



## CABLE

Cable factory is a specialized production unit which includes manufacturing, testing, installation and construction with an annual output of more than 50000T. The factory with three international advanced levels of suspension, cable production lines produce bridge cables, building cables, the main cable strand, saddle, cable clip, cable sets loose, anchor boxes and other cable products. Currently the largest cable specification is  $\phi 7 \times 649$ .

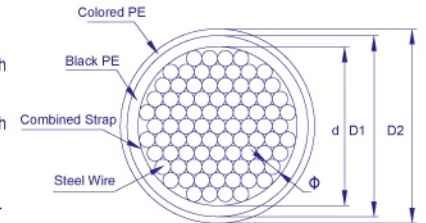
Cable factory has made a number of leading international scientific and technological achievements and national patents, and participated the "Cable for Architectural Structure", "Technical Specification For Cable Structure", "Acceptance of Membrane Structure" and other industrial standards.



## ● CABLE BODY PARAMETER TABLE

- In accordance with standard GB/T18365-2001 " Technical Conditions of High Tension Wire Cable with Hot-Extruding HDPE Protection For Cable-Stayed Bridge".
- Suitable for Construction Cable, Bridge Cable and Lifting Cable.
- Specialized technology: Knurling, Double Helix Wire( $d > 90\text{mm}$ ), Oil Greasing.

- D1: Outside Diameter with Single Sheath
- D2: Outside Diameter with Double Sheaths
- $\phi$ : Wire Diameter
- d: Max. Outside Diameter of Wire Strand



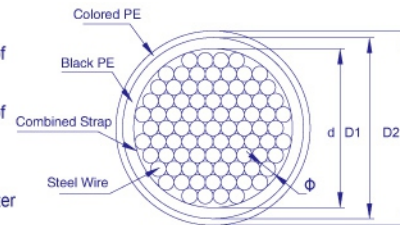
$\phi 5\text{mm} \quad \sigma_b = 1670\text{MPa}$

Specification	mm	mm	mm	kg/m	kg/m	mm <sup>2</sup>	kN
	Diameter of Wire Hank	Diameter of Single Sheath	Diameter of Double Sheaths	Wire Hank Weight	Cable Body Weight	Cross Section Area	Breaking Load
$\Phi 5 \times 7$	15	22	--	1.1	1.3	137	230
$\Phi 5 \times 13$	22	30	--	2.0	2.3	255	426
$\Phi 5 \times 19$	25	35	40	2.9	3.7	373	623
$\Phi 5 \times 31$	32	40	45	4.8	5.6	609	1017
$\Phi 5 \times 37$	35	45	50	5.7	6.8	726	1213
$\Phi 5 \times 55$	41	51	55	8.5	9.5	1080	1803
$\Phi 5 \times 61$	45	55	59	9.4	10.7	1198	2000
$\Phi 5 \times 73$	49	59	63	11.3	12.6	1433	2394
$\Phi 5 \times 85$	51	61	65	13.1	14.4	1669	2787
$\Phi 5 \times 91$	55	65	69	14.0	15.7	1787	2984
$\Phi 5 \times 109$	58	68	72	16.8	18.3	2140	3574
$\Phi 5 \times 121$	61	71	75	18.7	20.3	2376	3968
$\Phi 5 \times 127$	65	75	79	19.6	21.6	2494	4164
$\Phi 5 \times 139$	66	78	82	21.4	23.3	2729	4558
$\Phi 5 \times 151$	68	79	83	23.3	25.1	2965	4951
$\Phi 5 \times 163$	71	83	88	25.1	27.5	3200	5345
$\Phi 5 \times 187$	75	87	92	28.8	31.0	3672	6132
$\Phi 5 \times 199$	77	89	94	30.7	33.0	3907	6525
$\Phi 5 \times 211$	81	93	98	32.5	35.2	4143	6919
$\Phi 5 \times 223$	83	95	100	34.4	36.9	4379	7312
$\Phi 5 \times 241$	85	97	102	37.1	39.7	4732	7902
$\Phi 5 \times 253$	87	101	106	39.0	42.0	4968	8296
$\Phi 5 \times 265$	90	105	110	40.8	44.2	5203	8689
$\Phi 5 \times 283$	92	107	112	43.6	46.7	5557	9280
$\Phi 5 \times 301$	95	111	116	46.4	49.8	5910	9870
$\Phi 5 \times 313$	97	113	118	48.2	51.9	6146	10263
$\Phi 5 \times 337$	100	117	122	51.9	55.5	6617	11050
$\Phi 5 \times 349$	101	118	123	53.8	57.4	6853	11444
$\Phi 5 \times 367$	105	121	126	56.6	60.4	7206	12034
$\Phi 5 \times 379$	107	123	128	58.4	62.5	7442	12428
$\Phi 5 \times 409$	110	128	133	63.0	67.2	8031	13411
$\Phi 5 \times 421$	111	129	134	64.9	69.1	8266	13805
$\Phi 5 \times 439$	115	133	138	67.7	72.4	8620	14395
$\Phi 5 \times 451$	116	135	140	69.5	74.6	8855	14788
$\Phi 5 \times 475$	119	137	142	73.2	77.9	9327	15575
$\Phi 5 \times 499$	120	139	148	76.9	82.5	9798	16362
$\Phi 5 \times 511$	123	143	152	78.8	85.2	10033	16756
$\Phi 5 \times 547$	127	147	156	84.3	90.6	10740	17936
$\Phi 5 \times 583$	130	150	159	89.9	96.3	11447	19117
$\Phi 5 \times 595$	133	153	162	91.7	98.7	11683	19510
$\Phi 5 \times 649$	137	157	166	100.0	106.7	12743	21281

## ● CABLE BODY PARAMETER TABLE

- In accordance with standard GB/T18365-2001 "Technical Conditions of High Tension Wire Cable with Hot-Extruding HDPE Protection For Cable-Stayed Bridge".
- Suitable for Construction Cable, Bridge Cable and Lifting Cable.
- Specialized technology: Knurling, Double Helix Wire(d>90mm), Oil Greasing.

- D1: Outside Diameter of Single Sheath
- D2: Outside Diameter of Double Sheaths
- $\phi$ : Wire Diameter
- d: Max. Outside Diameter of Wire Strand



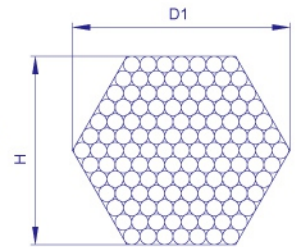
$\phi$  7mm  $\sigma_b = 1670\text{MPa}$

Specification	Diameter of Wire Hank (mm)	Diameter of Single Sheath (mm)	Diameter of Double Sheaths (mm)	Wire Hank Weight (kg/m)	Cable Body Weight (kg/m)	Cross Section Area (mm <sup>2</sup> )	Breaking Load (kN)
Φ7×7	21	30	--	2.1	2.5	269	450
Φ7×13	31	40	--	3.9	4.5	500	835
Φ7×19	35	45	50	5.7	6.8	731	1221
Φ7×31	44	55	60	9.4	10.7	1193	1992
Φ7×37	49	60	65	11.2	12.8	1424	2378
Φ7×55	58	68	72	16.6	18.1	2117	3535
Φ7×61	63	73	77	18.4	20.3	2348	3920
Φ7×73	68	78	82	22.1	23.9	2809	4692
Φ7×85	71	83	87	25.7	27.7	3271	5463
Φ7×91	77	89	93	27.5	30.2	3502	5848
Φ7×109	81	93	97	32.9	35.3	4195	7005
Φ7×121	85	99	103	36.6	39.4	4657	7777
Φ7×127	91	105	109	38.4	41.9	4888	8162
Φ7×139	92	107	111	42.0	44.9	5349	8933
Φ7×151	94	109	113	45.6	48.6	5811	9705
Φ7×163	99	114	118	49.2	52.7	6273	10476
Φ7×187	105	121	125	56.5	59.9	7197	12018
Φ7×199	108	124	128	60.1	63.8	7658	12790
Φ7×211	113	129	133	63.7	68.1	8120	13561
Φ7×223	116	133	137	67.4	71.6	8582	14332
Φ7×241	119	135	139	72.8	76.8	9275	15489
Φ7×253	122	139	143	76.4	81.0	9737	16260
Φ7×265	127	144	148	80.1	85.4	10198	17031
Φ7×283	129	147	151	85.5	90.3	10891	18188
Φ7×301	133	151	155	90.9	96.0	11584	19345
Φ7×313	135	154	158	94.6	100.0	12046	20116
Φ7×337	141	160	164	101.8	107.2	12969	21659
Φ7×349	142	162	166	105.4	111.1	13431	22430
Φ7×367	147	167	171	110.9	117.2	14124	23587
Φ7×379	149	170	174	114.5	121.3	14586	24358
Φ7×409	155	176	180	123.6	130.2	15740	26286
Φ7×421	155	177	181	127.2	133.8	16202	27057
Φ7×439	161	183	187	132.6	140.3	16895	28214
Φ7×451	163	185	189	136.2	144.2	17357	28985
Φ7×475	166	190	194	143.5	151.5	18280	30528
Φ7×499	169	193	202	150.7	160.3	19204	32070
Φ7×511	172	197	206	154.4	164.9	19666	32841
Φ7×547	177	204	213	165.3	175.9	21051	35155
Φ7×583	182	209	218	176.1	187.4	22436	37469
Φ7×595	186	213	222	179.8	192.0	22898	38240
Φ7×649	192	220	229	196.1	208.2	24976	41711

## ● TECHNICAL PARAMETERS FOR PPWS SUSPENSION BRIDGE

- In accordance with standard JT/T395-199 "Technical Conditions For PPWS Suspension Bridge".
- Suitable For: Main Cable of PPWS Suspension Bridge.

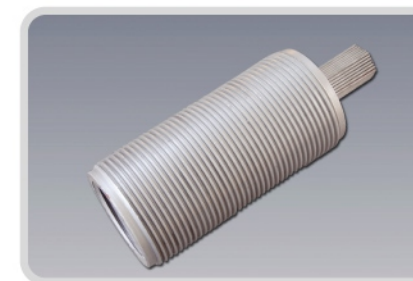
- D1: Max. diameter of wire Hank
- H: Height of wire Hank



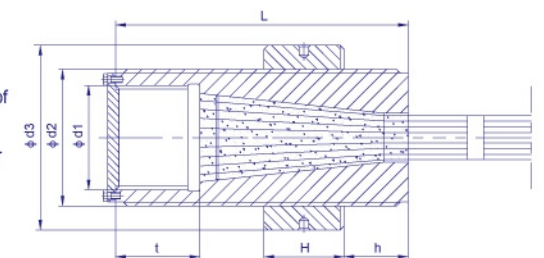
$\phi$  5mm,  $R_m = 1670\text{Mpa}$

Specification	Max. diameter of wire Hank (mm)	Wire Hank height (mm)	Cross section of wire Hank (mm <sup>2</sup> )	Wire hank weight (kg/m)	Standard breaking load (kN)
5X61	46	40	1198	9.4	2000
5X91	56	48	1787	14.0	2984
5X127	66	57	2494	19.6	4164
5X169	75	66	3318	26.0	5542

## ● TECHNICAL PARAMETERS FOR HOT-CAST UPSETTED ANCHORAGE PPWS SUSPENSION BRIDGE



- L: Anchorage length
- H: Nut height
- $\phi$  d1: Inside thread diameter of anchorage
- $\phi$  d2: Outside thread diameter of anchorage
- $\phi$  d3: Outside diameter of nut
- t: Stretching thread length
- h: Nut adjustment



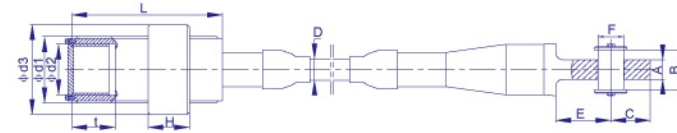
Specification	L (mm)	H (mm)	t (mm)	$\phi$ d1 (mm)	$\phi$ d2 (mm)	$\phi$ d3 (mm)	h (mm)
5X61	340	75	100	Tr110X8	Tr140X6	190	83
5X91	365	100	100	Tr130X8	Tr170X8	230	83
5X127	410	120	125	Tr150X10	Tr200X10	260	83
5X169	465	120	125	Tr165X10	Tr220X10	290	110

## ● TECHNICAL PARAMETERS OF UPSETTED ANCHORAGE FOR PPWS SUSPENSION BRIDGE



L: Anchorage length  
 H: Nut height  
 $\phi d1$ : Outside thread diameter of anchorage  
 $\phi d2$ : Inside thread diameter of anchorage  
 $\phi d3$ : Outside diameter of nut

A: Ear plate thickness  
 B: Pin length  
 D: Cable diameter  
 E: Ear board depth  
 F: Pin diameter



Specification	L	H	$\phi d1$	$\phi d2$	$\phi d3$	A	B	D	E	F
5X55	300	70	Tr135X6	Tr105X5	170	63	133	55	160	75
5X73	300	90	Tr150X8	Tr115X6	190	73	153	63	160	75
5X85	335	90	Tr165X8	Tr125X6	210	78	158	65	200	94
5X91	335	90	Tr165X8	Tr125X6	210	78	158	69	200	94
5X121	355	90	Tr185X8	Tr140X6	235	88	178	75	230	109
5X127	365	90	Tr185X8	Tr140X6	235	97	197	79	260	122
5X151	380	90	Tr200X8	Tr150X8	255	97	197	83	260	122
5X163	410	110	Tr205X10	Tr150X8	270	99	209	88	275	127
5X223	430	110	Tr225X10	Tr165X10	295	123	243	100	340	159



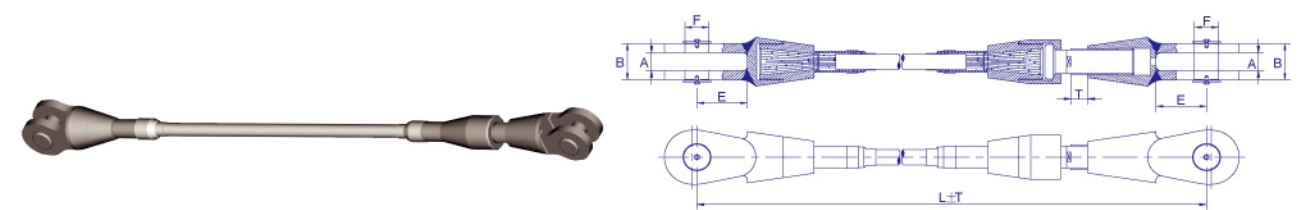
San Chafan Bridge is a self-anchored suspension bridge which is located in the northern section of the second ring in Changsha City. It is the main part and key project of the northern of the second ring. It is also the city's sixth crossing bridge over Xiangjiang River. The total length is 1,577 meters, two-ways with six-lanes, the largest span is 328 meters.

There are two main cables on the bridge and each cable is composed of 37 strands of parallel wire hank. Each hank is composed of 127 galvanized steel wires with diameter 5.1mm. There are 236 pieces of suspension cables, which all adopt parallel wire with size  $\Phi 5.1 \times 85$  and outer layer is duplex-decked with squeezed protection PE. There are 4 pieces of main cable saddles.

## ● FORK-EAR UNIDIRECTIONAL THREADED ROD TYPE

Patent Number ZL 2006 2 0175525.X

- Applicable for large span, roof structure.
- Waterproof performance ; There are water outlets in the center of U type socket; Adopt of Heat Shrink Tube will improve the capacity of waterproof
- Improve the structure of adjustable end, decrease bending moment and bending stress.
- There is space between the Adjustable Rod and Tailor-made Socket for easy working when there is stretching



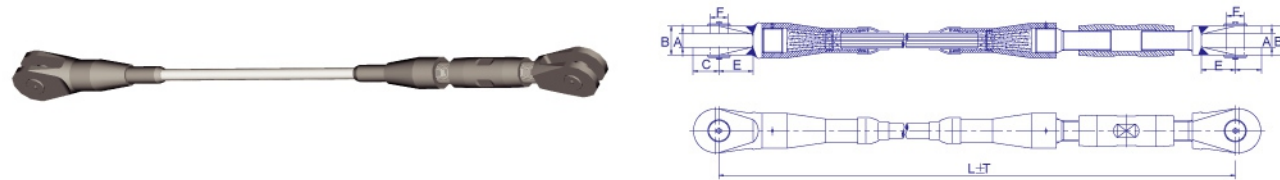
### $\phi 5$ Series

Specification	Cable Body Diameter	A	B	C	E	F	T
$\Phi 5 \times 7$	22	26	50	36	66	26	40
$\Phi 5 \times 13$	30	34	66	48	85	35	45
$\Phi 5 \times 19$	40	37	73	61	95	42	50
$\Phi 5 \times 31$	45	48	98	84	115	59	50
$\Phi 5 \times 37$	50	48	98	84	115	59	70
$\Phi 5 \times 55$	55	58	118	110	140	72	80
$\Phi 5 \times 61$	59	63	133	110	160	75	80
$\Phi 5 \times 73$	63	73	153	116	170	83	80
$\Phi 5 \times 85$	65	73	153	125	190	88	80
$\Phi 5 \times 91$	69	78	158	134	200	94	80
$\Phi 5 \times 109$	72	83	173	145	220	103	100
$\Phi 5 \times 121$	75	88	178	158	230	108	100
$\Phi 5 \times 127$	79	93	183	167	235	113	100
$\Phi 5 \times 139$	82	95	195	170	245	118	100
$\Phi 5 \times 151$	83	97	197	182	260	122	100
$\Phi 5 \times 163$	88	99	209	182	275	127	100
$\Phi 5 \times 187$	92	103	213	203	290	137	100
$\Phi 5 \times 199$	94	108	228	205	300	142	100
$\Phi 5 \times 211$	98	112	232	218	310	146	100
$\Phi 5 \times 223$	100	115	235	225	320	150	100
$\Phi 5 \times 241$	102	119	239	240	330	156	100
$\Phi 5 \times 253$	106	123	243	250	340	159	100
$\Phi 5 \times 265$	110	125	245	263	350	167	120
$\Phi 5 \times 283$	112	131	261	263	360	172	120
$\Phi 5 \times 301$	116	145	285	265	370	177	120

Note: 1. Anchorage opening (A) and Adjustable value (T) could be adjusted according to project requirement.  
 2.  $\Phi 7$  series anchorage sizes can be replaced by  $\Phi 5$  series according to its breaking load.

## ● FORK-EAR & SLEEVE TYPE Patent Number ZL 2006 2 0175527.9

- Apply to medium size and large size cable, the left end is for fixing, the right end is for adjusting. It could be adjusted in a big scope.
- Easy to be adjusted with high applicability.



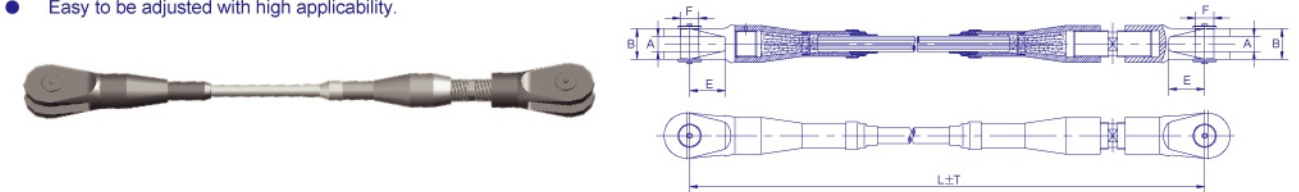
### φ 5 Series

Specification	Cable Body Diameter	A	B	C	E	F	T
Φ5×7	22	26	50	36	66	26	75
Φ5×13	30	34	66	48	85	35	75
Φ5×19	40	37	73	61	95	42	100
Φ5×31	45	48	98	84	115	59	100
Φ5×37	50	48	98	84	115	59	100
Φ5×55	55	58	118	110	140	72	100
Φ5×61	59	63	133	110	160	75	100
Φ5×73	63	73	153	116	170	83	100
Φ5×85	65	73	153	125	190	88	100
Φ5×91	69	78	158	134	200	94	100
Φ5×109	72	83	173	145	220	103	100
Φ5×121	75	88	178	158	230	108	100
Φ5×127	79	93	183	167	235	113	150
Φ5×139	82	95	195	170	245	118	150
Φ5×151	83	97	197	182	260	122	150
Φ5×187	92	103	213	203	290	137	150
Φ5×199	94	108	228	205	300	142	150
Φ5×211	98	112	232	218	310	146	150
Φ5×223	100	115	235	225	320	150	150
Φ5×241	102	119	239	240	330	156	150
Φ5×253	106	123	243	250	340	159	150
Φ5×265	110	125	245	263	350	167	150
Φ5×283	112	131	261	263	360	172	150
Φ5×301	116	145	285	265	370	177	200

- Note: 1. Anchorage opening (A) and Adjustable value (T) could be adjusted according to project requirement.  
 2. Φ7 series anchorage sizes can be replaced by Φ5 series according to its breaking load.

## ● FORK-EAR BIDIRECTIONAL THREADED ROD TYPE

- Apply to small sized cable and short cable, left end is for fixing, right end is for adjusting. The adjusting scope can be designed on customer's requirement.
- Decent and beautiful design can meet the requirement of the modern stadium and exhibition centre.
- Easy to be adjusted with high applicability.



### φ 5 Series

Specification	Cable Body Diameter	A	B	C	E	F	T
Φ5×7	22	26	50	36	66	26	40
Φ5×13	30	34	66	48	85	35	45
Φ5×19	40	37	73	61	95	42	50
Φ5×31	45	48	98	84	115	59	55
Φ5×37	50	48	98	84	115	59	55
Φ5×55	55	58	118	110	140	72	60
Φ5×61	59	63	133	110	160	75	60
Φ5×73	63	73	153	116	170	83	60
Φ5×85	65	73	153	125	190	88	70
Φ5×91	69	78	158	134	200	94	70

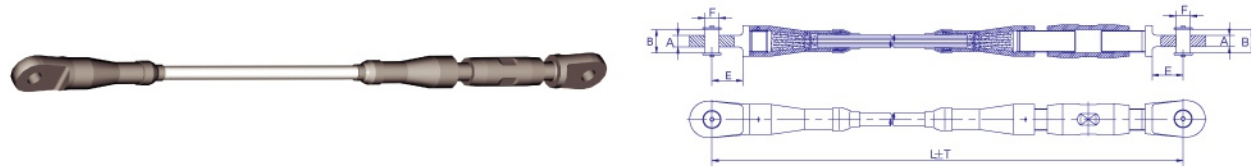
- Note: 1. Anchorage opening (A) and Adjustable value (T) could be adjusted according to project requirement.  
 2. Φ7 series anchorage sizes can be replaced by Φ5 series according to its breaking load.

Changping Integrative Stadium is located in the west of Changping South Circle road. The area is 47,157 square meters, the building area is 22,556 square meters, including 6,000 seats (4,000 fixed seats, and 2,000 movable seats). The center place is 8,000 square meters, the warm-up field is 1,300 square meters and the accessorial field is 13,256 square meters. There are dining-rooms, bath area, meeting rooms, office which totally 2020 square meters (Include Trans-Broadcast & Meeting & Multifunctional room around 1,000 square meters, Oriental-Western dining-room 440 square meters, Sauna rooms 620 square meters). There are 186 outdoor parking space. All the inner safe checking, monitors, fire protection facilities are complied with the National Stadium standard, which make it capable of holding matches.  
 Cable Specification: Φ5x127 Φ5x211



## ● SINGLE-EAR & SLEEVE TYPE

- Easy to be adjusted in a large scope, high applicability.



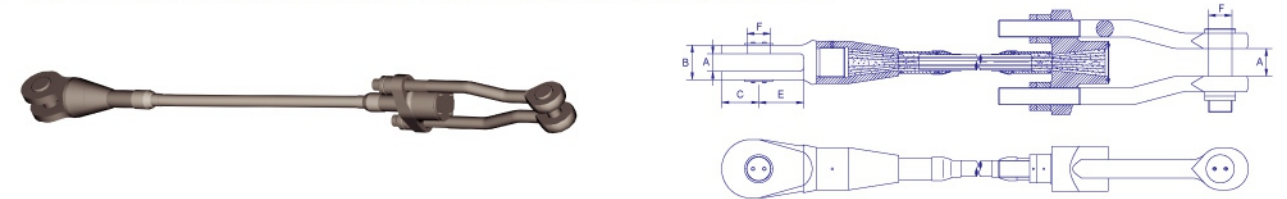
φ 5 Series

Specification	Cable Body Diameter	A	B	C	E	F	T
Φ5×7	22	26	50	36	66	26	75
Φ5×13	30	34	66	48	85	35	75
Φ5×19	40	37	73	61	95	42	100
Φ5×31	45	48	98	84	115	59	100
Φ5×37	50	48	98	84	115	59	100
Φ5×55	55	58	118	110	140	72	100
Φ5×61	59	63	133	110	160	75	100
Φ5×73	63	73	153	116	170	83	100
Φ5×85	65	73	153	125	190	88	100
Φ5×91	69	78	158	134	200	94	100
Φ5×109	72	83	173	145	220	103	100
Φ5×121	75	88	178	158	230	108	100
Φ5×127	79	93	183	167	235	113	150
Φ5×139	82	95	195	170	245	118	150
Φ5×151	83	97	197	182	260	122	150
Φ5×163	88	99	209	182	275	127	150
Φ5×187	92	103	213	203	290	137	150
Φ5×199	94	108	228	205	300	142	150
Φ5×211	98	112	232	218	310	146	150
Φ5×223	100	115	235	225	320	150	150
Φ5×241	102	119	239	240	330	156	150
Φ5×253	106	123	243	250	340	159	150
Φ5×265	110	125	245	263	350	167	150
Φ5×283	112	131	261	263	360	172	150
Φ5×301	116	145	285	265	370	177	200

Note: 1. Anchorage opening (A) and Adjustable value (T) could be adjusted according to project requirement.  
2. Φ7 series anchorage sizes can be replaced by Φ5 series according to its breaking load.

## ● DOUBLE THREADED ROD TYPE Patent Number ZL 2006 2 0175528.3

- Apply to medium size and small cable
- The left end of the cable is for fixing, the right end is for adjusting. The adjusting range is big. Special type can be designed according to the customer's requirement.
- Easy to be adjusted and convenient to make stretching during the construction, high applicability.



φ 5 Series

Specification	Cable Body Diameter	A	B	C	E	F	T
Φ5×73	63	73	153	116	170	83	80
Φ5×85	65	73	153	125	190	88	80
Φ5×91	69	78	158	134	200	94	80
Φ5×109	72	83	173	145	220	103	100
Φ5×121	75	88	178	158	230	108	100
Φ5×127	79	93	183	167	235	113	100
Φ5×139	82	95	195	170	245	118	100
Φ5×151	83	97	197	182	260	122	100
Φ5×163	88	99	209	182	275	127	100
Φ5×187	92	103	213	203	290	137	100
Φ5×199	94	108	228	205	300	142	100
Φ5×211	98	112	232	218	310	146	100
Φ5×223	100	115	235	225	320	150	100
Φ5×241	102	119	239	240	330	156	100
Φ5×253	106	123	243	250	340	159	100
Φ5×265	110	125	245	263	350	167	120
Φ5×283	112	131	261	263	360	172	120
Φ5×301	116	145	285	265	370	177	120

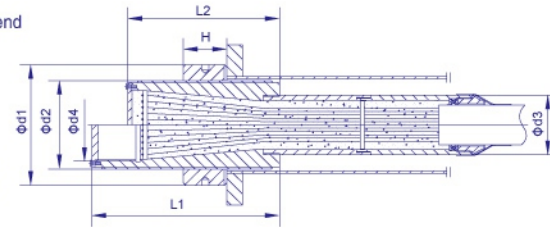
Note: 1. Anchorage opening (A) and Adjustable value (T) could be adjusted according to project requirement.  
2. Φ7 series anchorage sizes can be replaced by Φ5 series according to its breaking load.



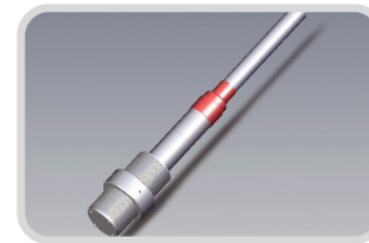
## ● COLD-CAST UPSETTED ANCHORAGE (ENTERPRISE STANDARD)



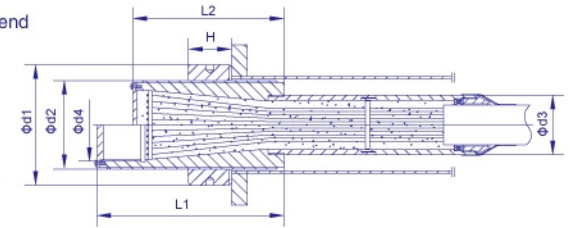
- L1: Length of the anchorage at tensioning end
- L2: Length of the anchorage at fixed end
- H: Nut height
- d1: Outside diameter of nut
- d2: Outside thread diameter of anchorage
- d3: Outside diameter of connecting sleeve
- d4: Inside thread diameter of anchorage



## ● COLD-CAST UPSETTED ANCHORAGE (ENTERPRISE STANDARD)



- L1: Length of the anchorage at tensioning end
- L2: Length of the anchorage at fixed end
- H: Nut height
- d1: Outside diameter of nut
- d2: Outside thread diameter of anchorage
- d3: Outside diameter of connecting sleeve
- d4: Inside thread diameter of anchorage



### φ 5 Series

Specification	L1	L2	H	d1	d2	d3	d4
5X55	280	240	75	190	Tr140X6	93	Tr110X6
5X61	340	240	75	190	Tr140X6	93	Tr110X8
5X73	350	280	100	210	Tr160X8	100	Tr120X8
5X85	350	280	100	210	Tr160X8	100	Tr120X8
5X91	365	295	100	230	Tr170X8	112	Tr130X8
5X109	390	295	120	240	Tr180X10	112	Tr135X10
5X121	400	305	120	250	Tr190X10	119	Tr140X10
5X127	410	315	120	260	Tr200X10	125	Tr150X10
5X139	430	325	120	270	Tr200X10	125	Tr150X10
5X151	440	325	120	270	Tr200X10	131	Tr150X12
5X163	460	345	140	280	Tr210X12	131	Tr155X12
5X187	470	355	140	290	Tr220X12	131	Tr160X12
5X199	500	360	140	300	Tr230X12	138	Tr165X14
5X211	500	360	140	300	Tr230X12	144	Tr170X14
5X223	510	370	170	310	Tr240X12	144	Tr175X14
5X241	530	380	170	330	Tr250X14	150	Tr180X14
5X253	560	390	170	340	Tr260X14	150	Tr190X16
5X265	570	400	170	340	Tr260X14	157	Tr190X16
5X283	580	410	170	350	Tr270X14	157	Tr200X16
5X301	590	420	190	360	Tr280X16	166	Tr205X16

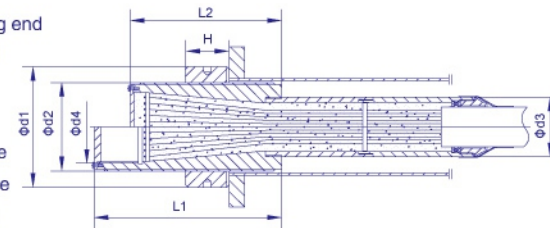
### φ 7 Series

Specification	L1	L2	H	d1	d2	d3	d4
7X55	385	340	80	230	Tr170X6	119	Tr140X6
7X61	385	340	80	230	Tr170X6	119	Tr140X6
7X73	400	360	100	250	Tr190X8	125	Tr155X6
7X85	400	360	100	250	Tr190X8	131	Tr155X6
7X91	440	370	100	260	Tr200X8	138	Tr165X8
7X109	460	390	120	290	Tr220X10	138	Tr180X8
7X121	510	415	120	300	Tr230X10	144	Tr185X10
7X127	520	425	120	310	Tr240X10	150	Tr195X10
7X139	520	425	120	310	Tr240X10	157	Tr195X10
7X151	530	435	120	330	Tr250X10	157	Tr195X10
7X163	550	455	120	340	Tr260X10	166	Tr205X10
7X187	580	485	150	350	Tr270X12	166	Tr215X10
7X199	620	515	150	370	Tr280X12	178	Tr220X10
7X211	630	525	150	380	Tr290X12	178	Tr230X10
7X223	640	535	150	390	Tr300X12	192	Tr235X10
7X241	665	545	170	400	Tr310X14	192	Tr240X12
7X253	700	570	170	420	Tr320X14	192	Tr250X12
7X265	700	570	170	420	Tr320X14	192	Tr260X12
7X283	730	590	170	430	Tr330X14	201	Tr265X14
7X301	750	610	190	440	Tr340X16	217	Tr270X14
7X313	795	630	190	470	Tr360X16	217	Tr285X16
7X337	795	630	190	470	Tr360X16	217	Tr285X16
7X349	815	650	190	480	Tr360X16	243	Tr295X15
7X367	815	650	190	480	Tr370X18	243	Tr295X16
7X397	865	690	220	510	Tr390X18	243	Tr310X16
7X421	890	720	220	520	Tr400X18	243	Tr320X16

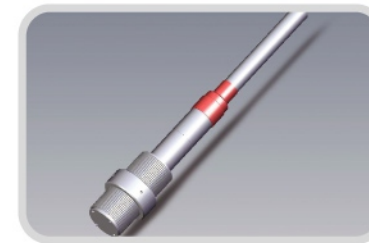
## ● COLD-CAST UPSETTED ANCHORAGE (NATIONAL STANDARD)



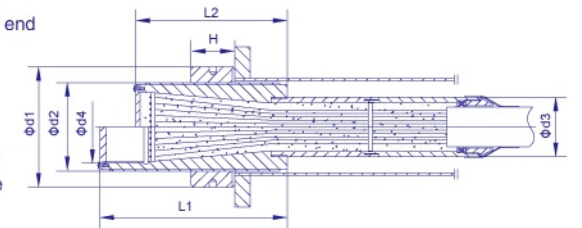
- L1: Length of the anchorage at tensioning end
- L2: Length of the anchorage at fixed end
- H: Nut height
- d1: Outside diameter of nut
- d2: Outside thread diameter of anchorage
- d3: Outside diameter of connecting sleeve
- d4: Inside thread diameter of anchorage



## ● COLD-CAST UPSETTED ANCHORAGE (NATIONAL STANDARD)



- L1: Length of the anchorage at tensioning end
- L2: Length of the anchorage at fixed end
- H: Nut height
- d1: Outside diameter of nut
- d2: Outside thread diameter of anchorage
- d3: Outside diameter of connecting sleeve
- d4: Inside thread diameter of anchorage

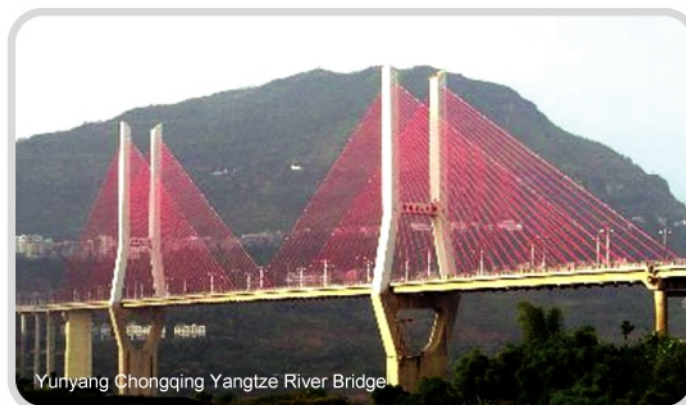


### φ 5 Series

Specification	L1	L2	H	d1	d2	d3	d4
5X55	300	300	70	170	Tr135X6	93	Tr105X5
5X61	300	300	70	180	Tr140X6	93	Tr110X5
5X73	300	300	90	190	Tr150X8	100	Tr115X6
5X85	335	335	90	210	Tr165X8	100	Tr125X6
5X91	335	335	90	210	Tr165X8	112	Tr125X6
5X109	340	290	90	225	Tr175X8	112	Tr135X6
5X121	355	300	90	235	Tr185X8	119	Tr140X6
5X127	365	300	90	235	Tr185X8	125	Tr140X8
5X139	365	300	90	250	Tr195X8	125	Tr145X8
5X151	380	310	90	255	Tr200X8	131	Tr150X8

### φ 7 Series

Specification	L1	L2	H	d1	d2	d3	d4
7X55	350	295	90	220	Tr175X8	119	Tr130X8
7X61	360	295	90	230	Tr180X8	119	Tr135X8
7X73	370	295	90	250	Tr190X8	125	Tr140X8
7X85	410	325	110	270	Tr205X10	131	Tr150X8
7X91	410	325	110	275	Tr210X10	138	Tr155X8
7X109	430	335	110	295	Tr225X10	138	Tr165X10
7X121	450	345	135	310	Tr240X12	144	Tr175X10
7X127	450	340	135	320	Tr245X12	150	Tr180X10
7X139	460	335	135	325	Tr250X12	157	Tr180X12
7X151	480	355	135	340	Tr265X12	157	Tr190X12
7X163	510	375	135	350	Tr270X12	166	Tr195X12
7X187	520	375	155	375	Tr285X12	166	Tr205X12
7X199	540	395	155	385	Tr300X14	178	Tr215X14
7X211	555	390	180	400	Tr310X14	178	Tr220X14
7X223	575	410	180	405	Tr315X14	192	Tr225X14
7X241	585	415	180	425	Tr330X16	192	Tr235X16
7X253	595	425	180	435	Tr335X16	192	Tr240X16
7X265	610	425	200	445	Tr345X16	192	Tr245X16
7X283	635	445	200	450	Tr345X18	201	Tr245X18
7X301	645	450	200	470	Tr360X18	217	Tr255X18
7X313	655	460	200	470	Tr365X18	217	Tr260X18
7X337	695	480	220	495	Tr385X20	243	Tr270X18
7X349	710	495	220	500	Tr385X20	271	Tr270X20
7X367	715	500	220	510	Tr390X20	271	Tr275X20
7X379	725	510	220	520	Tr400X20	287	Tr280X20
7X409	755	510	245	540	Tr415X22	290	Tr290X22
7X421	775	530	245	545	Tr420X22	295	Tr295X22



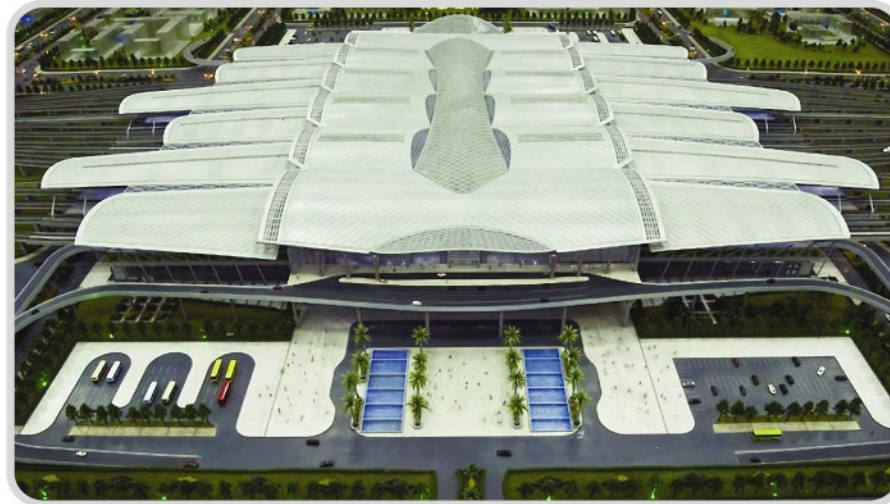
Yuyang Chongqing Yangtze River Bridge project began on the cross of the new North Shore of Yuyang County and Riverside Road, across the Yangtze River, beyond the south cross of Panshi Town and the Kaili Road. The bridge structure for the twin tower cable-stayed double cable planes of high and low, with a 637m long main bridge and 318m main span, was completed in September 2005.

Cable-stayed specification ranges: φ7x73, φ7x91, φ7x109, φ7x127, φ7x139, φ7x163, φ7x187, φ7x199, the number is 120 pieces, the wire weight is 1040.93 tons.

PE protective layer of cable body: using double PE co-extrusion technology, black PE and orange PE.

## ● STEEL CABLE OF CONSTRUCTION

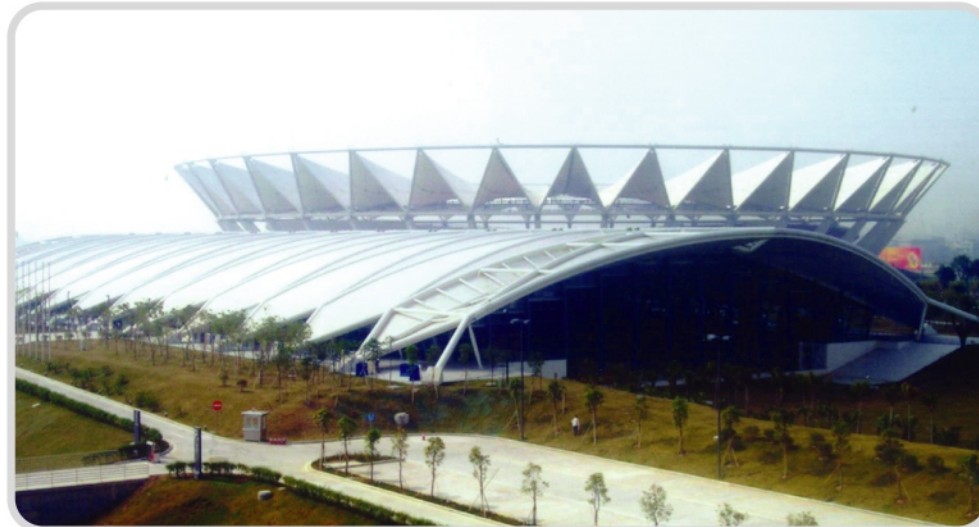
- 📍 Guangzhou Railway Station
- Size and Quantity: 5x61 ~ 6 sizes with amount 337 pieces



- 📍 Shanghai World Expo Theme Pavilions
- Size and Quantity: 5x61 ~2 sizes with amount 409 pieces



- 📍 Foshan Century Lotus Sport Center
- Size and Quantity:  $\phi$  30 steel strand, 5x7 ~8 sizes with amount 337 pieces.



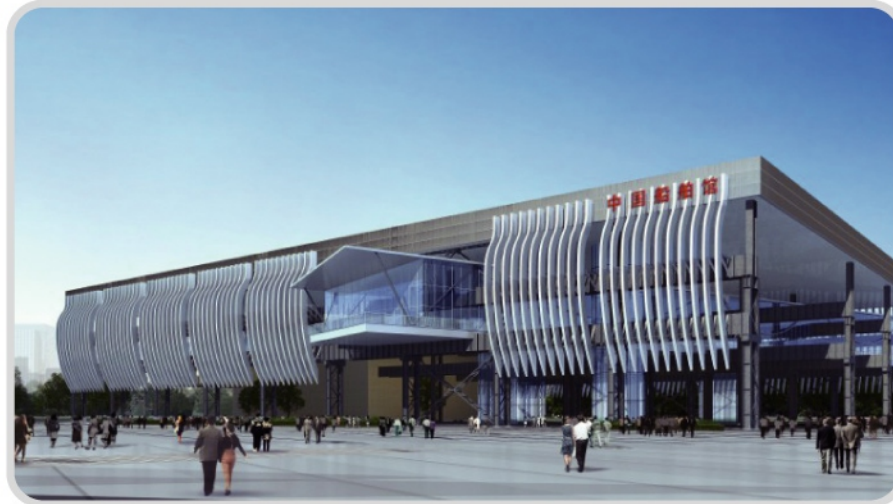
- 📍 Yingkou Coastal Industry Base Olympic Center
- Size and quantity : 5x253, 7x283, 7x421.





## ● STEEL CABLE OF CONSTRUCTION

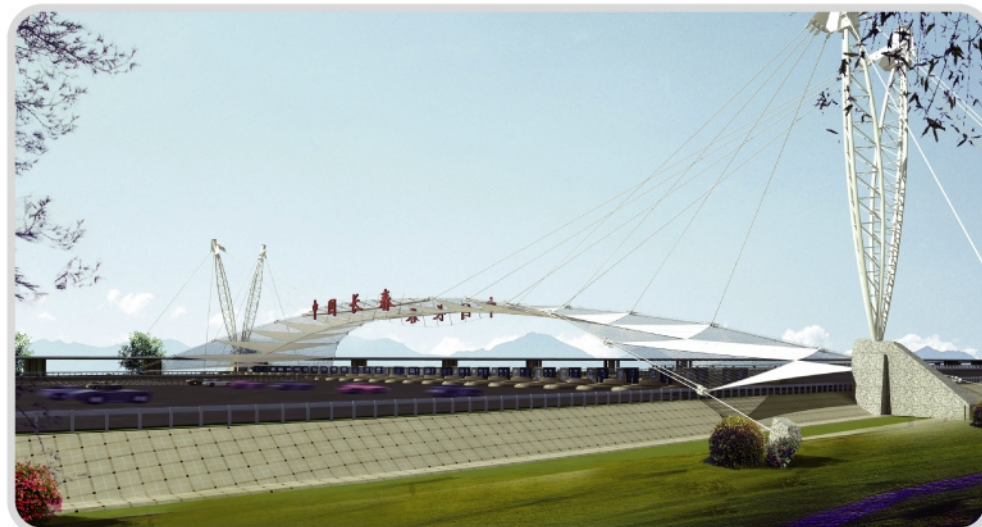
- 📍 Shanghai World Expo Shipping Pavilions
- Size and Quantity: 7x379, 7x187 ,2 sizes



- 📍 Huaibei Stadium
- Size and quantity: 5x13~5x265, totally 14 sizes



- 📍 Changchun Eastern Toll Station Canopy
- Size and quantity:  $\phi$  18 steel strand, 5x31,5x55,7x55,7x61,7x85,7x91, 7x187,7x241,7x313,7x337,7x349,7x421, totally 14sizes

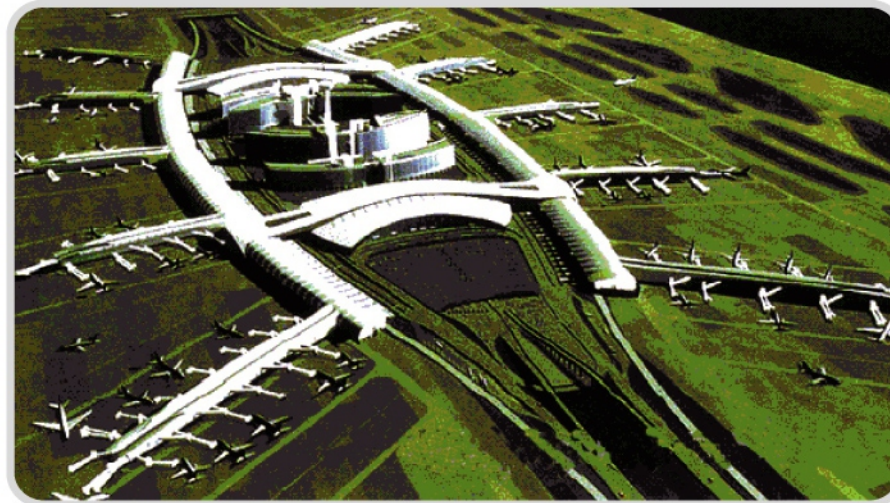


- 📍 Luoyang Stadium
- Size and quantity: 7x127~301, totally 3 sizes



## ● STEEL CABLE OF CONSTRUCTION

- Guangzhou Baiyun International Airport
- Size and quantity: 7x379~7x187, totally 2 sizes



- Fuzhou South Railway Station
- Size and quantity: 5x151~5x301, totally 3 sizes



- Xinjiang Sports Center Stadium
- Size and quantity: 5x583,5x547,5x451,5x421,5x409, 5x379,5x283,5x187,5x163,5x109,5x91,5x55



- Tianjin Railway Station Extension
- Size and quantity: 5x139, 1 size



## ● CABLE FOR BRIDGE



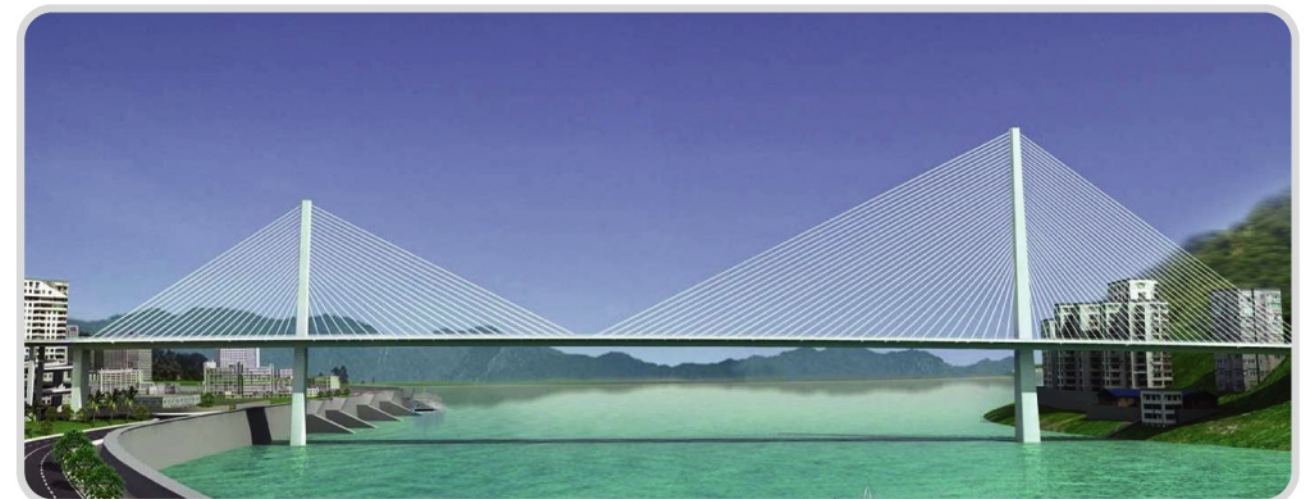
④ Four Bridge of Xiangjiang  
● Size and Quantity: 7x61 ~ 187, totally 4 sizes



④ Lidu Yangtze River Bridge in Poling Chongqing  
● Size and Quantity: 7x109 ~ 265, totally 10 sizes

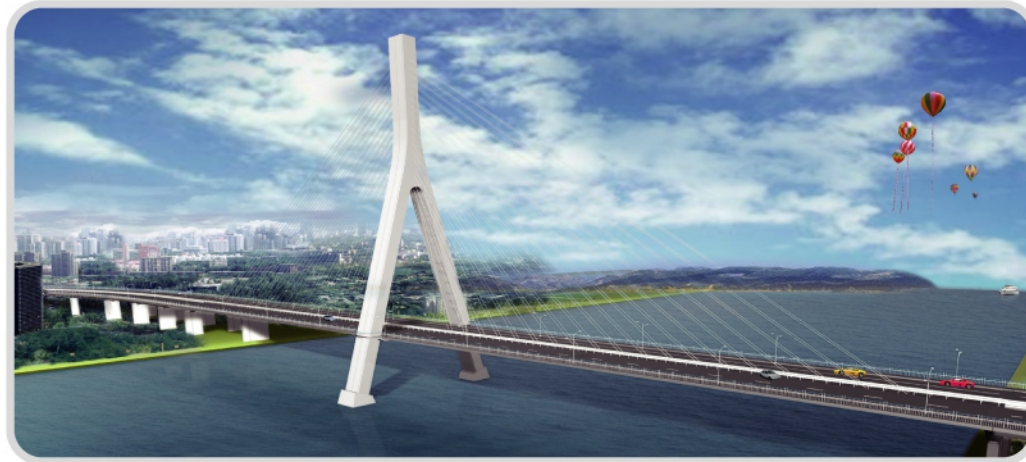


④ The Yangtze River Highway Bridge in Changshou Chongqing  
● Size and Quantity: 7x127 ~ 283, totally 7 sizes



④ Wujiang Second Bridge of Chongqing City  
● Size and Quantity: 7x187 ~ 421, totally 6 sizes

## ● CABLE FOR BRIDGE



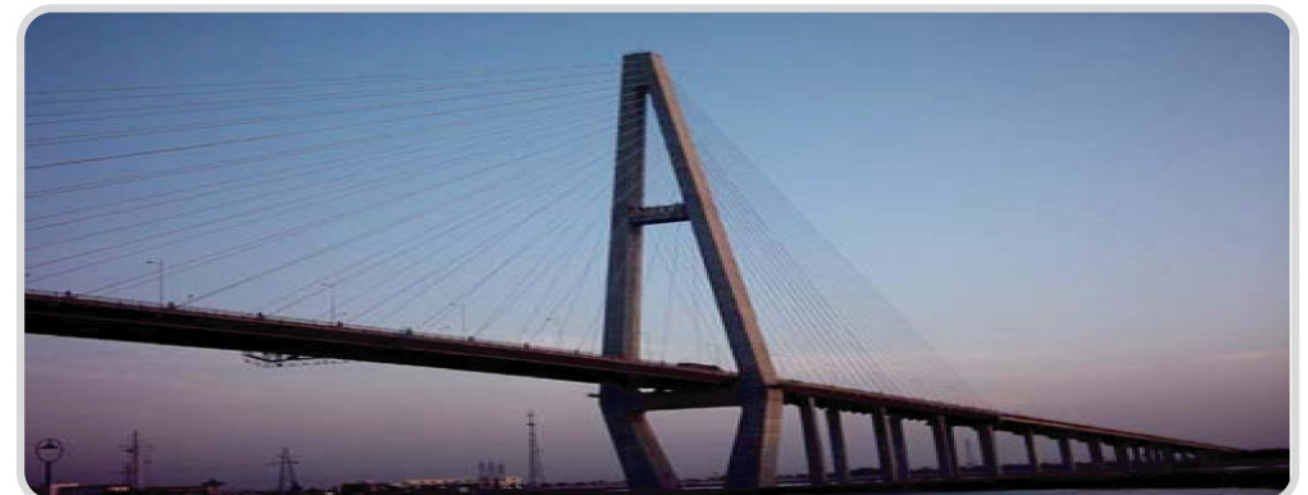
📍 Zhejiang Linhai Bridge  
● Size and quantity: 7x109~163, totally 5 sizes



📍 Weihai Chang Huikou Bridge  
● Size and quantity: 7x163, totally 1 size



📍 Tianjin Hebei Street Bridge  
● Size and quantity: 7x61~109, totally 5 sizes



📍 Tianjin Haihe Bridge  
● Size and quantity: 7x85~367, totally 8 sizes

## ● THE MAIN CABLE AND LIFTING CABLE FOR SUSPENSION BRIDGE



📍 Ningbo Qingfeng Bridge  
● Size and Quantity: Main Cable Strand 37 - 5.1x91, span 280m, Lifting Rod 5x91, 5x121



📍 Changzhou Longcheng Bridge  
● Size and Quantity: Main Cable Strand 7x397, span 110m, Back-Stayed Cable 7x253, Lifting Rod 7x73



📍 Beijing Changping South Circle Road Bridge  
● Size and Quantity: Main Cable Strand 19 - 5.4x127, span 177m, Lifting Rod 7x73



📍 Qin Zhou Zicai Bridge  
● Size and Quantity: Main Cable Strand 37 -  $\phi$  5.3x127, span 158m, Lifting Cable  $\phi$  7x121,  $\phi$  250 rigid lifting rod

## ● THE MAIN CABLE AND LIFTING CABLE FOR SUSPENSION BRIDGE

- 📍 Wuhan Yingwu Zhou Yangtze River Bridge
- Size and quantity: Main Cable 128-5.25x127,  
Span 850m for single tower  
Lifting Rod size 5x151,5x211



- 📍 Liujiaxia Across Yellow River Bridge
- Size and quantity: Main Cable 88-5.2x127,  
Span 536m, Lifting Rod size 5x73



- 📍 Inner Mongolia Huolinguole City Hebei Street Bridge
- Size and quantity: Main Cable 74-5x127,span 140m  
Lifting Rod size 7x121



- 📍 Chaobai River Bridge in West Line of Miyun, Beijing
- Size and quantity: Main Cable 88-5.2X127, Single Tower Suspension Bridge, Span 165m,  
Lifting Rod size 5x73

