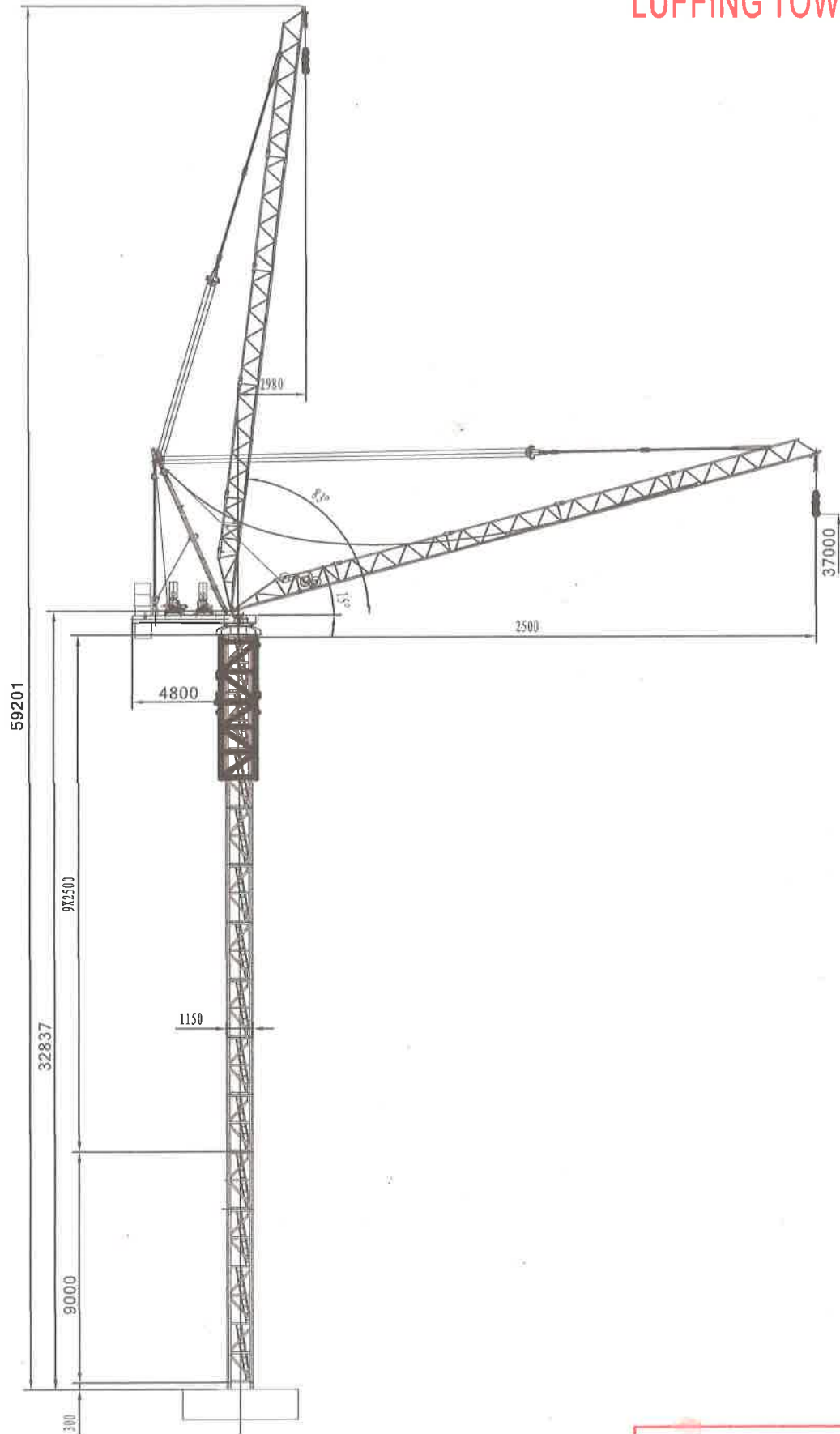
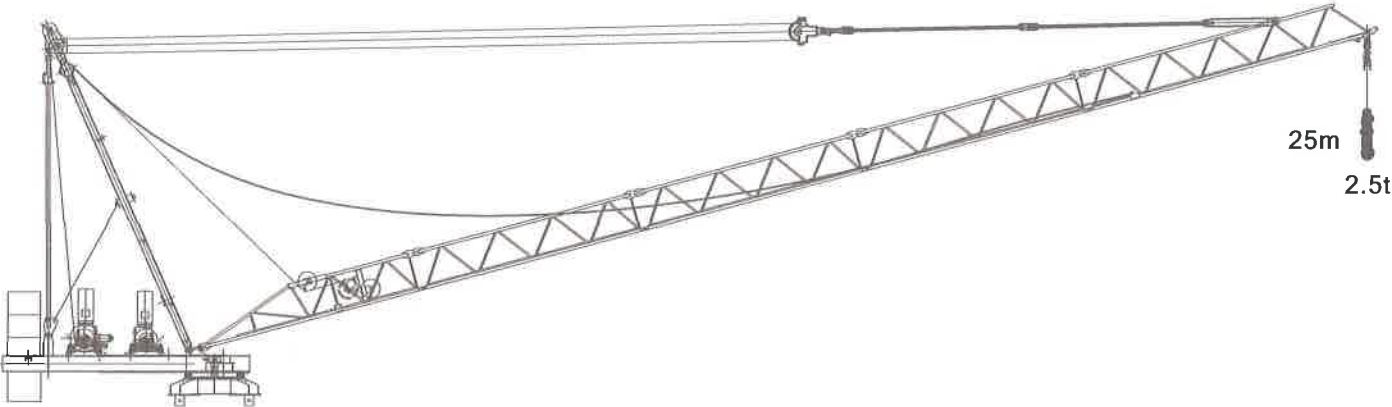


CCTL80

LUFFING TOWER CRANE



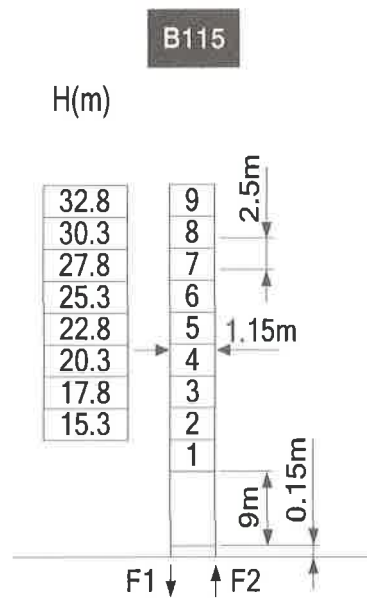
JIB COMBINATION/RADIUS&HOISTING HEIGHT



LOAD CAPACITY

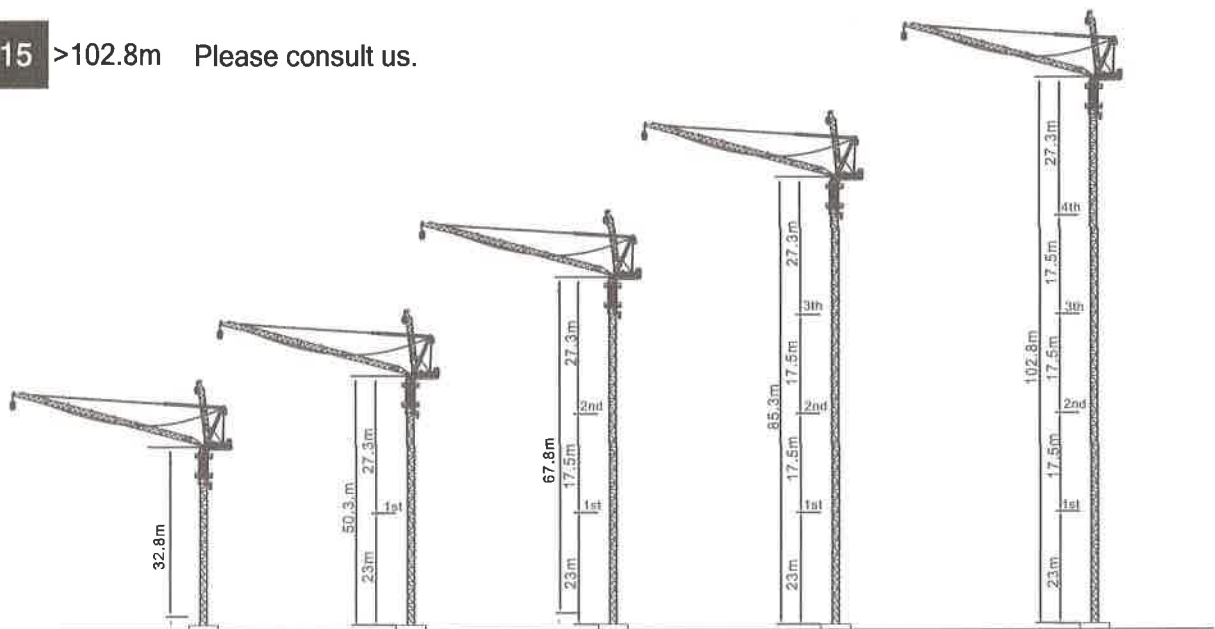
			18	20	22	24	25
25m	2 falls	t	2.50	2.50	2.50	2.50	2.50

MAST HEIGHT



TIE SCHEDULE

B115 >102.8m Please consult us.



MECHANISM

								
		Hoisting mechanism						Rope length
		YZPE-11-B31		m/min	0~21.7	0~43.4	11kW	238m >238m※
				t	2.5	1.1		
		Luffing mechanism				Slewing mechanism		
		YZPE-11-B31	≤3	11kW		RVF4	0~0.67r/min	4KW
Power supply		380V(±5%) 50Hz			Power consumption		26KW	

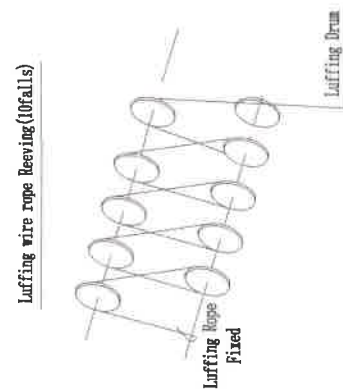
건설기계(타워크레인)제원표

형식승인(신고)자		(유)하이츠타워			
건설기계명		타워크레인	제작회사(제작국)	Shandong Dahan Construction Machinery Co Ltd (중국)	
형식		CCTL80	규격	2.5ton /~ 2.5ton	
권상전동기	형식	YZPE-11-B31	지브전동기	형식	YZPE-11-B31
	출력	11 kW		출력	11 kW
	전압	380 V		전압	380 V
	전류	21.4 A		전류	21.4 A
	제작회사(제작국)	BONENG TRANSMISSION CO.,LTD		제작회사(제작국)	BONENG TRANSMISSION CO.,LTD
카운트웨이트중량		4.0 ton X 1개 2.0 ton X 2개	권상 와이어로프 지름		12 mm
트롤리 와이어로프지름		mm	지브기북 와이어로프 지름		12 mm
작업장치	최대정격하중	2.5 ton	선회속도		0.7 rpm
	지브형식	L형	훅 상승속도		43.4 m/min
	지브의 최대각도	83 도	최소작업반경		2.98 m
	메인지브최대길이	26.3 m	최대작업반경		25 m
	카운터지브최대길이	4.8 m	마스트규격 (가로×세로×높이)		1.15*1.15*2.5 m*m*m
	최대설치 높이	84.29 m	마스트 기본단		9,1+2.5,9 m, 개
비고					
형식승인연월일		2016.07.07	형식승인번호		5-27-0162-00-00

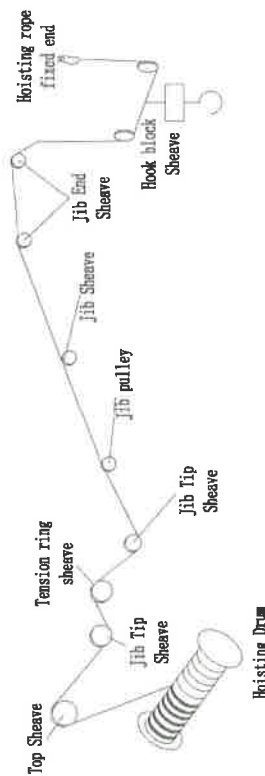
Main Specification

Description	Specification
Max Working Radius	25m
Power	11kW X 4P
Speed	0 - 27m/min
Load	2500kg
Reducer	i = 1/36.87
Wire Rope	Ø12 (35W X 7)
Power	11kW X 4P
Speed	5.2m/min
Reducer	i = 1/36.87
Wire Rope	Ø12 (35W X 7)
Power	4.0kW
Speed	0 - 0.8 rpm
Reducer	i = 1/16
Mechanism (RV4F)	M=10, Z=12
Reducer	M=10, Z=14.4
Power	5.5kW X 4P
Speed	0.72m/min
Power	3ø X 60Hz X AC 380V
Control	DC 24V
Main Cable	YCW(or PNC11) 2550 X 3C
Main Braker	80A
Controller	Remote Control

Luffing wire rope Reeving (10falls)



Hoisting Wire Rope Reeving (2falls)



Load Capacity

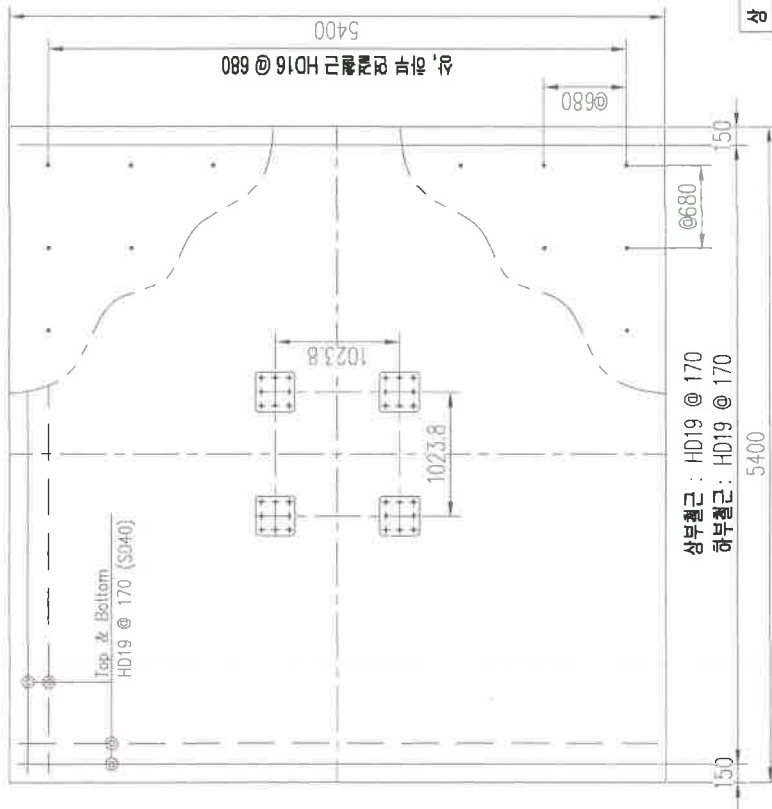
Working Radius [m]										
10	12	14	16	18	20	22	24	25		
2500	2500	2500	2500	2500	2500	2500	2500	2500		
2500	2500	2500	2500	2500	2500	2500	2500	2500		

Counter Weight Arrangement

Jib Length	Counter Weight	Counter Weight	Weight (kg)
25m	1	2	8000
20m	1	1	6000

N	Code	Name	Qty	Material	Remark
1	CIL2558	Main Mast	1	Part	2501 2301
2	CIL2559	Top	1	Part	2502 2302
3	CIL2560	Bottom	1	Part	2503 2303
4	CIL2561	Top	1	Part	2504 2304
5	CIL2562	Bottom	1	Part	2505 2305
6	CIL2563	Top	1	Part	2506 2306
7	CIL2564	Bottom	1	Part	2507 2307
8	CIL2565	Top	1	Part	2508 2308
9	CIL2566	Bottom	1	Part	2509 2309
10	CIL2567	Top	1	Part	2510 2310
11	CIL2568	Bottom	1	Part	2511 2311
12	CIL2569	Top	1	Part	2512 2312
13	CIL2570	Bottom	1	Part	2513 2313
14	CIL2571	Top	1	Part	2514 2314
15	CIL2572	Bottom	1	Part	2515 2315
16	CIL2573	Top	1	Part	2516 2316
17	CIL2574	Bottom	1	Part	2517 2317
18	CIL2575	Top	1	Part	2518 2318
19	CIL2576	Bottom	1	Part	2519 2319
20	CIL2577	Top	1	Part	2520 2320
21	CIL2578	Bottom	1	Part	2521 2321
22	CIL2579	Top	1	Part	2522 2322
23	CIL2580	Bottom	1	Part	2523 2323
24	CIL2581	Top	1	Part	2524 2324
25	CIL2582	Bottom	1	Part	2525 2325
26	CIL2583	Top	1	Part	2526 2326
27	CIL2584	Bottom	1	Part	2527 2327
28	CIL2585	Top	1	Part	2528 2328
29	CIL2586	Bottom	1	Part	2529 2329
30	CIL2587	Top	1	Part	2530 2330
31	CIL2588	Bottom	1	Part	2531 2331
32	CIL2589	Top	1	Part	2532 2332
33	CIL2590	Bottom	1	Part	2533 2333
34	CIL2591	Top	1	Part	2534 2334
35	CIL2592	Bottom	1	Part	2535 2335
36	CIL2593	Top	1	Part	2536 2336
37	CIL2594	Bottom	1	Part	2537 2337
38	CIL2595	Top	1	Part	2538 2338
39	CIL2596	Bottom	1	Part	2539 2339
40	CIL2597	Top	1	Part	2540 2340
41	CIL2598	Bottom	1	Part	2541 2341
42	CIL2599	Top	1	Part	2542 2342
43	CIL2600	Bottom	1	Part	2543 2343
44	CIL2601	Top	1	Part	2544 2344
45	CIL2602	Bottom	1	Part	2545 2345
46	CIL2603	Top	1	Part	2546 2346
47	CIL2604	Bottom	1	Part	2547 2347
48	CIL2605	Top	1	Part	2548 2348
49	CIL2606	Bottom	1	Part	2549 2349
50	CIL2607	Top	1	Part	2550 2350
51	CIL2608	Bottom	1	Part	2551 2351
52	CIL2609	Top	1	Part	2552 2352
53	CIL2610	Bottom	1	Part	2553 2353
54	CIL2611	Top	1	Part	2554 2354
55	CIL2612	Bottom	1	Part	2555 2355
56	CIL2613	Top	1	Part	2556 2356
57	CIL2614	Bottom	1	Part	2557 2357
58	CIL2615	Top	1	Part	2558 2358
59	CIL2616	Bottom	1	Part	2559 2359
60	CIL2617	Top	1	Part	2560 2360
61	CIL2618	Bottom	1	Part	2561 2361
62	CIL2619	Top	1	Part	2562 2362
63	CIL2620	Bottom	1	Part	2563 2363
64	CIL2621	Top	1	Part	2564 2364
65	CIL2622	Bottom	1	Part	2565 2365
66	CIL2623	Top	1	Part	2566 2366
67	CIL2624	Bottom	1	Part	2567 2367
68	CIL2625	Top	1	Part	2568 2368
69	CIL2626	Bottom	1	Part	2569 2369
70	CIL2627	Top	1	Part	2570 2370
71	CIL2628	Bottom	1	Part	2571 2371
72	CIL2629	Top	1	Part	2572 2372
73	CIL2630	Bottom	1	Part	2573 2373
74	CIL2631	Top	1	Part	2574 2374
75	CIL2632	Bottom	1	Part	2575 2375
76	CIL2633	Top	1	Part	2576 2376
77	CIL2634	Bottom	1	Part	2577 2377
78	CIL2635	Top	1	Part	2578 2378
79	CIL2636	Bottom	1	Part	2579 2379
80	CIL2637	Top	1	Part	2580 2380
81	CIL2638	Bottom	1	Part	2581 2381
82	CIL2639	Top	1	Part	2582 2382
83	CIL2640	Bottom	1	Part	2583 2383
84	CIL2641	Top	1	Part	2584 2384
85	CIL2642	Bottom	1	Part	2585 2385
86	CIL2643	Top	1	Part	2586 2386
87	CIL2644	Bottom	1	Part	2587 2387
88	CIL2645	Top	1	Part	2588 2388
89	CIL2646	Bottom	1	Part	2589 2389
90	CIL2647	Top	1	Part	2590 2390
91	CIL2648	Bottom	1	Part	2591 2391
92	CIL2649	Top	1	Part	2592 2392
93	CIL2650	Bottom	1	Part	2593 2393
94	CIL2651	Top	1	Part	2594 2394
95	CIL2652	Bottom	1	Part	2595 2395
96	CIL2653	Top	1	Part	2596 2396
97	CIL2654	Bottom	1	Part	2597 2397
98	CIL2655	Top	1	Part	2598 2398
99	CIL2656	Bottom	1	Part	2599 2399
100	CIL2657	Top	1	Part	2600 2400
101	CIL2658	Bottom	1	Part	2601 2401
102	CIL2659	Top	1	Part	2602 2402
103	CIL2660	Bottom	1	Part	2603 2403
104	CIL2661	Top	1	Part	2604 2404
105	CIL2662	Bottom	1	Part	2605 2405
106	CIL2663	Top	1	Part	2606 2406
107	CIL2664	Bottom	1	Part	2607 2407
108	CIL2665	Top	1	Part	2608 2408
109	CIL2666	Bottom	1	Part	2609 2409
110	CIL2667	Top	1	Part	2610 2410
111	CIL2668	Bottom	1	Part	2611 2411
112	CIL2669	Top	1	Part	2612 2412
113	CIL2670	Bottom	1	Part	2613 2413
114	CIL2671	Top	1	Part	2614 2414
115	CIL2672	Bottom	1	Part	2615 2415
116	CIL2673	Top	1	Part	2616 2416
117	CIL2674	Bottom	1	Part	2617 2417
118	CIL2675	Top	1	Part	2618 2418
119	CIL2676	Bottom	1	Part	2619 2419
120	CIL2677	Top	1	Part	2620 2420
121	CIL2678	Bottom	1	Part	2621 2421
122	CIL2679	Top	1	Part	2622 2422
123	CIL2680	Bottom	1	Part	2623 2423
124	CIL2681	Top	1	Part	2624 2424
125	CIL2682	Bottom	1	Part	2625 2425
126	CIL2683	Top	1	Part	2626 2426
127	CIL2684	Bottom	1	Part	2627 2427
128	CIL2685	Top	1	Part	2628 2428
129	CIL2686	Bottom	1	Part	2629 2429
130	CIL2687	Top	1	Part	2630 2430
131	CIL2688	Bottom	1	Part	2631 2431
132	CIL2689	Top	1	Part	2632 2432
133	CIL2690	Bottom	1	Part	2633 2433
134	CIL2691	Top	1	Part	2634 2434
135	CIL2692	Bottom	1	Part	2635 2435
136	CIL2693	Top	1	Part	2636 2436
137	CIL2694	Bottom	1	Part	2637 2437
138	CIL2695	Top	1	Part	2638 2438
139	CIL2696	Bottom	1	Part	2639 2439
140	CIL2697	Top	1	Part	2640 2440
141	CIL2698	Bottom	1	Part	2641 2441
142	CIL2699	Top	1	Part	2642 2442
143	CIL2700	Bottom	1	Part	2643 2443
144	CIL2701	Top	1	Part	2644 2444
145	CIL2702	Bottom	1	Part	2645 2445
146	CIL2703	Top	1	Part	2646 2446
147	CIL2704	Bottom	1	Part	2647 2447
148	CIL2705	Top	1	Part	2648 2448
149	CIL2706	Bottom	1	Part	2649 2449
150	CIL2707	Top	1	Part	2650 2450
151	CIL2708	Bottom	1	Part	2651 2451
152	CIL2709	Top	1	Part	2652 2452
153	CIL2710	Bottom	1	Part	2653 2453
154	CIL2711	Top	1	Part	2654 2454
155	CIL2712	Bottom	1	Part	2655 2455
156	CIL2713	Top	1	Part	2656 2456
157	CIL2714	Bottom	1	Part	2657 2457
158	CIL2715	Top	1	Part	2658 2458
159	CIL2716	Bottom	1	Part	2659 2459
160	CIL2717	Top	1	Part	2660 2460
161	CIL2718	Bottom	1	Part	2661 2461
162	CIL2719	Top	1	Part	2662 2462
163	CIL2720	Bottom	1	Part	2663 2463
164	CIL2721	Top	1	Part	2664 2464
165	CIL2722	Bottom	1	Part	2665 2465
166	CIL2723	Top	1	Part	2666 2466
167	CIL2724	Bottom	1	Part	2667 2467
168	CIL2725	Top	1	Part	2668 2468
169	CIL2726	Bottom	1	Part	2669 2469
170	CIL2727	Top	1	Part	2670 2470
171	CIL2728	Bottom	1	Part	2671 2471
172	CIL2729	Top	1	Part	2672 2472
173	CIL2730	Bottom	1	Part	2673 2473
174	CIL2731	Top	1	Part	2674 2474
175	CIL2732	Bottom	1	Part	2675 2475
176	CIL2733	Top	1	Part	2676 2476
177	CIL2734	Bottom	1	Part	2677 2477
178	CIL2735	Top	1	Part	2678 2478
179	CIL2736	Bottom	1	Part	2679 2479
180	CIL2737	Top	1	Part	2680 2480
181	CIL2738	Bottom	1	Part	2681 2481
182	CIL2739	Top	1	Part	2682 2482
183	CIL2740	Bottom	1	Part	2683 2483
184	CIL2741	Top	1	Part	2684 2484
185	CIL2742	Bottom	1	Part	2685 2485
186	CIL2743	Top	1	Part	2686 2486
187	CIL2744	Bottom	1	Part	2687 2487
188	CIL2745	Top	1	Part	2688 2488
189	CIL2746	Bottom	1	Part	2689 2489
190	CIL2747	Top	1	Part	2690 2490
191	CIL2748	Bottom	1	Part	2691 2491
192	CIL2749	Top	1	Part	2692 2492
193	CIL2750	Bottom	1	Part	2693 2493
194	CIL2751	Top	1	Part	2694 2494
195	CIL2752	Bottom	1	Part	2695 2495
19					

Part	Qty	Part	Quantity	Unit
Shandong Dahuan				
General Assembly				
(Free Standing)				
Hydraulic Mast				
Scale				
Assembly				
Total				
Part	Qty	Part	Quantity	Unit
Shandong Dahuan				
General Assembly				
(Free Standing)				
Hydraulic Mast				
Scale				
Assembly				
Total				
Part	Qty	Part	Quantity	Unit
Shandong Dahuan				
General Assembly				
(Free Standing)				
Hydraulic Mast				
Scale				
Assembly				
Total				
Part	Qty	Part	Quantity	Unit
Shandong Dahuan				
General Assembly				
(Free Standing)				
Hydraulic Mast				
Scale				
Assembly				
Total				
Part	Qty	Part	Quantity	Unit
Shandong Dahuan				
General Assembly				
(Free Standing)				
Hydraulic Mast				
Scale				
Assembly				
Total				
Part	Qty	Part	Quantity	Unit
Shandong Dahuan				
General Assembly				
(Free Standing)				
Hydraulic Mast				
Scale				
Assembly				
Total				
Part	Qty	Part	Quantity	Unit
Shandong Dahuan				
General Assembly				
(Free Standing)				
Hydraulic Mast				
Scale				
Assembly				
Total				
Part	Qty	Part	Quantity	Unit
Shandong Dahuan				
General Assembly				
(Free Standing)				
Hydraulic Mast				
Scale				
Assembly				
Total				
Part	Qty	Part	Quantity	Unit
Shandong Dahuan				
General Assembly				
(Free Standing)				



기 호 설 명

31	HD19 X 595 (e=17)	피치 (cm)
		철근전체길이 (cm)
		철근의 직경 (mm)
		철근의 수량 (EA)

Note.

- 콘크리트 압축강도, $f_c = 240\text{kg/cm}^2$
- 철근 : SD40 ($f_y = 4000\text{kg/cm}^2$)
- 하중지내력, $q_0 = 15\text{t/m}^2$
- 기초 규격 : 5.4m X 5.4m X 1.35m
- Anchor를 가설지한 상태에서 Anchor 기둥의 레벨을 정확히 맞추고, 콘크리트 타설이나 외부의 힘에 의해 움직이지 않도록 충분한 보강을 한 후 레벨을 필히 재검사 하여야한다.
- 마스트를 지립높이 이상 설치할 경우에는 반드시 수평지대를 설치하여야 한다.
- 지내력이 부족한 지역에서는 Tower Crane의 기초가 침하되어 Tower Crane의 안정성에 위험이 있으므로 Friction Pile 및 기타 방법으로 보강되어야 한다.

상부 철근

⑤ 31 HD19 X 595 (e=17) 20 20 525 (e=17)

⑥ 31 HD19 X 595 (e=17) 20 20 525 (e=17)

⑦ 31 HD19 X 595 (e=17) 20 20 525 (e=17)

하부 철근

⑧ HD19 X 595 (e=17) 20 20 525 (e=17)

⑨ 31 HD19 X 595 (e=17) 20 20 525 (e=17)

상, 하부 연결 철근

⑩ 7X7=49 HD16X160 (e=68) 125 125 125 (e=68)

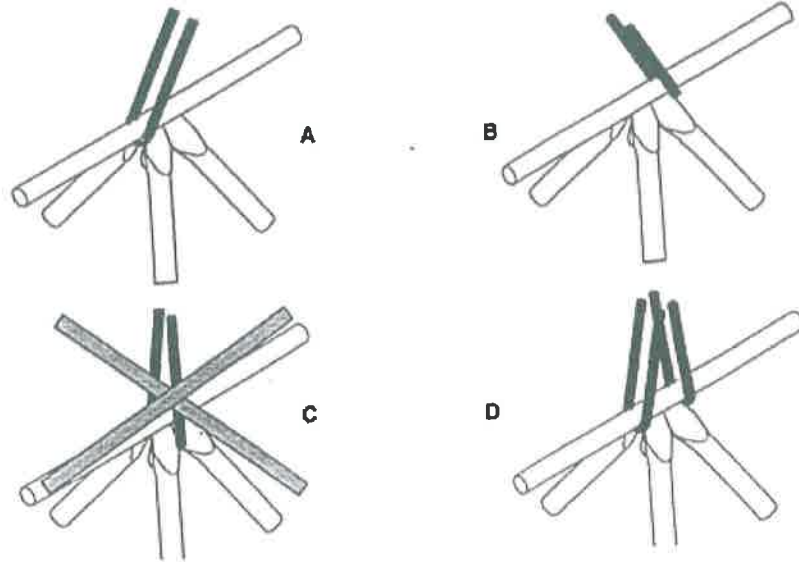
Concrete Foundation				(유)하이츠타워	
Mark	Q'ty	Part	Change by the Number	Signature	Date
Design					
Draw					
Check					
Process					
Phase Mark				Weight	Scale
A				-	1:40
Total				Paragraph	
				Foundation	
				CCTL80	

3.7. Jib 조립

3.7.1. 슬링(Sling)

각 설치 단위의 구성에 따라서 지브의 무게와 무게 중심이 주어져야 한다.

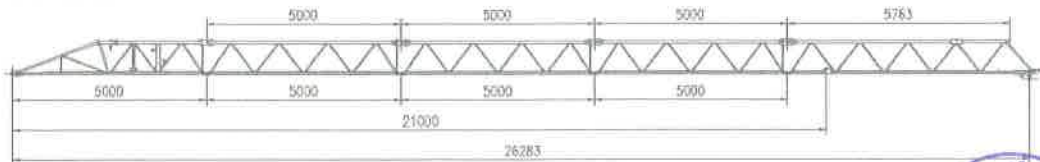
지브 설치 전에 지면으로부터 10cm 들어 올리고 필요하다면 인양 지점을 제조성하여야 한다.



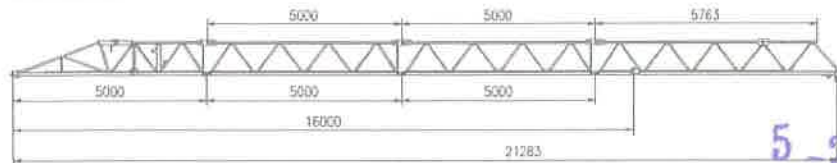
Note. 다음과 같은 방법으로 지브를 슬링한다.

- 슬링을 그림 A의 앞쪽이나 그림 B의 뒤쪽에 건다.
- 혹은 그림 A와 그림 D로 걸 수도 있다. 그러나 Diagonal(그림 C) 사이로 걸어서는 안된다.
- 직경과 길이가 구성품(인양물)의 중량과 치수에 적합한 두 개의 슬링을 사용하여야 한다.

Jib 25m



Jib 20m

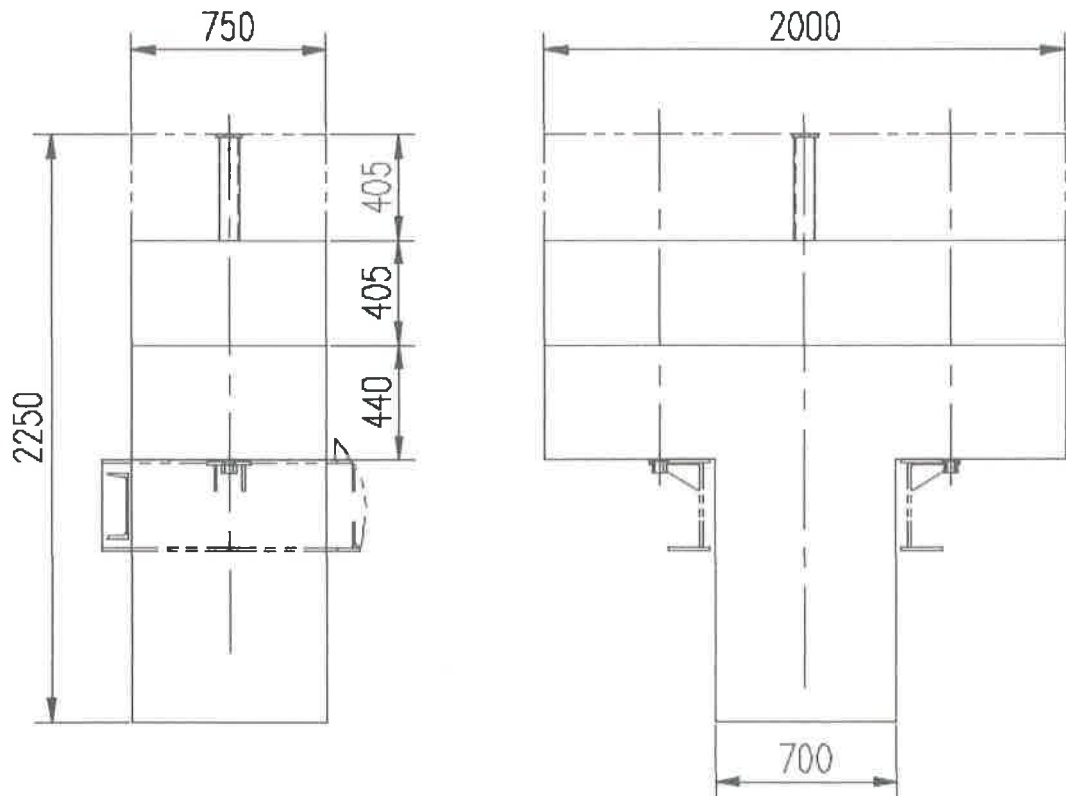


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Counter Jib가 설치된 후 유압 크레인으로 Jib을 들어 올린 후 Counter Jib에 조립한다.

A-Frame과 Jib은 Safety Wire Rope로서 연결한다. Safety Wire Rope는 Jib의 추락방지와 기복 및 권상 Wire Rope의 유지보수, Jib의 설치·해체의 수단으로서 사용되며 끝단부는 슬링(Sling) 고정방식이다.

3.8. 카운터 웨이트 (Counter Weight) 설치



Jib Length	Counter Weight 4000	Counter Weight 2000	Weight(kg)
25m	1	2	8000
20m	1	1	6000

잔여 Counter Weight를 설치한다.

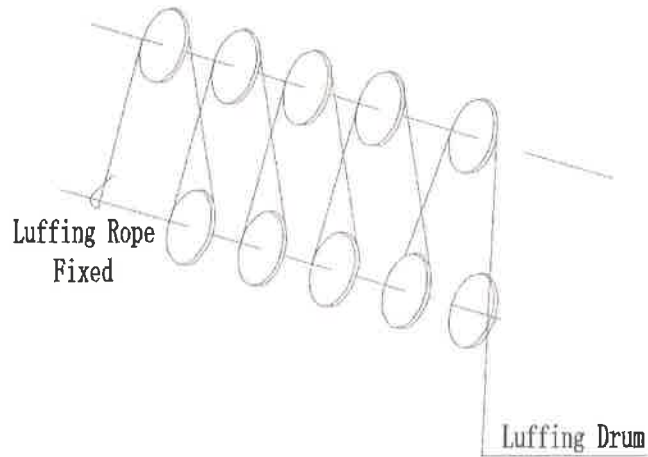


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3.9. Wire Rope Reeving

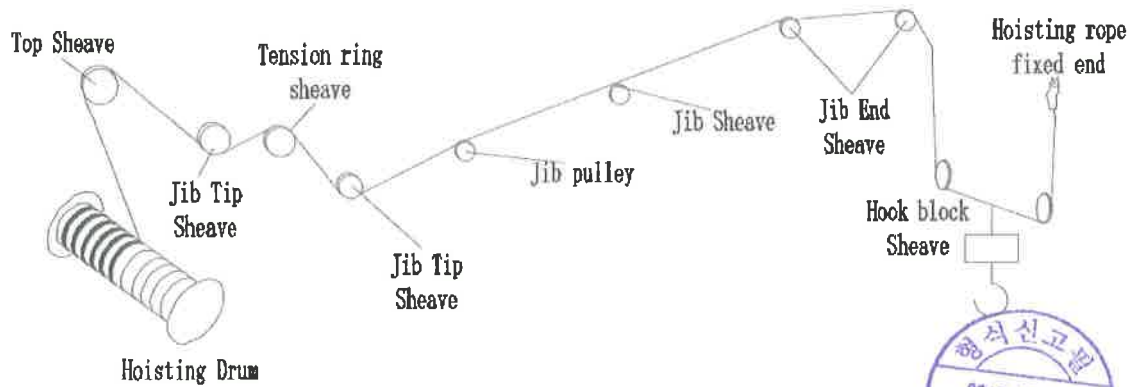
3.9.1. Luffing Wire Rope Reeving

Luffing wire rope Reeving(10falls)



3.9.2. Hoisting Wire Rope Reeving

Hoisting Wire Rope Reeving(2falls)



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