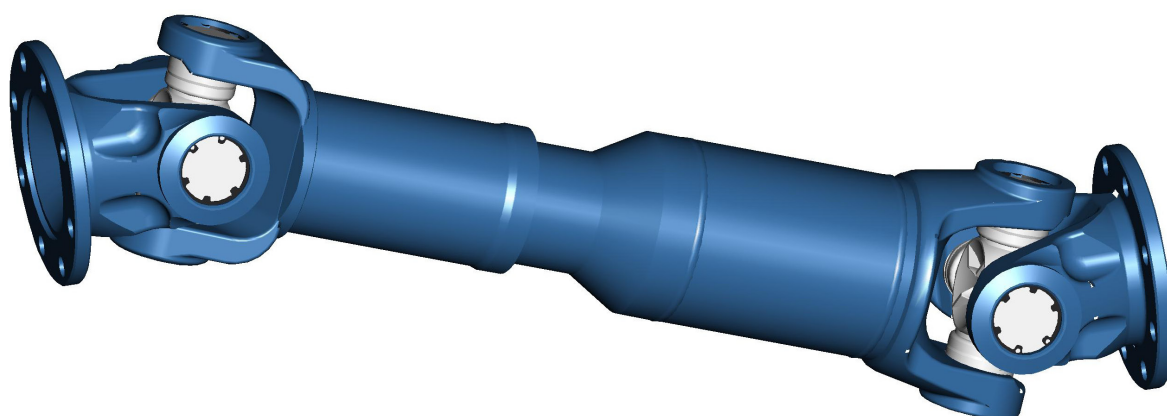


687系列 / Series 687



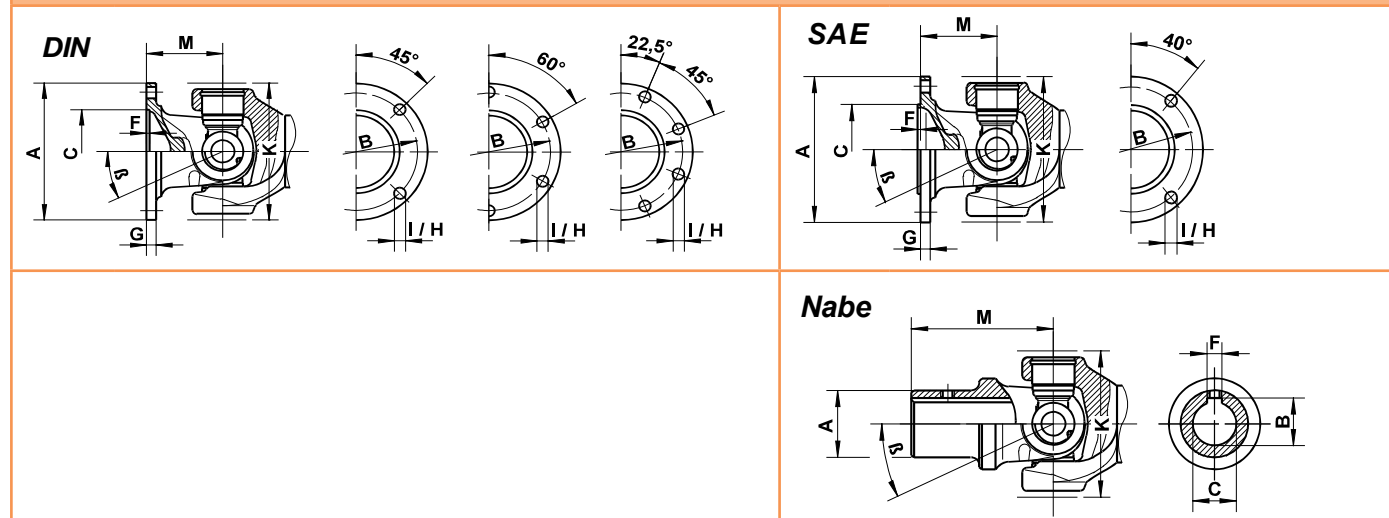
连接范围 Connection range	设计特点 Design features	建议应用于 Preferred application
- 转矩范围$T_{CS,2,4}$ - 35 kNm - 法兰直径90 - 250 mm	- 闭合轴承眼 - 低维护 - 尼龙喷涂层	- 铁路设施 - 轧机厂 - 船舶驱动 - 通用施工机械设备
- Torque range $T_{CS,2,4}$ - 35 kNm - Flange diameter 90 - 250 mm	- Closed bearing eyes - Low maintenance - Rilsan coated	- Railway vehicles - Rolling mill plants - Marine drives - General machinery construction plants - Commercial vehicles

设计 / Design															
系列 Serie	T_{CS} [kNm]	T_K [kNm]	T_{DW} [kNm]	0.02	0.02 IM	0.03	0.04	116	9.01	9.03	9.04	7.02			
687.15	2,4	1,8	0,7	•	•	•	•	•	•	•	•	•			
687.20	3,5	2,7	1	•	•	•	•	•	•	•	•	•			
687.25	5,0	3,8	1,6	•	•	•	•	•	•	•	•	•			
687.30	6,5	5,0	1,9	•	•	•	•	•	•	•	•	•			
687.35	10,0	7,7	2,9	•	•	•	•	•	•	•	•	•			
687.40	14,0	10,5	4,4	•	•	•	•	•	•	•	•	•			
687.45	17,0	13,0	5,1	•	•	•	•	•	•	•	•	•			
687.47	19,0	14,5	5,8	•											
687.55	25,0	19,0	7,3	•	•	•	•	•	•	•	•	•			
687.60	30,0	23,0	9,0	•		•	•	•	•	•	•	•			
687.65	35,0	27,0	11,0	•	•	•	•	•	•	•	•	•			

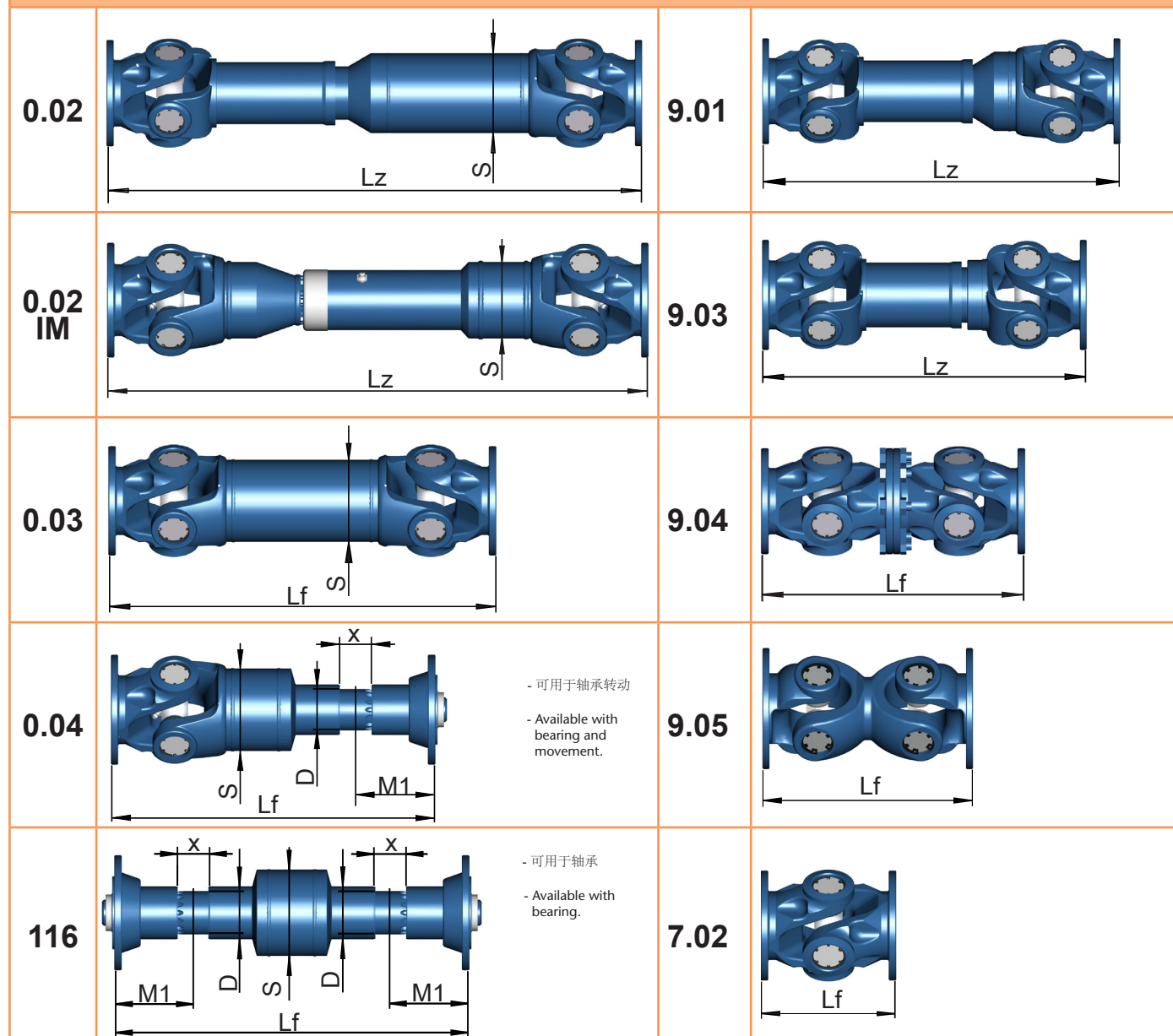
687.15

$T_{cs} = 2,4 \text{ kNm}$

连接多样性 / Variants of connection



设计多样性 / Variants of design



可应要求提供更多设计!

More designs available on request!

期望 EXPECT>MORE 更多



687.15
 $T_{CS} = 2,4 \text{ kNm}$

			687.15													
T _K	kNm	1,8														
T _{DW}	kNm	0,7														
L _C		1,79x10 ⁻⁴														
		DIN						SAE						Nabe		
T _{FR}	kNm	0,9	1,5	3,9 / 2,4		0,9	1,5	0,8	1,5		2,6	---				
K	mm	90														
β	°	25					35		25							
A	mm	90	100	120		90	100	87,3	96,8		115,9	47				
B±0,1	mm	74,5	84	101,5		74,5	84	69,85	79,37		95,25	35,3				
C ^{H7}	mm	47	57	75		47	57	57,15	60,32		69,85	32				
F	mm	2,5	2,5	2,5		2,5	2,5	1,4	1,4		1,4	10				
G	mm	7	7	8		7	7	6	7		8	---				
H+0,2	mm	8,25	8,25	10,25/8,25		8,25	8,25	8,25	10,25		12,25	---				
I		4	6	8		4	6	4	4		4	---				
M	mm	50	48	43		50	54	43	43		43	85				
S	mm	63,5x2,4					52x3,5		63,5x2,4							
W		36 x 1,5														
0.02	Lz _{min}	mm	350	420	346	416	336	406	359	367	336	406	336	406	336	490
	La	mm	60	130	60	130	60	130	60	60	60	130	60	130	60	130
	G _G	kg	5,7	8,1	5,7	8,1	5,9	8,3	5,6	5,8	5,3	7,7	5,5	7,9	5,5	10,1
	G _R	kg	3,62	3,62	3,62	3,62	3,62	3,62	4,19	4,19	3,62	3,62	3,62	3,62	3,62	3,62
	Jm _G	kgm2			0,0043						0,0040					
	Jm _R	kgm2	0,0034	0,0034	0,0034	0,0034	0,0034	0,0034	0,0025	0,0025	0,0034	0,0034	0,0034	0,0034	0,0034	0,0034
	C _G	Nm/rad.			0,26x10 ⁵						0,28x10 ⁵					
C _R	Nm/rad.	0,34x10 ⁵	0,34x10 ⁵	0,34x10 ⁵	0,34x10 ⁵	0,34x10 ⁵	0,34x10 ⁵	0,25x10 ⁵	0,25x10 ⁵	0,34x10 ⁵	0,34x10 ⁵	0,34x10 ⁵	0,34x10 ⁵	0,34x10 ⁵	0,34x10 ⁵	
0.02	Lz _{min}	mm	563		559		549		566		574		549		549	
	La	mm	200		200		200		200		200		200		200	
	G _G	Kg														
	Jm _G	Kgm²														
	C _G	Nm/rad.														
	C _R	Nm/rad.														
0.03	Lf _{min}	mm	225		221		211		231		239		211		211	
	G _G	kg			4,1				4,1		4,1					
	Jm _G	kgm2			0,0038				0,0026		0,0026					
	C _G	Nm/rad.			0,44 x 10 ⁵				0,47x10 ⁵		0,47x10 ⁵					
	Lf _{min}	mm			239											
0.04	D	mm			35											
	X	mm			25											
	M1	mm			72,5											
	Lf _{min}	mm			270											
116	D	mm			35											
	X	mm			25											
	M1	mm			72,5											
	Lz _{max}	mm	352		348		338				338		338		338	
9.01	La _{max}	mm	90		90		90				90		90		90	
	Lz _{min}	mm	300		296		286				286		286		286	
	La _{min}	mm	38		38		38				38		38		38	
	Lz _{max}	mm	284		280		270				270		270		270	
9.03	La _{max}	mm	60		60		60				60		60		60	
	Lz _{min}	mm	249		245		235				235		235		235	
	La _{min}	mm	25		25		25				25		25		25	
	Lf	mm	200		192		172		200		216					
9.04																
	Lf	mm					171									
9.05																
7.02	Lf	mm	100		96		86		100		108		86		86	

0.02 IM 无尼龙喷涂层

0.02 IM not rilsan coated

中心连接/ Center connection

T_k = 目录转矩
T_{DW} = 疲劳转矩
T_{CS} = 功能极限扭矩
T_{FR} = 摩擦扭矩
L_C = 承受力系数
W = 渐开线花键
G_G = Lz_{min} 轴的重量
G_R = 每1000mm管的重量
IM = 超大运转

T_k = Catalogue torque
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G_R = Weight per 1000mm tube
IM = Extra large movement

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JM_R = 每1000mm管道的转动惯量
C_G = Lz_{min} 轴承的扭转刚度
C_R = 每1000mm 钢管的扭转刚度

JM_G = Moment of inertia of shaft for Lz_{min}
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C_G = Torsional stiffness of shaft for Lz_{min}
C_R = Torsional stiffness per 1000 mm tube

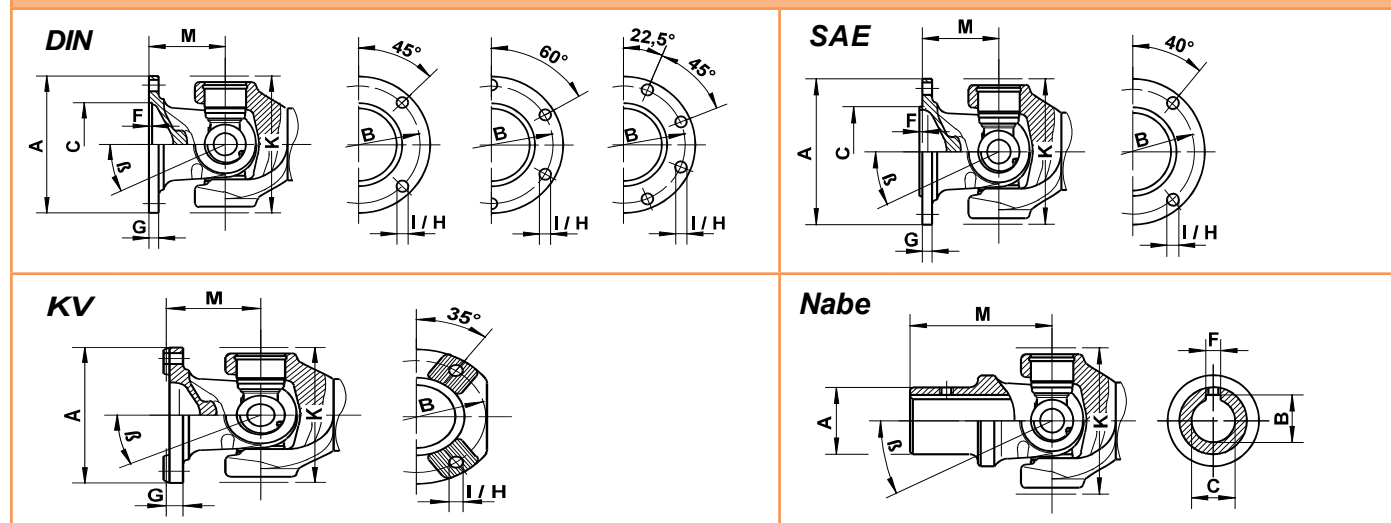


687.20

$T_{CS} = 3,5 \text{ kNm}$

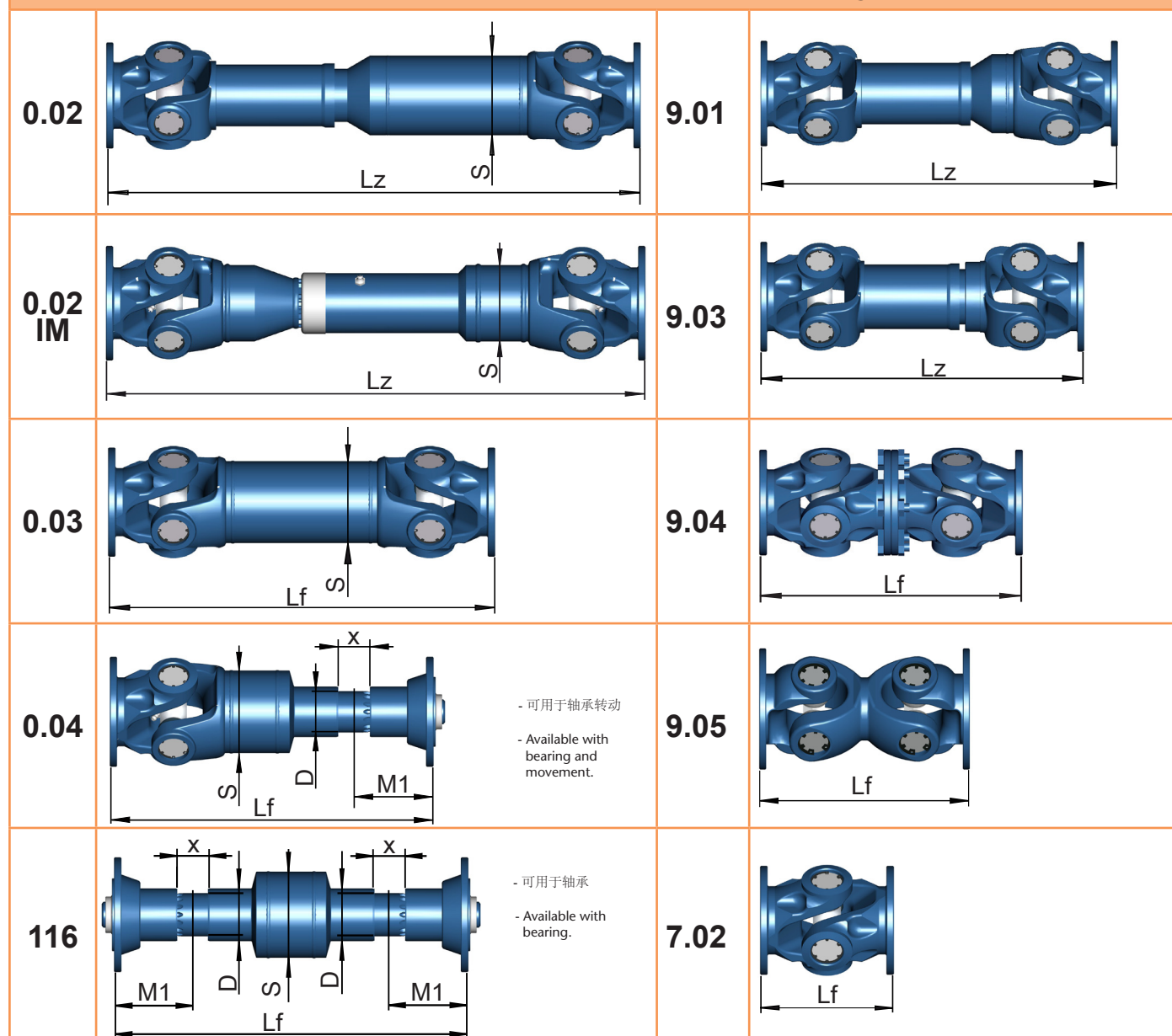
连接多样性

/ Variants of connection



设计多样性

/ Variants of design



更多款式可供您选择!

More designs available on request!

期望 EXPECT > MORE 更多



$$T_{CS} = 3,5 \text{ kNm}$$

		687.20												
T _K	kNm	2,7												
T _{DW}	kNm	1												
L _C		5,39x10-4												
		DIN					SAE			KV		Nabe		
T _{FR}	kNm	1,5	3,9	2,4			2,7			---			---	
K	mm	98												
β	°	25												
A	mm	100	120	120			115,9			120			52	
B±0,1	mm	84	101,5	101,5			95,25			100			38,3	
C ^{H7}	mm	57	75	75			69,85			---			35	
F	mm	2,5	2,5	2,5			1,4			---			10	
G	mm	7	8	8			8			14			---	
H+0,2	mm	8,25	10,25	8,25			12,25			11			---	
I		6	8	8			4			4			---	
M	mm	54	54	54			48			54			85	
S	mm	76,2 x 2,4												
W		40 x 1,5												
0.02	Lz _{min}	mm	409	449	379	449		397	437		409	449	471	511
	La	mm	100	140	100	140		100	140		100	140	100	140
	G _G	kg	8,4	9,1	8,4	9,6					8,9	9,6		
	G _R	kg	4,37	4,37	4,37	4,37		4,37	4,37		4,37	4,37	4,37	4,37
	Jm _G	kgm²			0,0089									
	Jm _R	kgm²	0,0059	0,0059	0,0059	0,0059		0,0059	0,0059		0,0059	0,0059	0,0059	0,0059
0.02	C _G	Nm/rad			0,42x10 ⁵									
	C _R	Nm/rad	0,60x10 ⁵	0,60x10 ⁵	0,60x10 ⁵	0,60x10 ⁵		0,60x10 ⁵	0,60x10 ⁵		0,60x10 ⁵	0,60x10 ⁵	0,60x10 ⁵	0,60x10 ⁵
	Lz _{min}	mm	575		575			563			575		606	
	La	mm	200		200			200			200		200	
	G _G	Kg												
	Jm _G	Kgm²												
0.03	C _G	Nm/rad.												
	Lf _{min}	mm	239		239			227			239		301	
	G _G	kg	5,3		5,8						5,8			
	Jm _G	kgm²			0,0085									
	C _G	Nm/rad			0,86x10 ⁵									
	Lf _{min}	mm			314									
0.04	D	mm			45									
	X	mm			36									
	M1	mm			90									
	Lf _{min}	mm			390									
	D	mm			45									
	X	mm			36									
116	M1	mm			90									
	Lz _{max}	mm	381		381			369			381		443	
	La _{max}	mm	100		100			100			100		100	
	Lz _{min}	mm	314		314			302			314		376	
	La _{min}	mm	33		33			33			33		33	
	Lz _{max}	mm	317		317			305			317		379	
9.01	La _{max}	mm	70		70			70			70		70	
	Lz _{min}	mm	276		276			264			276		338	
	La _{min}	mm	29		29			29			29		29	
	Lf	mm	216		216			204			216		278	
	Lf													
	Lf	mm												
9.03	Lf													
	Lf													
	Lf													
	Lf													
	Lf													
	Lf													
9.04	Lf													
	Lf													
	Lf													
	Lf													
	Lf													
	Lf													
9.05	Lf													
	Lf													
	Lf													
	Lf													
	Lf													
	Lf													
7.02	Lf	mm	108		108			96			108		170	
	Lf													
	Lf													
	Lf													
	Lf													
	Lf													

0.02 IM 无尼龙喷涂层

0.02 IM not rilsan coated

中心连接/ Center connection

T_k = 目录转矩
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 T_{FR} = 摩擦转矩
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 W = 渐开线花键
 G_G = L_{zmin} 轴的重量
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JM_C = Moment of inertia of shaft for L_{zmin}
 JM_R = Moment of inertia per 1000 mm tube
 C_G = Torsional stiffness of shaft for L_{zmin}
 C_R = Torsional stiffness per 1000 mm tube

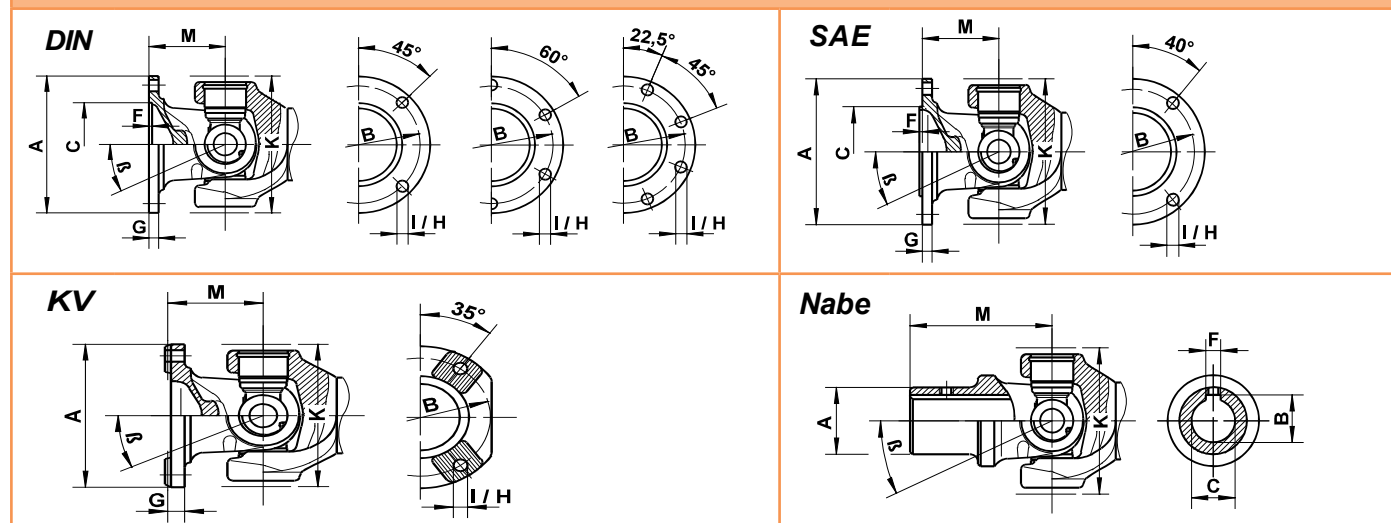


687.25

$T_{CS} = 5,0 \text{ kNm}$

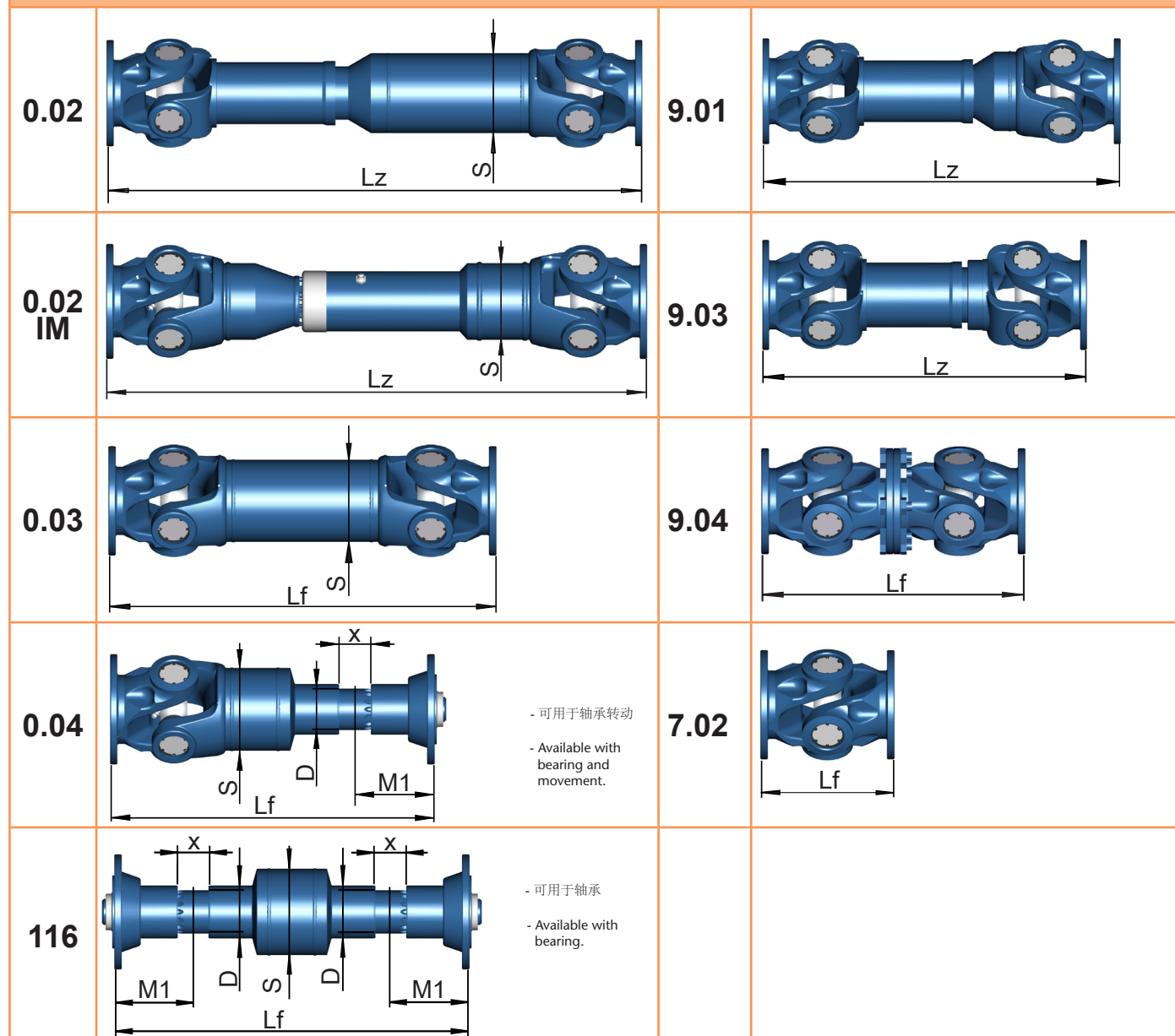
连接多样性

/ Variants of connection



设计多样性

/ Variants of design



可应要求提供更多设计!

More designs available on request!

期望 EXPECT>MORE 更多



$$T_{CS} = 5,0 \text{ kNm}$$

		687.25														
T _K	kNm	3,8														
T _{DW}	kNm	1,6														
L _C		1,79x10 ⁻³														
		DIN						SAE			KV			Nabe		
T _{FR}	kNm	3,9	7,3	3,9	7,3			4,6			---			---		
K	mm	113														
β	°	25		35	25			25								
A	mm	120	150	120	150			151			120			57		
B±0,1	mm	101,5	130	101,5	130			120,65			100			41,3		
C ^{H7}	mm	75	90	75	90			95,25			---			38		
F	mm	2,5	3	2,5	3			1,6			---			10		
G	mm	8	10	8	10			10			14			---		
H+0,2	mm	10,25	12,25	10,25	12,25			14,25			11			---		
I		8	8	8	8			4			4			---		
M	mm	70	60	70	60			60			60			90		
S	mm	89x2,4 (0.02 IM - 80x3,5)														
W		45 x 1,5														
0.02	Lz _{min}	mm	458	438	507	487			438	487		438	487		498	547
	La	mm	100	100	145	145			100	145		100	145		145	145
	G _G	kg	12,0	13,2	12,9	14,1			13,8			12,2	13,1			
	G _R	kg	5,13	5,13	5,13	5,13			5,13	5,13		5,13	5,13		5,13	5,13
	Jm _G	kgm ²	0,0144													
	Jm _R	kgm ²	0,0096	0,0096	0,0096	0,0096			0,0096	0,0096		0,0096	0,0096		0,0096	0,0096
	C _G	Nm/rad.	0,71x10 ⁵													
0.02 IM	C _R	Nm/rad.	0,98x10 ⁵	0,98x10 ⁵	0,98x10 ⁵	0,98x10 ⁵			0,98x10 ⁵	0,98x10 ⁵		0,98x10 ⁵	0,98x10 ⁵		0,98x10 ⁵	0,98x10 ⁵
	Lz _{min}	mm	778	758	778			758			758			818		
	La	mm	200	200	200			200			200			200		
	G _G	Kg														
	Jm _G	Kgm ²														
0.03	C _G	Nm/rad.														
	Lf _{min}	mm	282	262	282			262			262			322		
	G _G	kg	8,6		9,8											
	Jm _G	kgm ²	0,0129		0,0129											
0.04	C _G	Nm/rad.	1,44x10 ⁵		1,44x10 ⁵											
	Lf _{min}	mm	339	329												
	D	mm	45	45												
	X	mm	36	36												
116	M1	mm	90	90												
	Lf _{min}	mm	390	390												
	D	mm	45	45												
	X	mm	36	36												
9.01	M1	mm	90	90												
	Lz _{max}	mm	425	405	425			405			405			465		
	La _{max}	mm	100	100	100			100			100			100		
	Lz _{min}	mm	361	341	361			341			341			401		
9.03	La _{min}	mm	36	36	36			36			36			36		
	Lz _{max}	mm	355	335	355			335			335			395		
	La _{max}	mm	70	70	70			70			70			70		
	Lz _{min}	mm	315	295	315			295			295			355		
9.04	La _{min}	mm	28	30	30			30			30			30		
	Lf	mm	280	240	280			240			240			300		
7.02	Lf	mm	140	120	140			120			120			180		

0.02 IM 无尼龙喷涂层

0.02 IM not rilsan coated

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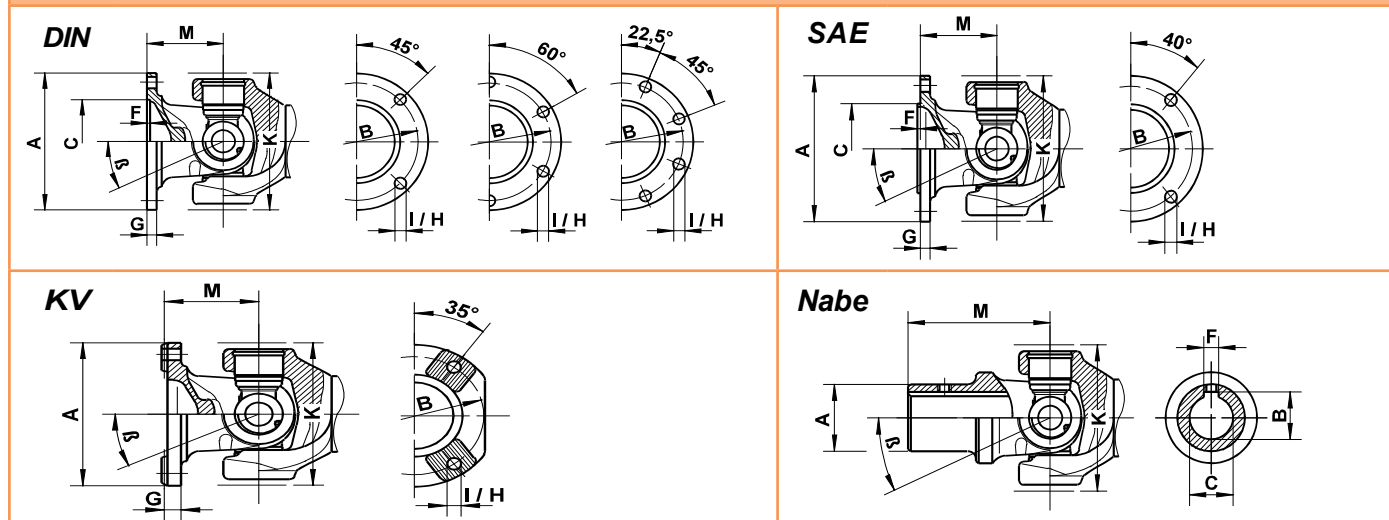


687.30

$T_{CS} = 6,5 \text{ kNm}$

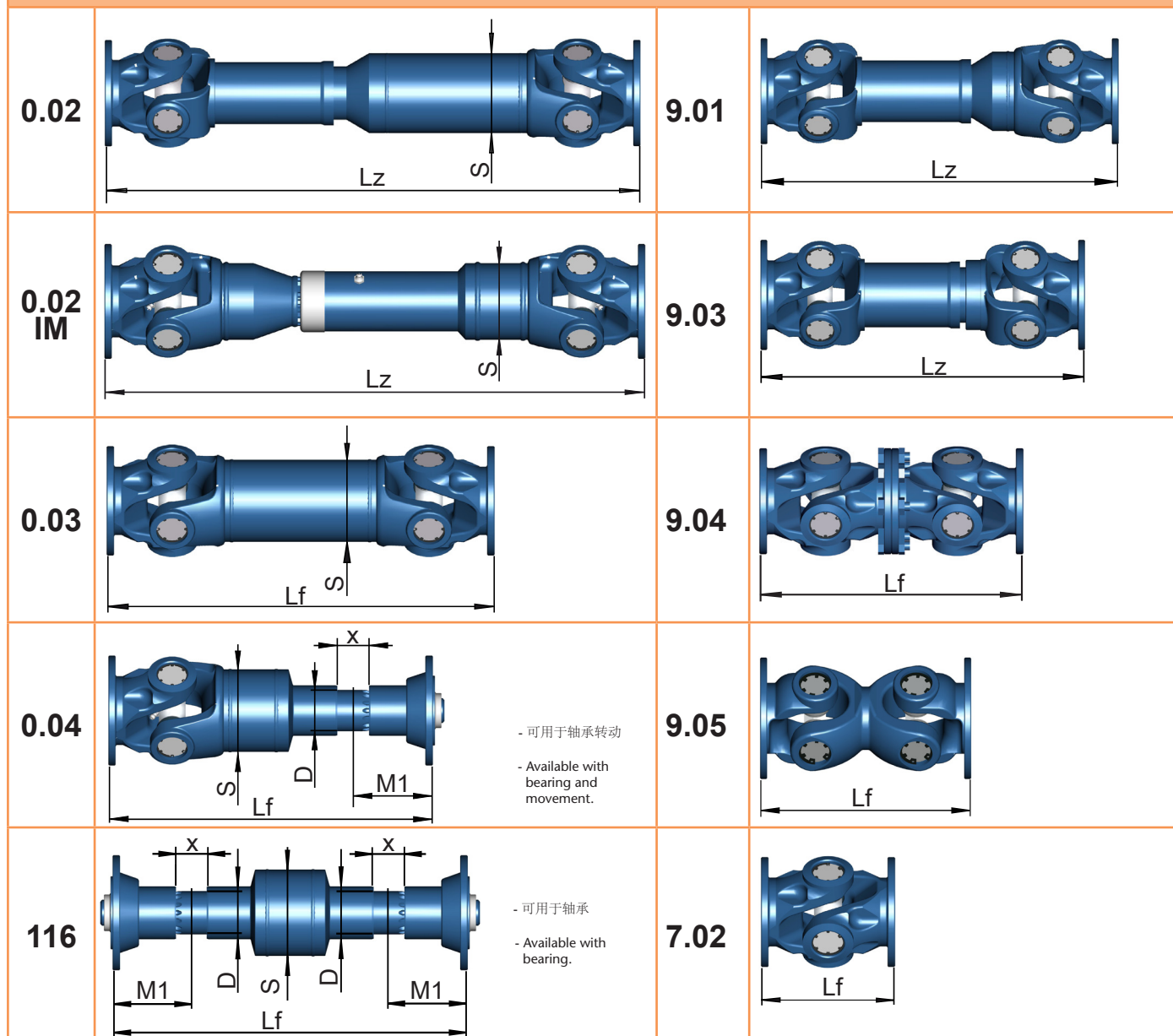
连接多样性

/ Variants of connection



设计多样性

/ Variants of design



可应要求提供更多设计!

More designs available on request!

期望 EXPECT > MORE 更多



$$T_{CS} = 687.30 \text{ kNm}$$

			687.30													
T _K	kNm	5,0														
T _{DW}	kNm	1,9														
L _c		2,59x10 ⁻³														
		DIN						SAE			KV				Nabe	
T _{FR}	kNm	3,9	7,3		3,9	7,3		4,6	4,6		---	---	---	---	---	
K	mm	127														
β	°	25			35			25			25				25	
A	mm	120	150		120	150		151	151		120	152	120	152	62	
B ^{±0,1}	mm	101,5	130		101,5	130		120,65	120,65		100	130	100	130	45,3	
C ^{H7}	mm	75	90		75	90		95,25	95,25		---	---	---	---	42	
F	mm	2,5	3		2,5	3		1,6	1,6		---	---	---	---	12	
G	mm	8	10		10	10		10	10		14	16	14	16	---	
H ^{+0,2}	mm	10,25	12,25		10,25	12,25		14,25	14,25		11	13	11	13	---	
I		8	8		8	8		4	4		4	4	4	4	---	
M	mm	72	78		72	78		78	78		63,5	65	63,5	65	100	
S	mm	90 x 3			80 x 3,5			90 x 3 80 x 3,5			90 x 3		80 x 3,5		90 x 3	
W		48 x 1,5														
0.02	Lz _{min}	mm	492	504		547	559		504	559		475	478	530	533	548
	La	mm	110	110		155	155		110	155		110	110	155	155	110
	G _G	kg	13	14,2												
	G _R	kg	6,44	6,44		6,6	6,6		6,44	6,6		6,44	6,44	6,6	6,6	6,44
	Jm _G	kgm ²	0,0245	0,0245												
	Jm _R	kgm ²	0,0122	0,0122		0,0222	0,0222		0,0122	0,0222		0,0122	0,0122	0,0222	0,0222	0,0122
0.02	C _G	Nm/rad.	0,78x10 ⁵	0,78x10 ⁵												
	C _R	Nm/rad.	1,25x10 ⁵	1,25x10 ⁵		0,98x10 ⁵	0,98x10 ⁵		1,25x10 ⁵	0,98x10 ⁵		1,25x10 ⁵	1,25x10 ⁵	0,98x10 ⁵	0,98x10 ⁵	1,25x10 ⁵
	Lz _{min}	mm				748	760			760				731	734	
	La	mm				200	200			200				200	200	
	G _G	Kg														
	Jm _G	Kgm ²														
0.03	C _G	Nm/rad.														
	Lf _{min}	mm	310	322		318	330		322	330		293	296	293	296	374
	G _G	kg	8,6	9,8												
	Jm _G	kgm ²	0,0238	0,0238												
0.04	C _G	Nm/rad.	1,74x10 ⁵	1,74x10 ⁵												
	Lf _{min}	mm	350	356												
	D	mm	45	45												
	X	mm	36	36												
116	M1	mm	90	90												
	Lf _{min}	mm	390	390												
	D	mm	45	45												
	X	mm	36	36												
9.01	M1	mm	90	90												
	Lz _{max}	mm	453	465					465			436	439			509
	La _{max}	mm	110	110					110			110	110			110
	Lz _{min}	mm	379	391					391			362	365			435
9.03	La _{min}	mm	36	36					36			36	36			36
	Lz _{max}	mm	397	409					409			380	383			453
	La _{max}	mm	95	95					95			95	95			95
	Lz _{min}	mm	338	350					350			321	324			394
9.04	La _{min}	mm	36	36					36			36	36			36
	Lf	mm	288	312		288	312									
9.05																
	Lf	mm														
7.02	Lf	mm	144	156		144	156		156			127	130			200

0.02 IM 无尼龙喷涂层

0.02 IM not rilsan coated

中心连接 / Center connection

T_k = 目录转矩
 T_{DW} = 疲劳转矩
 T_{CS} = 功能极限转矩
 T_{FR} = 摩擦转矩
 L_c = 承载力系数
 W = 渐开线花键
 G_G = $L_{z_{min}}$ 轴的重量
 G_R = 每1000mm管的重量
 IM = 超大运转

T_k = Catalogue torque
 T_{DW} = Fatigue torque
 T_{CS} = Functional limit torque
 T_{FR} = Friction torque
 L_c = Bearing capacity factor
 W = Involute spline
 G_G = Weight of shaft for $L_{z_{min}}$
 G_R = Weight per 1000mm tube
 IM = Extra large movement

J_{m_G} = $L_{z_{min}}$ 轴承的转动惯量
 J_{m_R} = 每1000mm管道的转动惯量
 C_G = $L_{z_{min}}$ 轴承的扭转刚度
 C_R = 每1000mm 钢管的扭转刚度

J_{m_G} = Moment of inertia of shaft for $L_{z_{min}}$
 J_{m_R} = Moment of inertia per 1000 mm tube
 C_G = Torsional stiffness of shaft for $L_{z_{min}}$
 C_R = Torsional stiffness per 1000 mm tube



687.35

$T_{CS} = 10,0 \text{ kNm}$

连接多样性

/ Variants of connection

DIN 	SAE
KV 	

设计多样性

/ Variants of design

0.02 	9.01
0.02 IM 	9.03
0.03 	9.04
0.04 - 可用于轴承转动 - Available with bearing and movement.	7.02
116 - 可用于轴承 - Available with bearing.	

可应要求提供更多设计!

More designs available on request!

期望 EXPECT > MORE 更多



$$T_{CS} = 10,0 \text{ kNm}$$

			687.35													
T _K	kNm	7,7														
T _{DW}	kNm	2,9														
L _c		0,0128														
		DIN						SAE				KV				
T _{FR}	kNm	7,3	12,0		7,3	12,0		6,0		6,0		---	---	---	---	
K	mm	144														
β	°	25			35			25		35		25				
A	mm	150	180		150	180		174,6		174,6		120	155	120	155	
B ^{±0,1}	mm	130	155,5		130	155,5		155,52		155,52		100	130	100	130	
C ^{H7}	mm	90	110		90	110		168,23		168,23		---	---	---	---	
F	mm	3	3		3	3		3		3		---	---	---	---	
G	mm	10	12		10	12		9,5		9,5		14	16	14	16	
H ^{+0,2}	mm	12,1	14,1		12,1	14,1		10,1		10,1		11	13	11	13	
I		8	8		8	8		8		8		4	4	4	4	
M	mm	95	90		95	90		88		88		75	75	75	75	
S	mm	100x3			85x5			100x3		85x5		100x3		85x5		
W		54 x 1,5														
0.02	Lz _{min}	mm	582	572		681	671		568		667		542	542	641	641
	La	mm	110	110		190	190		110		190		110	110	190	190
	G _G	kg	24,0	25,6		25,2	26,4		25,4		25,8		20,4	21,7	23,8	25
	G _R	kg	7,18	7,18		9,9	9,9		7,17		9,9		7,17	7,17	9,9	9,9
	Jm _G	kgm²	0,043													
	Jm _R	kgm²	0,0169	0,0169		0,0158	0,0158		0,0169		0,0158		0,0169	0,0169	0,0158	0,0158
	C _G	Nm/rad.	1,18x10 ⁵													
0.02 IM	C _R	Nm/rad.	1,72x10 ⁵	1,72x10 ⁵		1,6x10 ⁵	1,6x10 ⁵		1,72x10 ⁵		1,6x10 ⁵		1,72x10 ⁵	1,72x10 ⁵	1,6x10 ⁵	1,6x10 ⁵
	Lz _{min}	mm				865	855				851				825	825
	La	mm				200	200				200				200	200
	G _G	Kg														
	Jm _G	Kgm²														
0.03	C _G	Nm/rad.														
	Lf _{min}	mm	379	369		399	389		365		385		339	339	359	359
	G _G	kg	18,0	19,6		16,0	17,6		17,3		17		13,7	15,2	15	16,2
	Jm _G	kgm²	0,04													
0.04	C _G	Nm/rad.	1,81x10 ⁵													
	Lf _{min}	mm	412	407												
	D	mm	65	65												
	X	mm	48	48												
116	M1*	mm	106	106												
	Lf _{min}	mm	445	445												
	D	mm	65	65												
	X	mm	48	48												
9.01	M1*	mm	106	106												
	Lz _{max}	mm	550	540		634	624		536		620		510	510		
	La _{max}	mm	110	110		190	190		110		190		110	110		
	Lz _{min}	mm	510	500		514	504		496		500		470	470		
9.03	La _{min}	mm	70	70		70	70		70		70		70	70		
	Lz _{max}	mm	484	474					470				444	444		
	La _{max}	mm	110	110					110				110	110		
	Lz _{min}	mm	419	409					410				384	384		
9.04	La _{min}	mm	45	45					50				50	50		
	Lf	mm	380	360		380	360									
7.02	Lf	mm	190	180		190	180		176		176		150	150		

* M1设计0.04与116的轴承系列200-M1=114,5mm

* M1 Design 0.04 and 116 with bearing series 200 - M1 = 114,5 mm

0.02 IM 无尼龙喷涂层

0.02 IM not rilsan coated

T_k = 目录转矩
 T_{DW} = 疲劳转矩
 T_{CS} = 功能极限扭矩
 T_{FR} = 摩擦转矩
 L_C = 承载力系数
 W = 渐开线花键
 G_G = Lz_{min} 轴的重量
 G_R = 每1000mm管的重量
IM = 超大运转

T_k = Catalogue torque
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 T_{CS} = Functional limit torque
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 L_C = Bearing capacity factor
 W = Involute spline
 G_G = Weight of shaft for Lz_{min}
 G_R = Weight per 1000mm tube
IM = Extra large movement

JM_G = Lz_{min} 轴承的转动惯量
 JM_R = 每1000mm管道的转动惯量
 C_G = Lz_{min} 轴承的扭转刚度
 C_R = 每1000mm 钢管的扭转刚度

JM_G = Moment of inertia of shaft for Lz_{min}
 JM_R = Moment of inertia per 1000 mm tube
 C_G = Torsional stiffness of shaft for Lz_{min}
 C_R = Torsional stiffness per 1000 mm tube

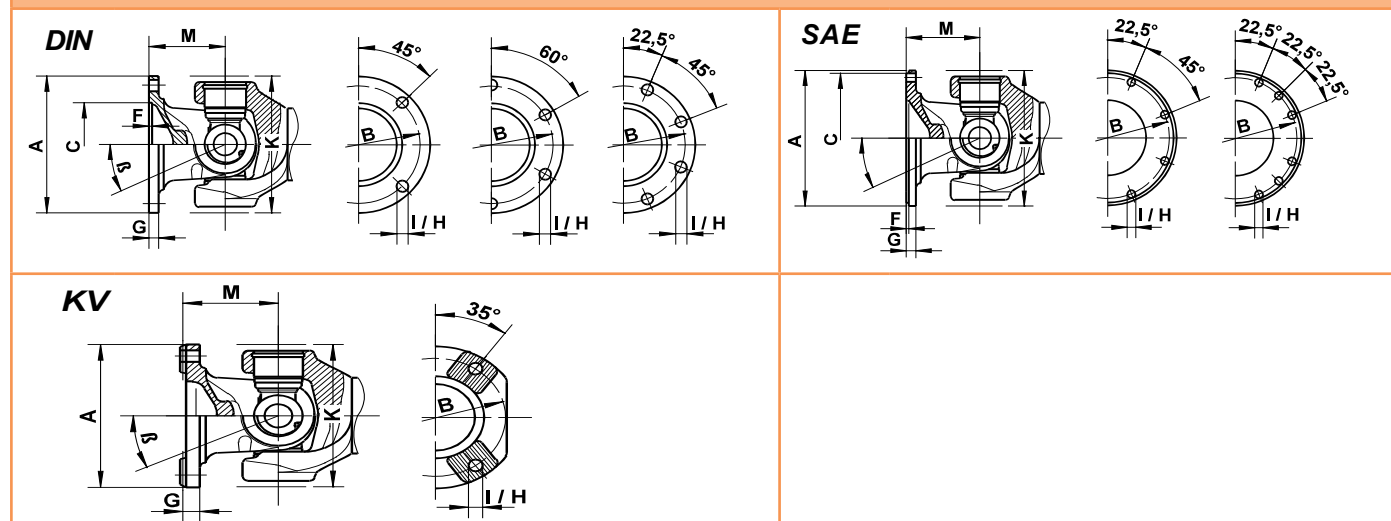


687.40

$T_{CS} = 14,0 \text{ kNm}$

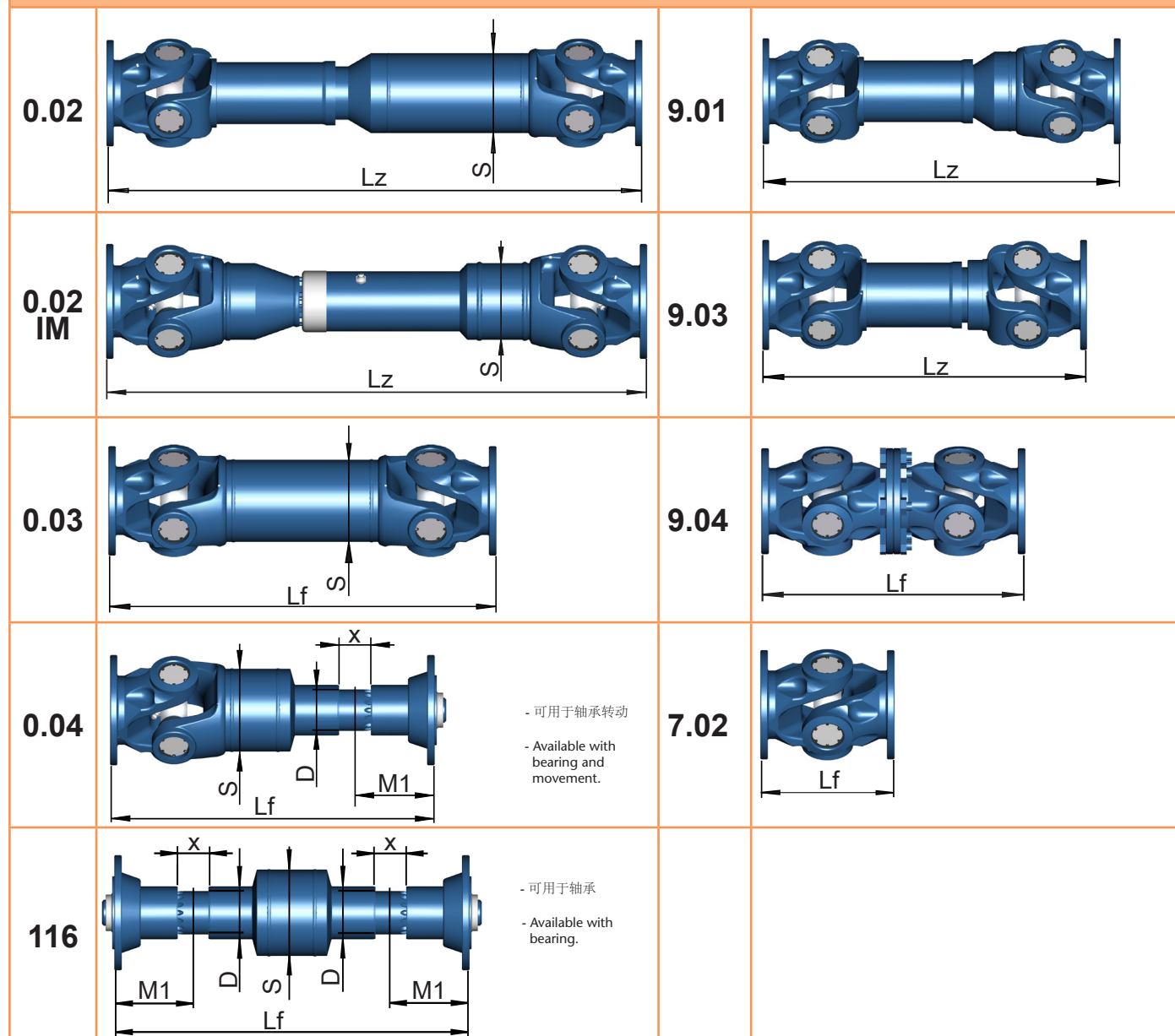
连接多样性

/ Variants of connection



设计多样性

/ Variants of design



可应要求提供更多设计!

More designs available on request!

期望 EXPECT > MORE 更多



$$T_{CS} = 14,0 \text{ kNm}$$

			687.40													
T _K	kNm	10,5														
T _{DW}	kNm	4,4														
L _c		0,0422														
		DIN					SAE					KV				
T _{FR}	kNm	7,3	12,0		7,3	12,0		10,6	12,4		10,6	12,4	---	---	---	
K	mm	160														
β	°	25			44			25			44		25		44	
A	mm	150	180		150	180		203,2	203,2		203,2	203,2	155	180	180	
B ^{±0,1}	mm	130	155,5		130	155,5		184,12	184,12		184,12	184,12	130	150	150	
C ^{H7}	mm	90	110		90	110		196,8	196,8		196,8	196,8	---	---	---	
F	mm	3	3		3	3		3	3		3	3	---	---	---	
G	mm	10	12		10	12		9,5	9,5		9,5	9,5	16	18	18	
H ^{+0,2}	mm	12,1	14,1		12,1	14,1		10,1	11,1		10,1	11,1	13	15	15	
I		8	8		8	8		12	12		12	12	4	4	4	
M	mm	102	102		102	102		70,5	70,5		100	100	82	82	102	
S	mm	120x3			100x4,5 **			120x3			100x4,5 **		120x3		100x4,5**	
W		62x1,75														
0.02	Lz _{min}	mm	586	586		693	693		523	523		689	689	546	546	693
	La	mm	110	110		180	180		110	110		180	180	110	110	180
	G _G	kg	28,7	29,4		30,3	30,9		31,9	31,9		34,6	34,6	29,4	31,0	35,5
	G _R	kg	8,66	8,66		10,6	10,6		8,65	8,65		10,6	10,6	8,65	8,65	10,6
	Jm _G	kgm²	0,0676	0,0776		0,0706	0,0806									
	Jm _R	kgm²	0,0296	0,0296		0,0242	0,0242		0,0296	0,0296		0,0242	0,0242	0,0296	0,0296	0,0242
	C _G	Nm/rad.	2,17x10 ⁵	2,17x10 ⁵		1,61x10 ⁵	1,61x10 ⁵									
0.02	C _R	Nm/rad.	3,02x10 ⁵	3,02x10 ⁵		2,47x10 ⁵	2,47x10 ⁵		3,02x10 ⁵	3,02x10 ⁵		2,47x10 ⁵	2,47x10 ⁵	3,02x10 ⁵	3,02x10 ⁵	2,47x10 ⁵
	Lz _{min}	mm				950	950					946	946			950
	La	mm				200	200					200	200			200
	G _G	Kg														
	Jm _G	Kgm²														
0.03	C _G	Nm/rad.														
	Lf _{min}	mm	423	423		449	449		360	360		445	445	383	383	449
	G _G	kg	22,8	23,4		21,0	21,6		24,7	24,7		22,9	22,9	23,4	25	26,2
	Jm _G	kgm²	0,066	0,076		0,0628	0,0728									
0.04	C _G	Nm/rad.	3,35x10 ⁵	3,35x10 ⁵		2,78x10 ⁵	2,78x10 ⁵									
	Lf _{min}	mm	434	134												
	D	mm	65	65												
	X	mm	48	48												
116	M1*	mm	106	106												
	Lf _{min}	mm	445	445												
	D	mm	65	65												
	X	mm	48	48												
9.01	M1*	mm	109	109												
	Lz _{max}	mm	545	545		648	648		482	482				505	505	
	La _{max}	mm	110	110		180	180		110	110				110	110	
	Lz _{min}	mm	505	505		538	538		442	442				465	465	
9.03	La _{min}	mm	70	70		70	70		70	70				70	70	
	Lz _{max}	mm	506	506					443	443				466	466	
	La _{max}	mm	110	110					110	110				110	110	
	Lz _{min}	mm	441	441					383	383				406	406	
9.04	La _{min}	mm	45	45					50	50				50	50	
	Lf	mm	408	408		408	408									
7.02	Lf	mm				204	204		141	141		200	200	164	164	204

* M1设计0.04与116的轴承系列200-M1=114,5mm

** 0.02 IM 为管 100x6

* M1 Design 0.04 and 116 with bearing series 200 - M1 = 114,5 mm

** 0.02 IM with tube 100x6

0.02 IM 无尼龙喷涂层

0.02 IM not rilsan coated

T_k = 目录转矩
 T_{DW} = 疲劳转矩
 T_{CS} = 功能极限转矩
 T_{FR} = 摩擦力矩
 L_c = 承载力系数
 W = 渐开线花键
 G_G = Lz_{min} 轴的重量
 G_R = 每1000mm管的重量
IM = 超大运转

T_k = Catalogue torque
 T_{DW} = Fatigue torque
 T_{CS} = Functional limit torque
 T_{FR} = Friction torque
 L_c = Bearing capacity factor
 W = Involute spline
 G_G = Weight of shaft for Lz_{min}
 G_R = Weight per 1000mm tube
IM = Extra large movement

Jm_G = Lz_{min} 轴承的转动惯量
 Jm_R = 每1000mm管道的转动惯量
 C_G = Lz_{min} 轴承的扭转刚度
 C_R = 每1000mm 钢管的扭转刚度

Jm_c = Moment of inertia of shaft for Lz_{min}
 Jm_R = Moment of inertia per 1000 mm tube
 C_G = Torsional stiffness of shaft for Lz_{min}
 C_R = Torsional stiffness per 1000 mm tube



687.45

$T_{CS} = 17,0 \text{ kNm}$

连接多样性

/ Variants of connection

DIN 	SAE
KV 	

设计多样性

/ Variants of design

0.02 	9.01
0.02 IM 	9.03
0.03 	9.04
0.04 - 可用于轴承转动 - Available with bearing and movement.	7.02
116 - 可用于轴承 - Available with bearing.	

可应要求提供更多设计!

More designs available on request!

期望 EXPECT > MORE 更多



$$T_{CS} = 17,0 \text{ kNm}$$

			687.45													
T _K	kNm	13,0														
T _{DW}	kNm	5,1														
L _c		0,104														
		DIN						SAE				KV				
T _{FR}	kNm	12,1	20,5	20,7	12,1	20,5	20,7	10,6	12,4	10,6	12,4	---	---		---	
K	mm	174														
β	°	25			35		25	25		25		25		37	44	
A	mm	180	180	225	180	180	225	203,2	203,2	203,2	203,2	155	180	155	180	
B ^{±0,1}	mm	155,5	155,5	196	155,5	155,5	196	184,12	184,12	184,12	184,12	130	150	130	150	
C ^{H7}	mm	110	110	140	110	110	140	196,8	196,8	196,8	196,8	---	---	---	---	
F	mm	3	3	5	3	3	5	3	3	3	3	---	---	---	---	
G	mm	12	12	15	12	12	15	11,1	11,1	11,1	11,1	16	18	16	18	
H ^{+0,2}	mm	14,1	16,1	16,1	14,1	16,1	16,1	10,1	11,1	10,1	11,1	13	15	13	15	
I		8	10	8	8	10	8	12	12	12	12	4	4	4	4	
M	mm	95	95	90	95	95	90	86	86	86	86	100	87	100	108	
S	mm	120x4			110x5			120x4		110x5		120x4		110x5	110x5	
W		68x1,75														
0.02	Lz _{min}	mm	595	595	585	703	703	693	577	577	685	685	605	579	713	729
	La	mm	110	110	110	180	180	180	110	110	180	180	110	110	180	180
	G _G	kg	35,7	36,2	37,7	38,4	38,8		38,8	38,8	41,4	41,4	38,2	38,1		42,4
	G _R	kg	11,44	11,44	11,44	12,95	12,95	12,95	11,44	11,44	12,95	12,95	11,44	11,44	12,95	12,95
	Jm _G	kgm²	0,1002		0,1342	0,1242										
	Jm _R	kgm²	0,0385	0,0385	0,0385	0,0385	0,0385	0,0385	0,0385	0,0385	0,0358	0,0358	0,0385	0,0385	0,0385	0,0358
	C _G	Nm/rad.	3,1x10 ⁵	3,1x10 ⁵	3,1x10 ⁵	2,18x10 ⁵	2,18x10 ⁵	2,18x10 ⁵								
	C _R	Nm/rad.	3,93x10 ⁵	3,93x10 ⁵	3,93x10 ⁵	3,65x10 ⁵	3,65x10 ⁵	3,65x10 ⁵	3,93x10 ⁵	3,93x10 ⁵	3,65x10 ⁵	3,65x10 ⁵	3,93x10 ⁵	3,93x10 ⁵	3,93x10 ⁵	3,65x10 ⁵
0.02 IM	Lz _{min}	mm	926	926	916	952	952	942	908	908	934	934	936	910	962	978
	La	mm	200	200	200	200	200	200	200	200	200	200	200	200	200	200
	G _G	Kg														
	Jm _G	Kgm²														
	C _G	Nm/rad.														
0.03	Lf _{min}	mm	425	425	415	451	451	441	407	407	433	433	435	409	461	477
	G _G	kg	28,0	28,8	30,0	28,8	28,8		30,8	30,8	30,8	30,8	30,1	30,1		31,8
	Jm _G	kgm²	0,0954		0,1294	0,0976										
	C _G	Nm/rad.	4,82x10 ⁵		4,82x10 ⁵	3,71x10 ⁵										
	C _R															
0.04	Lf _{min}	mm	500	500	495											
	D	mm	80	80	80											
	X	mm	58	58	58											
	M1	mm	141	141	141											
	C _R															
116	Lf _{min}	mm	575	575	575											
	D	mm	80	80	80											
	X	mm	58	58	58											
	M1	mm	141	141	141											
	C _R															
9.01	Lz _{max}	mm	557	557	547	658			539	539			567	541		
	La _{max}	mm	110	110	110	180			110	110			110	110		
	Lz _{min}	mm	517	517	507	538			499	499			527	501		
	La _{min}	mm	70	70	70	60			70	70			70	70		
	C _R															
9.03	Lz _{max}	mm	507	507	497				489	489			517	491		
	La _{max}	mm	110	110	110				110	110			110	110		
	Lz _{min}	mm	447	447	437				429	429			457	431		
	La _{min}	mm	50	50	50				50	50			50	50		
	C _R															
9.04	Lf _{min}	mm	380	380	360	380	380	360								
	C _R															
7.02	Lf	mm	190	190	180	190	190	180	172	172			200	174	200	216
	C _R															

0.02 IM 无尼龙喷涂层

0.02 IM not rilsan coated

T_k = 目录转矩
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 JM_R = Moment of inertia per 1000 mm tube
 C_G = Torsional stiffness of shaft for Lz_{min}
 C_R = Torsional stiffness per 1000 mm tube



687.47 - 687.55

$T_{CS} = 19,0 - 25,0 \text{ kNm}$

连接多样性

/ Variants of connection

DIN 	SAE
KV 	

设计多样性

/ Variants of design

0.02 	9.01
0.02 IM 	9.03
0.03 	9.04
0.04 - 可用于轴承转动 - Available with bearing and movement.	7.02
116 - 可用于轴承。 - Available with bearing.	

可应要求提供更多设计!

More designs available on request!

期望 EXPECT > MORE 更多



687.47 - 687.55
T_{CS} = 19,0 - 25,0 kNm

		687.47						687.55							
T _K	kNm	14,5						19,0							
T _{DW}	kNm	5,8						7,3							
L _c		0,104						0,236							
		DIN		SAE		KV		DIN			SAE		KV		
T _{FR}	kNm	12,1	20,5	10,6	12,4	---		12,1	20,5	12,1	20,5	20,7	10,6	12,4	---
K	mm	174						178							
β	°	25						25		35		25	25		25
A	mm	180	180	203,2	203,2	180		180	180	180	180	225	203,2	203,2	180
B ^{±0,1}	mm	155,5	155,5	184,12	184,12	150		155,5	155,5	155,5	155,5	196	184,12	184,12	150
C ^{H7}	mm	110	110	196,8	196,8	---		110	110	110	110	140	196,8	196,8	---
F	mm	3	3	3	3	---		3	3	3	3	5	3	3	---
G	mm	12	12	11	11	18		14	14	14	14	15	11,1	11,1	18
H ^{+0,2}	mm	14,1	16,1	10,1	11,1	15		14,1	16,1	14,1	16,1	16,1	10,1	11,1	15
I		8	10	12	12	4		8	10	8	10	8	12	12	4
M	mm	95	95	86	86	87		115	115	115	115	95	95	95	92
S	mm	120x5						120x6 (0.02 IM - 140x5)							
W		68x1,75						78x2							
0.02	Lz _{min}	mm	595	595	577	577	579	662	662	681	681	622	622	622	616
	La	mm	110	110	110	110	110	110	110	110	110	110	110	110	110
	G _G	kg	36,2	36,2	38,8	38,8	38,1	46,1	44,0	49,2	49,2	47,0	46,3	46,3	46,1
	G _R	kg	14,18	14,18	14,18	14,18	14,18	16,86	16,86	16,86	16,86	16,86	16,86	16,86	16,86
	Jm _G	kgm ²							0,131			0,151			
	Jm _R	kgm ²	0,047	0,047	0,047	0,047	0,047	0,055	0,055	0,055	0,055	0,055	0,055	0,055	0,055
	C _G	Nm/rad.						4,05x10 ⁵				4,05x10 ⁵			
0.02 IM	C _R	Nm/rad.	4,8x10 ⁵	4,8x10 ⁵	4,8x10 ⁵	4,8x10 ⁵	4,8x10 ⁵	5,6x10 ⁵	5,6x10 ⁵	5,6x10 ⁵	5,6x10 ⁵	5,6x10 ⁵	5,6x10 ⁵	5,6x10 ⁵	5,6x10 ⁵
	Lz _{min}	mm													
	La	mm													
	G _G	Kg													
	Jm _G	Kgm ²													
0.03	C _G	Nm/rad.													
	Lf _{min}	mm	425	425	407	407	409	475	475	495	495	435	435	435	429
	G _G	kg							33,1	34,9	34,9	36,1	35,1	35,1	34,9
	Jm _G	kgm ²							0,1176	0,1176	0,1176	0,1376			
0.04	C _G	Nm/rad.							5,39x10 ⁵	5,39x10 ⁵	5,39x10 ⁵	5,39x10 ⁵			
	Lf _{min}	mm						525	525			505			
	D	mm						80	80			80			
	X	mm						58	58			58			
116	M1	mm						141	141			141			
	Lf _{min}	mm						575	575			575			
	D	mm						80	80			80			
	X	mm						58	58			58			
9.01	M1	mm						141	141			141			
	Lz _{max}	mm	557	557	539	539	541	607	607	626	626	567	567	567	561
	La _{max}	mm	110	110	110	110	110	110	110	110	110	110	110	110	110
	Lz _{min}	mm	517	517	499	499	501	567	567	586	586	527	527	527	521
9.03	La _{min}	mm	70	70	70	70	70	70	70	70	70	70	70	70	70
	Lz _{max}	mm						563	563			523	523	523	517
	La _{max}	mm						110	110			110	110	110	110
	Lz _{min}	mm						503	503			463	463	463	457
9.04	La _{min}	mm						50	50			50	50	50	50
	Lf	mm						460	460	460	460	380			
7.02	Lf	mm						230	230	230	230	190	190	190	184

0.02 IM 无尼龙喷涂层

0.02 IM not rilsan coated

T_k = 目录转矩
T_{DW} = 疲劳转矩
T_{CS} = 功能极限扭矩
T_{FR} = 摩擦转矩
L_c = 承载力系数
W = 渐开线花键
G_G = Lz_{min} 轴的重量
G_R = 每1000mm 管的重量
IM = 超大运转

T_k = Catalogue torque
T_{DW} = Fatigue torque
T_{CS} = Functional limit torque
T_{FR} = Friction torque
L_c = Bearing capacity factor
W = Involute spline
G_G = Weight of shaft for Lz_{min}
G_R = Weight per 1000mm tube
IM = Extra large movement

Jm_G = Lz_{min} 轴承的转动惯量
Jm_R = 每1000mm 管道的转动惯量
C_G = Lz_{min} 轴承的扭转刚度
C_R = 每1000mm 钢管的扭转刚度

Jm_G = Moment of inertia of shaft for Lz_{min}
Jm_R = Moment of inertia per 1000 mm tube
C_G = Torsional stiffness of shaft for Lz_{min}
C_R = Torsional stiffness per 1000 mm tube



687.60 - 687.65

$T_{CS} = 30,0 - 35,0 \text{ kNm}$

连接多样性

/ Variants of connection

DIN	SAE
KV	

设计多样性

/ Variants of design

0.02	9.01
0.02 IM	9.03
0.03	9.04
0.04 - 可用于轴承转动 - Available with bearing and movement.	7.02
116 - 可用于轴承 - Available with bearing.	

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期望 EXPECT>MORE 更多



687.60 - 687.65
 $T_{CS} = 30,0 - 35,0 \text{ kNm}$

		687.60							687.65						
T_K	kNm	23,0							27,0						
T_{DW}	kNm	9,0							11,0						
L_c		0,392							0,837						
		DIN			SAE			KV	DIN			SAE			KV
T_{FR}	kNm	20,5			10,6	12,4		---	20,5	20,7	28,0	15,6			---
K	mm	194							204						
β	°	25							25						
A	mm	180			203,2	203,2		180	180	225	250	203,2			180
$B_{\pm 0,1}$	mm	155,5			184,15	184,15		150	155,5	196	218	184,12			150
C^{H7}	mm	110			196,8	196,8		---	110	140	140	196,8			---
F	mm	3			3	3		---	3	5	6	3			---
G	mm	14			11	11		18	15	15	18	11			18
$H^{+0,2}$	mm	16,1			10,1	11,1		15	16,1	16,1	18,25	12,1			15
I		10			12	12		4	10	8	8	12			4
M	mm	110			86	86		100	110	110	110	110			105
S	mm	130x6							142x6						
W		82x2							88x2,5						
0.02	Lz_{min}	mm	655		607	607		635	686	686	686	686			676
	La	mm	110		110	110		110	110	110	110	110			110
	G_G	kg	53,3		50,0	50,0		53,8	60,6	64,6	68,9	63,5			64,1
	G_R	kg	18,35		18,34	18,34		18,34	20,12	20,12	20,12	20,12			20,12
	Jm_G	kgm ²	0,1811						0,2224	0,2614					
	Jm_R	kgm ²	0,0707		0,0707	0,0707		0,0707	0,0932	0,0932	0,0932	0,0932			0,0932
	C_G	Nm/rad.	4,75x10 ⁵						5,63x10 ⁵	5,63x10 ⁵					
0.02 IM	C_R	Nm/rad.	7,2x10 ⁵		7,2x10 ⁵	7,2x10 ⁵		7,2x10 ⁵	9,5x10 ⁵	9,5x10 ⁵	9,5x10 ⁵	9,5x10 ⁵			9,5x10 ⁵
	Lz_{min}	mm							832	832	832	832			822
	La	mm							200	200	200	200			200
	G_G	Kg													
	Jm_G	Kgm ²													
0.03	C_G	Nm/rad.													
	Lf_{min}	mm	475		427	427		455	491	491	491	491			481
	G_G	kg	40,5		50,7	50,7		54,5	47,3	51,3	55,6	50,2			50,8
	Jm_G	kgm ²	0,161						0,2032	0,2422					
	C_G	Nm/rad.	6,2x10 ⁵						7,17x10 ⁵	7,17x10 ⁵					
0.04	Lf_{min}	mm	525						533	533					
	D	mm	80						80	80					
	X	mm	58						58	58					
	M1	mm	141						141	141					
	Lf_{min}	mm	575						575	575					
116	D	mm	80						80	80					
	X	mm	58						58	58					
	M1	mm	141						141	141					
	Lz_{max}	mm	610		562	562		590	641	641	641	641			631
	La_{max}	mm	110		110	110		110	110	110	110	110			110
9.01	Lz_{min}	mm	550		502	502		530	601	601	601	601			591
	La_{min}	mm	50		50	50		50	70	70	70	70			70
	Lz_{max}	mm							584	584	584	584			574
	La_{max}	mm							110	110	110	110			110
	Lz_{min}	mm							524	524	524	524			514
9.03	La_{min}	mm							50	50	50	50			50
	Lf_{min}	mm	440						440	440	440				
9.04															
7.02															

0.02 IM 无尼龙喷涂层

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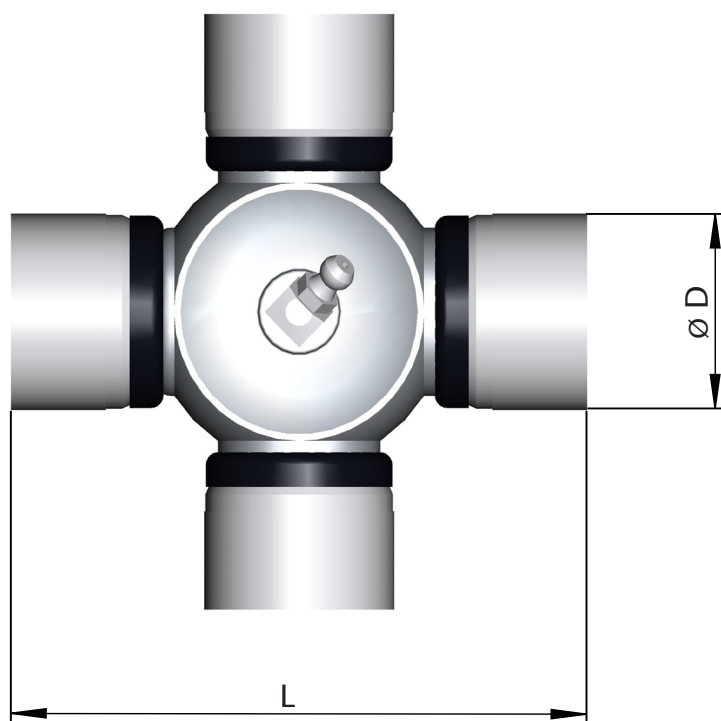
$JM_G = Lz_{min}$ 轴承的转动惯量
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 $C_G = Lz_{min}$ 轴承的扭转刚度
 C_R = 每1000mm 钢管的扭转刚度

JM_G = Moment of inertia of shaft for Lz_{min}
 JM_R = Moment of inertia per 1000 mm tube
 C_G = Torsional stiffness of shaft for Lz_{min}
 C_R = Torsional stiffness per 1000 mm tube



687.15 - 687.65

ZAPFENKREUZE



	$\varnothing D$	L
15	27,0	74,5
20	30,2	81,8
25	34,9	92,0
30	34,9	106,4
35	42,0	119,4
40	47,6	135,17
45/47	52,0	147,2
55	57,0	152,0
60	59,0	167,7
65	65,0	172,0

须知/ NOTICE



我们的产品范围: OUR PRODUCT RANGE:

- 最大静转矩 为70.000Nm的万向轴,法兰直径为58mm-285mm 。
 - 应用于工业的等速传动轴 最大静转矩为67.000Nm,法兰直径为74mm到275mm。 - 驱动轴可加长到6000mm。
 - 根据您的需求配有配对法兰。
 - 快速释放耦合以轻松快速的分离联合轴和链接设备。
 - 高度弹性联轴器吸收发射振动波。
-
- Cardan shafts with max. static torque of 70.000 Nm and flange diameter from 58 mm to 285 mm.
 - CV shafts for industrial applications with max. static torque of 67.000 Nm and flange diameter from 74 mm to 275 mm.
 - Driveshaft lengths of up to 6000mm are possible.
 - Companion flanges according to your requirements.
 - Quick release coupling for easy and fast disconnection of joint shafts and connected devices.
 - High flexible couplings to absorb emitted vibrations.

我们的服务:

OUR SERVICE:

- 为所有传动轴提供修理和维护服务。
 - 生产万向轴和等速传动轴。
 - 专业人士为我们服务中心提出核心建议。
 - 建造评估万向轴，等速传动轴和MIS 轴。
 - 计算寿命和扭转振动。
 - 有我们的专家现场支持解决方案。
 - ATEX-合格证明类型2和3。
-
- Repair and maintenance service for all driveshafts.
 - Manufacture of cardan shafts and CV shafts.
 - Expert advice from qualified personnel at our Service centres.
 - Construction and calculation of cardan shafts, CV shafts and MIS shafts for your application.
 - Life time and torsional vibration calculation.
 - Solution oriented on the spot support with our experts.
 - ATEX - conformity certificate category 2 and 3.