

CHEN KANG
晨康

Committed to the design&manufacture
of steel tie rod for marine projects



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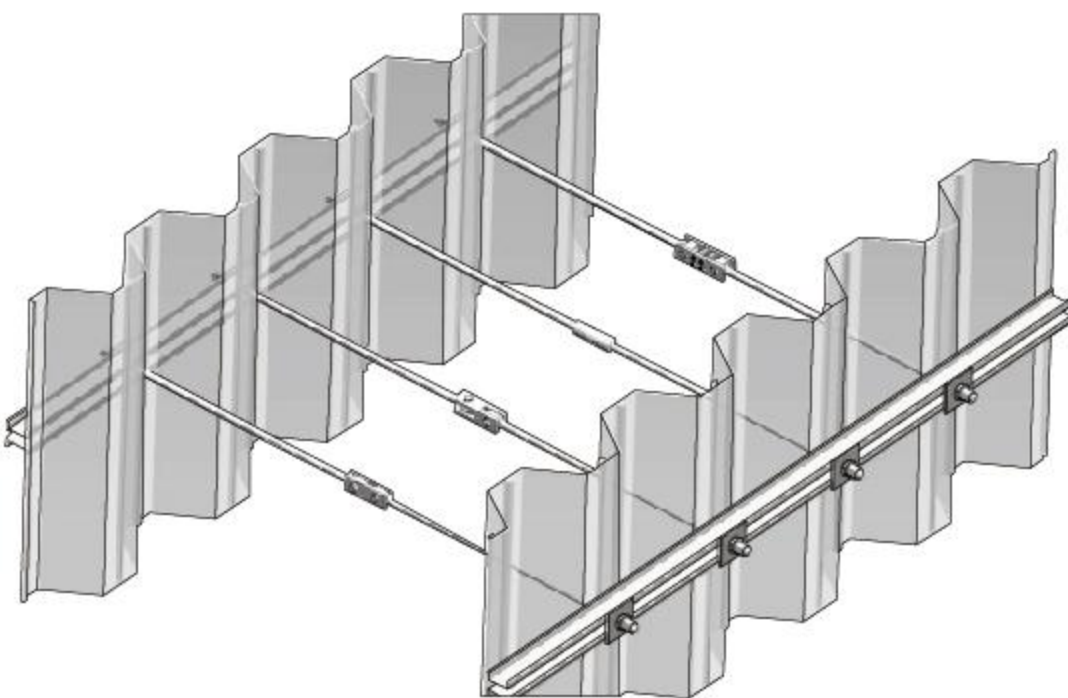
CE ANCHORS FOR MARINE PROJECTS D20-D160



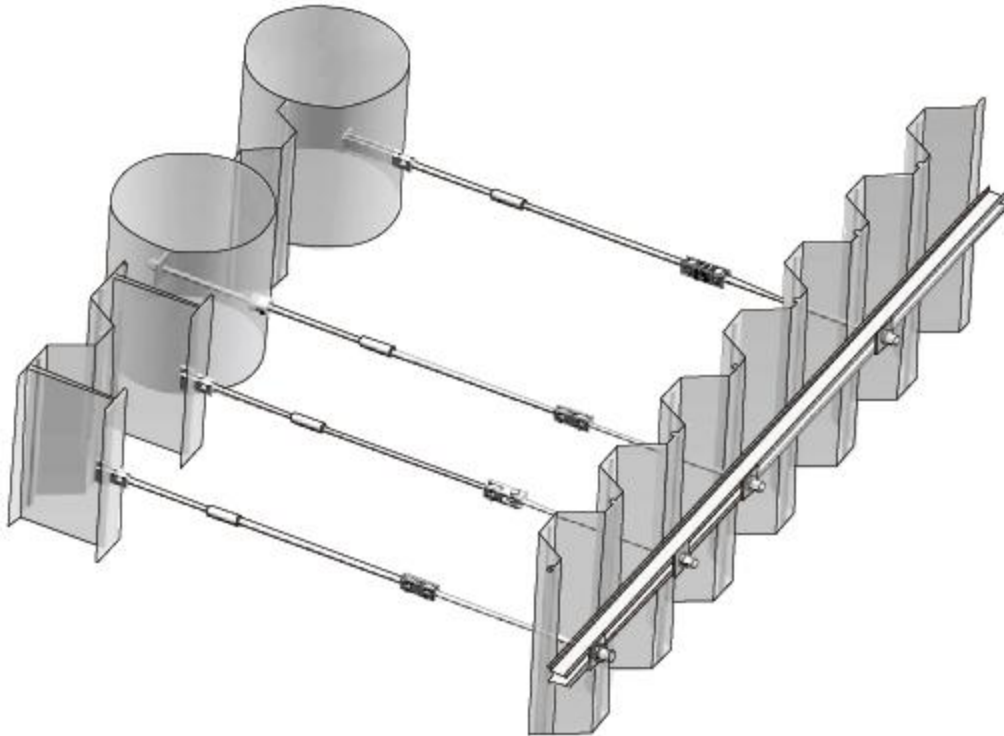
JIANGYIN CITY CHENKANG
MACHINE LIFTING TOOLS CO., LTD
WWW.JYCHENKANG.COM

CHENKANG ANCHORS FOR
MARINE STRUCTURES

Chenkang is committed to the design and manufacture of steel tie rods for retaining structures such as quay walls, berths, and abutments. Our tie rods range in diameter from D20 to D160 and could be supplied of steel grades 355, 460, 500 and 700. Chenkang tie rods are produced from round steel bars with forged or threaded ends, which allow different kinds of connections to be made to sheet piles, pipe piles, H-piles and combi-walls.



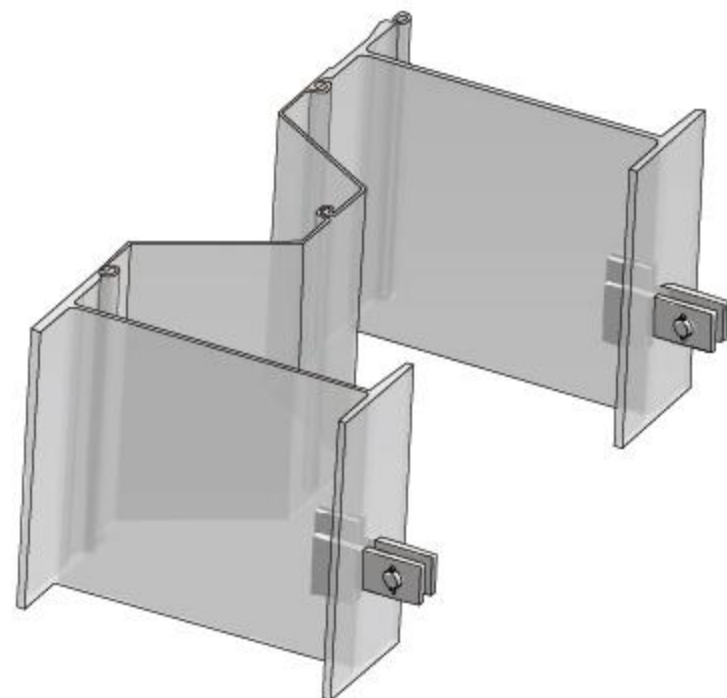
Z Pile and U Pile Tie-Back System



Combi-wall Tie-Back System



Pipe Pile Connections



H King Pile Connections

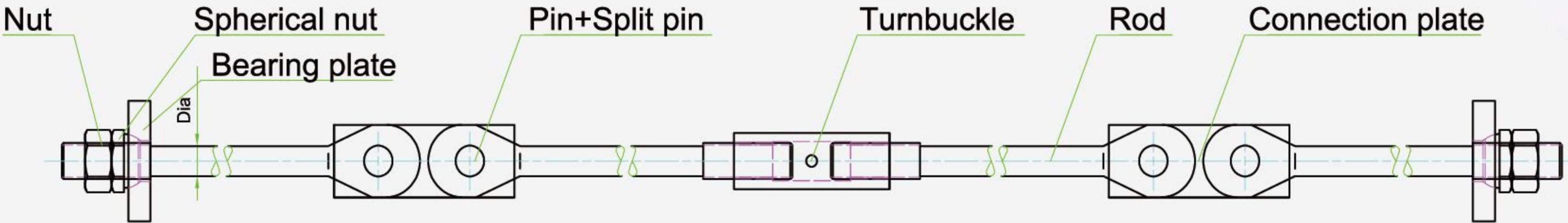
STEEL GRADES

	Diameter	Fy N/mm2	Fua N/mm2
Grade 355	D40-D160	355	510
Grade 460	D40-D160	460	610
Grade 500	D40-D160	500	700
Grade 700	D40-D160	700	900

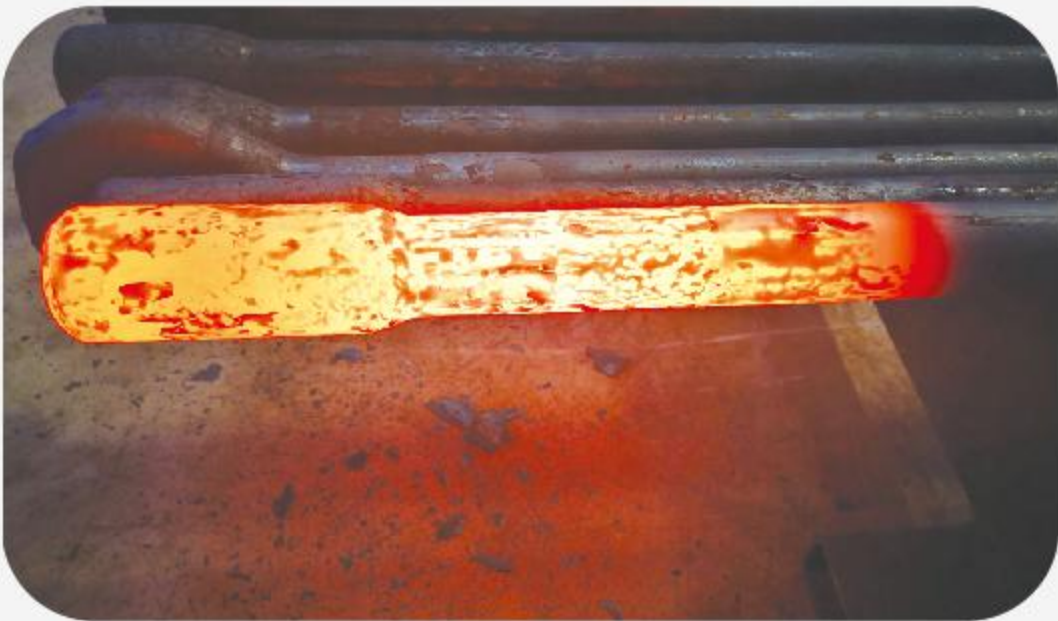


Depending on different diameters and lengths required Chenkang tie rods are produced by using selected fine grained steel, high-strength low-alloy steel or tempered steel. All tie rods and necessary components are manufactured to a quality system of ISO9001 and are CE marked.

The higher grades of steel will always produce the lighter weight tie rods, but this might not be suitable for stiffness requirements, welding at the jobsite or delivery times. The choice of steel is dependent on clients' specific project requirements but the above minimum properties would be reached. Steel of other grades are available at Chenkang, please contact us for more information.

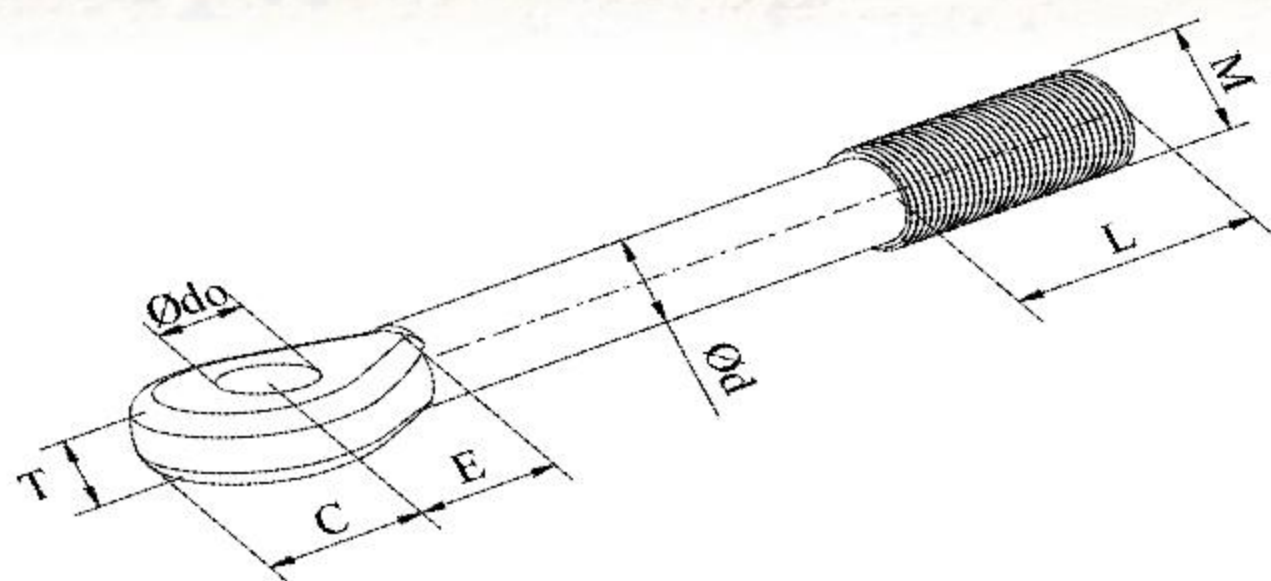


Dia	Thread	Grade 355/510		Grade 500/700		Grade 700/900	
		Yield load	Ultimate load	Yield load	Ultimate load	Yield load	Ultimate load
mm		355MPa	470MPa	500MPa	700MPa	700MPa	900MPa
40	M48	446	641	628	879	879	1130
45	M52	564	811	795	1113	1113	1431
50	M60	697	1001	981	1374	1374	1766
55	M64	843	1211	1187	1662	1662	2137
60	M72	1003	1441	1413	1978	1978	2543
65	M76	1177	1691	1658	2322	2322	2985
70	M85	1366	1962	1923	2693	2693	3462
75	M90	1568	2252	2208	3091	3091	3974
80	M95	1784	2562	2512	3517	3517	4522
85	M100	2013	2893	2836	3970	3970	5104
90	M105	2257	3243	3179	4451	4451	5723
95	M110	2515	3613	3542	4959	4959	6376
100	M115	2787	4004	3925	5495	5495	7065
105	M120	3072	4414	4327	6058	6058	7789
110	M125	3372	4844	4749	6649	6649	8549
115	M130	3685	5295	5191	7267	7267	9343
120	M135	4013	5765	5652	7913	7913	10174
125	M140	4354	6255	6133	8586	8586	11039
130	M145	4710	6766	6633	9287	9287	11940
135	M150	5079	7296	7153	10015	10015	12876
140	M155	5462	7847	7693	10770	10770	13847
145	M160	5859	8417	8252	11553	11553	14854
150	M165	6270	9008	8831	12364	12364	15896

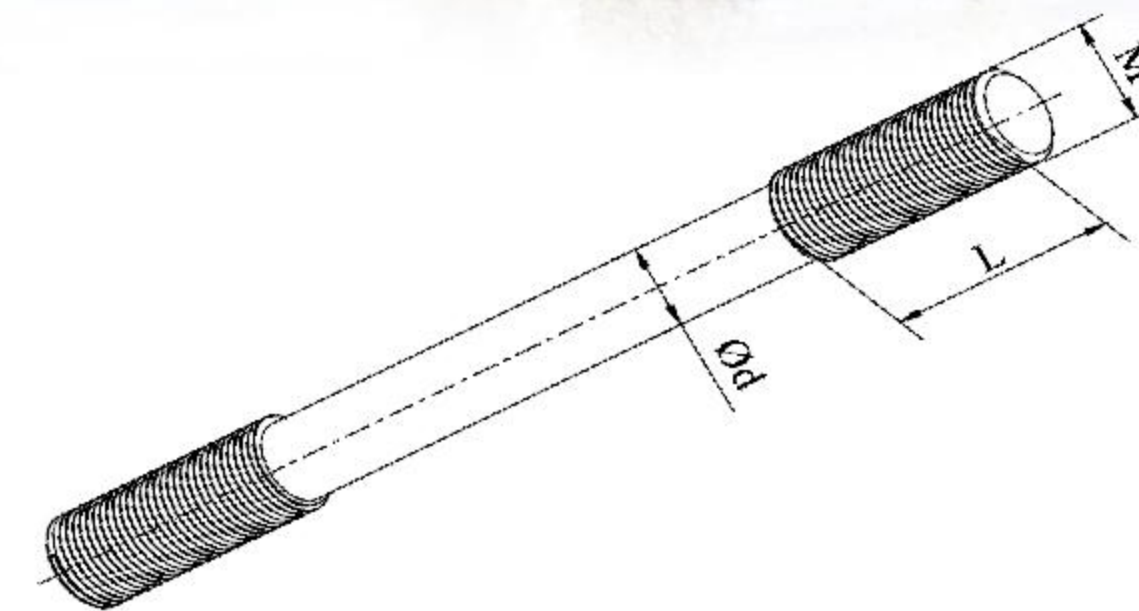


FORGED EYE & UPSET THREADS

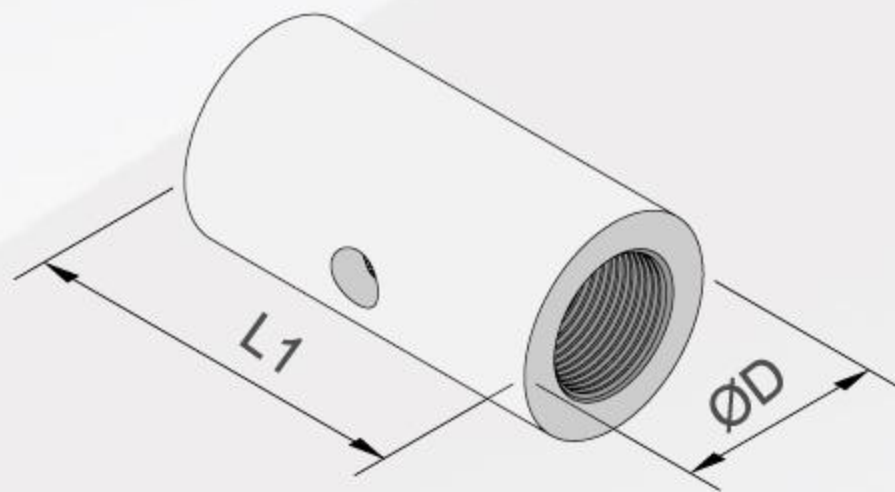
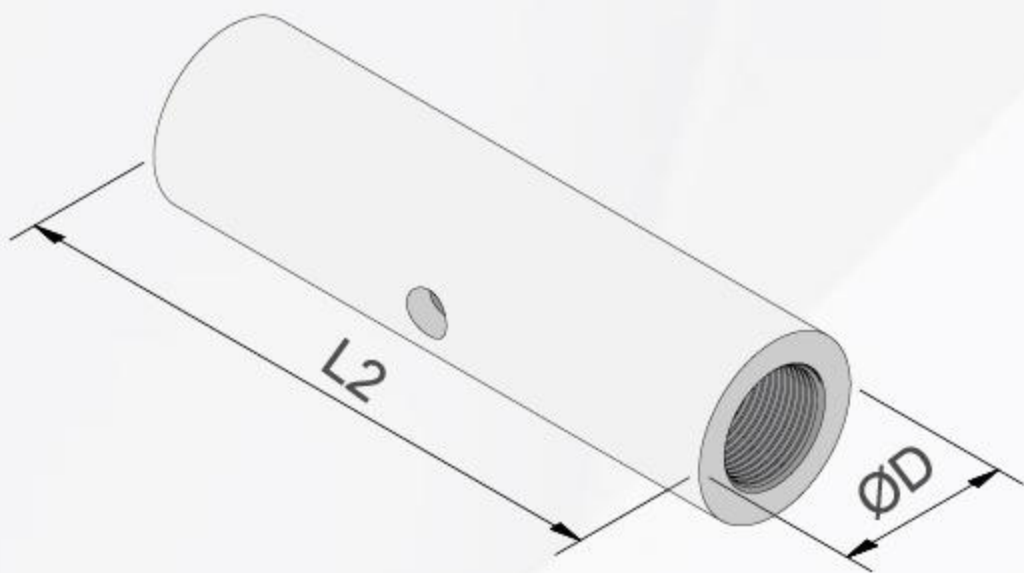
CHENKANG PRODUCT DATA



» » » Product parameter

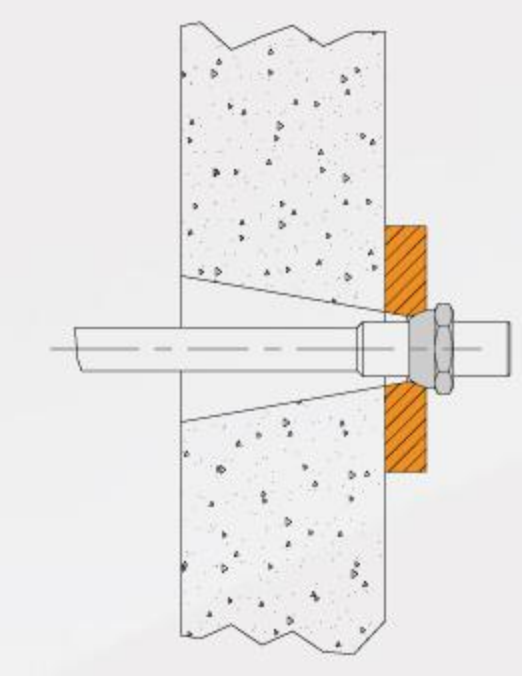
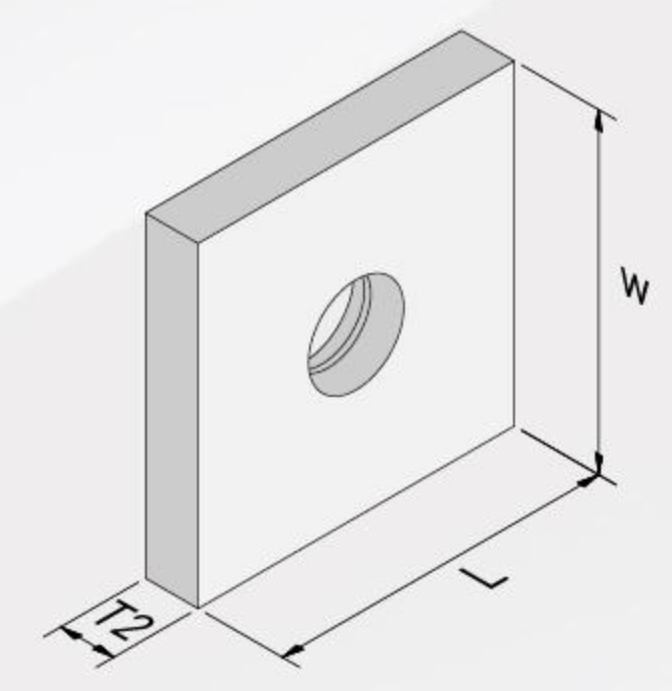
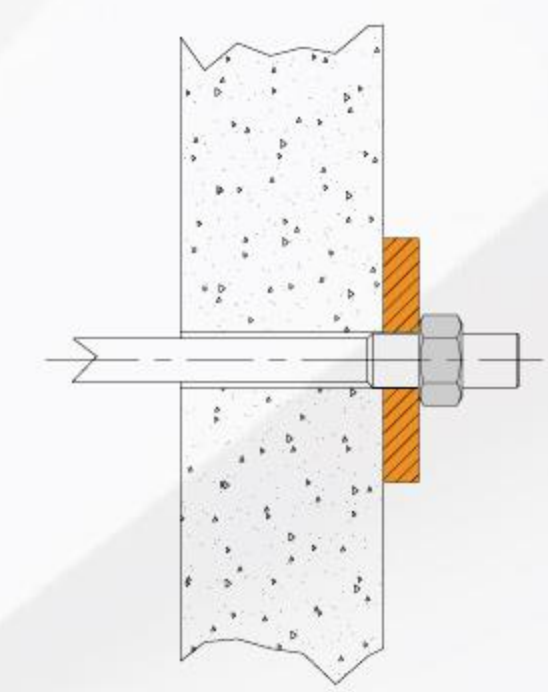
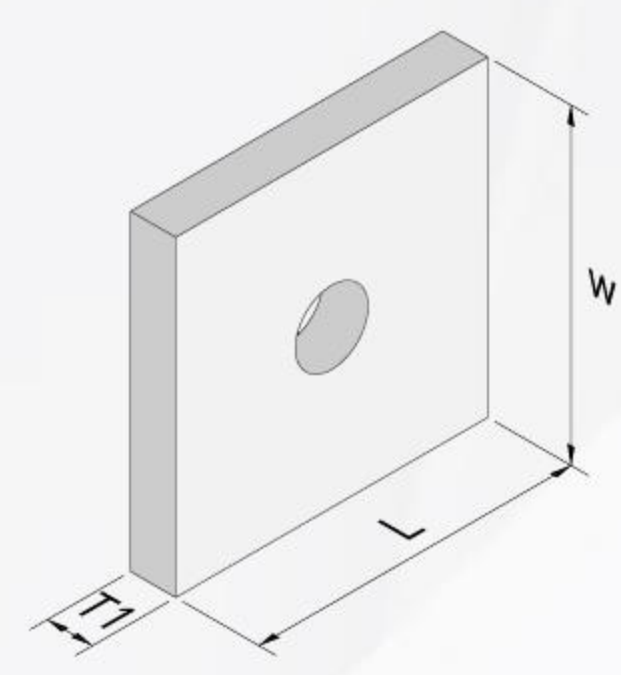


Diameter (d)	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150
Threads (M)	48	52	60	64	72	76	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
Bole Diameter (d0)	42	47	52	57	62	68	73	78	83	88	93	98	103	108	113	118	123	128	133	138	143	148	153
Rod Sectional Area	1256	1590	1963	2375	2826	3317	3847	4416	5024	5672	6359	7085	7850	8655	9499	10382	11304	12266	13267	14307	15386	16505	17663
Forged Eye Thickness (T)	35	40	42	45	50	56	60	65	70	75	75	80	85	90	95	95	100	105	110	115	120	125	130
Forged Eye Width (W)	95	110	125	130	140	155	175	180	190	200	210	220	235	245	255	265	280	290	300	310	320	335	345
C	58	65	75	85	90	95	105	110	115	120	135	140	145	155	160	170	180	185	190	195	200	210	215
E	65	85	95	100	105	130	135	140	145	150	155	160	165	170	175	185	195	210	220	230	240	250	260
Thread Length (L)	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	360	375	390	400	420	435	450



» » » Product parameter

Specifications (d)	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150
Threads (M)	48	52	60	64	72	76	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
Turnbuckle Diameter (D)	86	93	100	112	119	125	137	143	149	156	165	177	191	200	200	216	216	216	216	243	243	243	243
Turnbuckle Length (L2)	306	324	332	350	358	368	386	398	410	420	430	442	454	464	476	486	498	508	520	530	542	552	564
Coupler Length (L1)	156	174	182	200	208	218	236	248	260	270	280	292	304	314	326	336	348	358	370	380	392	402	414

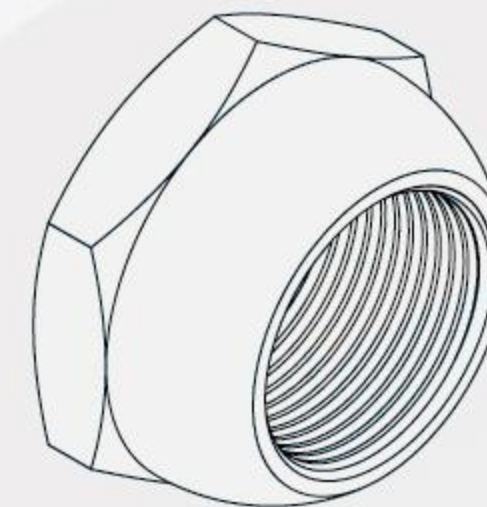


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Specifications	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150
Threads	48	52	60	64	70	76	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
Bearing Plate Width (W)	150	200	200	250	250	250	300	300	300	350	350	350	400	400	450	450	450	500	500	500	550	550	550
Bearing Plate Thickness (T1)	20	25	30	30	35	35	40	40	45	45	50	50	55	55	60	60	65	65	70	70	75	75	80
Spherical Bearing Plate Thickness (T2)	30	35	40	40	50	50	55	55	60	60	65	65	70	70	75	75	80	80	85	85	90	90	100

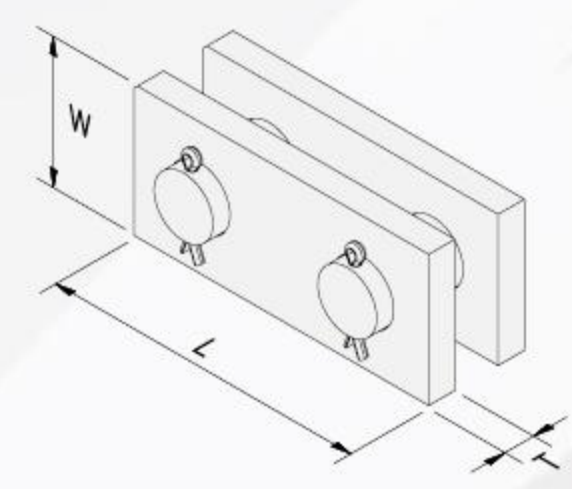
• HEXAGON AND SPHERICAL NUTS •

CHENKANG PRODUCT DATA



» » » Product parameter

Specifications	40	45	50	55	60	65	70	75	80	85	90		95	100	105	110	115	120	125	130	135	140	145	150
Threads	48	52	60	64	72	76	85	90	95	100	105		110	115	120	125	130	135	140	145	150	155	160	1165
Acorss Corners	75	80	90	95	105	110	120	130	135	145	150		155	165	170	180	185	190	195	200	205	210	215	220
Nut Thickness	38	42	48	51	58	61	68	72	76	80	84		88	92	96	100	104	108	112	116	120	124	128	132

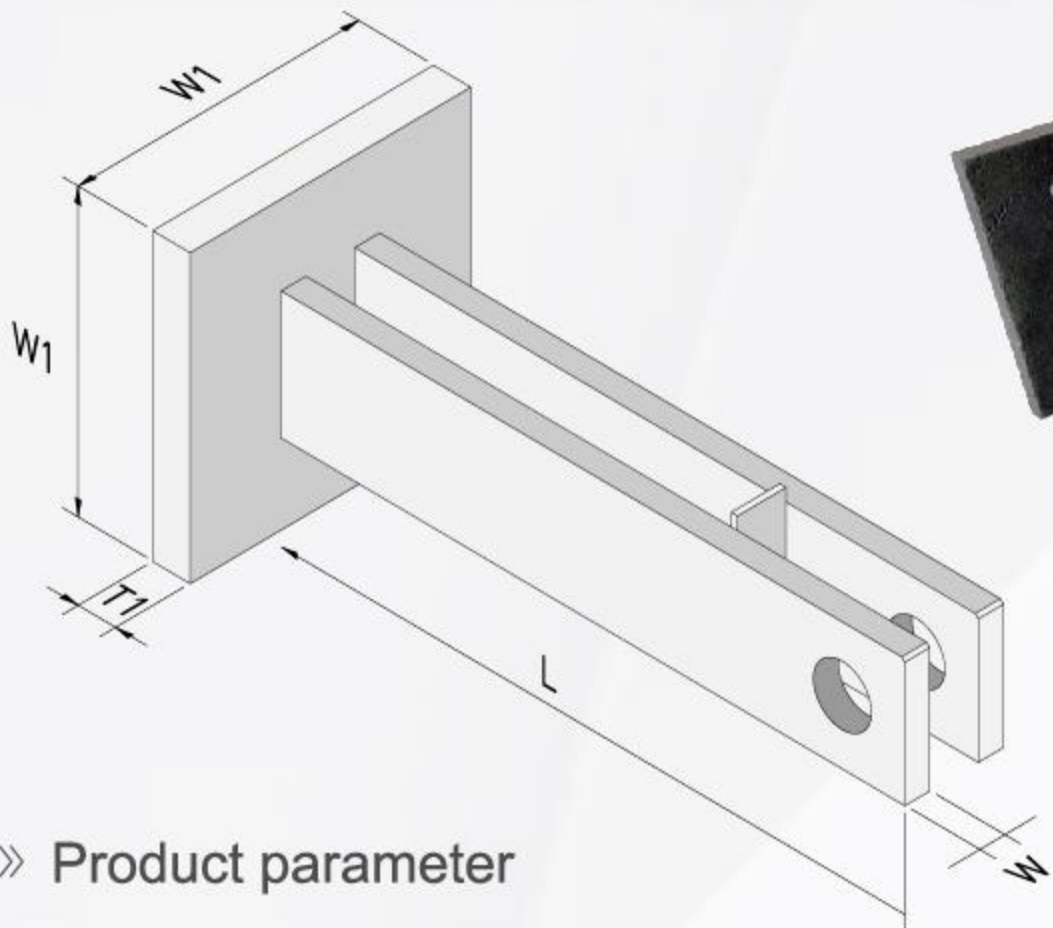


» » » Product parameter

Specifications	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150
Threads (M)	48	52	60	64	70	76	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
Plate Width (W)	95	110	125	130	140	155	175	180	190	200	210	220	235	245	255	265	280	290	300	310	320	335	345
Plate Center Distance (B)	130	150	165	180	200	215	230	250	265	280	300	315	330	350	365	380	400	410	430	445	460	480	495
Plate Length (L)	250	310	345	370	410	465	480	510	535	560	590	615	640	670	695	730	770	810	850	885	920	960	995
Plate Thickness (T)	20	25	25	30	30	35	35	40	40	45	45	50	50	55	55	60	60	65	65	70	70	75	75

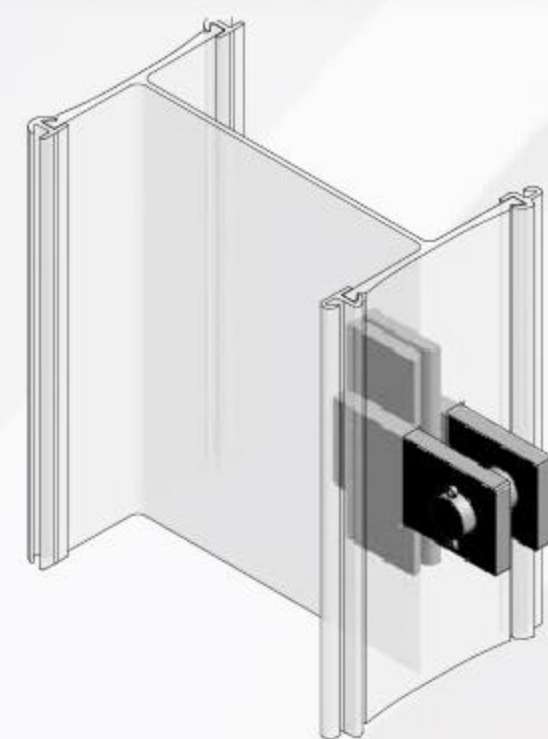
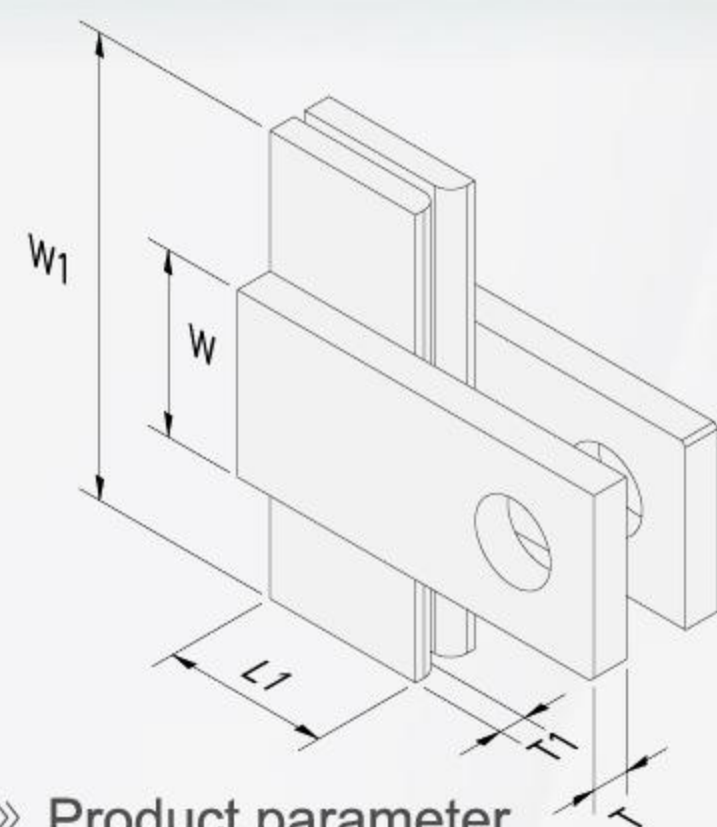
• T-ANCHORS FOR COMBI-WALLS •

CHENKANG
PRODUCT DATA



» » » Product parameter

Specifications (d)	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150
Threads (M)	48	52	60	64	70	76	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
Connection Plate Width (W)	95	110	125	130	140	155	175	180	190	200	210	220	235	245	255	265	280	290	300	310	320	335	345
Connection Plate Length (L)	330	390	445	470	510	475	605	635	660	675	740	755	790	820	870	905	945	985	1050	1085	1120	1160	1200
Connection Plate Thickness (T)	20	25	25	30	30	35	35	40	40	45	45	50	50	55	55	60	60	65	65	70	70	75	75
Top Plate Width (W1)	150	200	200	250	250	250	300	300	300	350	350	350	400	400	450	450	450	500	500	500	550	550	550
Top Plate Thickness (T1)	20	25	30	30	35	35	40	40	45	45	50	50	55	55	60	60	65	65	70	70	75	75	80



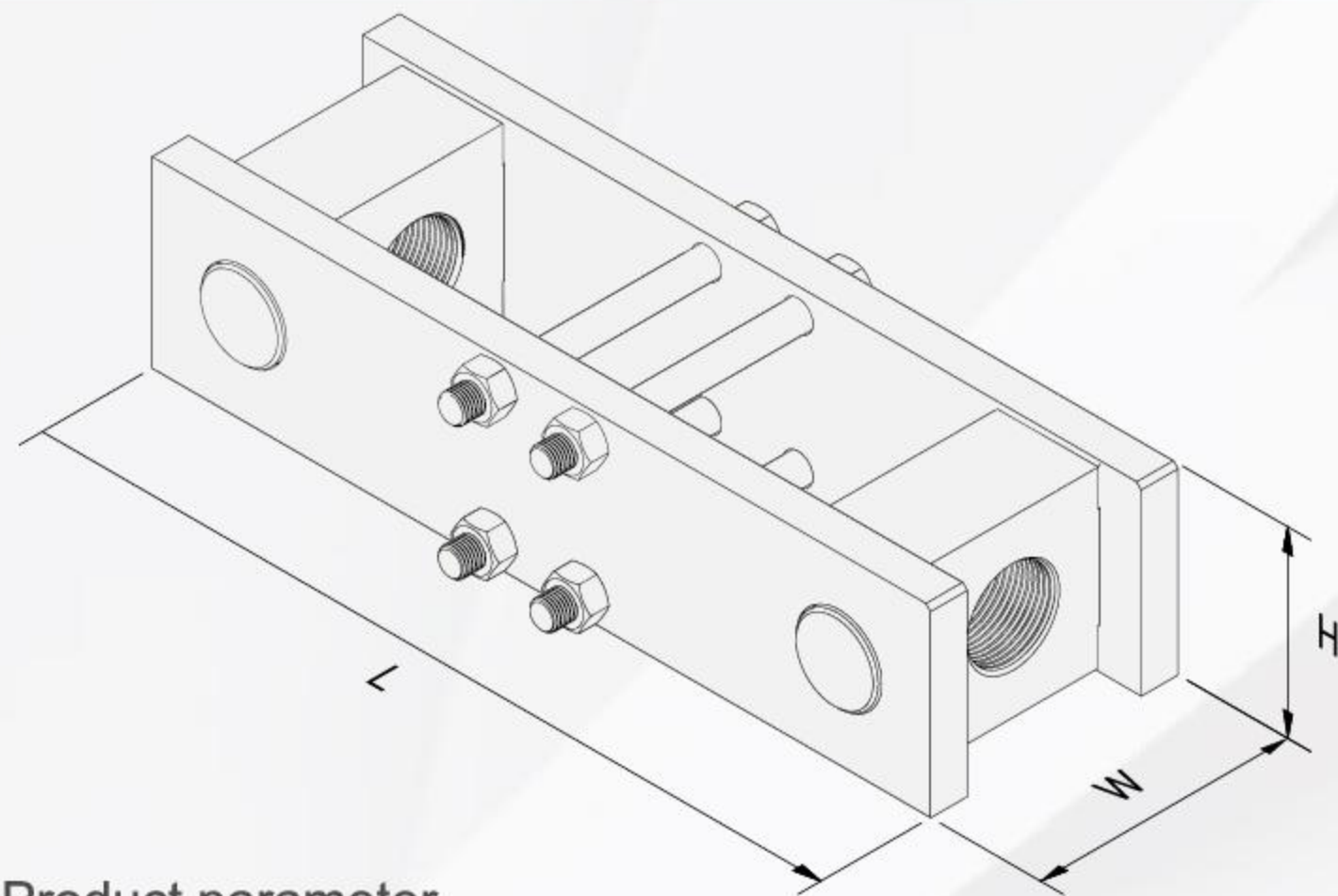
» » » Product parameter

Specifications (d)	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150
Threads (M)	48	52	60	64	70	76	885	90	95	100	105	110	115	120	125	130	135	1140	145	1150	155	160	165
Connection Plate Width (W)	95	110	125	130	140	155	175	180	190	200	210	220	235	245	255	265	280	290	300	310	320	335	345
Connection Plate Length (L)	300	360	395	420	460	515	530	560	585	610	640	665	690	720	745	780	820	910	950	985	1020	1060	1100
Connection Plate Thickness (T)	20	25	25	30	30	35	35	40	40	45	45	50	50	55	55	60	60	65	65	70	70	75	75
T Plate Width (W1)	100	100	120	120	140	140	150	150	150	160	160	160	180	180	180	200	200	220	220	250	250	280	280
T Plate Length (L1)	300	300	320	320	340	340	350	400	400	420	470	470	500	500	550	550	600	600	650	650	700	700	750
T Plate Thickness (T1)	16	20	20	25	25	25	25	30	30	35	35	40	40	45	45	50	50	55	55	60	60	65	65



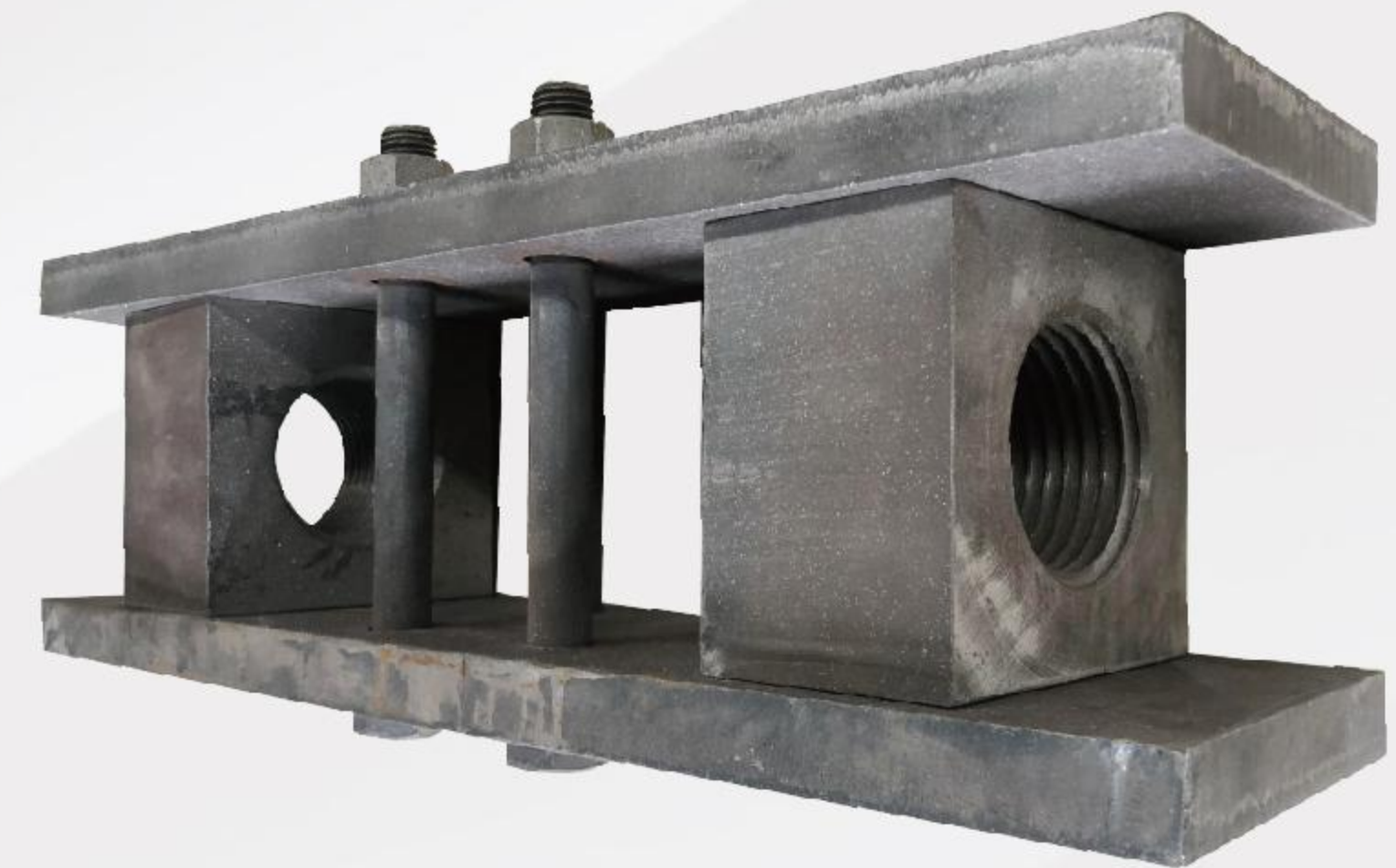
HINGLE COUPLER

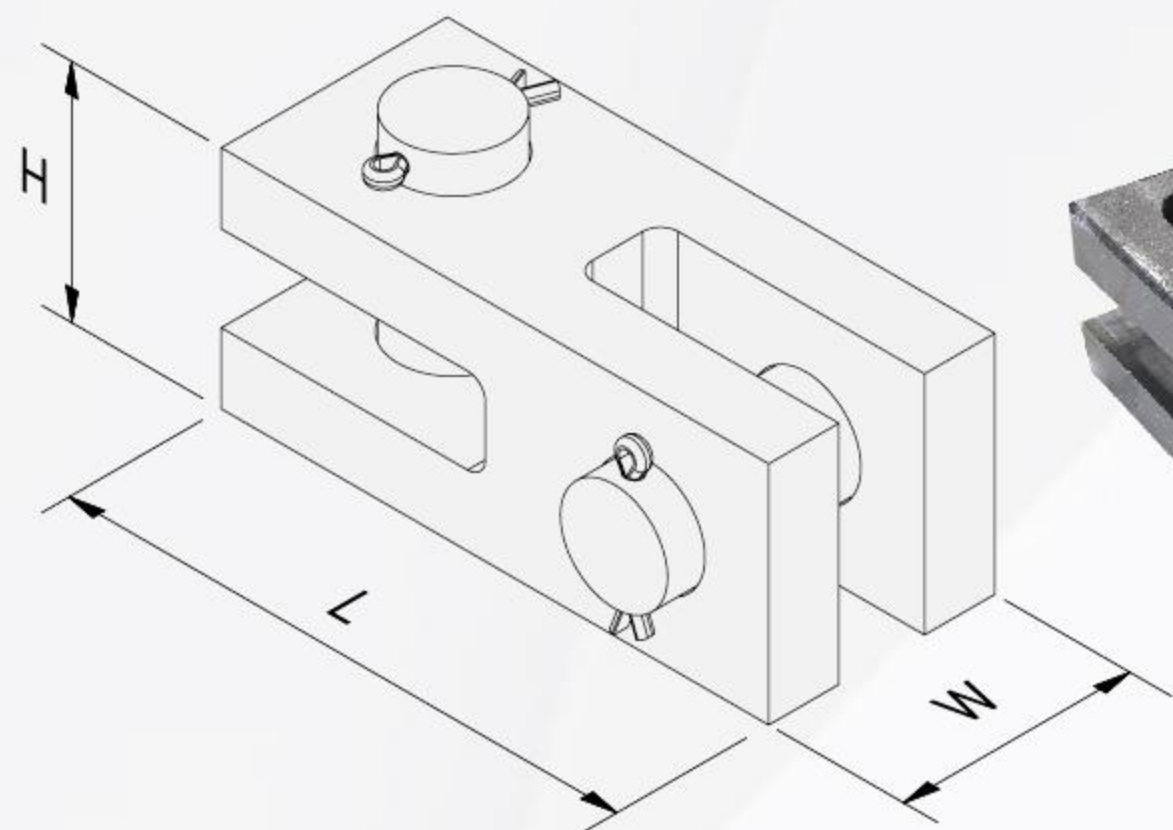
CHENKANG PRODUCT DATA



» » » Product parameter

Specifications	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150
Threads	48	52	60	64	70	76	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
Connection Plate Width (W)	95	110	125	130	140	155	175	180	190	200	210	220	235	245	255	265	280	290	300	310	320	335	345
Connection Plate Length (L)	330	390	425	450	510	565	580	620	645	670	710	735	760	810	835	870	930	970	1010	1055	1090	1130	1165
Connection Plate Thickness	20	25	25	30	30	35	35	40	40	45	45	50	50	55	55	60	60	65	65	70	70	75	75

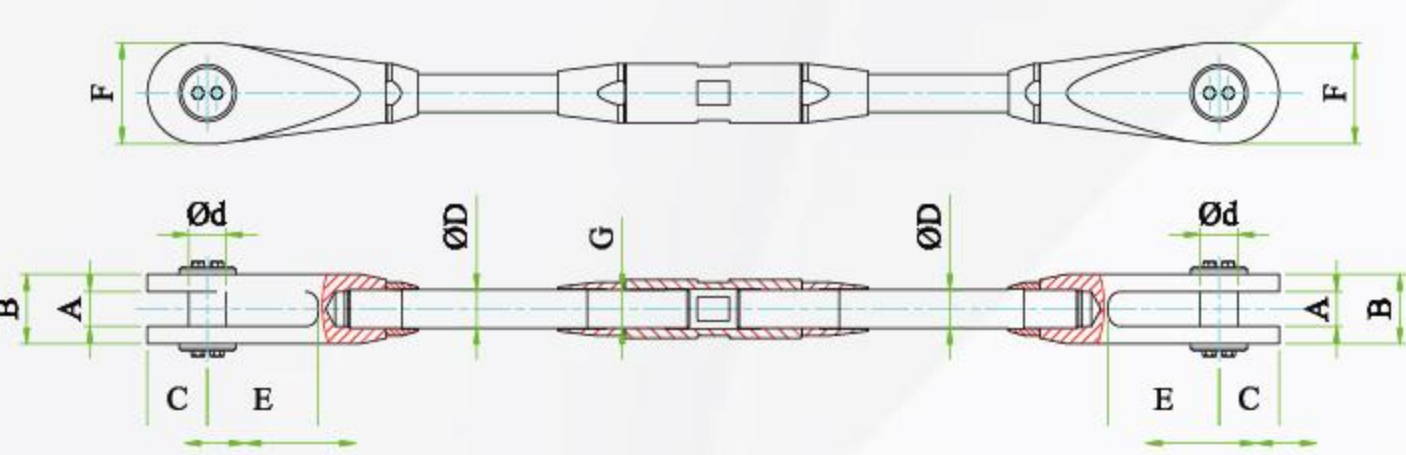




» » » Product parameter

Specifications	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150
Threads	48	52	60	64	70	76	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165
Width	90	110	120	130	140	150	170	180	190	200	210	220	230	240	250	260	280	280	300	300	320	320	350
Thickness	90	110	120	130	140	150	170	180	190	200	210	220	230	240	250	260	280	280	300	300	320	320	350
Length	265	325	360	390	430	485	500	535	560	585	620	645	670	705	730	765	810	850	890	930	965	1005	1040

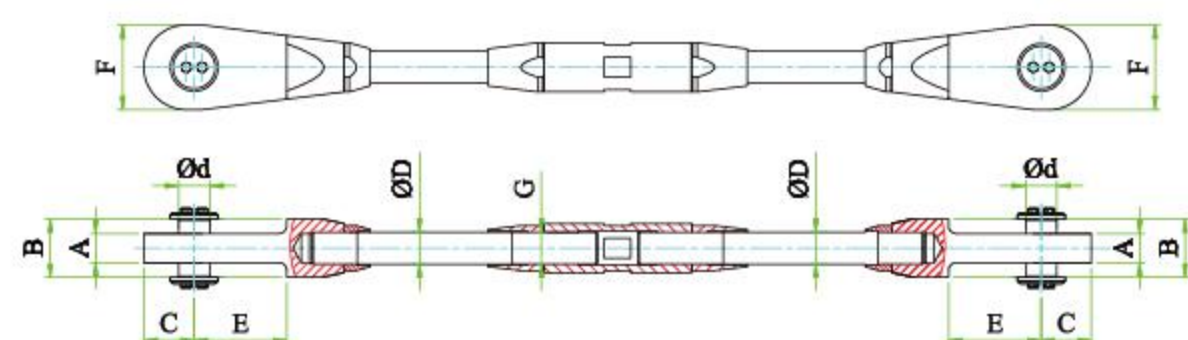
UU TYPE



Product parameter

Rod diameter D (mm)	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210
A (mm)	20	24	28	32	38	44	46	56	56	66	66	76	76	82	82	86	92	98	104	108	108	118	118	128	128	138	138	140	140	150	150	150	150	150	150	156	160	166	170
B (mm)	36	44	52	60	72	84	86	106	106	126	126	146	146	162	162	166	182	188	204	208	208	228	228	248	248	268	268	270	270	290	290	290	290	290	290	306	310	326	330
C (mm)	34	43	50	58	66	73	85	90	98	105	113	121	128	136	145	153	161	169	177	186	195	202	211	218	225	234	243	254	263	271	280	291	301	312	323	331	340	347	355
D (mm)	19	24	29	34	39	44	49	54	59	64	69	74	79	84	88	93	98	103	108	113	118	123	128	133	138	143	147	152	157	162	167	172	177	182	187	192	197	202	207
E (mm)	65	81	96	111	127	142	158	162	176	188	201	215	227	255	269	282	297	309	323	336	351	368	382	395	412	426	440	461	475	489	502	519	534	555	571	584	599	611	624
F (mm)	60	75	90	105	119	134	150	165	180	195	209	224	239	254	268	283	301	316	330	345	360	375	389	404	419	434	448	463	478	493	507	522	537	552	566	581	596	611	625

• OO TYPE •



» » » Product parameter

Rod diameter D (mm)	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210
T (mm)	16	20	24	28	34	40	42	50	50	60	60	70	70	75	75	80	85	90	95	100	100	110	110	120	120	130	130	130	130	140	140	140	140	140	140	146	150	156	160
C (mm)	34	43	50	58	66	73	82	90	98	105	113	121	128	136	145	153	161	169	177	186	195	202	211	218	225	234	243	254	263	271	280	291	301	312	323	331	340	347	355
E (mm)	65	81	96	111	127	142	158	162	176	188	201	215	227	255	269	282	297	309	323	336	351	368	382	395	412	426	440	461	475	489	502	519	534	555	571	584	599	611	624
do (mm)	19.5	24.5	29.5	34.5	39.5	44.5	49	54	59	64	69	74	79	84	89	94	99	104	109	114	119	124	129	134	139	144	149	154	159	164	169	174	179	184	189	194	199	204	209
F (mm)	60	75	90	105	119	134	150	165	180	195	209	224	239	254	268	283	301	316	330	345	360	375	389	404	419	434	448	463	478	493	507	522	537	552	566	581	596	611	625