 285	285	90	45	≤10	760	245	170	194	27	7	40×30	15	150	8–21	2.17	0.0702	206	9.4
UPW 315	315	140	63	≤10	860	280	185	219	32	7	40×30	15	170	10–23	3.86	0.1144	271	12.0
UPW 350	350	180	90	≤10	940	310	210	245	35	8	50×32	16	185	10–23	6.66	0.1663	355	13.6
UPW 390	390	250	112	≤10	1060	345	235	273	40	8	70×36	18	205	10–25	11.53	0.2695	501	18.0
UPW 435	435	355	160	≤10	1180	385	255	299	42	10	80×40	20	235	16–28	21.81	0.3645	825	20.0
UPW 480	480	500	224	≤10	1360	425	275	351	47	12	90×45	22.5	265	16–31	38.04	0.7028	1144	28.0
UPW 550	550	710	315	≤10	1460	492	320	402	50	12	100×45	22.5	290	16–31	61.28	1.1842	1589	35.7

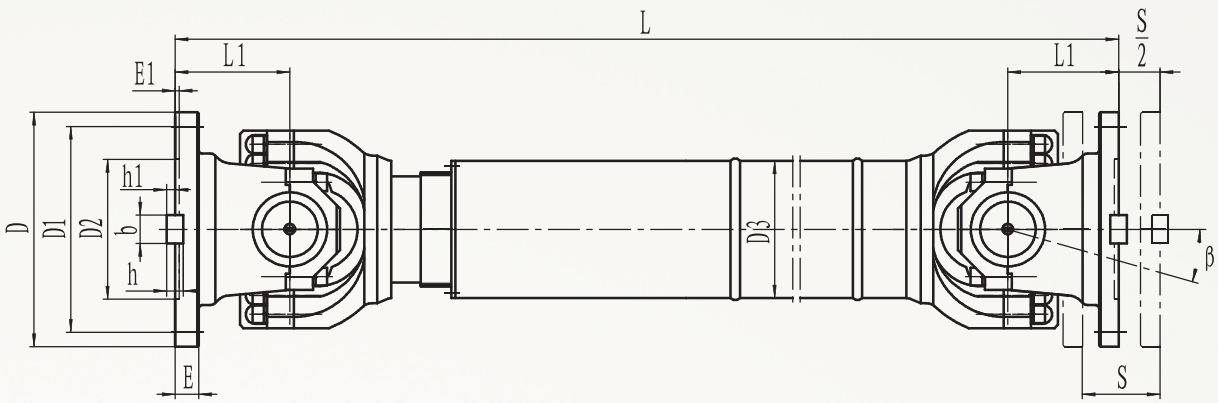
十字轴万向联轴器的结构型式、基本参数和主要尺寸
The structural style, basic parameter and main dimension of the cross shaft universal couplings



F型—有伸缩双法兰长型
F type—Telescopic double flanged long type

型号 Size	回转 直径 D mm	公称 转矩 Tn kN·m	疲劳 转矩 Tf kN·m	轴线 折角 β°	主要尺寸 Main Dimension mm										转动惯量 I kg.m ²		注油量 G kg		
					伸缩量 S mm	LMin.	D1 (js11)	D2 (H7)	D3	E	E1	b×h	h1	L1	n-d	LMin.	增长 100mm	LMin.	增长 100mm
UPF 160	160	16	8	≤10	50	715	140	95	114	15	4	20×12	6	85	6-13	0.15	0.0059	49	2.1
UPF 180	180	20	10	≤10	60	800	155	105	121	15	4	24×14	7	95	6-15	0.25	0.0072	69	2.3
UPF 200	200	31.5	16	≤10	70	880	175	125	127	17	5	28×16	8	110	8-15	0.42	0.0114	81	3.4
UPF 225	225	40	20	≤10	76	1000	196	135	152	20	5	32×18	9	130	8-17	0.75	0.0290	108	6.6
UPF 250	250	63	31.5	≤10	80	1055	218	150	168	25	5	40×25	12.5	135	8-19	1.26	0.0407	179	7.3
UPF 285	285	90	45	≤10	100	1210	245	170	194	27	7	40×30	15	150	8-21	2.67	0.0702	285	9.4
UPF 315	315	140	63	≤10	110	1345	280	185	219	32	7	40×30	15	170	10-23	4.38	0.1144	375	12.0
UPF 350	350	180	90	≤10	120	1480	310	210	245	35	8	50×32	16	185	10-23	7.42	0.1663	488	13.6
UPF 390	390	250	112	≤10	120	1623	345	235	273	40	8	70×36	18	205	10-25	13.27	0.2695	662	18.0
UPF 435	435	355	160	≤10	150	1860	385	255	299	42	10	80×40	20	235	16-28	24.62	0.3645	1107	20.0
UPF 480	480	500	224	≤10	170	2122	425	275	351	47	12	90×45	22.5	265	16-31	42.81	0.7028	1302	28.0
UPF 550	550	710	315	≤10	190	2338	492	320	402	50	12	100×45	22.5	290	16-31	68.81	1.1842	2140	35.7
UPF 600	600	1000	500	≤10	210	2930	544	380	450	55	15	90×55	27.5	360	22-34	110.60	1.7159	2703	40.5
UPF 640	640	1250	630	≤10	230	3170	575	385	480	60	15	100×60	30	385	18-38	177.77	2.3080	3719	48.3

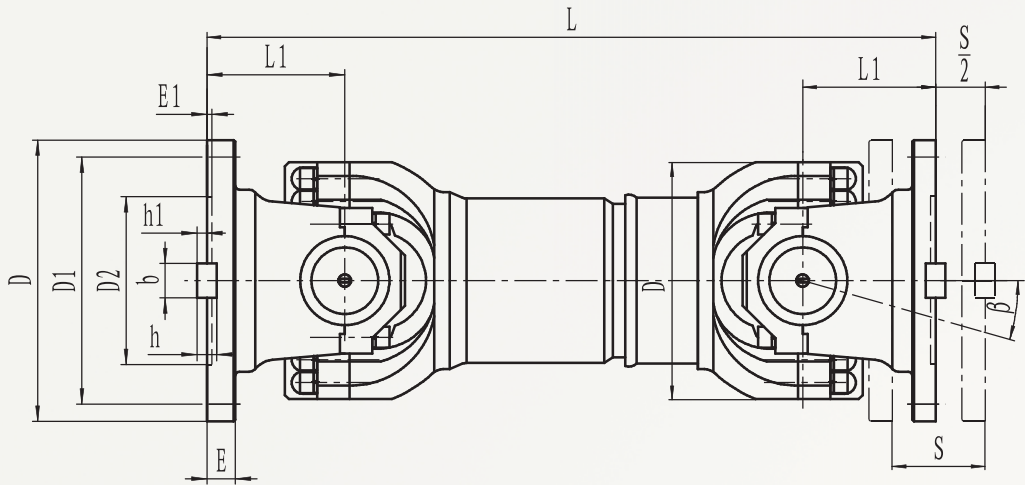
十字轴万向联轴器的结构型式、基本参数和主要尺寸
The structural style, basic parameter and main dimension of the cross shaft universal couplings



L型—大伸缩长型
L type—Large telescopic long type

型号 Size	回转 直径 D mm	公称 转矩 T _n kN·m	疲劳 转矩 T _f kN·m	轴线 折角 β°	主要尺寸 Main Dimension mm										转动惯量 I kg.m ²		注油量 G kg		
					伸缩量 S mm	LMin.	D1 (js11)	D2 (H7)	D3	E	E1	b × h	h1	L1	n-d	LMin.	增长 Increase 100mm	LMin.	增长 Increase 100mm
UPL 160	160	16	8	≤10	150	770	140	95	114	15	4	20 × 12	6	85	6-13	0.14	0.0059	51	2.1
UPL 180	180	20	10	≤10	170	830	155	105	121	15	4	24 × 14	7	95	6-15	0.23	0.0072	64	2.3
UPL 200	200	31.5	16	≤10	190	950	175	125	127	17	5	28 × 16	8	110	8-15	0.40	0.0114	88	3.4
UPL 225	225	40	20	≤10	210	1070	196	135	152	20	5	32 × 18	9	130	8-17	0.66	0.0290	120	6.6
UPL 250	250	63	31.5	≤10	220	1110	218	150	168	25	5	40 × 25	12.5	135	8-19	1.06	0.0407	158	7.3
UPL 285	285	90	45	≤10	240	1270	245	170	194	27	7	40 × 30	15	150	8-21	2.24	0.0702	255	9.4
UPL 315	315	140	63	≤10	270	1410	280	185	219	32	7	40 × 30	15	170	10-23	3.99	0.1144	344	12.0
UPL 350	350	180	90	≤10	290	1540	310	210	245	35	8	50 × 32	16	185	10-23	6.90	0.1663	460	13.6
UPL 390	390	250	112	≤10	315	1680	345	235	273	40	8	70 × 36	18	205	10-25	11.90	0.2695	600	18.0
UPL 435	435	355	160	≤10	335	1880	385	255	299	42	10	80 × 40	20	235	16-28	22.41	0.3645	985	20.0
UPL 480	480	500	224	≤10	350	2080	425	275	351	47	12	90 × 45	22.5	265	16-31	39.09	0.7028	1356	28.0
UPL 550	550	710	315	≤10	360	2230	492	320	402	50	12	100 × 45	22.5	290	16-31	62.12	1.1842	1785	35.7

十字轴万向联轴器的结构型式、基本参数和主要尺寸
The structural style, basic parameter and main dimension of the cross shaft universal couplings



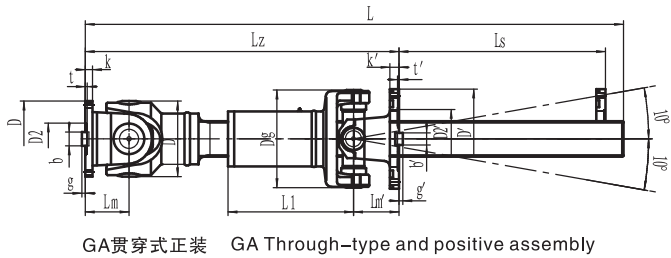
C型—有伸缩超短型
C type—Telescopic ultra-short type

型号 Size	回转 直径 D mm	公称 转矩 Tn kN·m	疲劳 转矩 Tf kN·m	轴线 折角 β°	主要尺寸 Main Dimension mm											转动惯量 I kg.m²	注油量 G kg
					伸缩量 S mm	L	D0	D1 (js11)	D2 (H7)	E	E1	b×h	h1	L1	n-d		
UPC 225	225	18	8	≤5	40	435	275	248	135	15	5	32×18	9	68	10-15	0.331	60
UPC 250	250	25	11.2	≤5	40	515	305	275	150	15	5	40×25	12.5	80	10-17	0.624	97
UPC 285	285	35.5	16	≤5	40	565	348	314	170	18	7	40×30	15	90	10-19	1.182	120
UPC 315	315	50	25	≤5	40	620	360	328	185	18	7	40×30	15	100	10-19	2.290	170
UPC 350	350	71	35.5	≤5	55	715	405	370	210	22	8	50×32	16	108	10-21	3.793	256

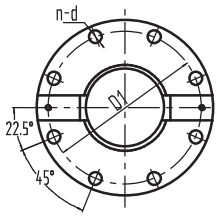
型号/Size	安装长度L/ Installation length L															
UP[]160	800	1000	1250	1400	1600											
UP[]180		1000	1250	1400	1600	1800										
UP[]200		1000	1250	1400	1600	1800	2000									
UP[]225			1250	1400	1600	1800	2000	2240								
UP[]250			1250	1400	1600	1800	2000	2240	2500							
UP[]285				1400	1600	1800	2000	2240	2500	2800						
UP[]315					1600	1800	2000	2240	2500	2800	3150					
UP[]350					1600	1800	2000	2240	2500	2800	3150	3550				
UP[]390						1800	2000	2240	2500	2800	3150	3550	4000			
UP[]435							2000	2240	2500	2800	3150	3550	4000	4500		
UP[]480								2240	2500	2800	3150	3550	4000	2240	5000	
UP[]550									2500	2800	3150	3550	4000	2240	5000	5600
UP[]600											3150	3550	4000	2240	5000	5600
UP[]640												3550	4000	2240	5000	5600

注：①[]为可选B、W、F、L中任意型式。②安装长度L包括S/2。③选用表列以外的安装长度时，可与制造商商定。
Note: ①[] as optional B, W, F, L, of any form. ②Installation length L including S/2.
③ When Select table columns installed outside length, can be agreed with the manufacturer.

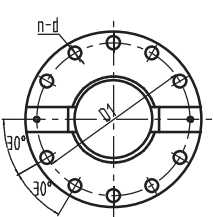
十字轴万向联轴器的结构型式、基本参数和主要尺寸
The structural style, basic parameter and main dimension of the cross shaft universal couplings



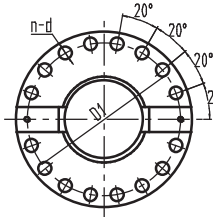
GA贯穿式正装 GA Through-type and positive assembly



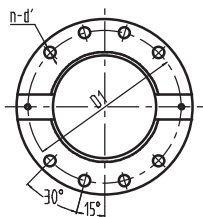
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Type E18-28 n=8



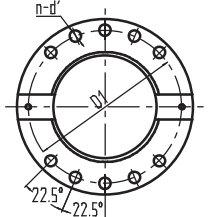
型号E31-39 n=10
Type H18-28Type H28-35 n=10



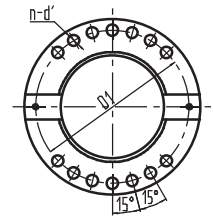
型号E44-55 n=16
Type E44-55Type H39-55 n=16



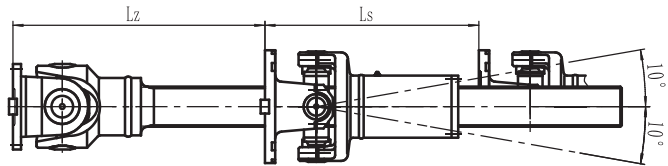
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Type 18-285 n=8



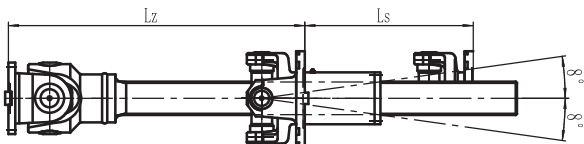
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Type 31-44 n=10



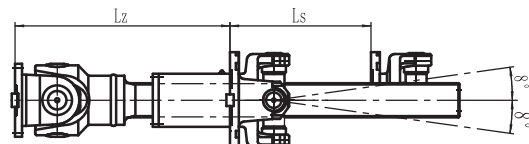
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Type 49-55 n=14



GB贯穿式 GB Through-type



GC贯穿式 GC Through-type



GD贯穿式 GD Through-type

十字轴万向联轴器的结构型式、基本参数和主要尺寸
The structural style, basic parameter and main dimension of the cross shaft universal couplings

型号规格Size		18	22	25	28	31	35	39	44	49	55
公称转矩 Nominal torque T _n	kN·m	28	56	82	119	167	227	302	522	647	1031
疲劳转矩 Fatigue torque T _f	kN·m	12	24	37	54	78	108	146	262	321	510
D	mm	180	225	250	285	315	350	390	440	490	550
D1	mm	155.5	195	218	245	280	310	345	385	425	492
D2	mm	90	105	105	125	130	155	170	190	205	250
b	mm	25	32	40	40	40	50	70	80	90	100
g	mm	7	9	12.5	15	15	16	18	20	22.5	22.5
t	mm	5	5	6	7	8	8	8	10	12	12
k	mm	17	20	25	27	32	35	40	42	47	50
d	mm	17	17	19	21	23	23	25	28	31	31
D	mm	180	225	250	285	315	350	390	440	490	550
L _m	mm	110	120	140	160	180	195	210	260	270	305
D'	mm	250	315	330	390	435	480	520	600	650	710
D1'	mm	220	285	300	355	390	430	480	550	595	650
D2'	mm	185	220	210	260	275	320	360	420	450	520
b'	mm	25	32	40	40	40	50	100	80	90	100
g'	mm	7	9	12.5	15	15	16	22.5	20	22.5	22.5
t'	mm	5	5	6	7	8	8	12	12	12	15
k'	mm	20	30	30	30	35	38	50	55	55	60
d'	mm	17	17	19	21	23	23	25	28	31	31
D _g	mm	250	315	330	390	435	480	520	600	650	710
L _m '	mm	120	130	145	160	180	210	230	280	290	320
L1	mm	270	320	370	420	490	550	600	640	680	700
D	mm	225	250	285	315	350	390	440	490	550	600
D1	mm	196	218	245	280	310	345	385	425	492	544
D2	mm	140	140	175	175	220	250	280	320	380	450
b	mm	32	40	40	40	50	70	80	90	100	100
g	mm	7	9	12.5	15	15	18	18	20	22.5	22.5
t	mm	5	6	7	7	8	8	8	10	12	15
k	mm	17	20	25	27	32	35	40	42	47	50
d	mm	17	19	21	23	23	25	28	31	31	34

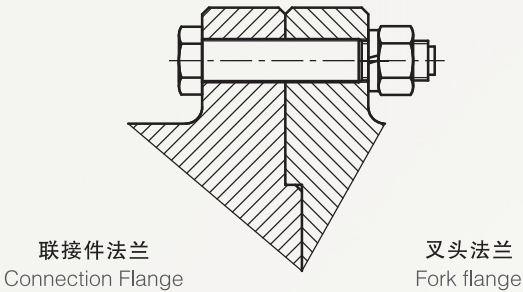
十字轴万向联轴器的结构型式、基本参数和主要尺寸
The structural style, basic parameter and main dimension of the cross shaft universal couplings

A(E/H)	L _z	mm	710	790	910	1000	1155	1300	1420	1695	1775	2000
	L _s	mm	600	600	750	750	850	850	900	900	950	950
	L	mm	1215	1290	1550	1770	1870	2000	2150	2385	2540	2730
B(E/H)	L _z	mm	320	340	395	420	485	550	600	750	790	880
	L _s	mm	600	600	750	750	850	850	900	900	950	950
	L	mm	1355	1430	1700	1790	2055	2200	2420	2650	2780	2870
C(E/H)	L _z	mm	465	500	575	620	710	810	885	1098	1155	1280
	L _s	mm	600	600	750	750	850	850	900	900	950	950
	L	mm	1260	1330	1590	1670	1920	2050	2240	2440	2560	2630
D(E/H)	L _z	mm	470	530	620	680	795	890	960	1135	1195	1360
	L _s	mm	600	600	750	750	850	850	900	900	950	950
	L	mm	1215	1290	1550	1630	1870	2000	2150	2445	2530	2710

十字轴万向联轴器联接形式
The form of connection of the cross shaft universal couplings

● 十字轴万向联轴器叉头法兰与相配件法兰的联接形式

The connection form of cross shaft universal couplings flange fork and fittings flange



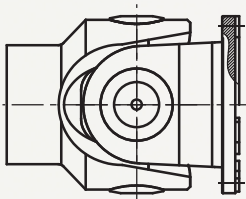
- ◆ 10.9级或12.9级六角头或圆柱头螺栓，10级或8级自锁螺母。
- ◆ 从联接件法兰端插入螺栓，对于无法兰联接件使用双头螺栓。
- ◆ 使用扭矩扳手以达到螺栓的拧紧扭矩。最大扭矩不能超过螺栓材料塑性极限的80%。
- ◆ 10.9 or 12.9 grade hexagon head or cylinder head bolt, 10 or 8 self-locking nut.
- ◆ From the connection piece flange end insert bolt, with regard to the non-flanged connection piece, use the double end studs.
- ◆ Use the torque wrench to reach the bolt tightening torque. Maximum torque bolt material plastic limit cannot exceed 80% .

● 与十字轴万向联轴器相配件的其它连接方式

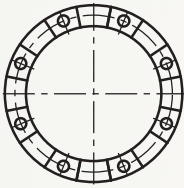
The other connection methods of the in parts of the cross shaft universal couplings accessories

与十字轴万向联轴器相配件的连接除上述的基本结构外，还有以下结构供客户选用：

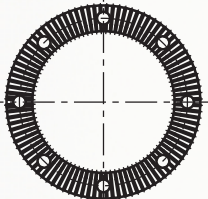
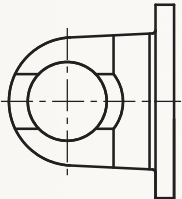
In addition to the basic structure above, there are the following structure for customers to choose:



爪牙式连接
Minion connection



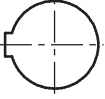
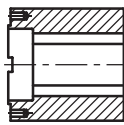
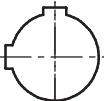
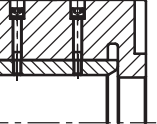
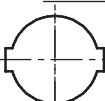
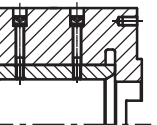
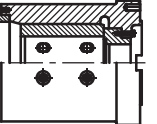
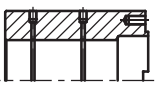
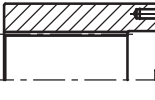
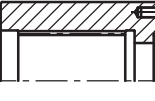
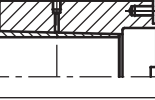
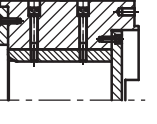
端面齿连接
End surface tooth connection



十字轴万向联轴器联接形式
The form of connection of the cross shaft universal couplings

● 十字轴万向联轴器连接套的其他结构

Other structures of the cross shaft universal couplings connected sets

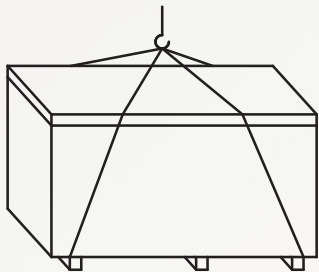
 圆柱孔，单键槽 Cylindrical Bore. 1 keyway	 扁孔 Integral bore
 圆柱孔，双键槽90° Cylindrical Bore. 2 keyway at 90°	 可替换平键 Replaceable flat keys
 圆柱孔，双键槽180° Cylindrical Bore. 2 keyway at 180°	 可替换平键及圆键 Replaceable flat and round keys
 圆柱孔，双键槽120° Cylindrical Bore. 2 keyway at 120°	 可替换平键及内外衬板 Replaceable flat keys, inner and outer bush
 圆柱孔联接，油压卸除 Cylindrical Bore for fitting and oil pressure removal	 花键孔，无定心 DIN 5480 Splined Bore, or equal, without centerings
 双直径圆柱孔联接，油压卸除 Cylindrical Bore with 2 diameters for fitting and oil pressure removal	 花键孔，带定心直径 DIN 5480 Splined Bore, or equal, with centerings diameters
 锥孔及锥套联接，油压卸除 Tapered Bore and Tapered Bush for fitting and oil pressure removal	 可替换平键及外衬板内定心环 Replaceable flat keys, outer bush and inner centering

搬运与贮存
Carrying and storage

● 搬运 Carrying

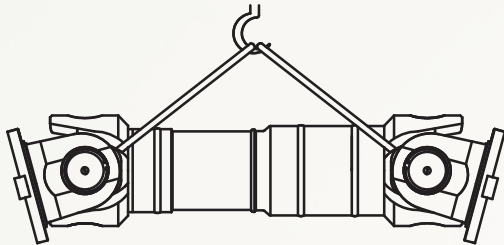
一般情况下，十字轴万向联轴器都是整体交货并采用木箱包装。吊运时绳索应兜挂木箱枕木外侧（见右图），要力求使木箱始终处于水平状态。

Generally universal joint are packaged with wooden case and supplied intergral. When swinging, the ropes should hang on the sleepers' outboard of the boxes and the boxes should be in horizontal position.



没有木箱直接吊运万向节时，应按右图所示吊挂万向节内侧的两个叉头，以避免发生撞击。

When without wooden box to direct lifting universal couplings, they should be shown right, hanging two fork head of inside universal joint to avoid collision.



直接吊运万向节时，严禁将绳索或链条拴在中间部位，特别是可伸缩型万向节，更不可将其拴在花键轴和花键套上，否则很可能损坏万向节，甚至因花键轴滑出造成人身事故。

When lifting the universal joint directly, it is forbidden to tie the rope or chain in the middle of the universal joint parts, especially the scalable universal joint, more could not be tied to the spline shaft and spline sleeve, otherwise it may damage the universal joints, and even caused the human injury due to spline shaft slide.

● 贮存 Storage

万向节在安装前如需长期存放，应保留其关键外露表面涂敷的保护层。其存放地点应保持干燥、通风。如户外存放，必须将万向节置于箱内，并在地上加垫，将其垫起一定高度，同时还要采取防雨措施。

没有木箱包装的万向节不应露天存放，也不应重叠码放，不仅应将其置于干燥、通风的场所，还应注意花键和联接法兰等部位的防锈。

If the universal joint needs long-term storage before installation, should retain its key coating protective layer in the exposed on the surface. Its storage place should be kept dry and ventilated. Such as outdoor storage, universal joint must be placed in the trunk, and put a mat on the floor to a certain height, meanwhile take rainproof measures.

The universal joint without wooden package should not be stored in open air, also should not overlapping stacking, not only should be placed in dry and ventilated place, should also pay attention to the spline and the connecting flange and other parts of the anti-corrosive.

十字轴万向联轴器的安装、调整与润滑
The installation, adjustment and lubrication of the cross shaft universal couplings

● 安装前的准备工作

The preparing work before assembly

安装前应核对产品标牌上的型号、规格及安装尺寸等是否符合既定要求。当符合要求可以安装时，应先行清除法兰端面及联接止口处粘附的异物，修光毛刺与磕碰，做好安装准备。

Before installation, should check the product label type, specification and installation size whether is in accordance with the established requirements. When meet the requirements and can be installed, should first remove the flange end face and the connection mouth adhesion of foreign body, repair the burr and knock against, is ready for installation.

对于可伸缩型万向节，出厂前组装时已使其两端叉头的相位相同，并在中部接管处以两个相对的箭头左右标记。安装前要检查叉头的相位是否符合要求，若不符合要求，应将万向节分离予以纠正后方可进行安装。

When before leave factory and assembled, make the telescopic universal joint fork head on both ends of is the same phase, and use two opposite arrows to mark in the middle of the tubing. Before installation should check the phase of the fork whether is in line with the requirements, if do not conform to the requirements, only after separating the universal joint and should be corrected, it can be installed.

● 轴套的安装

The installation of the shaft sleeves

轴套在安装之前，应检查各部尺寸是否符合设计要求，经确认无误后即可着手清除毛刺并将配合部位清洗干净，准备安装。

对于过盈联接的轴套，应采用油浴或感应炉中均匀加热的方法加热轴套，使轴孔胀大后将其安装到相配轴颈上。加热温度不得超过200℃。

The shaft sleeves before installation. should check the dimension of each parts whether comply with the design requirements and begin to remove burrs after confirmed, will cooperate with parts clean and ready to install.

For the interference connection sleeve, should adopt oil bath or even uniform heating method to heat shaft sleeve in the induction furnace, after the shaft whole swell, Install to a suitable shaft neck. The heating temperature should not exceed 200℃.

● 万向节的安装

The installation of the universal couplings

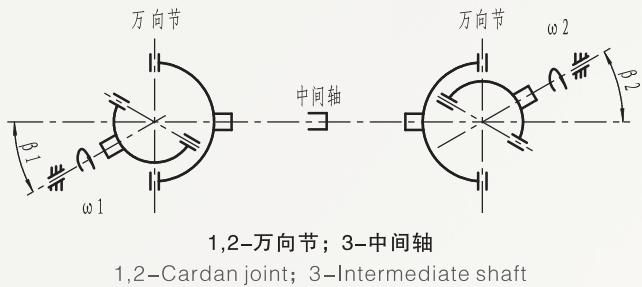
万向轴由两个万向节和一根中间轴所构成，为使主、从动轴的角速度相等，即 $\omega_1=\omega_2$,须满足下列三个条件：

Universal couplings is made up of two universal joint and an intermediate shaft, in order to make the driving shaft and driven shaft angular velocity are equal, namely, $\omega_1=\omega_2$, shall meet the following three conditions:

十字轴万向联轴器的安装、调整与润滑

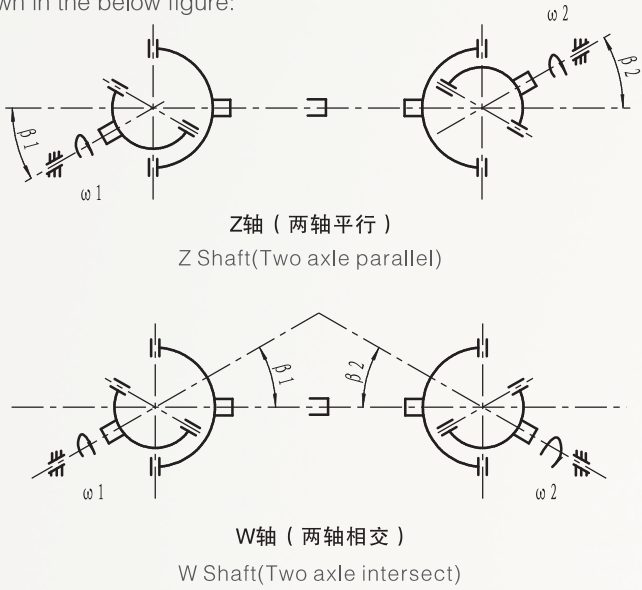
The installation, adjustment and lubrication of the cross shaft universal couplings

- ◆ 中间轴与主、从动轴间的节点倾角相等，即 $\beta_1 = \beta_2$;
- ◆ 中间轴两端的叉头位于同一相位;
- ◆ 主、从动轴与中间轴的中心线在同一平面内。
- ◆ The nodes angel of the intermediate shaft is equal with drive shaft and driven shaft, namely $\beta_1 = \beta_2$;
- ◆ The fork at the two ends of the intermediate shaft is in the same phase;
- ◆ The driving shaft and driven shaft and intermediate shaft centerline in the same plane.



万向联轴器的安装形式按其轴线相互位置一般为Z型和W型，如下图所示:

According to its axis of mutual position, the installation of the universal couplings type generally is divided into Z and W, as shown in the below figure:



- ◆ 安装万向节时要按1.2吊装图所示的方法将其吊运到安装位置。间隙配合的法兰轴套，将轴套装到轴伸上，再按同样的方法安装另一端；非间隙配合的法兰轴套，则先将驱动端键与键槽或齿与齿槽（牙嵌式及端面齿法兰）对准，然后将螺栓插入螺栓孔中，均匀地拧上螺母并拧成半紧状态，按同样的方法安装被驱动端。
- ◆ 先用普通扳手将所有螺栓和螺母均匀地拧在一起，基本上拧到法兰平面完全靠紧，然后用力矩扳手以对角线交叉的方式按规定的力矩将其拧紧。拧紧力矩见附表2和附表3
- ◆ 安装万向节时，严禁锤击关节轴承部位。严禁用安装杠杆转动万向节，否则会损坏轴承密封件。
- ◆ 法兰联接应采用10.9级高强度螺栓和10级高强螺母，并应采用防松螺母或涂敷螺纹紧固密封胶等防松措施，但不准敷润滑脂。
- ◆ 安装可伸缩型万向节时，要特别注意防止花键副脱开，造成人身和设备事故。
- ◆ 可能因万向节运转造成人身及设备事故的场所，要为万向轴设置防护罩。

十字轴万向联轴器的安装、调整与润滑

The installation, adjustment and lubrication of the cross shaft universal couplings

- ◆ When installing universal joint, lifting to the installation location according to the method of hoisting figure shown in 1.2. clearance fit the flange shaft sleeve, to install shaft sleeve on shaft body, and then install the other end the same way; Non clearance fit the flange shaft sleeve, first, the drive end keys and keyways or tooth and alveolar (tooth type and end face tooth flange) aligned, the bolt is then inserted into the bolt holes, tighten the nuts evenly and twisted semi tightly state, to install the driven end by the same way.
- ◆ Using ordinary wrench to screw all bolts together with nuts evenly, twist to the flange plane basically to completely on tight, and then use torque wrench in accordance with the way of diagonal cross according to the specified torque to tighten it. Tightening torque as shown in table 2 and table 3.
- ◆ When installing the universal joint, it is strictly prohibited to hammer the joint bearing parts, and It is also forbidden to use install lever turning universal joint, otherwise you will damage the bearing seals.
- ◆ Flange connection should adopt 10.9 grade of high strength bolt and 10 grade of high-strength nut, also the locking measures with lock nut and coating threaded fastening sealant, but are not allowed to coating the grease.
- ◆ When installing a scalable type universal joint, pay special attention to prevent spline pair off, caused personal and equipment accident.
- ◆ The place that caused personal and equipment accident caused by universal joint operation, should set protective cover for universal couplings.

● 润滑 Lubrication

良好的润滑对延长万向节的使用寿命至关重要，因此在初始运行之前，特别是花键轴应先行进行充分润滑，以补足出厂前尚未填充的部分。润滑方法是向位于十字轴端部和中间管段处（可伸缩型）的润滑油嘴注入润滑脂（环境温度在-20℃~120℃范围的推荐采用2号锂基脂加5%power润滑剂，并不得与其它油脂混用，当环境温度超过120℃时，推荐采用4号高温润滑脂）。注入油脂时以其从各密封圈部位溢出为止。润滑装置自选。注油压力一般控制在0.5Mpa以下。对于可伸缩型万向节，应在花键轴缩回极限位置时注油，以防内部空间充满油脂影响伸缩运动。

Good lubrication is very important for extending the service life of universal joint, so before initial operation, especially the spline shaft should be sufficient lubricated, in order to complement the part that has not been filled before leaving factory. Lubrication method is to inject grease to the lubricating oil mouth which located in the cross shaft end and the middle section (telescopic) (in - 20 °C ~ 120 °C environment temperature range, 2 lithium base grease and 5% power lubricants is recommended, and shall not be blended with other grease. When the temperature exceeds 120 °C, 4, high temperature grease is recommended). When injecting grease, till overflow from each seal ring parts. Lubrication device is optional and general control the oil pressure is below 0.5 Mpa. For scalable type universal joint, oiling in the limit of the spline shaft position, in case of internal space full of grease, thus affecting telescopic movement.

润滑时间间隔

万向节投入使用500小时以后，应将关节轴承和花键副再次润滑。其后的润滑周期可根据万向节使用环境的好坏灵活掌握。环境好的可达6个月润滑一次，次之可定为3个月。对于冶金行业等在恶劣的多尘、多水及高温环境下使用的万向轴，应一个月，甚至每周润滑一次。

Lubrication time interval
Universal joint put into use after 500 hours, should lubricate the joint bearing and spline pair together again. To flexible master the subsequent lubrication cycle according to the universal joint use of the environment is good or bad. If the environment is good, lubricate it can be up to 6 months, once every three months. For metallurgical industry etc, using universal shaft in the bad dust, water and high temperature environment, should once every month, or even once a week.

十字轴万向联轴器的使用、维护、保养
The use, maintenance, preservation of the cross shaft universal couplings

● 维护 Maintenance

为保证万向节具有最佳运行质量和延长使用寿命，应认真做好万向节的日常维护工作，其具体内容如下：

In order to ensure the universal joint possess best operation quality and prolong the service life, should conscientiously do the good daily maintenance job of universal joint, its concrete content is as follows:

- ◆ 每天检查一次联接法兰等各部位的紧固件是否松动，如有松动应立即紧固。
- ◆ 检查万向节的轴承是否发热和有噪声，花键副是否磨损严重，有异常振动和噪声。当出现上述情况时，应及时查明原因，并拆下万向节采取更换零件等修理措施，避免万向节带病作业。
- ◆ 按“润滑”推荐的内容定期进行润滑。
- ◆ Check once a day that whether the connecting flange and so on various parts of the fasteners is loose or not, if there are any loose, fastening immediately.
- ◆ Check whether the universal joint bearing is fever and noisy, the spline pair is wear serious, any abnormal vibration and noise or not. When appeared the above situation, should be timely find out the reason, remove the universal joint and replacement parts and repair measures and so on, such as avoiding universal joint sick work.
- ◆ To lubricate on a regular basis according to the content of the recommend.

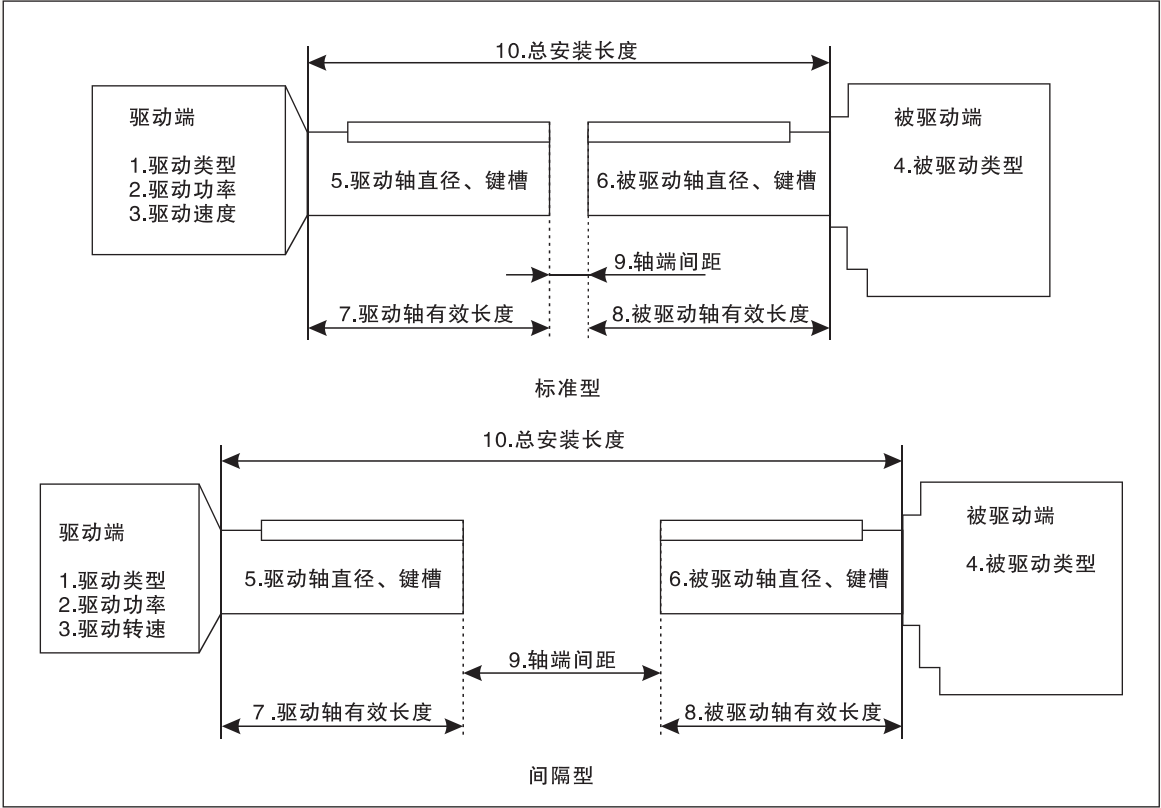
● 修理 Repair

- ◆ 根据我国不同行业和使用现场环境条件的具体情况，万向节的维修周期定为3~12个月不等。环境条件好的可长一些，条件恶劣的一般可定为3个月，用户可根据自己的具体情况自行确定。维修的重点是检查、清洗、更换十字轴总成的零部件。建议维修时原有密封圈一定要换新。
- ◆ 鉴于万向节易损件损坏情况复杂和现场条件的限制，我们建议用户在现场拆除万向节两端法兰轴套后，将其发运至生产厂进行大修。
- ◆ 如因特殊情况不得不在现场卸下万向节进行修理时，尤其是对于可伸缩型万向节，我们建议一般情况下不要将花键副拉开，以避免复原时装错。在紧急情况下必须拉开花键副时，一定要在花键轴和花键套上预先做好清洗的对位标记后，再将花键轴从花键套中拉出。重新安装时切记按预定标记复原。
- ◆ 拆卸万向节时，为保证人身与设备安全，一定要按上述安装万向节的吊运与拆卸方法进行操作。
- ◆ According to different industries in China and using the specific circumstances of the site environmental conditions, the universal joint of the maintenance cycle for 3 ~12 months. Good environmental conditions can be longer. Generally harsh conditions may be for 3 months, the user can on the basis of their own specific circumstances to determine. The focus of the maintenance is inspection, cleaning, replace the cross shaft assembly of the spare parts. Suggestions in the maintenance, the original seal ring must be replaced.
- ◆ In view of quick-wear part of the universal couplings, the complexity of the damage and the limitation of the condition on site, we recommend that after users at the scene the demolition of universal joint on both ends of the flange shaft sleeve, delivery to the factory for repair.
- ◆ In the event of the special circumstances had to unload the universal joint at the scene to repair, especially for scalable type universal joint, we suggest that don't pull open the spline pair to avoid the assembly error when the product is recovered. In case of an emergency must pull spline pair open, must premade alignment marks after cleaning on the spline shaft and the spline sleeve, then pull the spline shaft from the spline sleeve. Remember when re-installing according to predetermined tag.
- ◆ When removing the universal joint, in order to ensure personal and equipment safety, to operate according to the lifting and removal methods of the universal joint above mentioned.

附表
Attached list

● 附表1 Attached list 1

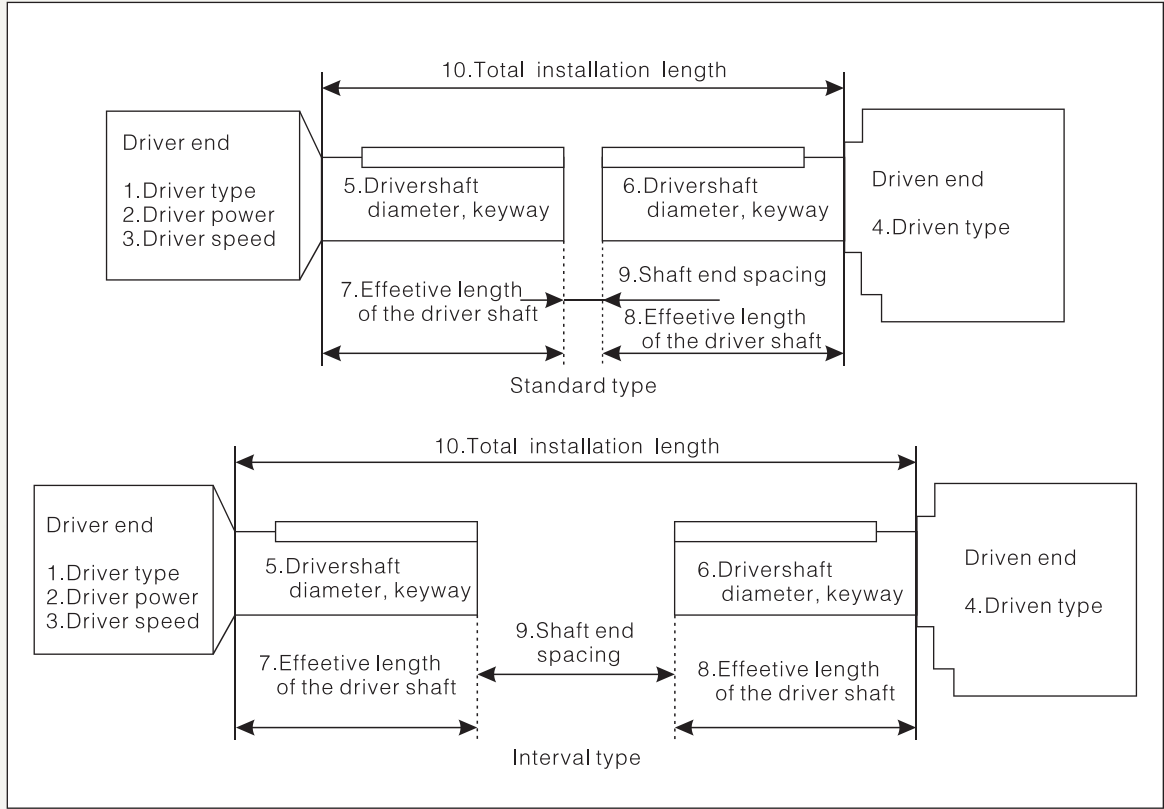
索达公司选型基本信息表
Suoda basic selection information form



1. 驱动类型: ☐电动机 ☐透平机 ☐内燃机—内燃机汽缸数: _____
载荷类别: ☐均匀 ☐轻冲击 ☐中冲击 ☐重冲击 ☐特重冲击
启动频率(次数): _____
2. 驱动功率(Kw): _____ 3. 驱动转速(rpm): _____
4. 被驱动设备类型: _____
5. 驱动轴直径(mm): _____ 键槽(mm): _____
6. 被驱动直径(mm): _____ 键槽(mm): _____
7. 驱动轴有效长度(mm): _____
8. 被驱动轴有效长度(mm): _____
9. 轴间距(mm): _____ 10.总安装长度(mm): _____
- 11.轴向补偿(mm): _____ 12.径向补偿(mm): _____
- 13.角向补偿(°): _____
- 14.工作环境: ☐室内 ☐室外 ☐灰尘 ☐水 ☐油 ☐腐蚀 ☐其他 _____
- 15.工作温度(°C): _____
- 16.允许回转空间(mm): _____
- 17.其他: _____

附表
Attached list

索达公司选型基本信息表
Suoda basic selection information form



1. Driver Type: ☐Electric motor ☐Turbine ☐ Internal combustion engines,
internal combustion engine cylinder number: _____
Load Type: ☐Uniform ☐Light impact ☐Medium impact ☐Heavy impact ☐Extra heavy impact
Start frequency : _____
2. Driving power (Kw):_____3. Motor speed (rpm):_____
4. Driven device type:_____
5. Driver shaft diameter(mm):_____Keyway size (mm):_____
6. Driven shaft diameter (mm):_____Keyway size(mm):_____
7. Effective length of the drive shaft (mm):_____
8. Effective length of the driven shaft (mm):_____
9. Axle Base (mm):_____10.The total length of installation(mm): _____
11.Axial compensation (mm):_____12.12.Radial compensation (mm):_____
13.Angular compensation(°):_____
14.Working environment: ☐Indoor ☐Outdoor ☐Dusty ☐Water ☐Oil ☐Corrosion ☐Other

15.Working temperature (°C):_____
16.Allows rotary space(mm): _____
17.Other: _____

附表
Attached list

● 附表2 Attached list 2

UC系列十字轴万向联轴器螺栓预紧力矩
UC series of the cross shaft universal couplings bolt tightening torque

型号 Size	回转 直径 Diameter of rotation mm	螺栓数 Bolt Qty	螺栓规格 Bolt specification mm	预紧力矩 Ta N·m	主要尺寸 Main Dimension mm								
					D1 (js11)	D2 (f8)	D3	D4	k	b	g	t	M Min.
UC100	100	6	M8*30	32	84	57		70.5	7			0.05	30.5
UC120	120	8	M10*35	64	102	75		84.0	8			0.05	36.8
UC150	150	8	M12*40	111	130	90		110.3	10			0.05	40.8
UC180	180	8	M16*60	270	155	105	128	130.5	17			0.06	70.5
UC225	225	8	M16*70	270	196	135	159	171	20	32	9.5	0.06	75.5
UC250	250	8	M18*75	372	218	150	176	190	25	40	13.0	0.06	87.0
UC285	285	8	M20*85	526	245	170	199	214	27	40	15.5	0.06	93.0
UC315	315	10	M22*100	710	280	185	231	247	32	40	15.5	0.06	109.5
UC350	350	10	M22*105	710	310	210	261	277	35	50	16.5	0.06	114.5
UC390	390	10	M24*120	906	345	235	290	308	40	70	18.5	0.06	135.5
UC440	440	16	M27*120	1340	390	255	325	347	42	80	20.5	0.10	137.5
UC490	490	16	M30*140	1820	435	275	360	387	47	90	23.0	0.10	159.5
UC550	550	16	M30*140	1820	492	320	420	444	50	100	23.0	0.10	159.5
UC620	620	16	M30*160	3170	555	380	468	498	55	100	25.5	0.10	183

● 附表3 Attached list 3

UP系列十字轴万向联轴器螺栓预紧力矩
UP series of the cross shaft universal couplings bolt tightening torque

型号 Size	回转 直径 Diameter of rotation mm	螺栓数 Bolt Qty	螺栓规格 Bolt specification mm	预紧力矩 Ta N·m	主要尺寸 Main Dimension mm							
					D1 (js11)	D2 (f8)	D3	D4	E	E1	E2	b
Up160	160	6	M12*1.5*50	110	140	95	118	121	15	3.5	12	20
UP180	180	6	M14*1.5*55	180	155	105	128	133	15	3.5	13	24
UP200	200	8	M14*1.5*60	180	175	125	146	153	17	4.5	15	28
UP225	225	8	M16*1.5*65	275	196	135	162	171	20	4.5	16	32
UP250	250	8	M18*1.5*80	400	218	150	180	190	25	4.5	20	40
UP285	285	8	M20*1.5*85	570	245	170	205	214	27	6.0	23	40
UP315	315	10	M22*1.5*95	735	280	185	235	245	32	6.0	23	40
UP350	350	10	M22*1.5*100	735	310	210	260	280	35	7.0	25	50
UP390	390	10	M24*2*115	912	345	235	290	308	40	7.0	28	70
UP435	435	16	M27*2*120	1340	385	255	325	342	42	9.0	32	80
UP480	480	16	M30*2*135	1820	425	275	370	377	47	11	36	90
UP550	550	16	M30*2*140	1820	492	220	435	444	50	11	36	100
UP600	600	22	M30*2*150	2240	544	380	480	492	55	13	43	90
UP640	640	18	M36*3*170	3170	575	385	505	518	60	13	43	100