

**专业 诚信 创新 双赢**

Professionalism Integrity Innovation Win-win

——让不断超越成为我们的常态  
Let constant transcendence be our norm



**同心为轴 承接世界**

Drive with the same dream and undertake the world



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同心传动  
CONCENTRIC TRANSMISSION

**同心传动**

TONGXIN TRANSMISSION



证券代码 (Stock code) : 833454

河南同心传动股份有限公司  
Henan Tongxin Transmission Co.,Ltd

# 企业文化

CORPORATE CULTURE



## 愿景

Vision

创建一家受人尊敬  
Building a company that  
的基业长青的公司  
is respected and build to last.



## 使命

Mission

振兴中原经济  
Revitalize the central plains economy  
服务全球汽车产业  
and serve the global automobile industry.



## 核心价值观

Core values

忠诚 专业 奋进 创新  
Loyal profession endeavor innovation  
协作 共赢 快乐  
cooperation win-win happiness



## 经营理念

Business philosophy

向产品要利润  
Prifit from the product,  
不向客户要利润  
not from the customer.



## 社会责任

Social responsibility

成就客户 成就员工  
Achievement customers,achievement employees,  
工推动社会进步  
promote social progress.

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# 公司简介

## COMPANY INTRODUCTION



河南同心传动股份有限公司, 创建于2001年, 地处河南省许昌市经济技术开发区, 占地7万平方米, 是国家“专、精、特、新”小巨人企业和国家高新技术企业。公司于2021年11月15日正式挂牌上市北交所。

公司拥有自己的“技术中心”, 专注产品质量精益求精, 技术工艺不断创新。拥有40多项专利产权, 开创行业内用毛坯原料“空芯无废边”的锻造先河, 技术达国际领先水平。公司通过自动化、信息化、智能化生产模式, 将企业铸造成一个专业化传动轴服务平台, 以“向产品要利润, 不向客户要利润”为服务理念, 实现与客户之间的共赢合作。

公司产品已覆盖微、轻、中、重、特种传动轴和轨道机车、石油机械、工程机械用传动轴, 共计30多个系列, 3800多种。市场已遍及全国各地, 与陕汽、宇通、徐工、中联、中国中车、大运、山东汽车等多家国内大型主机厂长期合作, 并远销俄罗斯、美国、韩国、土耳其等国家。

同心传动, 承接世界, 追求卓越, 展望未来, 公司将持续发挥工匠精神, 不断提升服务体系, 打造更强的核心竞争力, 期待与全球汽车产业同心协力, 共赢发展!

Henan Tongxin Transmission Co., Ltd., founded in 2001, is located in the Economic and Technological Development Zone of Xuchang City, Henan Province. It covers an area of 70000 square meters and is a national "specialized, refined, special, and new" small giant enterprise and a national high-tech enterprise. The company was officially listed on the Beijing Stock Exchange on November 15, 2021.

The company has its own "technology center", focusing on constantly improving product quality and innovating technological processes. Having more than 40 patent rights, we have pioneered the forging industry with blank raw materials that are "hollow without waste edges", and our technology has reached the international leading level. The company has transformed the enterprise into a professional transmission shaft service platform through automation, informatization, and intelligent production modes, with a service philosophy of "profit from products, not from customers", to achieve win-win cooperation with customers.

The company's products have covered more than 30 series and over 3800 types, including micro, light, medium, heavy, and special transmission shafts, as well as transmission shafts for railway locomotives, petroleum machinery, and engineering machinery. The market has spread all over the country. It has long-term cooperation with many domestic large engine manufacturers, such as Shaanxi Automobile, Yutong, Xugong, Zoomlion, CRRC, Dayun, Shandong Automobile, and has been exported to Russia, the United States, South Korea, Türkiye and other countries.

Tongxin Transmission, taking on the world, pursuing excellence, and looking forward to the future, the company will continue to play the spirit of craftsmanship, continuously improve the service system, and build stronger core competitiveness. We look forward to working together with the global automotive industry to achieve win-win development!

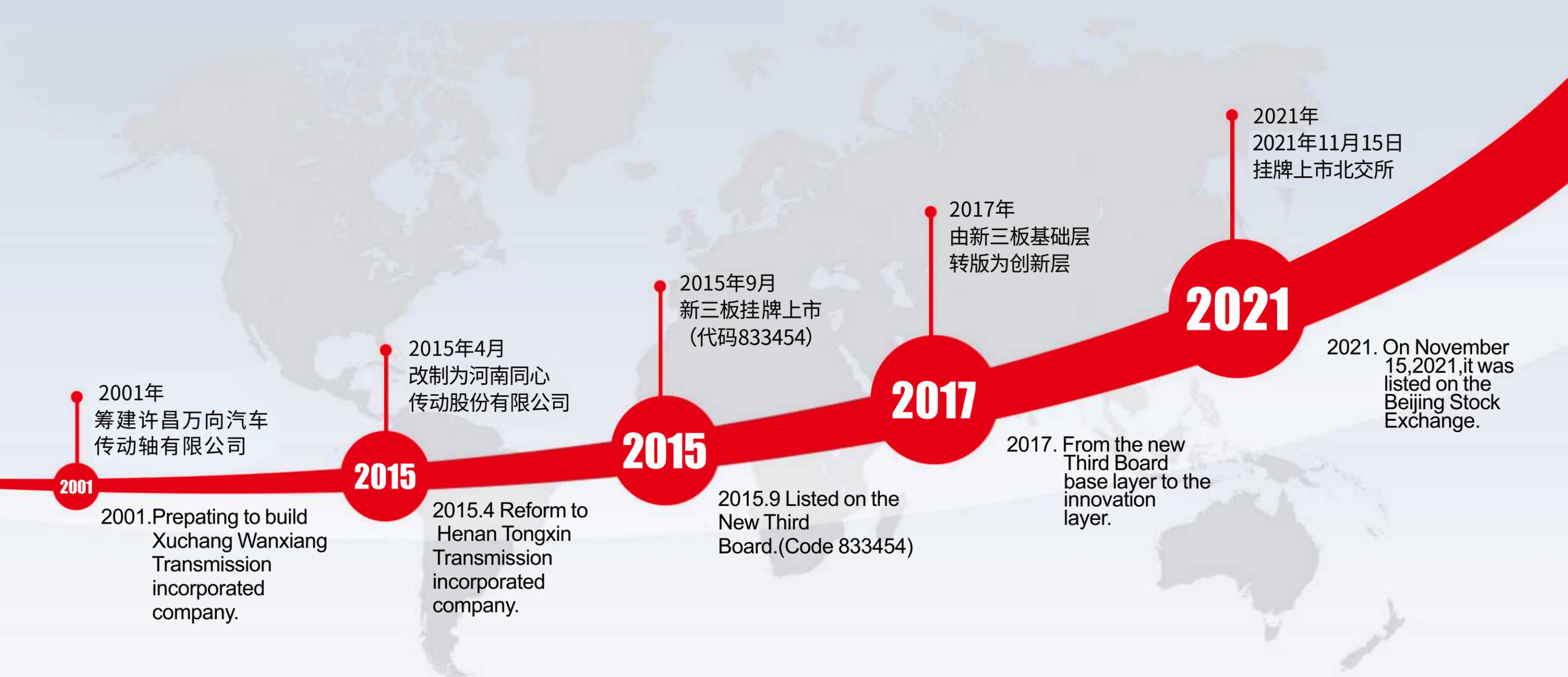
## 发展历程

COMPANY INTRODUCTION



## 发展历程

DEVELOPMENT HISTORY



2001

2001年  
筹建许昌万向汽车  
传动轴有限公司

2001. Preparing to build  
Xuchang Wanxiang  
Transmission  
incorporated  
company.

2015

2015年4月  
改制为河南同心  
传动股份有限公司

2015.4 Reform to  
Henan Tongxin  
Transmission  
incorporated  
company.

2015

2015年9月  
新三板挂牌上市  
(代码833454)

2015.9 Listed on the  
New Third  
Board.(Code 833454)

2017

2017年  
由新三板基础层  
转版为创新层

2017. From the new  
Third Board  
base layer to the  
innovation  
layer.

2021

2021年  
2021年11月15日  
挂牌上市北交所

2021. On November  
15, 2021, it was  
listed on the  
Beijing Stock  
Exchange.



# 企业产品及设备

## ENTERPRISE PRODUCTS AND EQUIPMENT



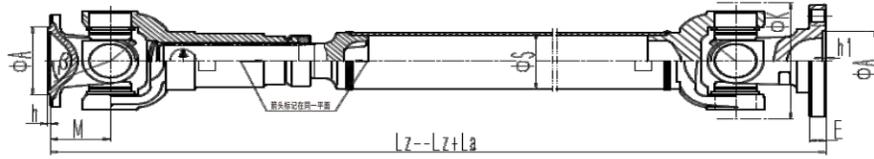
## S 零部件产品 pare part



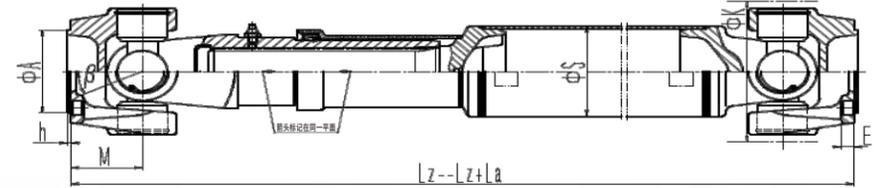
### 传动轴结构参数 (一)

Structural parameters of transmission shaft(1)

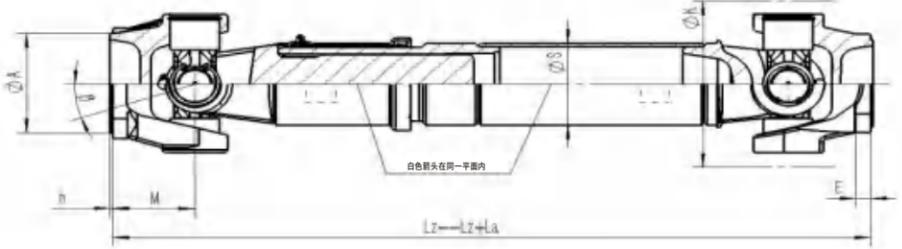
结构1



结构2



结构3



说明: 1.Tsmax: 最大瞬时扭矩N.m; 2.Lz: 压缩后最小长度; 3.La: 长度补偿量; 4.Lz+La: 最大工作长度; 5.b1:耳孔同侧两孔距。  
Explanation: 1. Tsmax: Maximum instantaneous torque N.m; 2. Lz: Minimum length after compression; 3. La: Length compensation amount; 4. Lz+La: maximum working length; 5. b1: Distance between two holes on the same side of the ear hole.

### 传动轴结构参数 (一)

Structural parameters of transmission shaft(2)

编号	Tsmax (N.m)	A	h	h1	B	n-ΦD	C	α	b1	b2	E	M	K	S	β	Lz	La	法兰	结构	万向节尺寸
1-1	1600	60	2		80	4-Φ10.2			50		6.5	46	94	63.5	15°	350	50	II	1	Φ29×76.6
1-2	1700	60	2		80	4-Φ10.2			50		7.5	43	94	50	22°	390	60	II	1, 2, 3	Φ30×88(60)
1-3	1700	57		5	84	6-Φ8.5	100	60			12	65	94	50	22°	280	40	I	1, 2, 3	Φ30×88(60)
1-4	1700	70	2.5		108	6-Φ13	132	60			12	65	94	50	22°	280	40	I	1, 2, 3	Φ30×88(60)
1-5	2700	70	2.5		96	4-Φ12.2			62		9	50	110	76	15°	310	60	II	1, 2	Φ32×93
1-6	2700	60	2.5		92	4-Φ11.2				70	8	40	110	63.5	15°	310	60	II	1, 2	Φ32×93
1-7	2700	57		5	84	6-Φ8.5	100	60			12	72		63.5	15°	360	60	I	1, 2	Φ32×93
1-8	3600	80	2			4-Φ12.2			58.778	80.902	9	55	115	76	25°	380	60	II	3	Φ33×93
1-9	3600	95	2.5		120	4-Φ14.5		40°			12	55	115	89	25°	380	60	II	3	Φ33×93
1-10	4000	70	2.5		96	4-Φ12.2			62		9	50/60	118	76	25°	380	60	II	3	Φ35×98
1-11	4000	75		3	101.5	8-Φ10.1	120	45°			10.5	80	118	76	25°	500	60	I	3	Φ35×98

说明: 1.Tsmax: 最大瞬时扭矩N.m; 2.Lz: 压缩后最小长度; 3.La: 长度补偿量; 4.Lz+La: 最大工作长度; 5.b1:耳孔同侧两孔距。  
Explanation: 1. Tsmax: Maximum instantaneous torque N.m; 2. Lz: Minimum length after compression; 3. La: Length compensation amount; 4. Lz+La: maximum working length; 5. b1: Distance between two holes on the same side of the ear hole.

### 传动轴结构参数 (一)

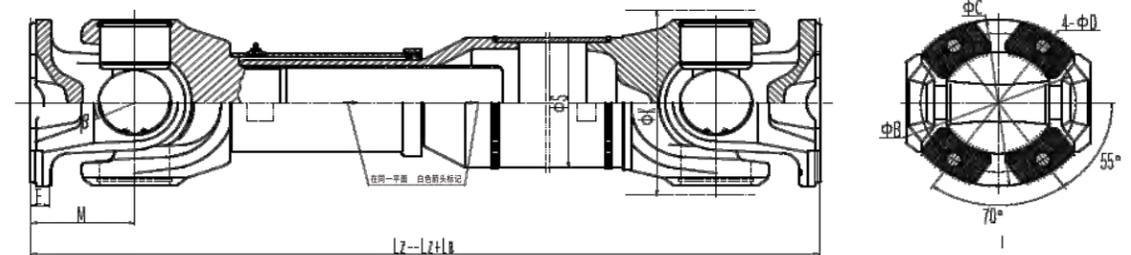
Structural parameters of transmission shaft(1)

编号	Tsmax (N.m)	A	h	h1	B	n-ΦD	C	α	b1	b2	E	M	K	S	β	Lz	La	法兰	结构	万向节尺寸
1-12	4000	80		3	101.5	8-Φ10.1	120	45°			10.5	80	118	76	25°	500	60	I	3	Φ35×98
1-13	6000	95	2.5		120	4-Φ14.5		40°			12	62	148	89	25°	450	60	II	3	Φ35×107
1-14	6700	95	2.5		120	4-Φ14.5		40°			12	62	148	89	25°	490	70	II	3	Φ39×118
1-15	6700	90		3	130	8-Φ12.1	150	45°			11	78	148	89	25°	380	40	I	3	Φ39×118
1-16	8500	90		3	130	8-Φ12.1	150	45°			11	78	148	89	25°	380	40	I	3	Φ41×118
1-17	8500	90		3	130/140	8-Φ12.1/8-Φ15.1	150/165				11	78	148	89	25°	358	25	I	3	Φ41×118
1-18	8500	95	2.5		120	4-Φ14.5		40°			12	62	148	89	25°	490	70	II	3	Φ41×118
1-19	12500	108	2.5			4-Φ16.5			88	112	14	78	165	89	25°	535	70	II	3	Φ47×140
1-20	14000			3	140	8-Φ16.1	165				12	82	172	108	25°	552	110	I	3	Φ47.6×135.2
1-21	8500	95	2.5		140	8-Φ14.4	165	45°			12	86	146	89	25°	522	70	I	3	Φ48×116.3
1-22	8500	95	2.5		130	6-Φ14.5	150	42°			10	90	156	89	25°	590	80	I	3	Φ48×127

说明: 1.Tsmax: 最大瞬时扭矩N.m; 2.Lz: 压缩后最小长度; 3.La: 长度补偿量; 4.Lz+La: 最大工作长度; 5.b1:耳孔同侧两孔距。  
Explanation: 1. Tsmax: Maximum instantaneous torque N.m; 2. Lz: Minimum length after compression; 3. La: Length compensation amount; 4. Lz+La: maximum working length; 5. b1: Distance between two holes on the same side of the ear hole.

### 传动轴结构参数 (二)

Structural parameters of transmission shaft(2)



编号	Tsmax (N.m)	A	h	h1	B	n-ΦD	C	E	M	K	S	β	Lz	La	万向节尺寸
2-1	4000				100	4-Φ12	120	13	54.5	118	76	25°	450	60	Φ35×98
2-2	6700				100	4-Φ11	120	14	67.5	148	89	25°	490	70	Φ39×118
2-3	8500				130	4-Φ13	150	17.5	62	148	89	25°	490	70	Φ41×118
2-4	12500				130	4-Φ13	150	16	78	170	89	25°	535	70	Φ47×140
2-5	12500				150	4-Φ15	180	16	78	170	89	25°	535	70	Φ47×140
2-6	14000				130	4-Φ13	150	16	102	172	108	25°	592	110	Φ47.6×135.2
2-7	10000				130	4-Φ13	150	16	100	165	89	40°	650	130	Φ50×135
2-8	18000				150	4-Φ15	180	14	88.5	188	102	30°	630	130	Φ50×155
2-9	16500				130	4-Φ13	150	16	90	156	100	35°	610	110	Φ52×133

说明: 1.Tsmax: 最大瞬时扭矩N.m; 2.Lz: 压缩后最小长度; 3.La: 长度补偿量; 4.Lz+La: 最大工作长度。  
Explanation: 1. Tsmax: Maximum instantaneous torque N.m; 2. Lz: Minimum length after compression; 3. La: Length compensation amount; 4. Lz+La: Maximum working length.

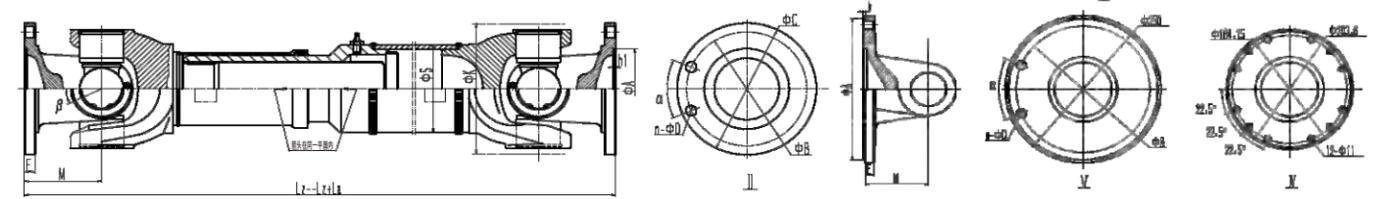
传动轴结构参数 (二)  
Structural parameters of transmission shaft(2)

编号	T <sub>max</sub> (N.m)	A	h	h1	B	n-ΦD	C	E	M	K	S	β	Lz	La	万向节尺寸
2-10	16500	ISO-12667-T165			140	4-Φ13	165	16	90	156	100	35°	610	110	Φ52×133
2-11	16500	ISO-12667-T180			150	4-Φ15	180	16	90	156	100	35°	610	110	Φ52×133
2-12	18000	ISO-12667-T150			130	4-Φ13	150	16	100	180	120	35°	650	110	Φ52×147
2-13	26000	ISO-12667-T155			130	4-Φ13	155	16	100	168	102	35°	650	110	Φ57×144
2-14	26000	ISO-12667-T165			140	4-Φ13	165	16	100	168	102	35°	650	110	Φ57×144
2-15	26000	ISO-12667-T180			150	4-Φ15	180	18	100	168	102	35°	650	110	Φ57×144
2-16	30000	ISO-12667-T180			150	4-Φ15	180	18	100	178	110/120	25°	700	140	Φ57×152
2-17	35000	ISO-12667-T180			150	4-Φ15	180	18	100	200	120/130	25°	700	110	Φ62×149
2-18	35000	ISO-12667-T180			150	4-Φ15	180	18	102.5	195	130	28°	700	120	Φ62×160
2-19	30000	ISO-12667-T180			150	4-Φ15	180	18	100	185	120	25°	710	140	Φ63.5×152
2-20	35000	ISO-12667-T180			150	4-Φ15	180	19.5	90	205	140	20°	444	50	Φ65×172
2-21	45000	ISO-12667-T180			150	4-Φ15	180	18	100	198	140	22°	710	140	Φ68×165(89)
2-22	60000	ISO-12667-T180			150	4-Φ15	180	19.5	113	210	152	25°	790	130	Φ68×193(117)
2-23	60000	ISO-12667-T200			165	4-Φ15	200	19.5	113	210	152	25°	790	130	Φ68×193(117)
2-24	55000	ISO-12667-T180			150	4-Φ15	180	18	110	230	152	25°	720	110	Φ72×185

说明: 1.T<sub>max</sub>: 最大瞬时扭矩N.m; 2.Lz: 压缩后最小长度; 3.La: 长度补偿量; 4.Lz+La: 最大工作长度。

Explanation: 1. T<sub>max</sub>: Maximum instantaneous torque N.m; 2. Lz: Minimum length after compression; 3. La: Length compensation amount; 4. Lz+La: Maximum working length.

传动轴结构参数 (三)  
Structural parameters of transmission shaft (3)



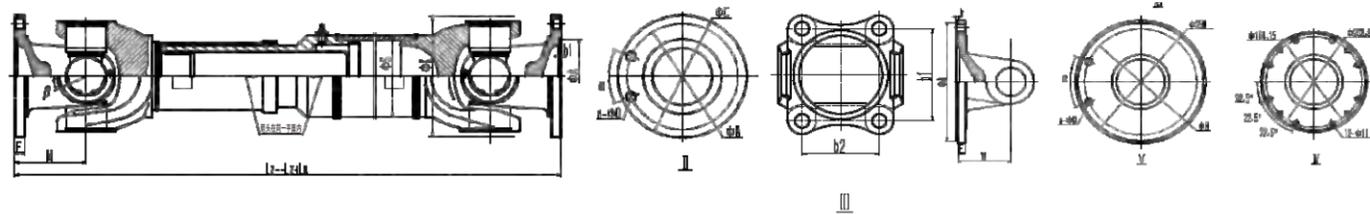
编号	T <sub>max</sub> (N.m)	A	h	h1	B	n-ΦD	C	α	E	M	K	S	β	Lz	La	法兰	万向节尺寸
3-9	16500	198	3		185	8-Φ10.1	203.5	45°	9	87	160	100	35°	610	110	II	Φ52×133
3-10	30000	95		3	140	8-Φ16.1	165	45°	14	100	178	110/120	25°	700	140	II	Φ57×152
3-11	30000	110		3	155.5	10-Φ16.1	180	45°	14	100	178	110/120	25°	700	140	II	Φ57×152
3-12	30000	197	2		184.15	12-Φ11	203.6		13	98	178	110/120	25°	700	140	IV	Φ57×152
3-13	30000	140		6	196	8-Φ16.2	225	45°	18	101	178	110/120	25°	700	140	II	Φ57×152
3-14	35000	240	4		220	8-Φ14.2	250	45°	14	97	178	110/120	25°	700	140	V	Φ57×152
3-15	30000	140		6	196	8-Φ16.2	225	45°	18	110	185	120	25°	710	140	II	Φ63.5×152
3-16	30000	240	4		215	8-Φ14.2	250	45°	14		185	120	25°	710	140	V	Φ63.5×152
3-17	45000	140		6	196	8-Φ16.2	225	45°	20		200	140	22°	710	140	II	Φ68×165(89)
3-18	45000	240	4		215	8-Φ14.2	250	45°	16		200	140	22°	710	140	V	Φ68×165(89)

说明: 1.T<sub>max</sub>: 最大瞬时扭矩N.m; 2.Lz: 压缩后最小长度; 3.La: 长度补偿量; 4.Lz+La: 最大工作长度。

Explanation: 1. T<sub>max</sub>: Maximum instantaneous torque N.m; 2. Lz: Minimum length after compression; 3. La: Length compensation amount; 4. Lz+La: Maximum working length.

传动轴结构参数 (三)  
Structural parameters of transmission shaft(3)

Structural parameters of transmission shaft(3)



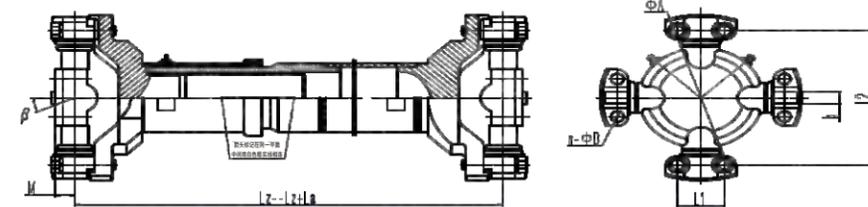
编号	T <sub>max</sub> (N.m)	A	h	h1	B	n-ΦD	C	α	b1	b2	E	M	K	S	β	Lz	La	法兰	万向节尺寸
3-1	16500	90		3	130	8-Φ12.1	150	45°			11	90	160	100	35°	610	110	II	Φ52×133
3-2	16500	95		3	140	8-Φ16.1	165	45°			12	90	160	100	35°	610	110	II	Φ52×133
3-3	16500	110		3	155.5	8-Φ14.1	180	45°			13	90	160	100	35°	610	110	II	Φ52×133
3-4	16500	132	3		155	8-Φ10.2	175	45°			11	90	160	100	35°	610	110	II	Φ52×133
3-5	16500	95	2.5			4-Φ16.3			112	88	14	78/90	160	100	35°	610	110	III	Φ52×133
3-6	26000	95		3	140	8-Φ16.1	165	45°			14	100	172	110	35°	650	110	II	Φ57×144
3-7	26000	110		3	155.5	10-Φ16.1	180	45°			14	100	172	110	35°	650	110	II	Φ57×144
3-8	26000	197	4		184.15	16-Φ11	205	22.5°			11	96	172	110	35°	650	110	II	Φ57×144

说明: 1.T<sub>max</sub>: 最大瞬时扭矩N.m; 2.Lz: 压缩后最小长度; 3.La: 长度补偿量; 4.Lz+La: 最大工作长度; 5.b1: 耳孔同侧两孔距。

Explanation: 1. T<sub>max</sub>: Maximum instantaneous torque N.m; 2. Lz: Minimum length after compression; 3. La: Length compensation amount; 4. Lz+La: maximum working length; 5. b1: Distance between two holes on the same side of the ear hole.

翼型万向节传动轴结构参数 (四)  
Structural parameters of wing type universal joint transmission shaft (4)

Structural parameters of wing type universal joint transmission shaft (4)



说明:

- 1.T<sub>max</sub>: 最大瞬时扭矩N.m;
- 2.Lz: 压缩后最小长度;
- 3.La: 长度补偿量;
- 4.Lz+La: 最大工作长度。

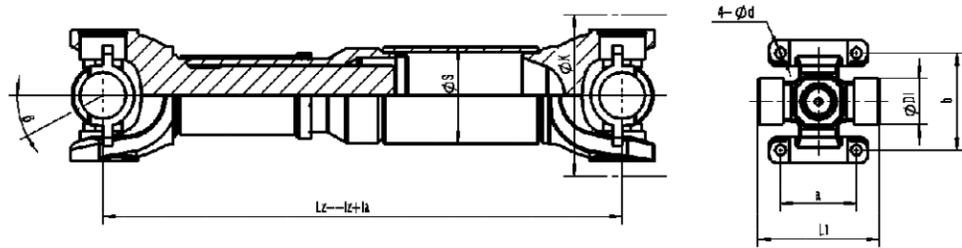
编号	T <sub>max</sub> (N.m)	L1	L2	b	A	M	n-ΦD	β	Lz	La	万向节型号
4-1	4000	42.8	89	14.28	115	17.3	8-Φ10.2	15°	370	20	5C
4-2	6000	42.88	114.3	14.26	140.45	17.5	8-Φ10.5	23°	370	20	6C
4-3	9000	49.2	117.5	15.85	148.4	20.5	8-Φ13.5	23°	350	25	7C
4-4	12000	49.2	174.6	15.85	206.4	20.6	8-Φ13.5	25°	510	100	8C
4-5	21000	71.42	123.85	15.85	165.1	25.4	8-Φ13.5	25°	500	80	8.5C
4-6	27000	71.44	168.3	15.85	209.62	25.4	8-Φ13.5	25°	590	130	9C
4-7	30000	92.1	165.1	25.35	212.9	32.5	8-Φ16.8	25°	630	120	10C
4-8	50000	92	227	35	280	38	8-Φ19.5	18°	670	110	12.5C
4-9	60000	99.98	199.98	31.72	260.47	38	8-Φ21.08	24°	670	130	15C

说明: 1.T<sub>max</sub>: 最大瞬时扭矩N.m; 2.Lz: 压缩后最小长度; 3.La: 长度补偿量; 4.Lz+La: 最大工作长度。

Explanation: 1. T<sub>max</sub>: Maximum instantaneous torque N.m; 2. Lz: Minimum length after compression; 3. La: Length compensation amount; 4. Lz+La: Maximum working length.

### CK万向节传动轴结构参数 (五)

Structural parameters of CK universal joint transmission shaft (5)



说明:  
1. T<sub>smax</sub>: 最大瞬时扭矩N.m;  
2. L<sub>z</sub>: 压缩后最小长度;  
3. L<sub>a</sub>: 长度补偿量;  
4. L<sub>z</sub>+L<sub>a</sub>: 最大工作长度。

编号	T <sub>smax</sub> (N.m)	L <sub>z</sub>	L <sub>a</sub>	S	K	β	D1	4-φd	a	b	L1	万向节型号
5-1	10000	550	120	100	190	24°	48.05	4-φ13	85	131.6	161	CK48
5-2	25000	550	120	102	195	35°	57.06	4-φ13	95	126	164	CK57

说明: 1. T<sub>smax</sub>: 最大瞬时扭矩N.m; 2. L<sub>z</sub>: 压缩后最小长度; 3. L<sub>a</sub>: 长度补偿量; 4. L<sub>z</sub>+L<sub>a</sub>: 最大工作长度。  
Explanation: 1. T<sub>smax</sub>: Maximum instantaneous torque N.m; 2. L<sub>z</sub>: Minimum length after compression; 3. L<sub>a</sub>: Length compensation amount; 4. L<sub>z</sub>+L<sub>a</sub>: Maximum working length.

### 带中间支承传动轴结构参数 (一)

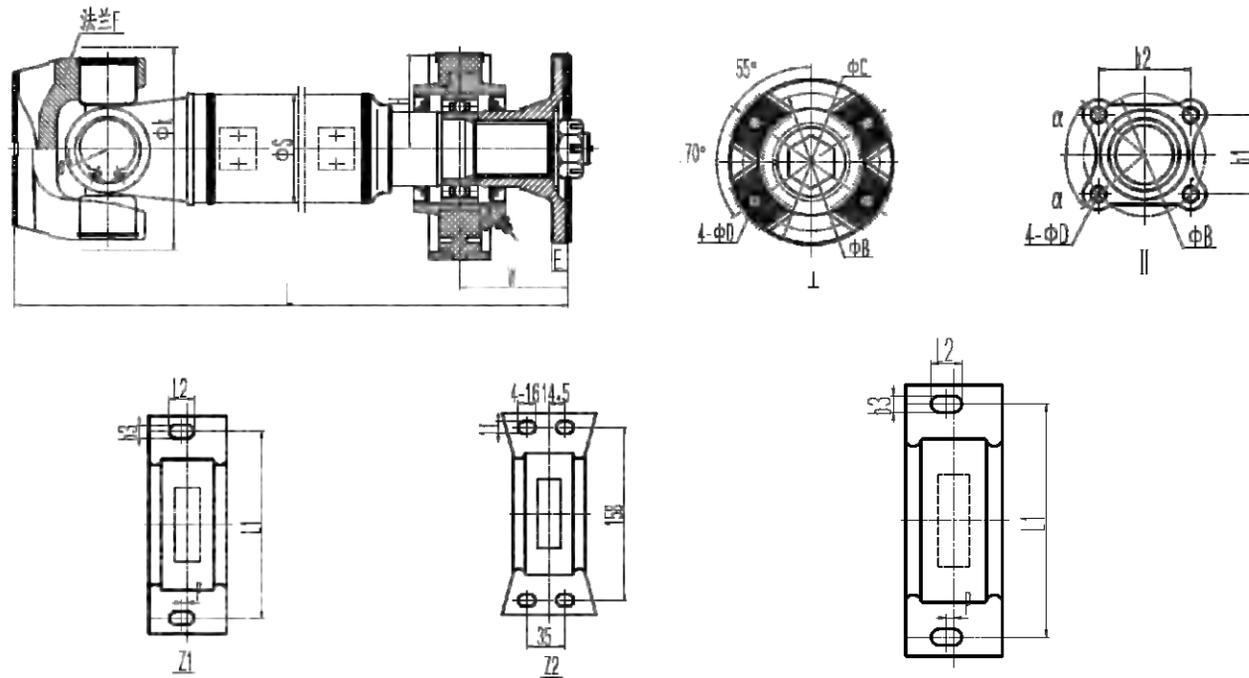
Structural parameters of transmission shaft with intermediate support (1)

编号	T <sub>smax</sub> (N.m)	A	h1	B	4-φD	α	b1	b2	E	K	S	β	W	H	L1	L2	b3	P	L	支承总成	法兰 F	万向节尺寸
6-1	2700	60	3	92	4-φ11.2			70	8	110	63.5	15°	88.5	66.5	158	20	11	5, 0	300	Z1	1-6	φ32×93
6-2	3600	80	4		4-φ12.2		58.778	80.902	12	115	76	25°	88	66.5	158	20	11	5	300	Z1	1-8	φ33×93
6-3	4000	70	3	96	4-φ12.2		62		9	118	76	25°	69	68	158	20	11	0	280	II	1-10	φ35×98
6-4	6700	95	3	120	4-φ14.5	40°			14	148	89	25°	92	72	230	30	15	0	370	II	1-15	φ39×118
6-5	12500			130	4-φ13				14	170	89	25°	93	78	230	30	15	0	390	I	1-23	φ47×140
6-6	12500	108	3		4-φ16.5		88	112	16	165	89	25°	92	76.5	230	15	17	0	390	Z1	1-22	φ47×140

说明: 1. T<sub>smax</sub>: 最大瞬时扭矩N.m; 2. L<sub>z</sub>: 压缩后最小长度; 3. L<sub>a</sub>: 长度补偿量; 4. L<sub>z</sub>+L<sub>a</sub>: 最大工作长度。  
Explanation: 1. T<sub>smax</sub>: Maximum instantaneous torque N.m; 2. L: Minimum length after compression; 3. b1: Distance between two holes on the same side of the ear hole.

### 带中间支承传动轴结构参数 (一)

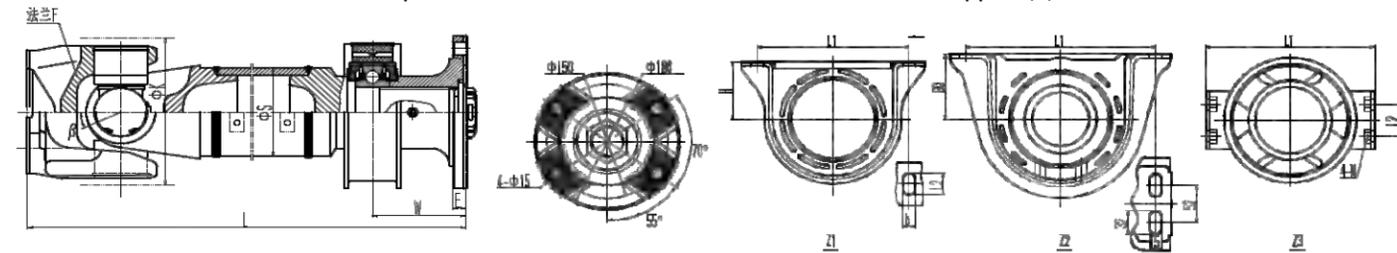
Structural parameters of transmission shaft with intermediate support (1)



说明: 1. T<sub>smax</sub>: 最大瞬时扭矩N.m; 2. L: 压缩后最小长度; 3. b1: 耳孔同侧两孔距。  
Explanation: 1. T<sub>smax</sub>: Maximum instantaneous torque N.m; 2. L: Minimum length after compression; 3. b1: Distance between two holes on the same side of the ear hole.

### 带中间支承传动轴结构参数 (二)

Structural parameters of transmission shaft with intermediate support (2)

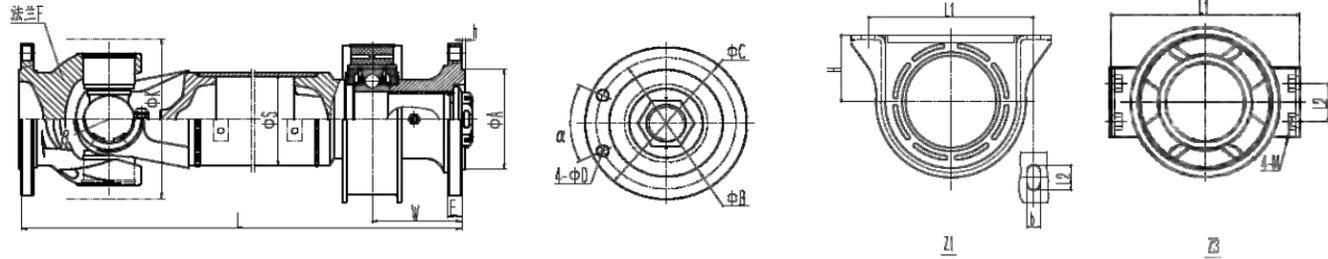


编号	T <sub>smax</sub> (N.m)	A	h	B	n-φD	α	E	K	S	β	W	H	L1	L2	b	4-M	L	支承总成	法兰 F	万向节尺寸
7-1	16500	ISO-8667-T180	150	4-φ15		14	168	92	35°	100	80	200	30	15		400	Z1	2-11	φ52×133	
7-2	26000	ISO-8667-T180	150	4-φ15		14	176	102	35°	100	80	200	30	15		400	Z1	2-15	φ57×144	
7-3	30000	ISO-8667-T180	150	4-φ15		14	178	110	25°	110		247	50		4-M12*1.5	410	Z3	2-16	φ57×152	
7-4	30000	ISO-8667-T180	150	4-φ15		14	178	110	25°	100	80	200	30	15		410	Z1	2-16	φ57×152	
7-5	35000	ISO-8667-T180	150	4-φ15		14	200	130	25°	110	90	250	30	17		400	Z1	2-18	φ62×160	
7-6	45000	ISO-8667-T180	150	4-φ15		14	200	140	22°	110	90	250	30	17		450	Z1	2-21	φ68×165(89)	
7-7	45000	ISO-8667-T180	150	4-φ15		14	200	140	22°	128	90					450	Z2	2-21	φ68×165(89)	
7-8	45000	ISO-8667-T180	150	4-φ15		14	200	140	22°	115.5		310	60		4-M18*1.5	450	Z3	2-21	φ68×165(89)	
7-9	55000	ISO-8667-T180	150	4-φ15		14	225	140	22°	115.5		310	60		4-M18*1.5	480	Z3	2-24	φ72×185	

说明: 1. T<sub>smax</sub>: 最大瞬时扭矩N.m; 2. L: 压缩后最小长度; 3. b1: 耳孔同侧两孔距。  
Explanation: 1. T<sub>smax</sub>: Maximum instantaneous torque N.m; 2. L: Minimum length after compression; 3. b1: Distance between two holes on the same side of the ear hole.

### 带中间支承传动轴结构参数 (三)

Structural parameters of transmission shaft with intermediate support (3)



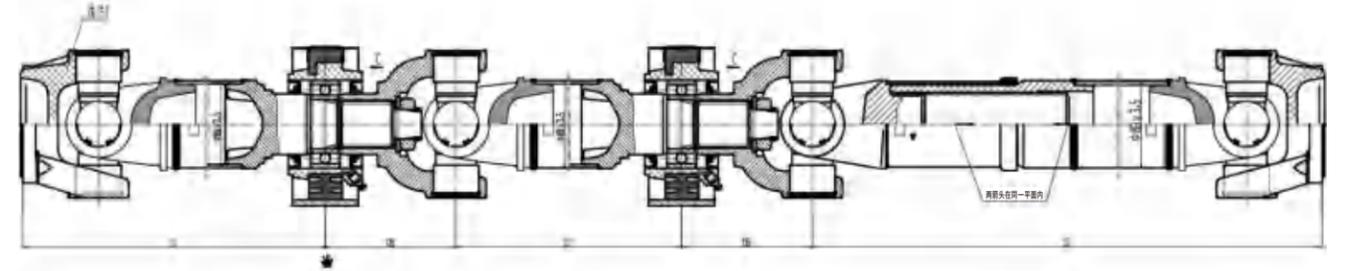
编号	T <sub>smax</sub> (N.m)	A	h	B	n-ΦD	α	E	K	S	β	W	H	L1	L2	b	4-M	L	支承总成	法兰 F	万向节尺寸
8-1	16500	95	2.3	140	8-Φ16.1	45°	12	160	92	35°	100	80	200	30	15		400	Z1	3-2	Φ52×133
8-2	26000	95	2.3	140	8-Φ16.1	45°	12	172	102	35°	100	80	200	30	15		400	Z1	3-6	Φ57×144
8-3	26000	110	2.3	155.5	10-Φ16.1	36°	14	172	102	35°	100	80	200	30	15		400	Z1	3-7	Φ57×144
8-4	30000	110	2.3	155.5	10-Φ16.1	36°	14	178	110	25°	110		247	50		4-M12*1.5	410	Z3	3-11	Φ57×152

说明: 1.T<sub>smax</sub>: 最大瞬时扭矩N.m; 2.L: 压缩后最小长度; 3.b1:耳孔同侧两孔距。

Explanation: 1. T<sub>smax</sub>: Maximum instantaneous torque N.m; 2. L: Minimum length after compression; 3. b1: Distance between two holes on the same side of the ear hole.

### 三联体传动轴结构参数

Structural parameters of triad transmission shaft



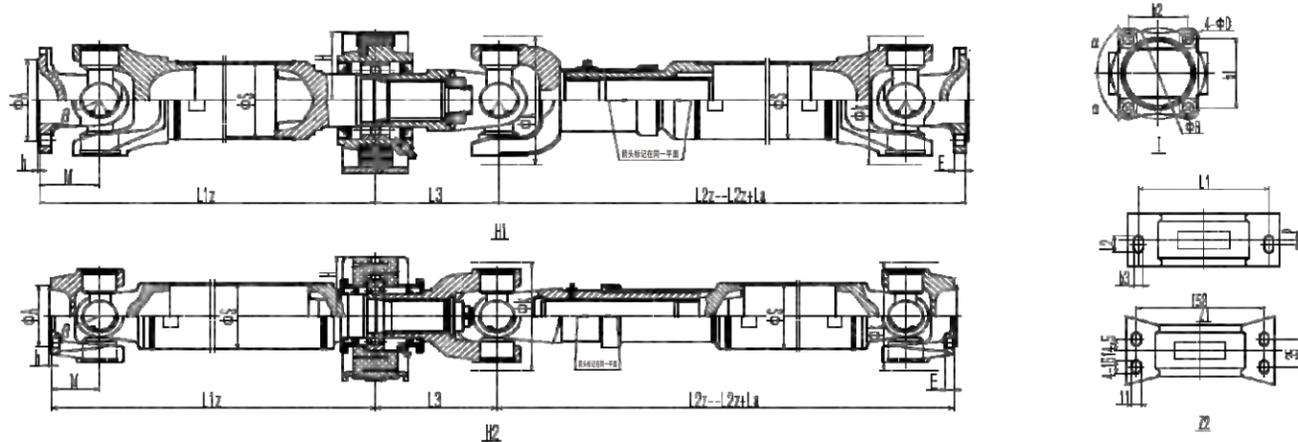
编号	T <sub>smax</sub> (N.m)	A	h	B	n-ΦD	α	b1	b2	E	M	K	S	β	H	L1	L2	L3	L1z	L2z	L3z	La	法兰 F	支承总成	万向节尺寸
10-1	12500	108	2.5		4-Φ16.5		88	112	14	78	165	89	25°					285	210	470	140	1-19	Z1	Φ47×140

说明: 1.T<sub>smax</sub>: 最大瞬时扭矩N.m; 2.Lz: 压缩后最小长度; 3.La: 长度补偿量; 4.Lz+La: 最大工作长度。

Explanation: 1. T<sub>smax</sub>: Maximum instantaneous torque N.m; 2. Lz: Minimum length after compression; 3. La: Length compensation amount; 4. Lz+La: Maximum working length.

### 联体传动轴结构参数

Structural parameters of the joint drive shaft



编号	T <sub>smax</sub> (N.m)	A	h	B	n-ΦD	α	b1	E	M	K	S	β	H	L1	L2	b3	p	L3	L1z	L2z	La	结构	支承总成	万向节尺寸
9-1	1600	60	2	80	4-Φ10.2		50	7	41	100	63.5	15°	76	94	-	13	-	85	230	285	50	H1	Z1	Φ29×76.6
9-2	3600	70	2.5	96	4-Φ12.2		62	9	50	118	76	25°	68	184	23	13		125	210	350	60	H2	Z2	Φ35×98
9-3	3600	70	2.5	96	4-Φ12.2		62	9	60	118	76	25°	68					125	220	360	60	H2	Z1	Φ35×98
9-4	6000	95	2.5	120	4-Φ14.5	40°		12	62	148	89	25°	66.5	158	20	11	5	125	240	400	60	H1	Z1	Φ35×107
9-5	6700	95	2.5	120	4-Φ14.5	40°		12	62	148	89	25°	78	230	15	17	-	127	280	400	70	H1	Z1	Φ39×118
9-6	6700	95	2.5	120	4-Φ14.5	40°		12	78	148	89	25°	78	230	15	30	-	127	280	400	70	H1	Z1	Φ39×118

说明: 1.T<sub>smax</sub>: 最大瞬时扭矩N.m; 2.Lz: 压缩后最小长度; 3.La: 长度补偿量; 4.Lz+La: 最大工作长度。

Explanation: 1. T<sub>smax</sub>: Maximum instantaneous torque N.m; 2. Lz: Minimum length after compression; 3. La: Length compensation amount; 4. Lz+La: Maximum working length.



## 传动轴生产和检测设备

Transmission shaft production and testing equipment



### 端齿数控磨床

End gear CNC grinding machine

高精度数控磨齿机,是我公司根据市场与用户的需要增添的高精度设备,适合端齿平面大批量、多品种、多规格的精加工磨削。

High precision CNC gear grinding machine is a high-precision equipment added by our company according to the needs of the market and users, suitable for large-scale, multi variety, and multi specification precision machining and grinding of end gear planes.



摩擦焊机  
Friction welding machine



3节硬支撑平衡机  
3-Section hard support balancing machine



探伤机  
Flaw detection machine



M5000光谱仪  
M5000 spectrometer



### 伺服内花键机

Servo internal spline machine

适用于螺旋花键内齿高精拉削,伺服驱动,可快速切换不同规格螺旋花键和直齿花键的拉削。

Suitable for high-precision broaching of internal teeth of spiral splines, servo driven, capable of quickly switching between broaching of spiral splines and straight splines.



疲劳磨损试验机  
Fatigue wear testing machine



拉力试验机  
Tensile testing machine



花键磨损试验机  
Spline wear testing machine



硬度仪  
Hardness tester



金相显微镜  
Metallographic microscope



盐雾试验机  
Salt spray testing machine



## 传动轴锻造生产

Transmission shaft forging production

本公司零部件的毛坯锻造钢材利用率达到98%以上(传统锻造的锻坯钢材利用率为75%-85%),同时我们采用组合模具技术使传动轴花键轴叉毛坯达到空心化,比传统工艺下料重量减少了10%以上,极大降低了原材料的浪费节约能源,最终产品传动轴的总重量降低5%,完全达到现行的整车厂轻量化要求。

The utilization rate of raw forged steel for our company's components has reached over 98% (the utilization rate of traditional forged raw steel is 75% -85%). At the same time, we use combination mold technology to hollow the blank of the drive shaft spline shaft fork, reducing the weight of raw materials by more than 10% compared to traditional processes, greatly reducing waste of raw materials and saving energy. The overall weight of the final product drive shaft is reduced by 5%, fully meeting the current lightweight requirements of vehicle manufacturers.

### 质量可控 性能保障

Quality control Performance reliable

主要检测设备清单 List of main test equipment			
序号 Number	检测设备名称 Name of testing equipment	规格型号 Specifications and models	数量 Quantity
1	可见分光光度计 Visible spectrophotometer	HY-727	1
2	显微镜 Spectroscopic	WX-5	2
3	高速引燃炉红外碳硫分析仪 High speed ignition furnace infrared carbon and sulfur analyzer	HW2000E	1
4	介质浓度折光仪+显微镜 Medium concentration refractometer+Microscope	WYT-1	2
5	布氏硬度计 Brinell hardness tester	HB-3000	4
6	洛氏硬度计 Rockwell hardness tester	HR150A	2
7	倒置金相显微镜 Inverted metallographic Microscope	MR5000	2
8	金相试样抛光机 Metallographic sample polish-ing machine	P-2	1
9	电子柱气电测微仪 Electron column gas-electricmicrometer	DZL-1D-1	1
10	数字超声波探伤仪 Digital ultrasonic flaw detector	TS-2008E	1
11	数字涂层测厚仪 Digital coating thickness gauge	ETA-083F	1
12	动平衡试验机 Dynamic balancing machine	RDB-250B	4
13	动平衡试验机 Dynamic balancing machine	RDB-100B	3
14	动平衡试验机 Dynamic balancing machine	RDB-100A	2
15	扭转力学试验机 Torsional mechanical testing machine	HYN-5T	1
16	直读光谱仪 Direct reading spectrometer	M5000	1
17	交流/直流荧光磁粉探伤机 AC/DC fluorescent magnetic particle flaw detector	OND-4000	1



- 原材料利用率75%-85%,浪费多
- 生产噪音大
- 每件加工用时4分钟
- The utilization rate of raw materials is 75%—85%.and there is a lot of waste
- High production noise
- Each processing takes 4 minutes

- 产品较重
- 生产劳动强度大
- 轴芯处调质欠缺
- The product is heavy
- High production labor intensity
- Lack of tempering at the shaft core



## 液压锻造设备研发及应用

Hydraulic forging equipment development and application



联合设备厂家,对大型液压机应用于锻造行业进行研究,在国内首创了液压无废边空心锻造技术,使商用车传动轴总成轻量化实现了跨越式发展。

The company cooperated with equipment manufacturers to study the application of large-scale hydraulic press in forging industry,and pioneered the hollow forging technology of hydraulic without waste edge in China,so that the lightweight of the transmission shaft assembly of commercial vehicles has achieved leap-forwanr development.



- 空芯结构,无废边,原材料利用率
- 生产噪音很小
- 每件加工用时1分钟
- Hollow core structure,no waste edges
- Low production noise due to utilization of raw materials
- Each processing take 1 minute

- 重量减轻10%左右
- 生产劳动强度小
- 调质内外均匀
- Reduce weight by about 10%
- Low production labor intensity
- Homogeneous quenching and tempering inside and outside

客户订购、业务接受、仓库查询或订单进入生产系统、根据客户的要求进行生产或定制化设计、各工序进行互相检验、最终成品检验、产品包装, 发送至客户。  
Customer ordering, business acceptance, warehouse inquiry or order entry into the production system, production or customized design according to customer requirements, mutual inspection of various processes, final product inspection, product packaging, and sending to customers.





铸造是金属冶炼加工的一种工艺,通常是利用金属的重力在模具中进行浇铸。但"铝压铸"不是靠重力完成的,而是施加了一定压力。有点类似"注塑"。但它有一套技术含量较高的抽芯,冷却等系统。本公司采用TOYO压铸机来实现产品的稳定性和外观,给客户带来更高的质量和品质的稳定。

Casting is a process of metal smelting and processing, usually using the gravity of the metal to cast in a mold. But "aluminum die casting" is not completed by gravity, but by applying a certain amount of pressure. It's a bit like "injection molding". But it has a set of high-tech core pulling, cooling and other systems. Our company uses TOYO die-casting machines to achieve product stability and appearance, bringing customers higher quality and quality stability.



产品名称 Product name	电机壳体 Motor Housing
铸造设备 Casting Equipment	2000T 压铸机 2000T Die-Casting Machine
产品重量 Product Weight	1.134kg
投影面积 Product projected area	170.6cm <sup>2</sup>
铸造压力 Cast Pressure	90Mpa

涉及汽车部品:电机壳体、电池包,支架类,端盖、发动机壳体、油底壳、飞轮壳、变扭器壳体等。

Involving automotive components: motor housing, battery pack, bracket type, end cover, engine housing, oil pan, flywheel housing, torque converter housing, etc.



## 铝压铸生产设备

Aluminum die-casting production equipment



TOYO 全自动压铸机  
Fully automatic die-casting machine

### 型号和适用范围 (Model and Scope of Application)

压铸机吨位 Tonnage of die-casting machine	产品投影面积 cm <sup>2</sup>	产品重量 Product weight
350T	192--436	~2.35kg
500T	247--669	~4.20kg
900T	429--1000	~6.5kg
1250T	700--1400	~9.7kg
1600T	896--1800	~12.5kg
2000T	1360--2200	~14.5kg
2500T	2700	~16.2kg
3000T	3200	~18.5kg



公司所有出厂产品 **皆经过多次实验与检测**  
All factory products of the company have undergone multiple experiments and inspections



世界上最先进的日本进口Yasda立式加工中心YBM9150V, 主轴转速:100-24000rpm, 工作台:1500\*900mm, 最大载荷:3000KG, 配备在线测量系统, 刀具长度/半径自动补偿功能和刀具损伤在线检测, 可实现高精度产品的加工。

The world's most advanced Japanese imported Yasda vertical machining center YBM9150V, with a spindle speed of 100-24000rpm, Workbench: 1500 \* 900mm, Maximum load: 3000KG, equipped with an online measurement system, automatic compensation function for tool length/radius, and online detection of tool damage, which can achieve high-precision product processing.



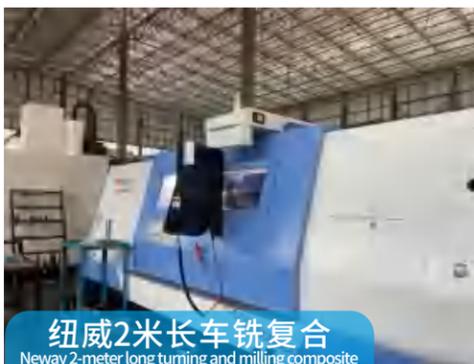
日本Mazak HCN-5000L卧式加工中心, 双工位工作台, 分度台旋转时间1.4s/90度, 最大主轴转速12000rpm, 加工范围:φ800\*1000mm, 重复定位精度:0.003mm。

Mazak HCN-5000L horizontal machining center in Japan, with dual workstation workbench, The rotation time of the indexing table is 1.4s/90 degrees, and the maximum spindle speed is 12000 rpm, Processing scope: φ 800 \* 1000mm, repeated positioning accuracy: 0.003mm.



河南同心传动有限公司拥有自己的“技术研究中心”, 我们打造了一支专门从事技术研发和技术开发能力较强的团队, 技术改造的响应时间快, 改造的满意度高。为加强技术交流, 公司与多家行业协会以及同行业的传动轴生产厂家合作, 开展了长期友好合作。认真探索和解决传动轴生产过程中的技术问题。

Henan Tongxin Transmission Co., Ltd. has its own "Technical Research Center", and we have created a team with strong capabilities in technical research and development; The response time for technological transformation is fast, and the satisfaction with the transformation is high. To strengthen technical exchanges, the company has established long-term friendly cooperation with multiple industry associations and transmission shaft manufacturers in the same industry. Seriously explore and solve technical problems in the production process of transmission shafts.



纽威2米长车铣复合  
Neway 2-meter long turning and milling composite



发那科4轴CNC  
Fanuc 4-axis CNC



东京精密三座标  
Tokyo Precision Three Coordinate System

# 企业荣誉

## CORPORATE HONORS



# 专利

## 证书

patent certificate

公司共有40多项专利, 以下为部分专利展示:  
The company has over 40 patents, and the following are some patent displays:

**IATF16949**

**IAF** **CNAS**

**EAC**

**能源管理体系认证**  
Energy management system certification

**ISO14001**

**ISO45001**

**IATF16949**

**GJB 9001C**

公司于2007年12月首次通过ISOTS/16949:2002国际质量体系认证。公司所有产品, 从原材料选择、设计、采购、生产到售后服务, 都严格按照质量保证体系标准进行控制。

The company passed the ISOTS/16949:2002 international quality system certification for the first time in December 2007. All products of the company, from raw material selection, design, procurement, production to after-sales service, are strictly controlled in accordance with the quality assurance system standards.



# 企业合作伙伴

ENTERPRISE PARTNER



河南同心传动股份有限公司产品远销韩国、土耳其等国家，在东南亚、中亚国家均有出口业务，与韩国CTR、韩国现代重工等国外优秀车企签署有长期的合作配套协议，出口产品份额陆续占到公司营销额40%以上。

The products of Henan Tongxin Transmission Co., Ltd. are exported to South Korea, Türkiye and other countries. It has export business in Southeast Asia and Central Asia. It has signed long-term cooperation supporting agreements with excellent foreign automobile enterprises such as South Korea CTR, South Korea Hyundai Heavy Industry, and the share of export products has accounted for more than 40% of the company's marketing volume.



公司产品覆盖微、轻、中、重、特种汽车、客车，轨道机车和工程机械用传动轴共36个系列，3800多种，并先后进入了中国中车、中国铁建、襄樊金鹰轨道、陕汽商用车、四川现代商用车、南骏集团、宇通集团、中通客车、三一重工、雷沃重工、徐工集团、中联重科、中国航天科技、中石化四机厂、大运集团、中集凌宇、中集瑞江、福田汽车、吉利集团等多个厂家的配套生产体系。

The company's products cover 36 series of transmission shafts for micro, light, medium, heavy, special vehicles, passenger cars, rail locomotives, and engineering machinery, with over 3800 types. They have successively entered CRRC, China Railway Construction, Xiangfan Jinying Rail, Shaanxi Automobile Commercial Vehicle, Sichuan Modern Commercial Vehicle, Nanjun Group, Yutong Group, Zhongtong Bus, Sany Heavy Industry, Lovol Heavy Industry, XCMG Group, Zoomlion Heavy Industry, China Aerospace Science and Technology, and Sinopec Fourth Machinery Factory Supporting production systems from multiple manufacturers such as Dayun Group, CIMC Lingyu, CIMC Ruijiang, Foton Automobile, and Geely Group.