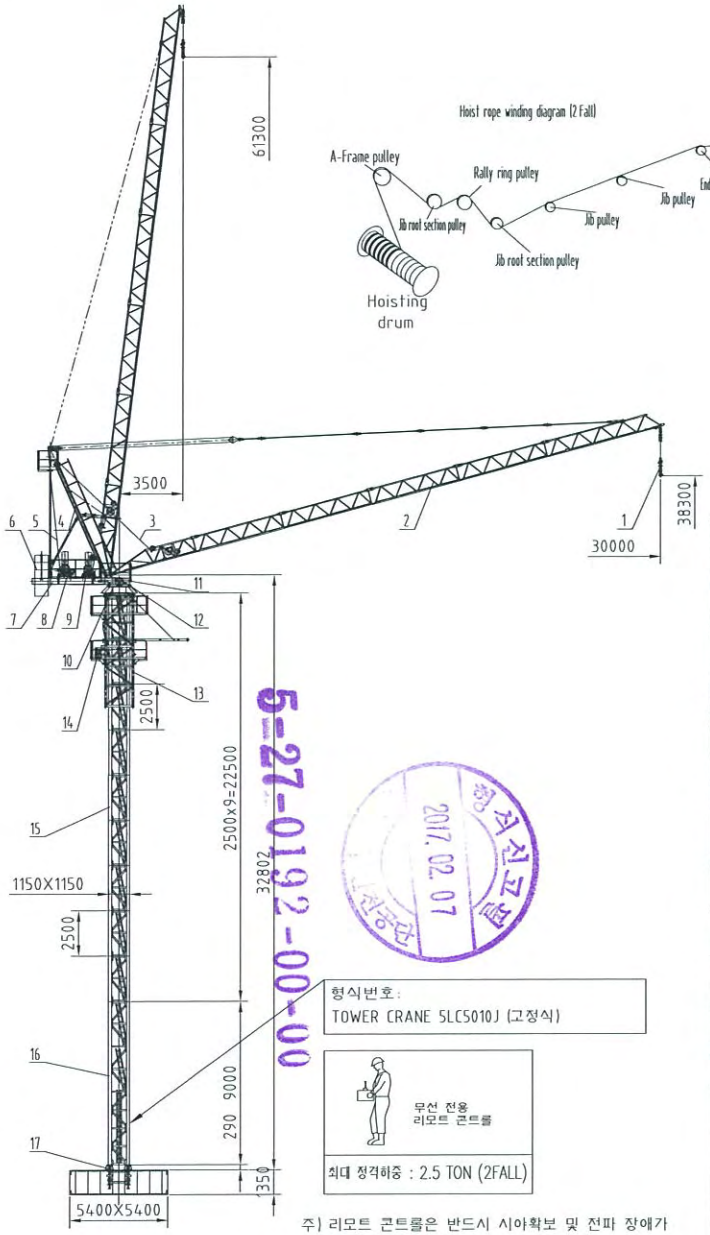
크레인 설계조건

항 목		내 용		
1. 정격하중 (Rated Load)		Max Load : 2.5ton Tip Load : 1.9ton @ 30m		
2. 주권의 달기구	종 류	Single Hook		
	자체 중량	152kg		
3. 작업반경 (Working Radius)		3.5m ~ 30m		
4. 양 정		Free Standing : 38.3m (H. U. Hook) Max. Height : 91.9m (H. U. Hook)		
5. 속 도	권 상 (Hoisting)	Specification	11kW × 4P (i = 1/36.87)	
		Speed	0 ~ 21.7m/min	0 ~ 43.4 m/min
		Lifting Capacity	2.5 ton	1.0 ton
	기 복 (Luffing)	Specification	11kW × 4P (i = 1/36.87)	
		Speed	5.2m/min (time : < 3min)	
	선 회 (Slewing)	Specification	4.0kW (i = 1/176)	
		Speed	0.67pm	
	상 승 (Climbing)	Specification	4.0kW	
		Speed	max. 0.5m/min	
6. 용 도		건설자재 운반용		
7. 설치 위치		□옥내 ■옥외		
8. 하중을 받는 횟수		하중을 받는 1.2×10^5 ~ 2.5×10^5 정격하중의 50%이상 63%이하의 하중용 크레인		
9. 주위 온도 (Control Box)		−20 ° C ~ 40 ° C		
10. 운전 조작		□운전실 □펜던트 ■무선 리모콘		
11. Main S/W		3∅ × 60Hz × A.C 380V		
12. 조작 전원		DC 24V		
13. Main Cable		16SQ × 4C (YCW or PNCT)		
14. 방폭구조사용 유무		□有 ■無		
15. Wire rope	권상(Hoisting)	Ø12, 35W×7		
	기복(Luffing)	Ø12, 35W×7		
16. 비가동시 지브의 각도 범위		15° ~ max. 45°		

※ 제조자는 설치·해체·사용상의 안전을 확보하기 위하여 설치·해체·사용·유지·보수 등 관련 설명서를 구매자(사용자)에게 제공한다.



Technical Requirement

1. The tower can be fixed, attached to two cases, attached to the installation, the suspended height shall not exceed 27.3 meters;
2. The whole installation, the tower axis line of the straightness tolerance shall not exceed the measured length of 4/1000;
3. After the installation of the tower crane, the rotating parts should be flexible rotation, the brake work should be sensitive, safe and reliable;
4. The safety device installation, commissioning and use should be in stricl accordance with the conditions specified in the use of instructions, The error is not more than 2% of the design value;
5. A variety of nominal speed and nominal value of the error is not greater than 5% of nominal;
6. According to national standards GB / T5031-2008 tower cranes, GB / T13752-1992 tower crane design specifications and GB5144-2006 tower crane safety regulations design.

Load Capacity

Jib 30m	Working Radius(m)	3.5~24	25	26	27	28	29	30
	weight (kg)	2500	2380	2270	2170	2070	1980	1900
Jib 25m	Working Radius(m)	3~25						
	weight (kg)	2500						
Jib 20m	Working Radius(m)	2.6~20						
	weight (kg)	2500						

Technical Data Sheet

Tower crane working class		A4		
Institutional Work Level	Hoisting mechanism	M5		
	Slewing mechanism	M4		
	Luffing mechanism	M4		
Hoisting height (m)	Magnification	Fixed	Attached	
	a=2	38.3/61.3	91.9/106	
Maximum lifting torque (t · m)		62.5		
Maximum lifting capacity (t)		2.5		
Jib Length Type		30M	25M	20M
Working range (m)		3.5 ~ 30	3.0 ~ 25	2.6 ~ 20
Hoisting capacity at maximum Radius (t		1.9		
Hoisting Mechanism	Magnification	2		
	Speed (m / min)	0 ~ 21.7	0 ~ 43.4	
	Lifting capacity (t)	2.5	1.0	
	Power (kW)	11		
Slewing mechanism	Speed (r / min)	0 ~ 0.67		
	Motor power (kW)	4 X 1		
Luffing mechanism	Time (min)	< 3		
	Motor power (kW)	11		
Telescopic mechanism	Speed (m / min)	< 0.5		
	Working pressure (MPa)	20		
	Power (kW)	4		
Counter weight	Jib Length (m)	Counter weight (t)		
	30	8		
	25	7		
	20	5		
Electric	Power	Main	3Φ X 60Hz X AC 380	
		Control	DC 24V	
	Main Cable	YCW(or PNCT) 16SQ X4 C		
	Main Braker	80A		
Controller	Wireless Remote Controller			

형식번호:
TOWER CRANE 5LC5010J (고정식)

최대 정격하중 : 2.5 TON (2FALL)

주) 리모트 콘트롤은 반드시 시야확보 및 전파 장애가 없는 곳에서 조작한다.

No.	Code	Name	Q'ty	Material	Single Weight	Total Weight	Remark
18	CLT2525.10	Wall Tie		Components			
17	GDJ1150	Foundation Anchor	1	Components			
16	BS1150	Basic Mast	1	Components	2751	2751	
15	MT1150	Standard section	9	Components	775	6975	
14		Hydraulic Unit	1	Components			
13	CLT2525.6	Telescopic Cage	1	Components	1677	1677	
12		Slewing ring QWA1116.35	1	Finished products	330	330	
11		Rotary mechanism (JH07 reducer)	1	Components	155	155	
10	CLT2525.5	Lower Slewing Frame	1	Components	765	765	
9	QSL50A	Hoisting Winch	1	Components	1075	1075	
8	LBL12A	Luffing Winch	1	Components	1075	1075	
7	CTL2525.2	Counter Jib	1	Components	1965	1965	
6	D3019.12	Counter weight	1	Components	8000	8000	Jib 30m
5		Luffing Wire Rope Φ12, 35WX7	1				
4	CTL2525.3	A-frame	1	Components			
3		Hoisting Wire Rope Φ12, 35WX7	1				
2	CTL3019.4	Jib Assembly(with Tie Bar)	1	Components	2180	2180	Jib 30m
1	DG.2	Hook	1	Components	152	152	

Mark	Q'ty	Partition	Change the file number	Signature	Date
Design			Standardization		
Plotting					
Audit					
Process			Approval		

GENERAL ASSEMBLY

Shandong Dahan Construction Machinery Co., LTd

CCTL80A

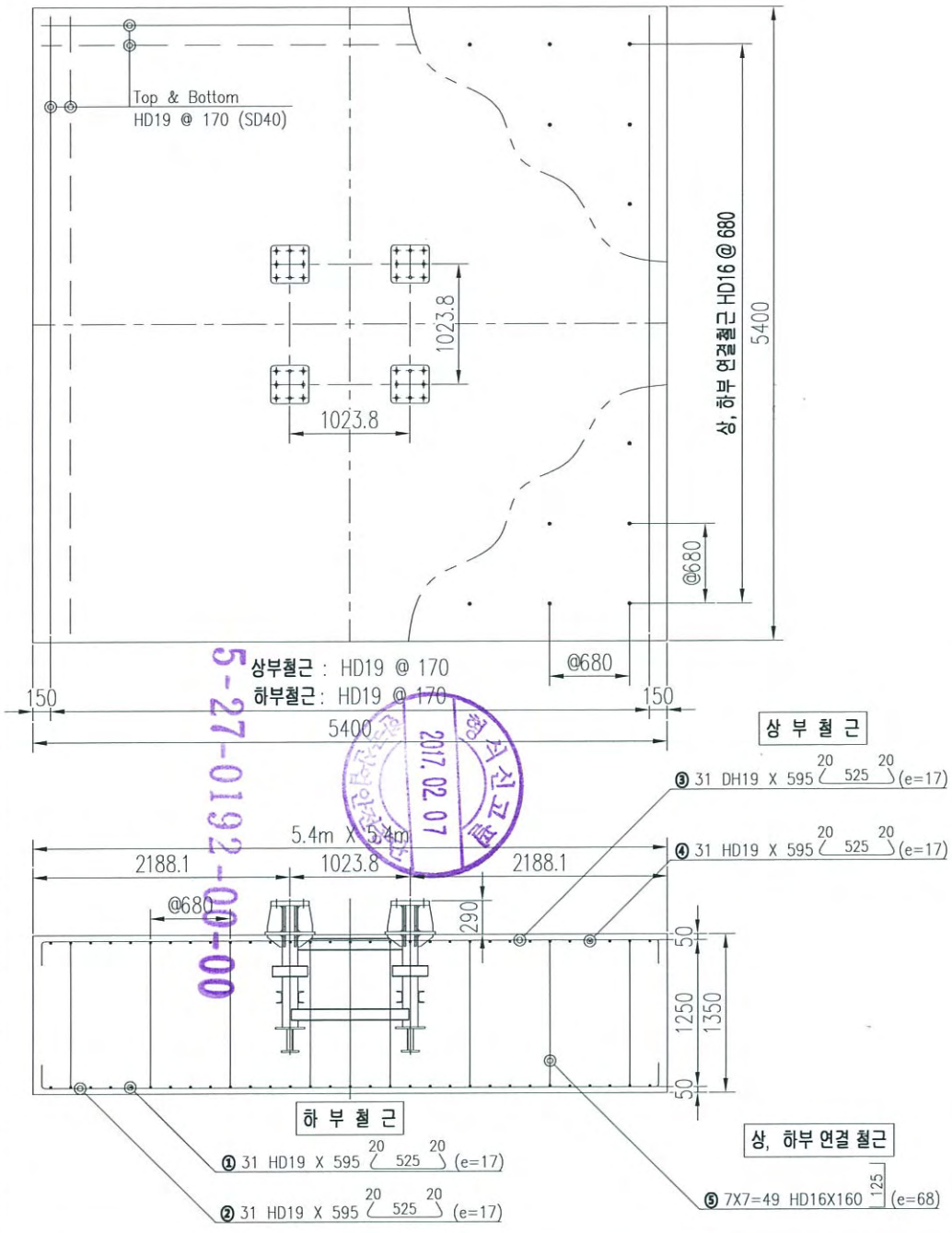
Phase tag	Weight	Scale
A		1:150

Total 1 Page

CCTL80A

A2

CCTL80



기 호 설 명

31 HD19 X 595 (e=17)

- 피치 (cm)
- 철근전체길이 (cm)
- 철근의 직경 (mm)
- 철근의 수량 (EA)

Note.

1. 콘크리트 압축강도, f_c = 240kg/cm^2
2. 철근 : SD40 (f_y = 4000kg/cm^2)
3. 허용지내력, q_a = 15t/m^2
4. 기초 규격 : 5.4m X 5.4m X 1.35m
5. Anchor를 가설치한 상태에서 Anchor 기둥의 레벨을 정확히 맞추고, 콘크리트 타설이나 외부의 힘에 의해 움직이지 않도록 충분한 보강을 한 후 레벨을 필히 재검사 하여야한다.
6. 마스트를 자립높이 이상 설치할 경우에는 반드시 수평지지대를 설치하여야 한다.
7. 지내력이 부족한 지역에서는 Tower Crane의 기초가 침하되어 Tower Crane의 안정성에 위험이 따르므로 Friction Pile 및 기타 방법으로 보강되어져야 한다.

5-27-0192-00-00

Mark	Q'ty	Part	Change the File Number	Signature	Date
Design			Standardization		
Draw					
Check					
Processes			Approval		

Concrete Foundation	(유)하이츠타워
Foundation	
Phase Mark: A	Weight: – / Scale: 1:40
Total Paragraph	CCTL80A

A3