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자 기 탐 상 검 사 보 고 서

MAGNETIC PARTICLE TESTING REPORT

	코스텍 기술주식회사 KOSTEC CO., LTD	보고서 번호 Report No.	KOST-GP-BY23-MT-221		
	군포지부 경기도 의왕시 이미로40 인덕원IT밸라 A동 501호 전화 (031) 349-0881 FAX:(031) 349-0882		보고 일자 Report Date	2023.08.14.	
			페이지번호 Page No.	1 of 2	
발 주 처 / Customer 현대건설		제 품 명 / 번호 Item Name / No. 크롤러크레인 / 인천07마6429			
공 사 명 / 번호 Project Name / No. 인천도시철도 1호선 검단연장선 1공구 건설공사		도면번호 / DWG. No. N/A		Rev. No.	
적용규격 / Applied Spec. KS D 0213		절차서 번호 / Procedure No. KOST-GP-MTP-SSE-07		Rev. No. 0	
재 질 / Material 두께 / Thickness - C/S <input type="checkbox"/> mm		트레블라 번호 / Traveller & Step No. N/A			
표 면 상 태 <input checked="" type="checkbox"/> As welded <input type="checkbox"/> As Cast <input type="checkbox"/> As Forged <input type="checkbox"/> As Machined		탈 자 <input type="checkbox"/> Yes Demagnetization <input checked="" type="checkbox"/> No			
장 비 Equipment <input checked="" type="checkbox"/> AC 교류 <input type="checkbox"/> DC 직류 <input type="checkbox"/> HWDC반파직류	<input checked="" type="checkbox"/> 극간법 YOKE <input type="checkbox"/> 프로드법 PROD 견인력 Lifting Power	제조사 Maker 기준값 Rating 4.5 <input type="checkbox"/> lb <input checked="" type="checkbox"/> kg	모델 Model 전류값 Current 크 간 격 Poie spacing	일련번호 Serial No. N/A 4 ~ 6 <input checked="" type="checkbox"/> inch <input type="checkbox"/> mm	
자 분 Magnetic Particle	<input checked="" type="checkbox"/> 습식 Wet <input type="checkbox"/> 건식 Dry	제조사 Maker 제조번호 Batch No.	형태 Type MPS-B	<input type="checkbox"/> 적색 Red <input type="checkbox"/> 형광 Fluor. <input checked="" type="checkbox"/> 흑색 Black <input checked="" type="checkbox"/> 비형광 Non-Flu	
자 외 선 등 Black Light	<input type="checkbox"/> 사 용 / With <input checked="" type="checkbox"/> 사 용 무 / Without	제조사 / Maker N/A	일련번호 Serial No. N/A	강 도 Intensity N/A <input type="checkbox"/> ft-cd <input type="checkbox"/> μW / cm ²	
조 명 원 Light Source	<input checked="" type="checkbox"/> 자 연 광 Natural light <input type="checkbox"/> 인 공 광 Artificial light	인공광의 종류 Artificial light Type N/A			
조 도 계 Lux Meter	제조사/MAKER TES	형식/Model & Type 1330A	일련번호/Serial No. 220502872	조 도 Illumination 2000↑ lx	
확 인 번 호 Identification No.	합 격 Accept 불 합 격 Reject	판 정 Interpretation	지 시 길 이 Length of Ind.	결 함 수 No. of Ind.	비 고 Remarks
붐	V	No Recordable Indication			
후크	V	No Recordable Indication			
갠트리	V	No Recordable Indication			
턴테이블	V	No Recordable Indication			
Sketch on line, if necessary. <input type="checkbox"/> Attached. 필요시 실선안에 스케치하거나 또는 첨부할 것.					
검 사 일 자 Date of Examination 2023.08.14.		<input type="checkbox"/> 제3자 검사관 / 3rd Party Inspector		<input type="checkbox"/> 공인 검사관 AI/ANI <input type="checkbox"/> 검토 Reviewed <input type="checkbox"/> 입회 Witnessed	
검 사 자 Examined by : 김 선 재  산업기사 자격		<input type="checkbox"/> 발주처 감독관 / Customer		<input type="checkbox"/> 검토 Reviewed <input type="checkbox"/> 입회 Witnessed	
승 인 자 Approved by : 이 한 형  기사 자격					

SKETCH OF TESTED ITEM



코스텍 기술주식회사
KOSTEC CO., LTD

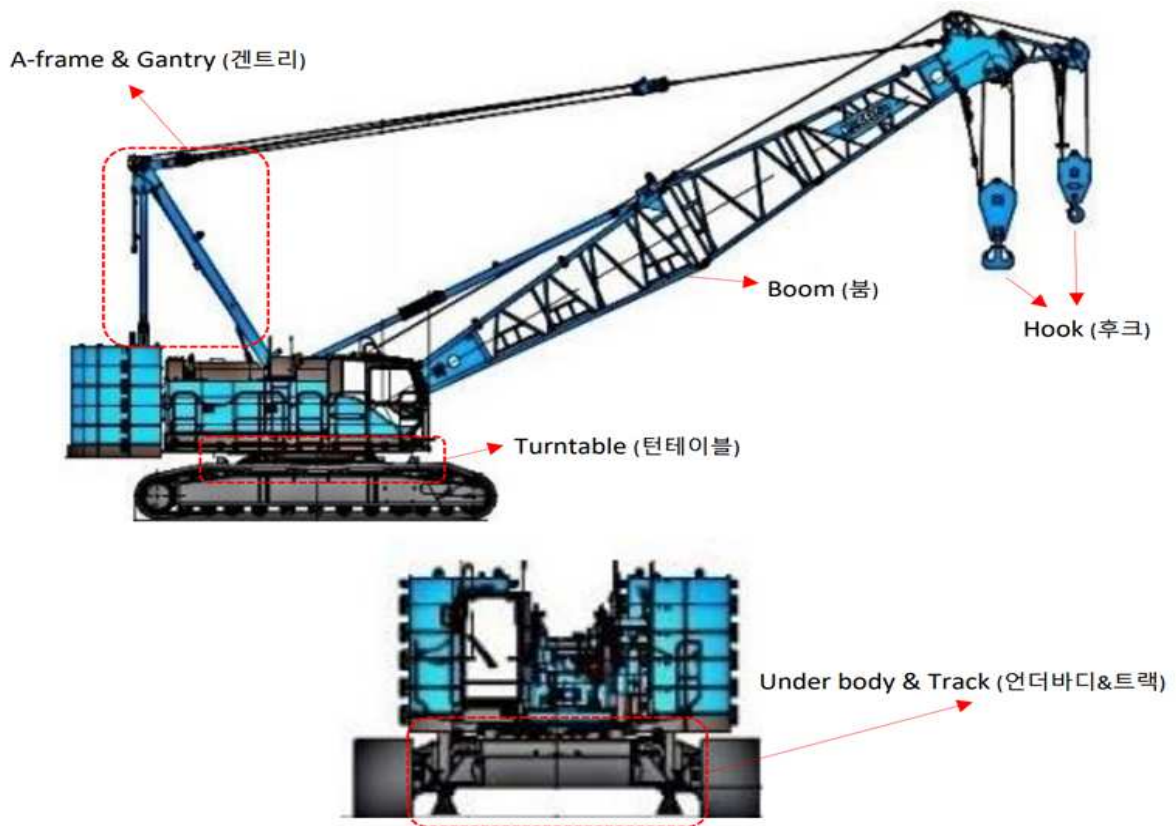
군포지부

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전화

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크롤러크레인 / 인천07마6429



크롤러크레인 전체사진



크롤러크레인 번호판사진

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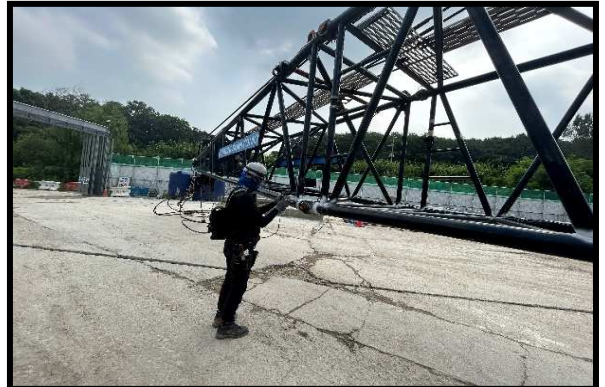
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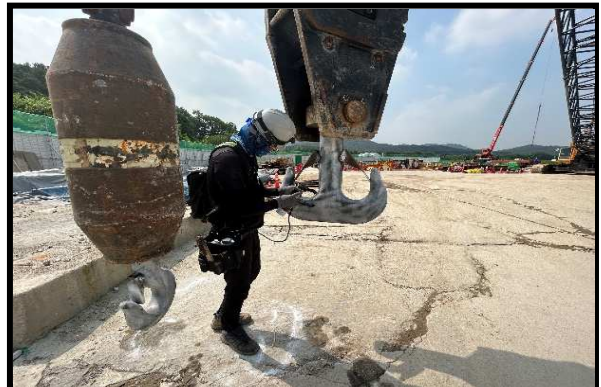
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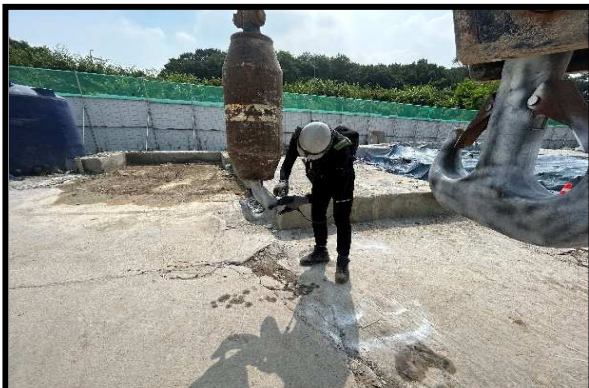
후크



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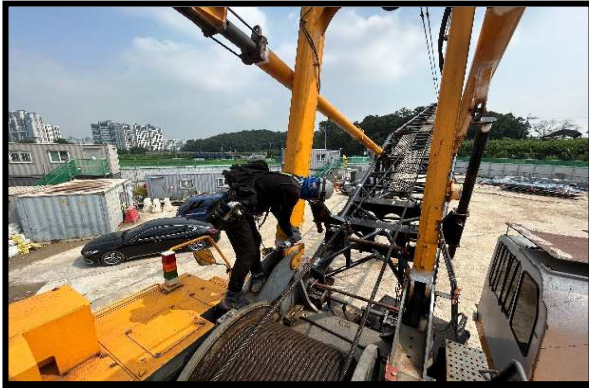
크롤러크레인 / 인천07마6429



겐트리



겐트리



겐트리



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크롤러크레인 / 인천07마6429



턴테이블



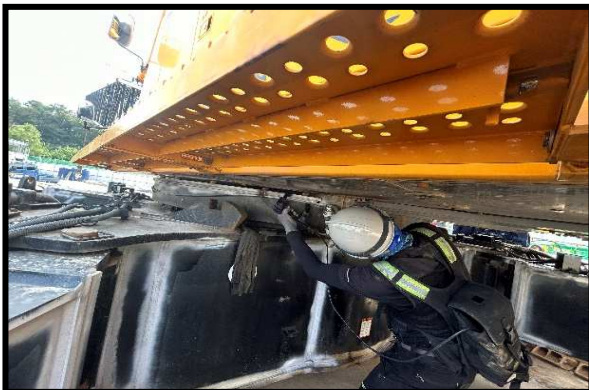
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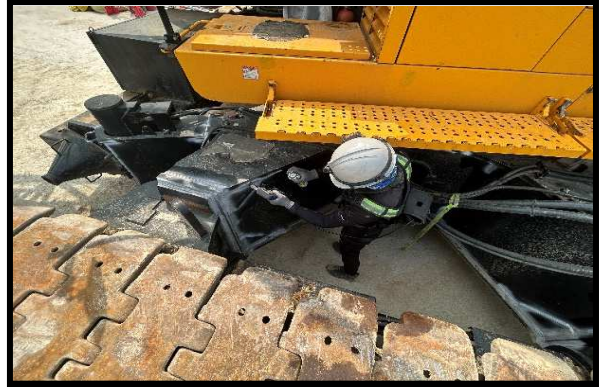
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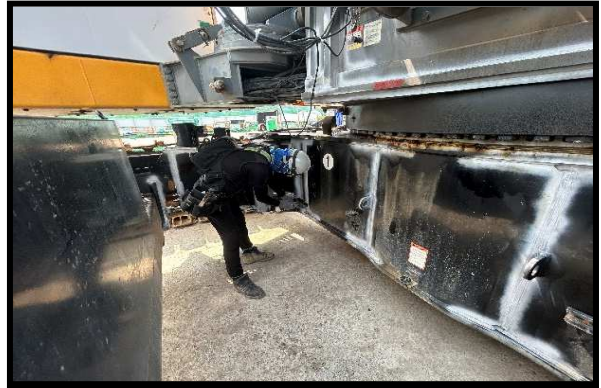
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12-02-103808

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4. 국가기술자격이 취소되거나 정지된 사람은 지체 없이 국가기술자격증을 주무부장관에게 반납해야 합니다.

■ 자격번호 : 12203021331U

■ 자격종목 : 자기비파괴검사산업기사

■ 성 명 : 김선재

■ 생년월일 : 1992.05.07

위 사람은 「국가기술자격법」에 따른 국가기술자격을 취득하였음을 증명합니다.

■ 합격 연월일 : 2012년 11월 23일

■ 발급 연월일 : 2012년 12월 17일

교육과학기술부

※ 본 국가기술자격증은 「국가기술자격법」 제23조에 따라 교육과학기술부장관의 위탁을 받은 한국산업인력공단 이사장이 확인·발급함.

한국산업인력공단 이사장




NATIONAL TECHNICAL CERTIFICATE

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- KIND OF QUALIFICATION : NDT (MT), The Engineer
- IDENTIFICATION NO : 920507
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- ISSUED DATE : Dec. 17. 2012
- ISSUED BY : KMPA

원본대조필



국가기술자격증		변경사항		
자격증 번호 992060702570 성명 이한형 자격종목 및 등급 1613 자기비파과 검사기사 주민등록번호 740201-1 주소 전남 나주시 부덕동 509-7 합격년월일 1999년 12월 06일 교부년월일 1999년 12월 09일 한국산업인력공단 이사장		년월일 2002. 2. 20 2002. 4. 11	변경내용 재발령 서울 동화기 석회동 242-2 대성1리 맨션 403호 비파과시험기사(자기탐상) 서울소방방재 선임신고필 (주)중산기술공사) 고재필	확인 
소정의 직인, 실인 및 철인(천공)이 없는 것은 무효임.				

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- NAME** : LEE HAN HYUNG

- REGISTERED NUMBER** : 992060702570

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- IDENTIFICATION NO** : 740201

- ADDRESS** : 426Dong504Ho #260, Jagokro, Gang nam-gu, Seoul

- ISSUED DATE** : Dec. 09. 1999

- ISSUED BY** : KMPA

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수신자 : 광성건기(주) 대표이사

참조 : -

제목 : 크레인 안전점검 결과서 제출

- 귀사의 무궁한 발전과 무재해를 기원합니다.
- 건설현장에 사용중(예정)인 건설기계에 대한 안전점검을 실시하고 그 결과를 불임과 같이 제출하오니 업무에 참조하여 주시기 바랍니다.

불임 : 크롤러크레인 안전점검 결과보고서 1부. 끝.

(주)에스텍기술 대표이사



담당 건설기계검사팀 김현업

부장 김영서

대표이사 양형규

시행 검사 2023-081405호 2023-08-14 접수 ()

우 07802 서울특별시 강서구 공항대로 213, 1008호 (마곡동, 보타닉파크타워2)


전화 02-2658-0095,8 전송 02-2659-0095 E-mail sttec24181@naver.com /공개

기종기 안전점검 보고서

인천07마6429

광성건기(주)

2023-08-14

 고용노동부지정검사기관
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Tel. 02-2658-0095,8 / Fax. 02-2659-0095

제2018-040004호

지정검사기관 지정서(변경)

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대표자성명	양형규	
지정사항	총 대행(지정)한 계	사업장(0)개소, 근로자(0)명
	관할 지역 대행(지정)한 계	사업장(0)개소, 근로자(0)명
	대행(지정)지역	중부청 관내

※ 준수사항

1. 지정검사기관기관은 고용노동부장관 또는 지방노동관서장의 자료제출요구 및 점검에 적극 협조하여야 한다.
2. 지정검사기관기관으로 지정받은 기관은 산업안전보건법령에서 정하는 사항을 준수하여야 한다.

『산업안전보건법』 제36조의 규정의 의하여 지정검사기관으로 지정합니다.

2018. 7. 9.

중부지방고용노동청장



크롤러크레인 안전점검 결과서

사업자명	광성건기(주)	형식번호	SCX2800-2
검사장소	인천도시철도 1호선 검단역장전 1공구	정격하중	275 TON
등록번호	인천07마6429	제조년월일	2011
제조사	HITACHI	검사년월일	2023-08-14

작성 방법	1. 검사결과 표시 / O : 양호, △ : 조정, □ : 교환, ϕ : 제작, X : 폐기, - : 비적용] 2. "조치사항"은 보수, 사용중지, 작업중지 또는 폐기 등으로 표시하고 조치내역 및 그 결과를 첨부
-------	---

검사 부분	검사항목	판정 기준	판정	조치사항	
1 · 외관 및 구조	1) 붐 및 아웃트리거(무한계도-비적용)	① 붐 등 전길이 상태	○		
		② 붐 고정 볼트/너트 풀림상태 확인			
		③ 붐 등 용접부 결함 유무			
		④ 붐 등 실린더 장치 이상 유무			
		⑤ 붐 등 연결부 이상 유무 확인			
		⑥ 지반 침하 및 받침대 수평상태			
		⑦ 기타 유압시스템 이상 유무			
2 · 권상장치	1) 시브, 베어링 및 핀	① 마모한도는 다음 값 이내일 것 ·주철, 주강재 홈 부위 : 로프 직경의 25% ·용접재 홈부위 : 로프 직경의 15% 로프 직경의 15%	○		
		② 급유가 적정할 것			
	2) 로프 이탈방지	붐 시브 로프 이탈방지 가이드 마모 및 손상상태 확인	○		
	3) 축크블록	① 축크 균열, 변형 및 마모 이상 유무	○		
		② 축크 회전상태 및 나사부 풀림 방지등 확인			
		③ 축크 개구부 벌어짐 등 변형유무 확인			
		④ 볼트, 너트, 분할핀 등 균열, 탈락 변형 유무 확인			
	4) 와이어로프	① 규정된 와이어로프 사용 여부 확인	○		
		② 와이어로프 단말고정, 여유 감김수, 소선절단 및 킹크 등 변형 유무 확인 - .꼬임에서 소선수의10%이상 절단되지 않을 것 - .지름 감소가 공칭 지름의7%이하이고, 킹크나 부식이 없을 것			
		③ 난권이 없고 급유가 적정 할 것			
	5) 드럼	① 균열, 변형, 마모가 없을 것	○		
		② 마모한도는 다음 값 이내 일 것 - 주철, 주강재 홈 부위 : 로프 직경의 25% - 용접재 홈부위 : 로프 직경의 20%			
		③ 축 및 베어링은 균열, 변형, 마모가 없고 급유가 적정할 것			
	3 · 선회장치	1) 선회 후레임 및 브라켓트	① 균열, 변형 유무 확인	○	
		2) 선회장치	① 작동 시 이상음, 발열 및 정용 볼트, 너트의 풀림방지 조치가 되어 있을 것	○	
② 표시 부착상태 및 균열 등의 결함이 없을 것					
3) 카운터		① 카운터 웨이트 무게 확인	○		
		② 설치 볼트/너트 조임 상태확인			

부검 분사	검사항목	판정기준	판정	조치사항
3 · 선회장치	4) 캡(CAB, 운전실)본체	① 균열, 변형, 부식 등 이상이 없을 것.	○	
		② 도어 개폐상태, 록크 및 키 이상 유무 확인		
		③ 제어장치 방향표시는 하중이동과 기계운동 동작과의 방향표시가 일치하고 분명할 것		
		④ 소화기 배치 확인		
	5) 연결구 및 고정구	① 상부 회전체 각 부분 볼트/너트 고정상태 확인	○	
② 핀 변형 유무 확인				
4. 주행 장치	1) 차륜 (트랙)	① 차축의 갈라짐 및 밧 휠 너트 풀림 상태 확인	○	
		② 타이어(트랙 & 슈) 또는 케도는 손상, 변형, 오염, 이물질 등이 없고 양호 할 것.		
		③ 기타 주행장치 이상 유무 확인		
5 · 안전 장치	1) 권과 방지장치	규정된 거리에서 정상 작동 될 것.	○	
	2) 과부하 방지장치	① 하중검출기 구성부품 균열, 변형, 손상이 없을 것	○	
		② 계기판 손상, 오염 유무 확인		
		③ 스위치 작동 후 스위치 및 지침 움직임 또는 램프 경음 작동 이상 유무 확인		
	3) 선회로크 및 제동장치, 드럼 역회전방지장치	① 선회로크 균열, 마모변형, 손상이 없고 양호할 것.	○	
② 브레이크 작동상태 검사 및 라이닝의 마모량(원형의 50%)확인 , 드럼 역회전방지장치 작동 확인				
6. 하중 장치	1) 권상능력	① 정격하중 화물로 권상하여 권상능력 확인	○	무부하
	2) 브레이크 작동	② 정격하중 화물을 걸고 브레이크 작동 제동력 확인	○	
7. 전기 장치	1) 시동 및 전기배선	① 배터리, 레귤레이터, 발전기등 작동 손상 상태 확인	○	
		② 각 배선, 배전반 상태 확인		
		③ 제어반 작동 손상 유무 확인		
8 · 기 타	2) 표지판 및 정리정돈	① 크레인 안전표지판 부착 및 록크블럭 정격하중 표기	○	
		② 크레인 주변정리정돈 등 상태		
		③ 기 타		
검사원	김현엽 김현엽	대행검사기관		

Safety Inspection Picture & Opinion

인천07마6429

Check Point

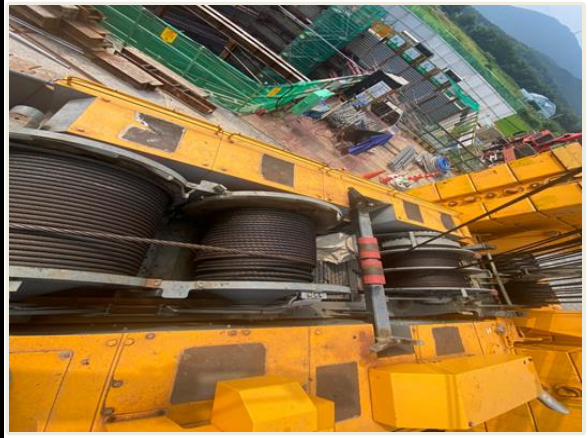


점검항목 장비 규격 및 외관구조

점검항목 붐

점검내용 형식/규격 일치하며, 외관구조부 손상이나 변형이 없이 조립상태 적정함

점검내용 외관 손상이나 변형이 없으며 연결부 조립구조가 적정함

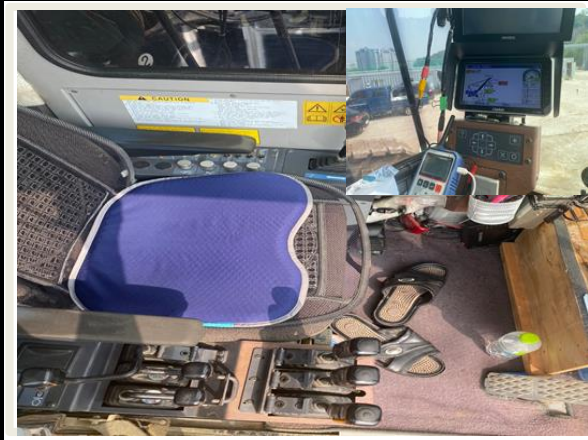


점검항목 주행장치

점검항목 권상장치(드럼)

점검내용 트랙 & 슈의 변형이나 파손이 없으며 핀 및 이탈방지 볼트 체결상태, 유압구동부 누유없이 적정함

점검내용 구조 및 와이어로프 감김이 정상임. 브레이크, 클러치 및 역회전방지장치 정상 작동함



점검항목 기계장치(와이어로프)

점검항목 조작레버, 모니터

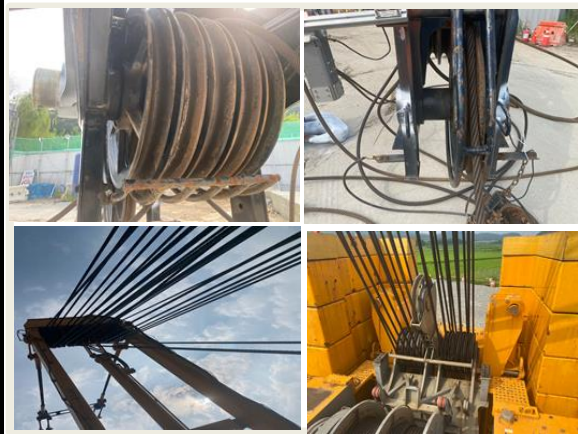
점검내용 와이어로프 외경 측정치가 공칭치름 마모 허용치 이내이며 외관상 변형이나 손상이 없음

점검내용 조작레버 작동이 정상이며 모니터 표시가 적정함

Safety Inspection Picture & Opinion

인천07마6429

Check Point



점검항목 시브, 베어링 및 와이어로프 이탈방지
점검내용 시브 손상이나 변형이 없으며 베어링 윤활상태,와 와이어로프 이탈방지상태 적정함



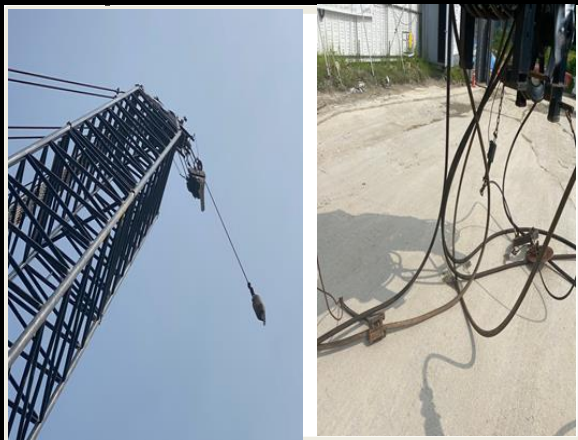
점검항목 선회장치
점검내용 선회장치 볼트 체결이 견고하며 작동시 이상음이나 이상발열 등이 없이 관리상태 적정함



점검항목 안전장치(불기복제한장치 및 선회경보장치)
점검내용 불 기록 제한장치의 설치 및 차단상태와 선회경보장치의 작동상태 적정함



점검항목 동력부(엔진 및 유압장치)
점검내용 배관 및 호스 연결부 누유가 없으며 작동상태 적정함



점검항목 안전장치(권과방지장치)
점검내용 권과방지장치 조립/설치 및 차단상태 적정함



점검항목 훅 블록
점검내용 균열, 변형 및 이상마모없이 훅해지장치 장력상태 적정함

건설기계 등록증
 검사증

발급번호 2817-20201111-005764 제작년도 : 2011 최초등록일 2011-11-04

건설기계의 표시

구 등록번호 : 경기07고48832

건설기계명	기중기	등록번호	인천07마6429
형식	SCX2800-2	구격	275ton 4.3 m
원동기 및 형식	6M70-TL	차대일련번호	SC280-7214
등록사항	사용본거지(영업용의 경우에는 상호 및 명진중기 인천광역시 남구 용현동 571번지 66호 1층 사용본거지)		

소유자의 표시

성명(법인명)	광성전기(주)	주민(사업자, 외국인)등록번호	110111-1388994
주소	서울특별시 영등포구 버드나루로 50(영등포동2가)		

「건설기계관리법」 제3조 및 제13조에 따라 등록 및 검사를 하였음을 증명합니다. 2020년 11월 11일
 사유 : 분실

인천광역시 미추홀구청장

1. 주요 제원	
형식승인번호 : 5-07-0081-00-00	
길이 24190 mm 너비 7520 mm	
높이 9935 mm 총중량 224100 kg	
주행방식 자주식 (무한레도식) 정격출력 370/2000 PS/RPM	
기동수 6 기동 연료종류 경유	
2. 저당권등록사실	
설정	2011-11-14
* 그 밖의 저당권등록의 내용은 건설기계등록원부(을)를 열람·확인하시기 바랍니다.	

3. 작업 장치	
* 기종별 작업장치 표시	
표준봉의 작업반경	4.3 m
봉길이(점검대길이)(표준)	15.25 m
봉길이(점검대길이)(최대)	91.45 m
봉의 최대각도	81.5 도
기중기 봉 단 수	선택 단
최대정격총하중	275000 kg
선회속도(점검대)	1.5 rpm
후회상속도(트롤리)	110 m/min
후회대지상높이(그라플)	34.0 m
아우트리거설치폭(가로X세로)	mm
최고속도(90km/h) 제한장치	설치 ()
대형건설기계 표지	설치 ()
* 대형건설기계는 도로운행시 도로관리청의 허가를 받아 운행하거나, 운행제한을 받지 아니하도록 분해 후 이동하여야 합니다.	

건설기계안전공제증권

○ 증권번호 : 07-2022-013134

구분	상호 / 성명	주민 / 사업자번호
계약자	광성건설(주)	107-81-59228
피공제자	광성건설(주)	107-81-59228

공제기간	2022년 11월 12일 16:00 부터 ~ 2023년 11월 12일 16:00 까지	
공제가입금액및공제료	공제가입금액	총 공제료
	₩ 730,000,000	₩ 7,055,600

공제가입사항	기본사항	건설기계명	기중기		대수	1	
		건설기계등록번호	인천07마6429		년식	2011	
	담보사항	구분	보상한도액	자기부담금		공제료	
		재물담보	₩ 500,000,000	₩ 1,000,000	₩	5,263,500	
		대인·대물통합배상책임	₩ 200,000,000	₩ 300,000	₩	1,121,600	
		보호,관리,통제에 따른직접손해배상책임담보	₩ 30,000,000	₩ 500,000	₩	565,400	
			직접손해한도	₩ 500,000	₩	105,100	
	특약사항	재물담보	풍수재담보특별약관 대위권포기특별약관(임차인)				
		배상책임담보 1	대위권포기특별약관(임차인)				
		배상책임담보 2	보호관리통제에따른직접손해배상책임담보				
배상책임담보 3		보호관리통제에따른간접손해배상책임담보					
기타특약							
추가기재사항							

총 공제료	₩ 7,055,600	일시납
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□ 연락처 : 02-2055-2552
 □ 발급일 : 2022년 11월 08일

우리 협회는 공제계약자와 해당 공제약관에 의하여 공제계약을 체결하고 그 증거로서 이 공제증권을 드립니다.

대한건설기계협회

회장 안춘엽



사업자등록증

(법인사업자)

등록번호 : 107-81-59228

법인명(단체명) : 광성건기 (주)

대표자 : 한경수

개업년월일 : 1997년 03월 13일 법인등록번호 : 110111-1388994

사업장소재지 : 서울특별시 영등포구 버드나루로 50 (영등포동2가)

본점소재지 : 서울특별시 영등포구 버드나루로 50 (영등포동2가)

사업의종류 : 업태 건설기계도급및대여 종목 건설기계대여및도급업외

교부사유 : 분실

상호 : 광성건기주식회사

주소 : 서울특별시 영등포구 버드나루로 50
(영등포2가) 리버타워o/p 619호

전화 : 02)2633-3200. 팩스 : 02)2675-3342

E-mail : crane-ks@hanmail.net

대표자 : 한 경 수(010-5254-7887)

사업자단위과세 적용사업자 여부 : 여() 부()

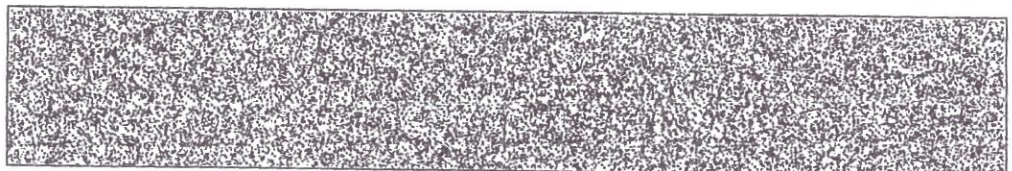
전자세금계산서 전용메일주소 :

2014 년 10 월 10 일

영등포 세무서장 (인)



 국세청



건설기계조종사면허증

제 호서물19-1988-0014-01

성 명함현수

주민등록번호 610102-1470611

주 소 경기도 시흥시 경원천로368번길 40-4, 301호(경원동)

국 적 대한민국

교 부 일 자 1988. 11. 15.

소 지 면 허가증기(1988/11/15)



위의 사람은 「건설기계관리법」 제26조의 규정에 의한 건설기계조종사임을 증명합니다.

2015년 03월 30일

시 흥 시



건설업 기초안전보건교육 이수증
(Certificate of Basic OSH Training in Construction)



이 름 : 한 현 수

생년월일 : 1961년 01월 02일

등록번호 : 2013-032-00379

이수일자 : 2013.01.25

2015.02.04

(주)옥토건설안전기술원

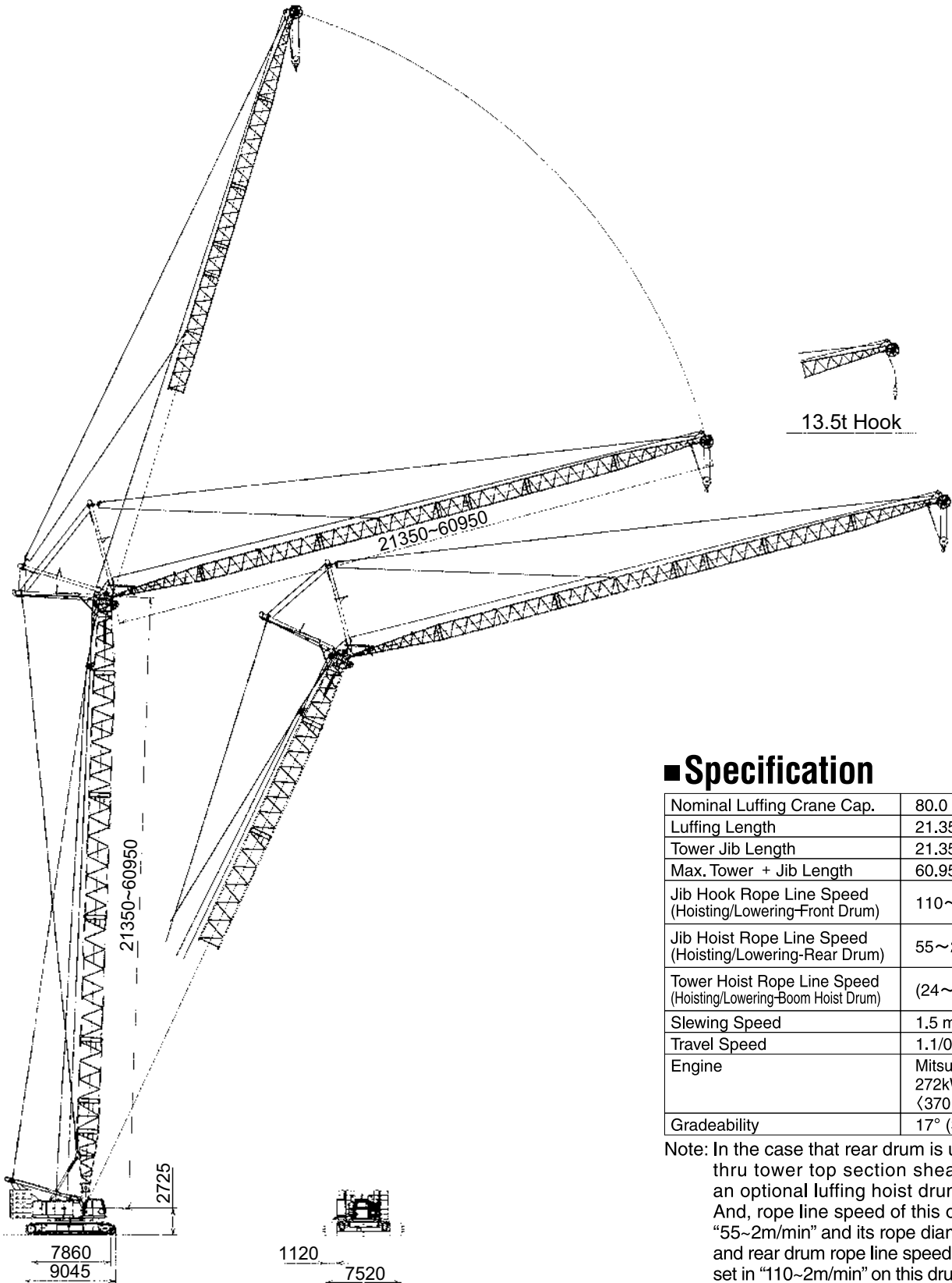






SCX2800-2

275-M ton Hydraulic Crawler Crane
Luffing Jib Att.



■ Specification

Nominal Luffing Crane Cap.	80.0 t × 9.3 m
Luffing Length	21.35 m~60.95 m
Tower Jib Length	21.35 m~60.95 m
Max. Tower + Jib Length	60.95 m + 60.95 m
Jib Hook Rope Line Speed (Hoisting/Lowering-Front Drum)	110~2.0 m/min
Jib Hoist Rope Line Speed (Hoisting/Lowering-Rear Drum)	55~2.0 m/min
Tower Hoist Rope Line Speed (Hoisting/Lowering-Boom Hoist Drum)	(24~1.0 m/min) × 2
Slewing Speed	1.5 min ⁻¹ (1.5 rpm)
Travel Speed	1.1/0.5 km/hr
Engine	Mitsubishi 6M70-TL 272kW/2,000min ⁻¹ (370 ps/2,000rpm)
Gradeability	17° (30%)

Note: In the case that rear drum is used for liftwork thru tower top section sheave machinery, an optional luffing hoist drum is necessary. And, rope line speed of this optional drum is "55~2m/min" and its rope diameter is "28mm," and rear drum rope line speed is automatically set in "110~2m/min" on this drum arrangement.

Front-end Attachment

TOWER BOOM:

- Lattice construction, round tubular main chords, alloy, hi-ten steel, with bracing of round steel tubing.
- Tower boom connections In-line pin connections at 2.10m deep by 2.10m wide.
- Basic tower Four-piece, 21.35m basic length; 7.62m heavy-duty base section, one 6.10m ultra heavy-duty tower extension, 7.30m heavy-duty top section and 0.32m head section; provided with a 2-guide sheave for luffing jib crane hoist cable and the other cable for liftwork thru tower head top sheave machinery on an upper part of 7.30m tapered extension boom, and two plate links pinned to a part of 7.62m base section to adjust a little bit tower boom pendant rope length according to tower length. A 0.32m head section pins luffing jib base section, and rear post.
- Tower top sheave machinery Three head sheaves mounted on anti-friction bearings of conventional non-sealed grease type. An 80t lift is available as maximum.
- Ultra heavy-duty tower boom extension Available in 3.05m, 6.10m and 12.20m with tower boom/rear post pendants.
- Heavy-duty tower boom extension Available in 12.20m with tower boom/rear post pendants.
- Tower boom length 21.35m to 60.95m; the configuration of a 60.95m tower boom as maximum as recommended is as under: (1) 7.62m heavy-duty tower base section, (2) 3.05m ultra heavy-duty boom extension × 1 pc., (3) 6.10m ultra heavy-duty boom extension × 1 pc., (4) 12.20m ultra heavy-duty boom extension × 2 pcs., (5) 12.20m heavy-duty boom extension × 1 pc., (6) 7.30m tower top section, and (7) 0.32m tower head section.
- Tower boom luffing angle 88° thru 65° (according to tower boom/luffing jib combination).

Notes:

- All of tower booms except 0.32m tower head section and 7.30m tapered extension can be converted to the general liftcrane boom attachment.
- In converting tower boom attachment of 60.95m as shown above to the general liftcrane boom attachment of 91.45m as maximum, one set of 7.62m tapered crane top section, one set of 6.10m ultra heavy-duty boom extension and two sets of 12.20m heavy-duty boom extensions are additionally required.
- All of ultra heavy- and heavy-duty boom extensions are designed with no intermediate diagonal bracing(s); the diagonal bracing is only designed at one of two picture frames. Accordingly, it is able to nest luffing jib extension into appropriate boom extension in length.

LUFFING JIB:

- Lattice construction, round tubular main chords, alloy hi-ten steel, with bracing of round steel tubing.
- Luffing jib connections In-line pin connections at 1.55m deep by 1.55m wide.
- Basic luffing jib Three-pieces, 21.35m basic length; 9.15m bottom section, one 3.05m jib extension and 9.15m top section.
- Luffing jib top head machinery Three head and one guide sheaves mounted on anti-friction bearings of conventional non-sealed greas type.
- Luffing jib extensions Available in 3.05m, 6.10m and 9.15m lengths with pendants.
- Heavy-duty luffing jib extention Available in 12.20m with pendants.
- Mid-point suspension cable Required when luffing jib length exceeds 51.80m.
- Maximum luffing jib length 60.95m; a 60.95m tower jib configuration is as under: (1) 9.15m base section, (2) 12.20m heavy-duty jib extension × 2 pcs., (3) 3.05m jib extension × 1 pc., (4) 6.10m jib extension × 1 pc., (5) 9.15m jib extension × 1 pc., and (6) 9.15m jib top section.
- Luffing jib angle Available from 15° thru 73° to ground (according to tower boom/luffing jib combination possible).

FRONT AND REAR POSTS:

All-welded box construction; 8.9m long for front post pinned to 9.15m luffing jib bottom section, and 7.3m long for rear post pinned to 0.32m tower head section. Provided with a nylon sheave of three (3) for front post, and of four (4) for rear post for 7-part rope hoist reeving between posts. Rear post provides two backstops with power hydraulic cylinders to easily set rear post position, and front post equips a luffing jib crane hoist cable guide sheave.

HOOK BLOCKS:

To be selected from 80t, 35t and 13.5t hook blocks (as same as those of the HOOK BLOCKS mentioned in to “Front-end Attachment” of separate SCX2800-2 SPECIFICATIONS).

DRUM DATA:

See DRUM DATA mentioned into page 8 of separate SCX2800-2 SPECIFICATIONS.

HOIST REEVING:

No. of part line	Luffing jib & tower boom top crane hoists					
	6	5	4	3	2	1
Max. load (ton)	80.0	67.5	54.0	40.5	27.0	13.5

Note: The actual lifting capacity is, however, restricted by the luffing jib crane capacity and/or by the SWL of appropriate hook capacity.

CABLES:

See CABLES mentioned into page 8 of separate SCX2800-2 SPECIFICATIONS.

WORKING WEIGHT:

Approx. 252ton with 60.95m tower boom, 60.95m tower jib, 102.8ton counterweight, 18.0ton lower weight, 1,120mm wide track shoes and 80t hook block.

GROUND CONTACT PRESSURE:

140.3kPa <1.43kg/cm²> under a 252ton working weight mentioned above.

Luffing Jib Crane Capacities-80 metric tons

■ w/21.35m Tower

Jib Length (m)	21.35				24.40				27.45				30.50				33.50			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																				
9.0	80.0/9.4																			
10.0	79.8				72.3/10.3				63.0/11.2											
12.0	75.6	77.3/13.0			69.1				61.7				67.7/12.1				56.8/13.0			
14.0	71.3	75.2			66.4	67.7/14.2			59.3	59.1/15.3			65.2				55.8			
16.0	59.6	67.2			59.5	65.2			57.5	58.2			59.6	56.6/16.5			52.9	53.5/17.6		
18.0	51.1	58.9	57.5/18.6		51.0	58.8			50.8	56.3			51.0	54.2			50.1	53.5		
20.0	44.6	50.6	53.3		44.5	50.5	53.1/20.1		44.3	50.3	48.2/21.6		44.5	48.3			44.7	48.2		
22.0	39.5	44.2	47.4		39.4	44.1	47.2		39.2	43.9	47.1		39.3	42.7	43.9/23.2		39.5	42.7		
24.0	36.3/23.5	39.2	42.5	38.4/25.1	35.3	39.1	42.4		35.1	38.9	42.2		35.2	38.3	42.1		35.3	38.2	40.5/24.7	
26.0		36.5/25.3	38.4	36.8	31.9	35.0	38.3	35.0/27.0	31.7	34.8	38.2		31.7	34.6	38.1		31.9	34.6	38.1	
28.0			35.0	33.5	31.3/26.4	31.7	35.0	33.4	28.9	31.5	34.8	31.7/29.0	28.9	31.5	34.7		29.0	31.6	34.7	
30.0			34.8/28.2	30.8		31.2/28.3	32.1	30.7	27.2/29.4	28.7	31.9	30.5	26.4	28.6	31.9	29.3/30.9	26.5	28.8	31.8	
32.0				28.5/31.7			30.6/31.2	28.3		27.3/31.2	29.5	28.1	24.4	26.2	29.4	28.0	24.4	26.3	29.4	27.1/32.9
34.0								26.3			27.3	26.1	24.1/32.3	23.8	27.3	26.0	22.6	24.2	27.2	25.9
36.0								25.7/34.6			27.2/34.1	24.3		23.6/34.2	25.1	24.2	21.4/35.3	21.8	25.1	24.1
38.0											23.0/37.6				24.1/37.1	22.6		20.7/37.1	23.2	22.5
40.0																21.2			21.5	21.1
42.0																	20.8/40.5			19.8
44.0																				19.0/43.5
46.0																				

■ w/21.35m Tower

Jib Length (m)	36.55				39.60				42.65				45.70				48.75				
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	
Working radius(m)																					
12.0	48.8/13.9																				
14.0	48.7				41.1/14.8				36.5/15.7												
16.0	47.0				40.4				36.3				30.8/16.6				27.5/17.2				
18.0	45.7	46.3/18.7			39.4	39.0/19.9			35.1				30.1				27.2				
20.0	43.1	44.2			38.3	39.0			34.1	34.0/21.0			29.2				26.4				
22.0	39.4	41.6			37.5	37.9			33.3	33.7			28.5	28.5/22.2			25.7	25.4/23.0			
24.0	35.2	37.7			35.5	37.0			32.7	32.6			27.9	28.0			25.1	25.0			
26.0	31.7	34.5	37.7/26.2		32.0	34.4	35.1/27.7		31.7	31.8			27.4	27.5			24.6	24.4			
28.0	28.8	31.5	34.6		29.0	31.4	34.6		28.8	30.4	30.9/29.3		27.1	27.0			24.1	23.8			
30.0	26.4	28.6	31.7		26.5	28.8	31.7		26.3	27.6	30.7		26.6	26.4	26.0/30.8		23.5	23.4	22.7/31.9		
32.0	24.2	26.2	29.2		24.4	26.3	29.3		24.2	25.9	29.1		24.4	25.6	25.7		23.3	22.9	22.6		
34.0	22.4	24.1	27.1	24.9/34.9	22.5	24.2	27.1		22.3	24.0	26.9		22.5	23.9	25.2		22.4	22.7	22.4		
36.0	20.8	22.3	25.0	24.0	20.9	22.4	25.1	23.3/36.8	20.7	22.2	24.9		20.9	22.4	24.8		20.7	21.6	22.0		
38.0	19.4	20.6	23.1	22.4	19.4	20.8	23.2	22.3	19.2	20.5	23.0	21.5/38.8	19.4	20.7	23.2		19.3	20.1	21.6		
40.0	19.2/38.2	18.6	21.4	21.0	18.2	19.3	21.5	20.9	17.9	19.1	21.2	20.7	18.1	19.3	21.5	20.3/40.7	18.0	18.7	21.4		
42.0			19.9	19.7	17.5/41.1	17.6	20.0	19.6	16.8	17.8	19.7	19.4	16.9	18.0	19.9	19.4	16.8	17.4	20.5	18.9/42.2	
44.0			19.9/43.0	18.6		16.9/43.0	18.6	18.5	15.8	16.6	18.4	18.3	15.8	16.8	18.5	18.3	15.7	16.3	19.1	18.1	
46.0				17.5			17.5/45.9	17.5	15.7/44.1	15.1/45.9	17.2	17.2	14.9	15.8	17.3	17.2	14.8	15.3	17.8	17.1	
48.0				17.4/46.4				16.5			16.1	16.3	14.4/47.0	14.5	16.2	16.3	13.9	14.4	16.6	16.2	
50.0								15.9/49.4			15.8/48.8	15.4		13.6/48.9	15.2	15.4	13.3/49.3	13.5	15.6	15.3	
52.0												14.7				14.4/51.8	14.6		12.9/51.1	14.7	14.5
54.0												14.5/52.3					13.9		13.8	13.8	
56.0																13.5/55.2				13.1	
58.0																				12.6/57.5	

■ w/21.35m Tower

Jib Length (m)	51.80				54.85				57.90				60.95			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																
18.0	262/18.1				23.1/19.0				20.2/19.9							
20.0	25.4				22.7				20.1				17.7/20.8			
22.0	24.6				22.0				19.5				17.4			
24.0	24.0	24.0/24.2			21.3	21.0/25.3			18.9				16.8			
26.0	23.1	23.4			20.7	20.8			18.3	18.3/26.5			16.3	16.0/27.6		
28.0	22.6	22.5			20.0	20.2			17.8	17.9			15.8	15.9		
30.0	22.2	22.0			19.6	19.5			17.1	17.4			15.3	15.4		
32.0	21.9	21.6	21.3/33.5		19.3	19.1			16.1	16.7			14.4	15.0		
34.0	21.6	21.3	21.2		19.0	18.8	18.6/35.0		15.3	15.8			13.6	14.2		
36.0	20.5	21.1	20.7		18.8	18.5	18.4		14.5	14.9	16.1/36.5		12.9	13.5		
38.0	19.1	19.9	20.3		18.6	18.3	17.9		13.8	14.2	16.0		12.2	12.8	13.8	
40.0	17.7	18.5	20.0		17.7	18.1	17.6		13.1	13.5	15.2		11.6	12.2	13.2	
42.0	16.6	17.2	19.6		16.5	17.1	17.3		12.6	12.9	14.4		11.1	11.6	12.5	
44.0	15.5	16.1	18.2	17.6/44.2	15.4	16.0	17.1		12.0	12.3	13.7		10.6	11.0	11.9	
46.0	14.6	15.1	17.0	16.9	14.5	15.0	16.9	16.5/46.1	11.6	11.8	13.1		10.1	10.6	11.3	
48.0	13.7	14.2	15.9	15.9	13.6	14.1	15.8	15.9	11.2	11.4	12.5	13.1/48.1	9.7	10.1	10.8	
50.0	12.9	13.3	14.9	15.1	12.8	13.3	14.8	15.0	10.8	11.0	12.0	12.6	9.4	9.7	10.3	11.1/50.1
52.0	12.2	12.6	14.0	14.3	12.1	12.5	13.9	14.2	10.5	10.6	11.5	12.1	9.1	9.4	9.9	10.7
54.0	12.1/52.2	11.7	13.2	13.6	11.4	11.8	13.1	13.5	10.2	10.4	11.1	11.6	8.8	9.1	9.5	10.2
56.0		11.7/54.1	12.4	12.9	10.9/55.2	11.2	12.4	12.8	10.0	10.1	10.8	11.2	8.6	8.7	9.2	9.8
58.0			12.1/57.0	12.3		10.8/57.0	11.7	12.2	9.9	10.0	10.4	10.8	8.4	8.5	8.9	9.4
60.0				11.7			11.1/59.9	11.6	9.8/58.1	9.6	10.2	10.5	8.3	8.3	8.7	9.1
62.0				11.5/60.4				11.1			10.0	10.3	8.2/61.0	8.2	8.5	8.8
64.0								10.7/63.4			9.7/62.9	10.0		8.2/62.9	8.3	8.6
66.0												9.9			8.3/65.8	8.4
68.0												9.9/66.3				8.3
70.0																8.3/69.3

■ w/24.40m Tower

Jib Length (m)	21.35				24.40				27.45				30.50				33.50			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																				
9.0	79.6/9.5																			
10.0	79.5				71.6/10.4				62.4/11.3											
12.0	75.8	76.7/13.4			68.7				61.3				66.9/12.2				56.2/13.1			
14.0	72.7	75.4			66.0	67.1/14.6			58.9	58.4/15.7			64.5				55.0			
16.0	61.7	67.1			62.3	65.1			57.1	58.1			60.3	56.5/16.8			53.0			
18.0	52.7	59.7	54.4/19.4		53.3	59.7			53.1	56.1			53.3	53.8			50.2	53.3		
20.0	45.9	53.7	52.8		46.5	53.7	49.8/20.9		46.3	53.4			46.5	49.3			46.7	48.0		
22.0	40.5	47.0	46.8		41.1	46.9	46.7		41.0	46.7	45.5/22.4		41.1	44.1			41.3	43.5		
24.0	36.9/23.6	41.6	42.0		36.8	41.4	41.9		36.7	41.3	41.7		36.7	39.1	41.7		36.9	39.3	38.5/25.5	
26.0		37.8/25.7	38.0	35.4/26.4	33.2	37.1	37.9		33.1	36.9	37.7		33.2	35.1	37.7		33.3	35.3	37.7	
28.0			34.7	32.9	32.4/26.5	33.5	34.6	32.4/28.3	30.2	33.3	34.4		30.2	31.8	34.3		30.3	31.9	34.3	
30.0			33.1/29.0	30.2		32.6/28.6	31.7	30.1	28.3/29.5	30.3	31.6	29.4/30.3	27.6	29.0	31.5		27.7	29.1	31.5	
32.0				27.9			29.3	27.7		28.7/31.6	29.1	27.5	25.3	26.6	29.1	27.3/32.2	25.3	26.7	29.0	
34.0				26.7/33.0				25.7			27.0	25.5	24.8/32.4	24.6	26.9	25.4	23.4	24.6	26.9	25.1/34.2
36.0								23.9/35.9			26.1/34.9	23.7		24.1/34.5	25.1	23.6	22.2/35.4	22.8	25.0	23.6
38.0												22.2			23.5/37.9	22.1		21.3/37.5	23.4	22.0
40.0												21.4/38.9				20.7			21.9	20.6
42.0																19.5/41.8			21.4/40.8	19.4
44.0																				18.3
46.0																				17.8/44.8

■ w/24.40m Tower

Jib Length (m)	36.55				39.60				42.65				45.70				48.75			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																				
14.0	48.2				40.8/14.9				36.0/15.8											
16.0	46.6				40.2				35.9				30.5/16.7				27.3/17.4			
18.0	44.7	45.8/19.1			39.3				34.7				29.8				27.0			
20.0	42.9	44.5			38.2	38.6/20.3			33.7	33.8/21.4			29.0				26.2			
22.0	40.0	40.8			37.0	37.7			32.9	33.5			28.2	28.4/22.5			25.5	25.1/23.4		
24.0	36.8	38.6			35.4	36.7			32.3	32.7			27.6	28.1			24.8	24.9		
26.0	33.1	35.1	35.9/27.0		33.4	34.3			31.5	31.5			27.2	27.4			24.3	24.3		
28.0	30.1	31.8	34.2		30.3	32.0	33.5/28.5		29.9	30.6			26.8	26.8			23.9	23.7		
30.0	27.5	28.9	31.4		27.7	29.1	31.4		27.3	28.9	30.5/30.1		26.6	26.4	25.8/31.6		23.3	23.2		
32.0	25.3	26.6	28.9		25.5	26.7	29.0		25.2	26.5	28.7		25.4	25.9	25.7		23.1	22.7	22.5/32.7	
34.0	23.3	24.5	26.8		23.5	24.6	26.8		23.3	24.4	26.6		23.4	24.6	25.1		23.0	22.5	22.2	
36.0	21.6	22.6	24.9	23.3/36.2	21.8	22.9	24.9		21.6	22.7	24.7		21.7	22.8	24.7		21.6	22.4	21.7	
38.0	20.1	21.1	23.3	21.9	20.2	21.4	23.3	21.8/38.1	20.0	21.3	23.1		20.3	21.2	23.1		20.0	21.0	21.4	
40.0	19.8/38.3	19.6	21.8	20.5	18.9	19.7	21.8	20.5	18.6	19.7	21.6	20.1/40.1	18.9	19.8	21.6		18.7	19.5	21.1	
42.0		19.3/40.4	20.5	19.2	18.1/41.2	18.4	20.5	19.2	17.5	18.3	20.3	19.0	17.6	18.6	20.3	19.0	17.5	18.2	20.2	17.8/43.5
44.0			19.5/43.7	18.1		17.2/43.4	19.3	18.1	16.4	17.1	19.1	17.9	16.5	17.4	19.1	17.8	16.4	17.0	19.0	17.7
46.0				17.1			18.2	17.1	16.2/44.2	15.8	18.0	16.8	15.5	16.3	18.0	16.8	15.4	16.0	17.9	16.7
48.0				16.3/47.7			17.9/46.7	16.1		15.7/46.3	17.0	15.9	15.0/47.1	15.2	17.0	15.9	14.5	15.0	16.9	15.8
50.0							15.3			16.3/49.6	15.1		14.5/49.3	16.1	15.0	13.9/49.4	14.2	16.0	14.9	
52.0								15.0/50.6				14.3			15.3	14.2		13.4/51.5	15.2	14.1
54.0												13.7/53.6				15.1/52.6	13.5		14.4	13.4
56.0																	12.8		14.1/54.8	12.7
58.0																12.7/56.5				12.1
60.0																				11.9/58.8

■ w/24.40m Tower

Jib Length (m)	51.80				54.85				57.90				60.95				
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	
Working radius(m)																	
18.0	26.0/18.2				22.9/19.1												
20.0	25.3				22.6				20.0				17.6/20.9				
22.0	24.5				21.8				19.4				17.2				
24.0	23.8	23.8/24.5			21.2	20.9/25.7			18.8				16.7				
26.0	22.9	23.3			20.6	20.8			18.2	18.2/26.8			16.2				
28.0	22.4	22.4			19.9	20.2			17.7	17.9			15.7	15.9			
30.0	22.0	21.9			19.5	19.4			17.1	17.4			15.1	15.4			
32.0	21.7	21.5			19.1	19.0			16.2	16.7			14.5	14.9			
34.0	21.5	21.1	21.2/34.2		18.8	18.6	18.4/35.8		15.3	15.8			13.7	14.2			
36.0	21.3	20.9	20.7		18.6	18.3	18.3		14.5	15.0	15.9/37.3		12.9	13.5			
38.0	19.8	20.8	20.3		18.5	18.1	18.0		13.8	14.2	15.8		12.2	12.9	13.8/38.8		
40.0	18.5	19.3	19.9		18.4	18.0	17.6		13.2	13.6	15.1		11.6	12.3	13.4		
42.0	17.3	18.0	19.7		17.2	17.9	17.3		12.6	12.9	14.3		11.1	11.7	12.7		
44.0	16.2	16.8	18.8	16.5/45.5	16.1	16.8	17.0		12.0	12.4	13.6		10.6	11.1	12.1		
46.0	15.2	15.8	17.7	16.5	15.1	15.7	16.9	15.6/47.4	11.6	11.9	13.0		10.1	10.6	11.5		
48.0	14.3	14.8	16.7	15.5	14.2	14.8	16.5	15.5	11.2	11.4	12.4	13.1/49.4	9.7	10.2	11.0		
50.0	13.5	14.0	15.8	14.7	13.4	13.9	15.7	14.6	10.8	11.0	11.9	13.0	9.4	9.8	10.5	11.1/51.3	
52.0	12.7	13.2	15.0	13.9	12.6	13.1	14.9	13.8	10.5	10.7	11.5	12.4	9.1	9.4	10.0	11.0	
54.0	12.5/52.3	12.4	14.1	13.2	11.9	12.4	14.1	13.1	10.2	10.4	11.1	11.9	8.8	9.0	9.6	10.5	
56.0		12.3/54.4	13.3	12.5	11.5/55.3	11.7	13.3	12.5	10.0	10.1	10.7	11.5	8.6	8.7	9.3	10.0	
58.0			12.7/57.8	11.9		11.1/57.4	12.5	11.8	9.9	10.0	10.4	11.1	8.4	8.5	9.0	9.6	
60.0				11.4			11.9	11.3	9.9/58.2	9.8	10.3	10.7	8.3	8.3	8.7	9.3	
62.0				10.8/61.7			11.7/60.7	10.7		9.8/60.3	10.2	10.4	8.2/61.2	8.2	8.5	9.0	
64.0								10.3			10.1/63.7	10.1		8.2/63.3	8.3	8.7	
66.0									10.1/64.7				9.6		8.3	8.5	
68.0															8.2/66.6	8.4	
70.0																8.3	
72.0																	8.2/70.6

■ w/27.45m Tower

Jib Length (m)	21.35				24.40				27.45				30.50				33.50				
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	
Working radius(m)																					
9.0	79.5/9.7																				
10.0	79.4				71.0/10.5				61.8/11.4												
12.0	75.4	75.9/13.8			68.3				60.8				66.1/12.3					55.0/13.2			
14.0	72.2	75.5			65.5	66.7/14.9			58.4				64.0					55.0			
16.0	62.3	67.1			63.0	65.0			56.6	57.8/16.1			60.1	55.7/17.2				53.1			
18.0	53.1	59.7			53.7	59.3			54.3	55.9			54.8	53.7				50.3	52.4/18.3		
20.0	46.2	53.7	50.9/20.2		46.8	53.3	46.7/21.7		47.2	52.4			47.7	49.5				47.7	47.9		
22.0	40.8	48.5	46.3		41.4	48.4	45.9		41.8	47.5	42.8/23.2		42.2	45.3				42.5	43.9		
24.0	36.9/23.7	43.5	41.6		37.0	43.3	41.4		37.4	43.0	41.2		37.8	40.5	39.6/24.7			38.0	40.3		
26.0		38.3	37.6	32.9/27.6	33.4	38.7	37.5		33.8	38.5	37.3		34.1	36.3	37.3			34.2	36.4	36.6/26.3	
28.0		38.0/26.1	34.3	32.3	32.4/26.6	34.9	34.2	30.0/29.6	30.8	34.7	34.0		31.0	32.8	33.9			31.1	32.9	33.9	
30.0			31.8/29.8	29.6		33.3/29.0	31.4	29.4	28.7/29.6	31.6	31.2	27.3/31.6	28.1	29.9	31.1			28.3	30.0	31.1	
32.0				27.3			28.9	27.2		28.9	28.8	26.9	25.8	27.4		25.4/33.5		25.9	27.5	28.7	
34.0				25.3			28.1/32.8	25.2			26.7	25.0	25.2/32.5	25.3	26.6	24.9		23.9	25.3	26.6	23.5/35.5
36.0				25.1/34.3				23.4			25.1/35.7	23.2		24.3/34.9	24.8	23.1		22.6/35.5	23.4	24.7	23.1
38.0								22.5/37.2					21.7		23.1	21.6			21.6/37.8	23.1	21.5
40.0													20.3		22.7/38.6	20.2				21.6	20.2
42.0													20.2/40.2					19.0		20.6/41.6	18.9
44.0																		18.4/43.1			17.8
46.0																					16.8

■ w/27.45m Tower

Jib Length (m)	36.55				39.60				42.65				45.70				48.75				
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	
Working radius(m)																					
14.0	47.7/14.1				40.3/15.0				35.6/15.9												
16.0	46.7				40.2				35.6				30.1/16.8					27.0/17.5			
18.0	44.8	45.2/19.5			39.1				34.4				29.6					26.8			
20.0	42.9	44.8			38.1	38.3/20.6			33.4	33.6/21.8			28.7					25.9			
22.0	40.1	40.6			37.0	37.4			32.6	33.5			28.0	28.2/22.9				25.2	24.8/23.8		
24.0	37.2	37.9			35.4	36.5			32.0	32.5			27.5	27.9				24.6	24.8		
26.0	34.1	36.1	34.0/27.8		33.8	34.2			31.0	31.2			27.0	27.2				24.1	24.1		
28.0	31.0	32.8	33.8		31.2	32.2	32.0/29.3		29.8	30.2			26.5	26.6				23.7	23.5		
30.0	28.3	29.8	31.0		28.5	30.0	31.0		28.0	29.0	29.8/30.8		26.3	26.2				23.0	23.1		
32.0	25.8	27.3	28.6		26.2	27.5	28.6		25.7	27.3	28.4		25.6	25.7	25.5/32.4			22.8	22.7	22.2/33.5	
34.0	23.8	25.2	26.4		24.2	25.3	26.5		23.7	25.1	26.3		24.0	24.9	25.1			22.8	22.3	22.1	
36.0	22.1	23.3	24.6	21.9/37.4	22.2	23.4	24.6		22.0	23.2	24.4		22.2	23.5	24.1			22.1	22.2	21.7	
38.0	20.6	21.7	23.0	21.4	20.7	21.7	23.0	20.5/39.4	20.4	21.5	22.8		20.8	21.7	22.8			20.5	21.6	21.3	
40.0	20.3/38.4	20.1	21.5	20.0	19.3	20.3	21.5	20.0	19.1	20.0	21.3	18.9/41.4	19.2	20.2	21.3			19.1	20.1	21.0	
42.0		19.5/40.8	20.2	18.8	18.4/41.4	18.9	20.2	18.8	17.9	18.7	20.0	18.5	18.0	18.9	20.0			17.9	18.8	19.9	
44.0			19.1	17.7		17.6/43.7	19.0	17.7	16.8	17.5	18.8	17.4	16.9	17.7	18.8	17.4		16.8	17.6	18.7	16.7/44.8
46.0			18.8/44.5	16.7			18.0	16.7	16.6/44.3	16.3	17.8	16.4	15.9	16.6	17.8	16.4		15.8	16.5	17.6	16.3
48.0				15.8			17.3/47.5	15.7		16.0/46.7	16.8	15.5	15.3/47.2	15.6	16.8	15.5		14.8	15.5	16.7	15.4
50.0				15.4/49.0				14.9			15.9	14.7		14.6/49.6	15.9	14.7	14.2/49.5	14.6	15.8	14.5	
52.0								14.2/51.9			15.8/50.4	13.9			15.1	13.9		13.7/51.9	15.0	13.8	
54.0												13.2			14.6/53.4	13.2				14.2	13.1
56.0													12.9/54.9				12.5			13.6/55.6	12.4
58.0																	12.0/57.8				11.8
60.0																					11.2
62.0																					11.2/60.1

■ w/27.45m Tower

Jib Length (m)	51.80				54.85				57.90				60.95			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																
18.0	25.8/18.4				22.7/19.2											
20.0	25.1				22.4				19.9/20.1				17.4/21.0			
22.0	24.3				21.7				19.3				17.1			
24.0	23.6	23.2/24.9			21.0				18.6				16.6			
26.0	22.8	23.2			20.5	20.7/26.1			18.1	18.0/27.2			16.1			
28.0	22.2	22.2			19.7	20.1			17.6	17.8			15.6	15.7/28.3		
30.0	21.8	21.7			19.3	19.3			17.0	17.3			15.1	15.3		
32.0	21.5	21.3			19.0	18.9			16.2	16.6			14.5	14.9		
34.0	21.3	21.0	21.0/35.0		18.7	18.5			15.3	15.9			13.7	14.3		
36.0	21.1	20.8	20.8		18.5	18.2	18.3/36.6		14.5	15.1			12.9	13.5		
38.0	20.3	20.6	20.3		18.3	18.0	18.0		13.8	14.3	15.8/38.1		12.3	12.9	13.7/39.6	
40.0	18.9	19.9	19.9		18.3	17.9	17.6		13.2	13.6	15.4		11.7	12.3	13.6	
42.0	17.7	18.6	19.6		17.6	17.7	17.2		12.6	13.0	14.6		11.1	11.7	13.0	
44.0	16.6	17.3	18.5		16.5	17.3	17.0		12.1	12.4	13.9		10.6	11.2	12.3	
46.0	15.6	16.3	17.4	15.5/46.8	15.5	16.2	16.8		11.6	11.9	13.2		10.2	10.7	11.7	
48.0	14.6	15.3	16.5	15.1	14.6	15.2	16.3	14.6/48.7	11.2	11.5	12.6		9.7	10.2	11.1	
50.0	13.8	14.4	15.6	14.3	13.7	14.3	15.5	14.2	10.8	11.0	12.1	13.1/50.7	9.4	9.8	10.6	
52.0	13.0	13.6	14.8	13.6	13.0	13.5	14.7	13.5	10.5	10.7	11.6	12.8	9.1	9.4	10.2	11.0/52.6
54.0	12.8/52.4	12.7	14.0	12.8	12.3	12.7	13.9	12.8	10.2	10.4	11.2	12.2	8.8	9.0	9.8	10.8
56.0		12.4/54.8	13.3	12.2	11.8/55.4	12.1	13.3	12.1	10.0	10.1	10.8	11.7	8.5	8.7	9.4	10.3
58.0			12.7	11.6		11.4/57.8	12.6	11.5	9.9	10.0	10.5	11.3	8.4	8.5	9.1	9.9
60.0			12.5/58.6	11.0			12.0	11.0	9.8/58.3	9.8	10.2	10.8	8.3	8.3	8.8	9.5
62.0				10.5			11.6/61.5	10.4		9.7/60.7	10.0	10.2	8.2/61.3	8.2	8.6	9.2
64.0				10.3/63.0				10.0			9.9	9.8		8.1/63.6	8.4	8.9
66.0								9.5			9.9/64.4	9.3			8.3	8.6
68.0												8.9			8.2/67.4	8.4
70.0												8.7/68.9				8.3
72.0																8.0/71.8

■ w/30.50m Tower

Jib Length (m)	21.35				24.40				27.45				30.50				33.50			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																				
9.0	79.4/9.8																			
10.0	79.3				70.1/10.7				61.1/11.5											
12.0	75.2				67.8				60.4				65.2/12.4					54.1/13.3		
14.0	72.1	74.8/14.2			65.1	65.9/15.3			57.9				62.5					54.1		
16.0	62.9	66.4			63.1	64.9			56.2	57.4/16.4			59.1	53.4/17.6				52.5		
18.0	53.5	59.0			54.2	58.0			54.7	55.7			55.2	52.4				49.7	50.2/18.7	
20.0	46.5	53.1	47.5/21.0		47.1	52.2			47.6	51.3			48.0	47.8				47.1	47.6	
22.0	41.0	48.3	45.4		41.6	47.4	43.6/22.5		42.0	46.6			42.4	43.8				42.8	43.1	
24.0	36.9/23.8	43.3	41.0		37.2	43.2	40.8		37.6	42.7	40.1		38.0	41.2	37.3/25.5			38.3	39.7	
26.0		39.2	37.2		33.6	39.2	37.0		34.0	39.0	36.7		34.3	36.9	36.5			34.5	37.1	34.5/27.1
28.0		38.3/26.4	33.9	30.4/28.9	32.4/26.7	35.6	33.7		31.0	35.4	33.5		31.2	33.3	33.5			31.3	33.5	33.4
30.0			31.1	28.9		33.3/29.4	31.0	27.6/30.9	28.7/29.7	32.1	30.8		28.2	30.3	30.7			28.4	30.4	30.7
32.0			30.3/30.6	26.7			28.6	26.5		29.4	28.4	25.4/32.9	26.0	27.7	28.3			26.1	27.8	28.3
34.0				24.7			27.0/33.5	24.6		29.1/32.3	26.3	24.3	25.3/32.6	25.6	26.2	23.6/34.8		24.1	25.6	26.2
36.0				23.2/35.6				22.9			24.5	22.6		23.6/35.3	24.4	22.5	22.7/35.6	23.7	24.4	21.9/36.8
38.0								21.4			24.1/36.5	21.1			22.8	21.0		21.7	22.8	21.0
40.0								21.0/38.5				19.8			21.8/39.4	19.7		21.5/38.2	21.3	19.7
42.0												18.9/41.4				18.5			20.0	18.4
44.0																		17.4	19.8/42.4	17.4
46.0																		17.2/44.4		16.4
48.0																				15.7/47.3

■ w/30.50m Tower

Jib Length (m)	36.55				39.60				42.65				45.70				48.75				
	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	
14.0	47.2/14.2				40.2/15.1																
16.0	46.4				40.0				35.2				29.8/16.9				26.7/17.6				
18.0	44.5	44.6/19.9			38.7				34.3				29.3				26.5				
20.0	42.6	44.4			37.7	37.8/21.0			33.4				28.6				25.7				
22.0	40.2	40.6			36.9	37.2			32.5	33.3/22.1			28.0	28.0/23.3			25.0				
24.0	37.1	37.7			35.4	36.2			31.5	32.3			27.5	27.8			24.4	24.6/24.1			
26.0	34.2	35.1			33.8	34.0			30.3	30.9			27.0	27.0			23.9	24.0			
28.0	31.2	33.3	32.1/28.6		31.5	32.0			29.1	29.4			26.4	26.4			23.5	23.4			
30.0	28.5	30.3	30.5		28.7	30.1	30.3/30.1		28.1	28.3	28.3/31.6		25.8	26.0			22.8	22.9			
32.0	25.9	27.7	28.2		26.4	27.9	28.2		25.9	27.3	27.8		25.0	25.5	25.2/33.2		22.6	22.5			
34.0	24.0	25.5	26.1		24.4	25.7	26.1		23.9	25.5	25.9		24.2	24.4	25.0		22.5	22.0	22.0/34.3		
36.0	22.2	23.6	24.3		22.3	23.7	24.3		22.1	23.5	24.1		22.4	23.7	24.1		21.9	21.9	21.6		
38.0	20.7	21.9	22.7	20.4/38.7	20.8	22.0	22.6		20.6	21.8	22.4		20.8	22.0	22.5		20.7	21.4	21.2		
40.0	20.3/38.5	20.4	21.2	19.5	19.4	20.5	21.2	19.0/40.7	19.2	20.3	21.0		19.4	20.5	21.0		19.3	20.4	20.9		
42.0		19.2/41.2	19.9	18.3	18.5/41.5	19.2	19.9	18.3	18.0	18.9	19.7	17.6/42.7	18.1	19.1	19.7		18.0	19.0	19.6		
44.0			18.8	17.2		17.6	18.7	17.2	16.9	17.7	18.5	17.0	17.0	17.9	18.6	16.7/44.6	16.9	17.8	18.4		
46.0			18.1/45.3	16.2		17.5/44.1	17.7	16.2	16.6/44.4	16.7	17.5	16.0	16.0	16.8	17.5	16.0	15.9	16.7	17.4	15.6/46.1	
48.0				15.4			16.7	15.3		16.1/47.1	16.5	15.1	15.3/47.3	15.8	16.5	15.1	14.9	15.7	16.4	14.9	
50.0				14.6			16.6/48.3	14.5			15.7	14.3		14.6	15.6	14.2	14.2/49.6	14.7	15.5	14.1	
52.0				14.4/50.3							15.2/51.2	13.5			14.8	13.5		13.7	14.7	13.4	
54.0															14.1	12.8		13.6/52.2	14.0	12.7	
56.0															14.0/54.2	12.2			13.3	12.0	
58.0																			13.1/56.4	11.4	
60.0																				11.2/59.1	10.9
62.0																					10.5/61.4

■ w/30.50m Tower

Jib Length (m)	51.80				54.85				57.90				60.95			
	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
18.0	25.6/18.5				22.5/19.4											
20.0	24.9				22.3				19.7/20.2				17.3/21.1			
22.0	24.1				21.5				19.1				17.0			
24.0	23.5	23.0/25.3			20.9				18.5				16.5			
26.0	22.6	23.0			20.3	20.5/26.4			18.0	17.9/27.6			15.9			
28.0	22.1	22.1			19.6	20.1			17.5	17.8			15.5	15.6/28.7		
30.0	21.7	21.6			19.1	19.2			16.9	17.2			15.0	15.3		
32.0	21.3	21.2			18.8	18.7			16.2	16.5			14.5	14.8		
34.0	21.1	20.8	20.8/35.8		18.5	18.4			15.3	16.0			13.7	14.2		
36.0	20.9	20.6	20.7		18.3	18.1	18.1/37.4		14.5	15.2			13.0	13.5		
38.0	20.5	20.4	20.3		18.2	17.9	18.0		13.8	14.4	15.7/38.9		12.3	12.8		
40.0	19.1	20.2	19.9		18.1	17.7	17.6		13.2	13.7	15.4		11.7	12.2	13.5/40.4	
42.0	17.8	18.8	19.1		17.7	17.6	17.2		12.6	13.1	14.9		11.1	11.7	13.2	
44.0	16.7	17.6	18.2		16.6	17.5	16.9		12.1	12.5	14.1		10.6	11.2	12.6	
46.0	15.7	16.5	17.2		15.6	16.4	16.7		11.6	12.0	13.4		10.2	10.7	11.9	
48.0	14.7	15.5	16.2	14.5	14.7	15.4	16.1		11.2	11.5	12.8		9.7	10.3	11.3	
50.0	13.9	14.5	15.3	13.9	13.8	14.5	15.3	13.7	10.8	11.1	12.3		9.4	9.8	10.8	
52.0	13.1	13.7	14.5	13.1	13.0	13.6	14.5	13.1	10.5	10.7	11.8	12.7	9.1	9.4	10.3	11.0/53.9
54.0	12.9/52.5	13.0	13.8	12.5	12.3	12.9	13.7	12.4	10.2	10.4	11.3	12.2	8.8	9.0	9.9	10.9
56.0		11.8/55.2	13.1	11.8	11.8/55.5	12.2	13.0	11.7	10.0	10.1	10.9	11.5	8.5	8.7	9.5	10.6
58.0			12.5	11.2		11.4	12.4	11.1	9.9	10.0	10.6	10.9	8.4	8.5	9.2	10.1
60.0			12.1/59.3	10.7		11.4/58.1	11.8	10.6	9.8/58.4	9.9	10.3	10.4	8.2	8.3	8.9	9.7
62.0				10.2			11.2	10.1		9.8/61.1	10.1	9.9	8.1/61.4	8.2	8.6	9.4
64.0				9.7			11.2/62.3	9.6			9.9	9.4		8.1	8.4	9.0
66.0				9.6/64.3				9.2			9.9/65.2	9.0			8.4	8.8
68.0								8.9/67.2							8.2	8.4
70.0															8.2/68.2	8.0
72.0												8.1/70.2				7.7
74.0																7.4/73.1

■ w/33.50m Tower

Jib Length (m)	21.35				24.40				27.45				30.50				33.50			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																				
9.0	79.3/99																			
10.0	79.1				69.4/108				60.3/11.7											
12.0	74.8				67.3				59.9				63.5/12.5					53.2/13.4		
14.0	71.7	71.7/14.5			64.6	65.0/15.7			57.5				61.2					53.2		
16.0	63.4	64.9			62.6	63.8			55.7	56.8/16.8			58.3	50.6/17.9				51.9		
18.0	53.9	57.8			54.6	56.8			54.4	55.4			54.5	50.4				49.2	47.4/19.1	
20.0	46.9	52.0	44.5/21.8		47.4	51.1			47.9	50.2			48.4	47.6				46.5	47.4	
22.0	41.3	47.3	44.1		41.9	46.5	40.9/23.3		42.3	45.7			42.7	43.9				43.0	43.1	
24.0	36.9/23.9	43.1	40.4		37.4	42.6	39.7		37.8	41.8	37.8/24.8		38.2	40.6				38.5	39.8	
26.0		39.0	36.7		33.7	38.9	36.5		34.2	38.6	35.9		34.5	37.9	35.1/26.3			34.8	37.0	32.6/27.9
28.0		37.6/26.8	33.4		32.4/26.8	35.5	33.3		31.1	35.4	33.1		31.5	34.2	32.9			31.5	34.3	32.5
30.0			30.7	28.1/30.2		32.9/29.8	30.5		28.7/29.8	32.4	30.3		28.7	31.0	30.3			28.8	31.2	30.2
32.0			28.9/31.4	26.0			28.2	25.6/32.2		29.9	28.0		26.4	28.4	27.9			26.5	28.5	27.9
34.0				24.2			26.1	23.9		29.2/32.7	25.9	23.6/34.1	25.5/32.7	26.2	25.9			24.5	26.2	25.8
36.0				22.5			25.8/34.3	22.3			24.1	22.0		24.2/35.6	24.1	21.9/36.1	22.9/35.7	24.3	24.0	
38.0				21.7/36.8				20.8			23.0/37.3	20.6			22.5	20.5		22.3	22.4	20.3/38.1
40.0								19.6/39.8				19.3			21.1	19.2		21.8/38.6	21.0	19.1
42.0												18.1			20.9/40.2	18.0			19.7	17.9
44.0												17.7/42.7				16.9			19.0/43.2	16.9
46.0																16.0/45.7				15.9
48.0																				15.1
50.0																				14.8/48.6

■ w/33.50m Tower

Jib Length (m)	36.55				39.60				42.65				45.70				48.75				
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	
Working radius(m)																					
14.0	46.7/14.3				40.2/15.2																
16.0	45.9				39.6				34.9/16.1				29.4/17.0					26.4/17.7			
18.0	44.3				38.3				34.3				29.3					26.3			
20.0	42.3	43.3/20.2			37.3	37.3/21.4			33.3				28.6					25.5			
22.0	40.2	40.6			36.5	37.0			32.5	32.9/22.5			27.9	27.7/23.7				24.8			
24.0	37.2	37.8			35.5	36.0			31.5	32.1			27.3	27.6				24.2	24.3/24.5		
26.0	34.3	35.5			33.8	33.9			30.4	30.9			26.8	26.9				23.6	23.8		
28.0	31.7	33.4	30.4/28.4		32.0	32.0			29.2	29.6			26.4	26.2				23.2	23.2		
30.0	28.8	31.1	29.8		29.2	30.1	28.6/30.9		27.8	28.4			25.5	25.7				22.7	22.7		
32.0	26.4	28.4	27.8		26.9	28.2	27.6		26.3	27.2	26.8/32.4		24.5	25.4	24.9/33.9			22.3	22.3		
34.0	24.4	26.1	25.7		24.5	26.3	25.7		24.3	25.7	25.4		23.7	24.3	24.9			22.0	21.8	21.8/35.1	
36.0	22.6	24.1	23.9		22.7	24.3	23.9		22.5	24.1	23.7		22.8	23.4	23.7			21.4	21.4	21.6	
38.0	21.1	22.4	22.3		21.2	22.5	22.3		20.9	22.3	22.1		21.2	22.5	22.1			20.9	20.8	21.1	
40.0	20.6/38.6	20.9	20.9	19.0	19.8	21.0	20.9		19.5	20.7	20.7		19.7	21.0	20.7			19.6	20.4	20.6	
42.0		19.7/41.5	19.6	17.8	18.7/41.6	19.6	19.6	17.8	18.3	19.4	19.4	16.5/43.9	18.5	19.6	19.4			18.3	19.4	19.3	
44.0			18.5	16.7		18.3	18.5	16.7	17.2	18.1	18.3	16.5	17.3	18.3	18.3	15.5/45.9		17.2	18.2	18.2	
46.0			17.4	15.8		18.0/44.5	17.4	15.7	16.9/44.5	17.0	17.2	15.5	16.3	17.2	17.2	15.5		16.1	17.0	17.1	14.6/47.4
48.0			17.4/46.1	14.9			16.5	14.9		16.0/47.4	16.3	14.6	15.5/47.5	16.1	16.3	14.6		15.2	16.0	16.2	14.5
50.0				14.1			16.0/49.1	14.1			15.4	13.8		15.1	15.4	13.8	14.4/49.7	15.1	15.3	13.7	
52.0				13.6/51.6				13.3			14.6	13.1		14.9/50.4	14.6	13.1			14.1	14.5	13.0
54.0								12.7				12.4			13.8	12.4			13.8/52.6	13.7	12.3
56.0								12.5/54.5				11.8			13.5/54.9	11.8				13.1	11.7
58.0												11.4/57.5				11.2				12.7/57.2	11.1
60.0																10.7					10.5
62.0																10.5/60.4					10.0
64.0																					9.9/62.6

■ w/33.50m Tower

Jib Length (m)	51.80				54.85				57.90				60.95			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																
18.0	25.0/18.6				22.3/19.5											
20.0	24.7				22.1				19.5/20.3				17.2/21.2			
22.0	24.0				21.4				19.0				16.9			
24.0	23.3	22.9/25.7			20.7				18.4				16.3			
26.0	22.5	22.9			20.2	20.3/26.8			17.8	17.7/27.9			15.8			
28.0	21.9	22.0			19.5	20.0			17.4	17.6			15.4	15.4/29.1		
30.0	21.5	21.4			19.0	19.2			16.7	17.2			15.0	15.2		
32.0	21.1	21.0			18.6	18.6			16.3	16.6			14.4	14.8		
34.0	20.9	20.7			18.4	18.3			15.4	16.0			13.7	14.1		
36.0	20.7	20.4	20.6/36.6		18.1	18.0			14.6	15.3			13.0	13.6		
38.0	20.5	20.2	20.3		18.0	17.7	17.9/38.1		13.8	14.5	15.5/39.7		12.3	12.9		
40.0	19.4	20.0	19.8		17.9	17.6	17.6		13.2	13.8	15.5		11.7	12.2	13.4/41.2	
42.0	18.1	19.2	19.1		17.9	17.5	17.2		12.6	13.1	15.1		11.1	11.7	13.3	
44.0	17.0	18.0	18.0		16.9	17.4	16.9		12.1	12.5	14.4		10.6	11.2	12.8	
46.0	15.9	16.8	16.9		15.9	16.8	16.6		11.6	12.0	13.7		10.2	10.7	12.1	
48.0	15.0	15.8	16.0	13.5/49.3	14.9	15.7	15.9		11.2	11.5	13.0		9.7	10.3	11.5	
50.0	14.1	14.9	15.1	13.5	14.1	14.8	15.0	12.8/51.3	10.8	11.1	12.5		9.4	9.8	11.0	
52.0	13.4	14.0	14.3	12.7	13.3	14.0	14.2	12.6	10.5	10.7	11.9	11.9/53.2	9.1	9.4	10.5	
54.0	13.1/52.6	13.3	13.5	12.1	12.6	13.2	13.5	12.0	10.2	10.4	11.5	11.8	8.8	9.0	10.1	11.0/55.2
56.0		12.5/55.6	12.9	11.4	12.0/55.6	12.5	12.8	11.3	10.0	10.2	11.1	11.1	8.5	8.7	9.7	10.9
58.0			12.2	10.9		11.7	12.2	10.8	9.8	10.0	10.7	10.6	8.3	8.5	9.3	10.4
60.0			11.7	10.3		11.5/58.5	11.6	10.2	9.8/58.5	9.8	10.4	10.0	8.2	8.3	9.0	9.9
62.0			11.6/60.1	9.8			11.0	9.7		9.7/61.4	10.1	9.5	8.1/61.5	8.2	8.7	9.4
64.0				9.4			10.7/63.1	9.3			9.9	9.1		8.1	8.5	8.9
66.0				9.0/65.6				8.8			9.8	8.6		8.1/64.4	8.3	8.5
68.0								8.4				8.2			8.2	8.1
70.0								8.3/68.5				7.9			8.2/69.0	7.7
72.0												7.6/71.5				7.4
74.0																7.0
76.0																7.0/74.4

■ w/36.55m Tower

Jib Length (m)	21.35				24.40				27.45				30.50				33.50				
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	
Working radius(m)																					
10.0	78.6				68.6/10.9				59.6/11.8												
12.0	74.3				66.8				59.3				59.9/12.6				51.3/13.5				
14.0	71.2	67.9/14.9			64.0				56.9				58.8				51.3				
16.0	64.0	63.4			62.1	62.3			55.2	56.0/17.2			56.8				50.4				
18.0	54.4	56.5			55.0	55.5			53.9	54.6			53.7	50.4/18.3			48.6	47.2/19.5			
20.0	47.2	50.9			47.8	50.1			48.2	49.2			48.7	47.4			46.1	47.2			
22.0	41.6	46.3	41.9/22.5		42.1	45.5			42.6	44.7			43.0	43.1			43.3	43.3			
24.0	37.0	42.5	39.2		37.6	41.7	38.4/24.1		38.1	41.0	35.4/25.6		38.4	39.6			38.7	40.0			
26.0		38.8	36.1		33.9	38.6	35.5		34.4	37.8	34.9		34.7	36.9	33.1/27.1		34.9	36.6			
28.0		36.7/27.2	32.9		32.2/27.0	35.3	32.8		31.3	35.1	32.3		31.6	34.6	31.9		31.7	33.7	31.0/28.6		
30.0			30.2	25.9/31.5		32.4	30.1		28.7/29.9	32.2	29.9		28.8	31.8	29.7		29.0	31.6	29.4		
32.0			27.8	25.3		32.3/30.1	27.7	23.7/33.5		29.7	27.5		26.5	29.0	27.5		26.6	29.3	27.4		
34.0			27.6/32.2	23.4			25.7	23.3		28.5/33.1	25.5	21.9/35.4	25.5/32.8	26.7	25.4		24.6	26.9	25.5		
36.0				21.8			24.7/35.1	21.6			23.7	21.4		24.2	23.7	20.3/37.4	22.9/35.8	24.8	23.7		
38.0				20.3				20.2			22.2	19.9			22.1	19.9		22.8	22.1	19.0/39.3	
40.0				20.3/38.1				18.9			22.1/38.1	18.7			20.7	18.6		21.9/39.0	20.7	18.5	
42.0								18.3/41.1				17.5			20.1/41.0	17.4			19.4	17.4	
44.0												16.5				16.4			18.5	16.4	
46.0																15.5				15.4	
48.0															15.1/47.0					14.6	
50.0																					13.9/49.9

■ w/36.55m Tower

Jib Length (m)	36.55				39.60				42.65				45.70				48.75			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																				
14.0	45.2/14.4				39.1/15.3															
16.0	44.7				39.1				34.4/16.2				29.3/17.1				26.0/17.8			
18.0	43.5				37.9				33.9				29.2				26.0			
20.0	41.9	42.8/20.6			36.9	36.9/21.7			33.0				28.3				25.2			
22.0	40.1	40.1			36.1	36.7			32.1	32.4/22.9			27.6				24.5			
24.0	37.2	37.4			35.5	35.7			31.5	31.9			27.0	27.4			23.9	24.1/24.9		
26.0	34.4	34.7			33.8	33.7			30.4	30.8			26.5	26.7			23.4	23.7		
28.0	31.8	32.5			32.1	31.5			29.2	29.2			26.1	26.0			23.0	23.1		
30.0	28.9	30.5	28.8/30.2		29.3	29.8	27.1/31.7		27.5	27.7			25.1	25.5			22.7	22.5		
32.0	26.5	28.9	27.0		26.9	28.0	26.8		25.8	26.4	25.4/33.2		24.2	25.1			21.9	22.1		
34.0	24.5	26.8	25.3		24.6	26.6	25.1		24.4	25.2	24.7		23.2	24.1	24.0/34.7		21.3	21.3	21.5/35.9	
36.0	22.7	24.7	23.5		22.8	25.1	23.5		22.6	24.2	23.2		22.3	23.2	23.0		20.7	20.7	21.4	
38.0	21.1	22.9	21.9		21.2	23.2	22.0		21.0	23.0	21.7		21.3	22.1	21.7		20.3	20.2	21.0	
40.0	20.5/38.7	21.4	20.5	17.7/41.3	19.8	21.6	20.5		19.6	21.4	20.3		19.8	21.2	20.4		19.7	19.7	20.2	
42.0		19.8/41.9	19.3	17.2	18.7/41.7	20.1	19.3	16.5/43.3	18.3	20.0	19.1		18.5	19.8	19.1		18.4	19.3	19.0	
44.0			18.1	16.2		18.6	18.1	16.2	17.2	18.7	17.9	15.4/45.2	17.4	18.5	18.0		17.3	18.4	17.9	
46.0			17.1	15.3		18.1/44.8	17.1	15.2	16.8/44.6	17.5	16.9	15.0	16.3	17.3	16.9	14.4/47.2	16.2	17.2	16.8	
48.0			16.7/46.9	14.4			16.2	14.4		16.4/47.8	16.0	14.1	15.5/47.6	16.3	16.0	14.1	15.3	16.2	15.9	13.6/48.7
50.0				13.6			15.4/49.8	13.6			15.1	13.4		15.1	15.1	13.4	14.4/49.8	15.2	15.0	13.2
52.0				12.9				12.9			14.3	12.7		14.8/50.7	14.3	12.7		14.2	14.2	12.5
54.0				12.7/52.9				12.2			14.1/52.8	12.0			13.6	12.0		13.7/53.0	13.5	11.9
56.0								11.7/55.8				11.4			13.0/55.7	11.4			12.8	11.2
58.0												10.8				10.8			12.2	10.7
60.0												10.7/58.7				10.3				10.2
62.0																9.8/61.7				9.7
64.0																				9.2/63.9

■ w/36.55m Tower

Jib Length (m)	51.80				54.85				57.90				60.95			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																
18.0	24.7/18.7				22.1/19.6											
20.0	24.3				21.9				19.4/20.5				17.0/21.3			
22.0	23.8				21.2				18.9				16.8			
24.0	23.1				20.6				18.2				16.2			
26.0	22.4	22.7			20.0	20.1/27.2			17.7				15.7			
28.0	21.7	22.0			19.4	19.8			17.2	17.5/28.3			15.3	15.3/29.5		
30.0	21.3	21.4			18.8	19.1			16.6	17.1			14.8	15.2		
32.0	20.9	20.9			18.5	18.6			16.2	16.4			14.3	14.7		
34.0	20.7	20.5			18.2	18.1			15.4	15.9			13.7	14.1		
36.0	20.5	20.2	20.4/37.4		18.0	17.8			14.6	15.4			13.0	13.7		
38.0	19.9	19.9	20.3		17.8	17.6	17.8/38.9		13.9	14.6			12.3	13.0		
40.0	19.5	19.4	19.8		17.8	17.4	17.5		13.2	13.8	15.4/40.5		11.7	12.3		
42.0	18.2	19.0	18.7		17.6	17.3	17.1		12.6	13.2	15.1		11.1	11.7	13.3	
44.0	17.1	18.2	17.6		17.0	17.1	16.8		12.1	12.6	14.6		10.6	11.1	13.0	
46.0	16.0	17.0	16.6		15.9	16.8	16.5		11.6	12.1	13.9		10.2	10.6	12.4	
48.0	15.1	16.0	15.7		15.0	15.9	15.6		11.2	11.6	13.3		9.7	10.2	11.7	
50.0	14.2	15.0	14.8	12.6/50.6	14.1	14.9	14.7		10.8	11.1	12.7		9.4	9.7	11.2	
52.0	13.4	14.2	14.0	12.3	13.3	14.1	13.9	11.9/52.6	10.5	10.8	12.1		9.0	9.4	10.7	
54.0	13.1/52.7	13.4	13.3	11.6	12.6	13.3	13.2	11.5	10.2	10.4	11.6	11.0/54.5	8.8	9.0	10.2	
56.0		12.5/55.9	12.6	11.0	12.0/55.7	12.6	12.5	10.9	10.0	10.2	11.2	10.7	8.5	8.8	9.8	10.3/56.5
58.0			12.0	10.5		11.8	11.9	10.4	9.8	10.0	10.8	10.1	8.3	8.5	9.4	10.0
60.0			11.4	9.9		11.5/58.9	11.3	9.8	9.7/58.6	9.8	10.5	9.6	8.2	8.3	9.1	9.5
62.0			11.2/60.9	9.4			10.8	9.4		9.7/61.8	10.2	9.1	8.1/61.6	8.2	8.8	9.0
64.0				9.0			10.3/63.9	8.9			10.0	8.7		8.1	8.6	8.5
66.0				8.6				8.5			9.7	8.3		8.1/64.8	8.4	8.1
68.0				8.4/66.9				8.1			9.5/66.8	7.9			8.2	7.7
70.0								7.7/69.8				7.5			8.2/69.7	7.4
72.0												7.2				7.0
74.0												7.0/72.8				6.7
76.0																6.4/75.7

■ w/39.60m Tower

Jib Length (m)	21.35				24.40				27.45				30.50				33.50			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																				
10.0	76.8/10.1				67.5/11.0				58.0/11.9											
12.0	69.4				65.8				57.9				56.3/12.8				49.4/13.6			
14.0	66.5	65.0/15.3			63.2				55.7				56.3				49.4			
16.0	62.6	62.2			61.3	59.9/16.4			54.0	54.6/17.6			55.5				49.0			
18.0	54.7	55.5			55.5	54.6			52.8	53.9			53.1	50.2/18.7			48.0	47.0/19.8		
20.0	47.4	50.0			48.1	49.2			48.6	48.6			49.0	47.2			45.6	47.0		
22.0	41.8	45.6	39.6/23.3		42.4	44.8			42.8	44.3			43.2	42.5			43.4	42.0		
24.0	37.0	41.8	38.3		37.9	41.1	36.3/24.9		38.3	40.7			38.6	39.0			38.9	38.2		
26.0	36.9/24.1	38.7	35.3		34.1	38.0	34.7		34.5	37.5	33.8/26.4		34.9	36.0	31.5/27.9		35.1	35.3		
28.0		36.0/27.6	32.6		32.3/27.1	35.2	32.2		31.4	34.9	31.8		31.8	33.5	31.3		31.7	32.9	29.5/29.4	
30.0			29.9			32.3	29.8		28.7	32.4	29.7		29.1	31.5	29.1		29.4	30.7	28.8	
32.0			27.6	24.1/32.8		31.8/30.5	27.5			29.9	27.5		26.8	29.3	27.2		27.1	28.7	27.0	
34.0			26.5/33.0	23.0			25.5	22.1/34.8		28.4/33.4	25.5		25.8/32.9	27.0	25.3		25.0	26.9	25.3	
36.0				21.4			23.8/35.9	21.2			23.7	20.7/36.7		25.4	23.5		23.2/35.9	25.4	23.5	
38.0				19.9				19.8			22.1	19.7		24.1/36.4	21.9	19.0/38.7		23.7	21.9	
40.0				19.0/39.4				18.5			21.4/38.9	18.5			20.5	18.2		21.9/39.3	20.5	17.9/40.6
42.0								17.4				17.3			19.4/41.8	17.1			19.3	17.1
44.0								17.2/42.4				16.3				16.1			18.1	16.0
46.0												15.7/45.3				15.2			17.7/44.7	15.1
48.0																14.3				14.3
50.0																14.2/48.3				13.5
52.0																				13.1/51.2

■ w/39.60m Tower

Jib Length (m)	36.55				39.60				42.65				45.70				48.75			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																				
14.0	43.7/14.5				39.0/15.4															
16.0	43.5				38.5				33.6/16.3				29.3/17.2				25.8/17.9			
18.0	42.8				37.2				32.6				28.9				25.7			
20.0	41.5	42.3/21.0			36.2				31.7				28.1				25.0			
22.0	40.1	39.7			35.5	36.5/22.1			30.9	31.1/23.3			27.3				24.3			
24.0	37.3	37.2			34.9	35.4			30.3	30.8			26.7	27.2/24.4			23.7	23.8/25.3		
26.0	34.5	34.6			34.5	34.6			29.9	30.0			26.2	26.5			23.2	23.5		
28.0	31.9	32.9			32.1	32.9			29.2	29.0			25.9	25.8			22.7	22.9		
30.0	29.0	30.7	27.1/31.0		29.3	30.7			27.3	27.5			25.1	25.3			22.4	22.4		
32.0	27.0	28.7	26.5		26.8	28.7	25.7/32.5		25.7	26.0			24.0	24.9			21.5	21.9		
34.0	24.9	26.9	24.9		24.7	26.9	24.5		24.3	24.6	24.3		23.0	23.7	22.8/35.5		20.8	21.1		
36.0	23.1	25.4	23.4		22.9	25.4	23.0		23.0	23.5	22.8		21.9	22.6	22.4		20.1	20.4	21.2/36.7	
38.0	21.5	23.7	21.8		21.3	23.7	21.6		21.6	22.6	21.5		21.0	21.6	21.1		19.6	19.7	20.7	
40.0	20.8/38.8	22.2	20.4		19.9	22.2	20.2		20.1	21.6	20.2		19.9	20.7	19.9		19.1	19.2	19.6	
42.0		20.9	19.2	16.6/42.6	18.8/41.8	20.9	19.0		18.8	20.1	19.0		18.6	20.0	18.8		18.5	18.7	18.5	
44.0		19.4/42.3	18.0	15.9		19.6	17.8	15.4/44.6	17.6	18.8	17.9		17.4	18.6	17.7		17.3	18.2	17.5	
46.0			17.0	15.0		19.0/45.2	16.8	14.7	17.1/44.7	17.6	16.8	14.6/46.5	16.4	17.5	16.6		16.3	17.4	16.5	
48.0			16.2/47.7	14.1			15.9	13.9		16.3	15.9	13.9	15.5/47.7	16.4	15.7	13.4/48.5	15.3	16.3	15.6	12.7/49.9
50.0				13.4			15.3	13.1		16.2/48.2	15.0	13.1		15.3	14.9	12.9	14.4/49.9	15.3	14.7	12.6
52.0				12.7			14.8/50.6	12.5			14.3	12.4		14.7/51.1	14.1	12.2		14.5	14.0	12.1
54.0				12.0				11.8			13.7/53.6	11.8			13.4	11.6		13.9/53.4	13.2	11.4
56.0				12.0/54.1				11.2				11.2			12.7	11.0			12.6	10.8
58.0								11.0/57.1				10.6			12.5/56.5	10.4			12.0	10.3
60.0												10.1				9.9			11.7/58.8	9.8
62.0																9.4				9.3
64.0																9.2/63.0				8.8
66.0																				8.6/65.2

■ w/39.60m Tower

Jib Length (m)	51.80				54.85				57.90				60.95			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																
18.0	24.5/18.8				21.6/19.7											
20.0	24.0				21.6				19.2/20.6				16.8/21.5			
22.0	23.6				21.0				18.7				16.7			
24.0	22.9				20.4				18.1				16.1			
26.0	22.3	22.3/26.4			19.8	19.8/27.5			17.6				15.6			
28.0	21.5	21.7			19.3	19.6			17.1	17.3/28.7			15.1	15.2/29.8		
30.0	21.1	21.1			18.7	18.8			16.6	17.3			14.7	15.1		
32.0	20.8	20.7			18.3	18.3			16.1	16.5			14.2	14.7		
34.0	20.4	20.3			18.0	18.0			15.4	16.0			13.8	14.1		
36.0	19.9	19.9			17.8	17.7			14.6	15.5			13.0	13.6		
38.0	19.4	19.4	20.1/38.2		17.7	17.4	17.6/39.7		13.9	14.6			12.3	13.0		
40.0	18.9	18.8	19.2		17.4	17.3	17.6		13.2	13.9	15.2/41.2		11.7	12.3		
42.0	18.3	18.4	18.2		17.1	17.0	17.1		12.6	13.2	15.1		11.1	11.7	13.2/42.8	
44.0	17.1	18.0	17.2		16.8	16.6	16.8		12.1	12.6	14.7		10.6	11.2	13.0	
46.0	16.1	17.2	16.3		16.0	16.3	16.1		11.6	12.1	14.2		10.2	10.6	12.6	
48.0	15.1	16.1	15.4		15.0	16.0	15.3		11.2	11.6	13.5		9.7	10.2	12.0	
50.0	14.2	15.1	14.5	11.8/51.9	14.2	15.1	14.4		10.8	11.2	12.9		9.4	9.8	11.4	
52.0	13.4	14.3	13.7	11.7	13.4	14.2	13.7	11.0/53.9	10.4	10.8	12.3		9.0	9.4	10.8	
54.0	13.0/52.9	13.5	13.0	11.2	12.6	13.4	13.0	10.9	10.2	10.5	11.8	10.3/55.8	8.8	9.1	10.4	
56.0		12.5	12.4	10.6	11.9/55.8	12.7	12.3	10.5	10.0	10.2	11.4	10.2	8.5	8.8	9.9	9.6/57.8
58.0		12.4/56.3	11.8	10.1		11.9	11.7	10.0	9.8	10.0	10.9	9.7	8.3	8.5	9.5	9.5
60.0			11.2	9.5		11.5/59.2	11.1	9.5	9.7/58.7	9.8	10.6	9.2	8.2	8.3	9.2	9.1
62.0			10.7/61.7	9.1			10.6	9.0		9.7	10.3	8.8	8.1/61.7	8.2	8.9	8.6
64.0				8.6			10.1	8.5		9.7/62.2	9.9	8.3		8.1	8.6	8.2
66.0				8.2			9.9/64.7	8.1			9.4	7.9		8.1/65.1	8.4	7.8
68.0				7.8				7.7			9.1/67.6	7.5			8.2	7.4
70.0				7.8/68.2				7.4				7.2			8.2	7.0
72.0								7.2/71.1					6.8		8.1/70.5	6.7
74.0													6.5			6.4
76.0													6.5/74.1			6.1
78.0																5.9/77.0

■ w/42.65m Tower

Jib Length (m)	21.35				24.40				27.45				30.50				33.50			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																				
10.0	76.6/10.2				66.1/11.1															
12.0	72.9				64.7				57.4				52.8/12.9				45.3/13.8			
14.0	69.9	62.3/15.6			62.1				55.2				52.3				45.3			
16.0	64.4	60.8			60.3	57.2/16.8			53.5	53.1/17.9			51.5				45.1			
18.0	55.3	54.2			55.9	53.6			52.3	52.7			49.9	47.0/19.1			44.6			
20.0	47.9	48.9			48.5	48.4			48.9	47.6			47.9	45.2			43.4	44.0/20.2		
22.0	42.1	44.6			42.7	44.1			43.1	43.4			43.5	41.5			41.3	41.4		
24.0	37.4	41.0	37.1/24.1		38.1	40.5	34.4/25.6		38.5	39.8			38.8	37.3			38.0	37.2		
26.0	37.0/24.2	37.9	34.2		34.3	37.5	33.8		34.7	36.8	31.8/27.2		35.1	34.5			35.0	33.6		
28.0		35.3/27.9	31.7		32.3/27.2	34.8	31.3		31.6	34.2	30.9		31.9	32.2	29.6/28.7		31.8	31.1		
30.0			29.5			32.3	29.2		28.9	31.9	28.8		29.3	30.6	28.4		28.8	29.4	27.9/30.2	
32.0			27.1			31.2/30.9	27.1		28.7/30.1	29.7	26.9		27.0	28.9	26.5		27.2	28.0	26.1	
34.0			25.4/33.8	22.1/34.1			25.1			27.8/33.8	25.0		25.8/33.1	27.4	24.8		25.2	26.7	24.5	
36.0				20.7			23.4	20.5				23.3		25.5	23.2		23.5	25.5	23.1	
38.0				19.3			22.8/36.7	19.2				21.7	19.1		24.8/36.8	21.6		23.7	21.5	
40.0				18.0				17.9				20.6/39.6	17.9			20.3	17.6	22.0/39.7	20.2	16.5/41.9
42.0				17.6/40.7				16.8					16.8			19.0	16.5		18.9	16.5
44.0								15.2/43.7					15.8			18.6/42.6	15.5		17.8	15.5
46.0													14.9				14.6		17.1/45.5	14.6
48.0													14.6/46.6				13.8			13.8
50.0																	13.2/49.5			13.0
52.0																				12.3
54.0																				12.2/52.5

■ w/42.65m Tower

Jib Length (m)	36.55				39.60				42.65				45.70				48.75			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																				
14.0	41.2/14.6				37.0/15.5															
16.0	41.1				37.0				32.9/16.4				28.8/17.3							
18.0	40.5				36.6				32.8				28.6				25.5			
20.0	39.8	40.3/21.3			36.1				32.2				27.8				24.7			
22.0	38.4	39.3			35.3	35.9/22.5			31.4	31.7/23.6			27.0				24.0			
24.0	36.2	36.8			34.4	35.1			30.8	31.4			26.4	26.7/24.8			23.4	23.5/25.6		
26.0	33.9	33.5			32.9	33.4			29.9	30.5			25.9	26.3			22.9	23.4		
28.0	31.6	30.6			31.4	30.3			28.8	28.9			25.6	25.6			22.5	22.7		
30.0	29.0	28.7	26.1/31.7		29.3	27.8			27.2	27.4			25.1	25.1			22.2	22.2		
32.0	27.0	27.2	25.7		27.0	26.0	24.2/33.3		25.5	25.5			24.0	24.7			21.5	21.7		
34.0	25.3	25.8	24.1		24.7	24.8	23.7		24.0	23.9	22.6/34.8		22.9	23.5			20.6	21.0		
36.0	23.4	24.6	22.7		23.3	23.6	22.3		22.7	22.8	21.8		21.8	22.1	21.6/36.3		19.8	20.1	20.3/37.5	
38.0	21.8	23.6	21.4		21.9	22.7	21.0		21.5	21.9	20.6		20.8	20.9	20.5		19.1	19.2	20.1	
40.0	21.0/38.9	22.0	20.0		20.5	22.1	19.8		20.2	21.1	19.4		19.7	20.0	19.3		18.5	18.5	19.0	
42.0		20.3	18.8	15.3/43.9	19.2/41.9	20.7	18.6		18.9	20.4	18.4		18.9	19.4	18.3		18.0	18.0	18.0	
44.0		19.8/42.6	17.7	15.3		19.4	17.5	14.3/45.8	17.8	19.2	17.3		17.7	18.7	17.3		17.6	17.5	17.1	
46.0			16.7	14.4		17.8/45.6	16.5	14.2	17.4/44.8	18.0	16.3	13.3/47.8	16.6	17.8	16.3		16.5	17.2	16.2	
48.0			15.8	13.6			15.6	13.4		16.7	15.4	13.1	15.7/47.8	16.7	15.4	12.4/49.8	15.5	16.6	15.3	
50.0			15.5/48.5	12.9			14.7	12.6		16.4/48.5	14.5	12.4		15.7	14.6	12.4	14.6	15.6	14.4	11.7/51.2
52.0				12.2			14.2/51.4	12.0			13.8	11.7		14.9/51.5	13.8	11.7		14.7	13.7	11.6
54.0				11.6				11.3			13.1	11.1			13.1	11.1		13.8/53.7	13.0	11.0
56.0				11.1/55.4				10.8			13.0/54.4	10.5			12.4	10.5			12.3	10.4
58.0								10.2				10.0			12.0/57.3	10.0			11.7	9.9
60.0								10.2/58.4				9.5				9.5			11.2/59.6	9.4
62.0												9.2/61.3				9.0				8.9
64.0																8.6				8.5
66.0																8.5/64.3				8.1
68.0																				8.0/66.5

■ w/42.65m Tower

Jib Length (m)	51.80				54.85				57.90				60.95			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																
18.0	24.2/18.9				21.3/19.8											
20.0	23.8				21.3				18.8/20.7				16.7/21.6			
22.0	23.0				20.9				18.6				16.5			
24.0	22.7				20.2				18.0				16.0			
26.0	22.1	22.1/26.8			19.7	19.5/27.9			17.4				15.5			
28.0	21.3	21.5			19.2	19.4			16.9	17.2/29.1			15.0			
30.0	20.9	21.0			18.5	18.7			16.5	17.0			14.6	15.0/30.2		
32.0	20.4	20.5			18.1	18.2			15.9	16.4			14.1	14.6		
34.0	19.7	19.9			17.9	17.8			15.4	15.8			13.7	14.0		
36.0	19.2	19.2			17.6	17.5			14.6	15.4			13.0	13.5		
38.0	18.7	18.7	19.0/39.0		17.3	17.3			13.9	14.7			12.3	13.1		
40.0	18.2	18.2	18.6		16.9	16.8	17.4/40.5		13.2	14.0			11.7	12.4		
42.0	17.9	17.7	17.6		16.5	16.4	17.1		12.6	13.3	15.0		11.1	11.8	13.0/43.6	
44.0	17.4	17.3	16.7		16.2	16.0	16.5		12.1	12.7	14.7		10.6	11.2	12.9	
46.0	16.3	17.0	15.8		15.9	15.7	15.6		11.6	12.1	14.4		10.2	10.7	12.6	
48.0	15.3	16.4	15.0		15.2	15.4	14.8		11.2	11.7	13.7		9.7	10.2	12.2	
50.0	14.4	15.4	14.2		14.4	15.2	14.1		10.8	11.2	13.1		9.4	9.8	11.6	
52.0	13.6	14.5	13.5	10.9/53.2	13.6	14.5	13.4		10.4	10.8	12.5		9.0	9.4	11.0	
54.0	13.2/53.0	13.7	12.8	10.7	12.8	13.6	12.7	10.2/55.2	10.2	10.5	12.0		8.8	9.1	10.5	
56.0		12.8	12.1	10.1	12.1/55.9	12.9	12.0	10.0	9.9	10.2	11.5	9.4/57.1	8.5	8.8	10.1	
58.0		12.5/56.7	11.5	9.6		12.2	11.4	9.5	9.8	10.0	11.1	9.3	8.3	8.5	9.7	8.8/59.1
60.0			10.9	9.1		10.6/59.6	10.9	9.0	9.7/58.8	9.8	10.7	8.8	8.2	8.3	9.3	8.6
62.0			10.4	8.7			10.3	8.6		9.7	10.1	8.3	8.1/61.8	8.2	9.0	8.2
64.0			10.3/62.5	8.2			9.9	8.1		9.7/62.6	9.7	7.9		8.1	8.7	7.8
66.0				7.8			9.6/65.4	7.7			9.2	7.5		8.0/65.5	8.5	7.4
68.0				7.5				7.4			8.8	7.1			8.3	7.0
70.0				7.2/69.4				7.0			8.7/68.4	6.8			8.2	6.6
72.0								6.7				6.5		8.0/71.3	6.3	
74.0								6.6/72.4				6.2			6.0	
76.0												6.0/75.3			5.7	
78.0															5.4	
80.0																5.4/78.3

■ w/45.70m Tower

Jib Length (m)	21.35				24.40				27.45				30.50				33.50			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																				
10.0	75.0/10.3				65.3/11.2															
12.0	71.8				64.1				56.7/12.1				49.1/13.0				41.3/13.9			
14.0	67.4				61.6				54.6				48.4				40.5			
16.0	62.9	59.6			59.8	54.8/17.2			52.9				47.5				40.5			
18.0	55.7	53.2			55.9	52.4			51.8	50.6/18.3			46.7	43.8/19.4			40.5			
20.0	48.2	48.1			48.8	47.4			49.3	46.6			45.9	43.2			40.5	41.1/20.6		
22.0	42.4	43.9			42.9	43.2			43.4	42.5			43.8	41.3			39.2	41.1		
24.0	37.7	40.3	34.1/24.9		38.3	39.7			38.7	39.0			39.1	37.1			37.1	37.1		
26.0	37.0/24.3	37.3	33.3		34.5	36.7	32.4/26.4		34.9	36.0			35.2	33.5			35.0	33.5		
28.0		34.8	30.9		32.3/27.3	34.1	30.4		31.7	33.5	29.9		32.1	31.0	28.0/29.5		31.9	30.6		
30.0		34.5/28.3	28.8			31.9	28.3		29.0	31.3	27.9		29.1	29.0	27.5		29.1	28.5	26.3/31.0	
32.0			26.8			30.6/31.2	26.5		28.7/30.2	29.4	26.1		27.1	27.6	25.7		26.8	26.8	25.3	
34.0			24.8	20.6/35.4			24.7			27.3	24.5		25.8/33.2	26.4	24.1		25.3	25.6	23.8	
36.0			24.3/34.5	20.1			23.0	19.0/37.3		27.1/34.2	22.9			25.5	22.7		23.6	24.5	22.4	
38.0				18.7			21.8/37.5	18.6			21.3	17.6/39.3		24.5/37.1	21.2		23.5/36.1	23.7	21.1	
40.0				17.5				17.3			20.0	17.2			19.9	16.3/41.3		22.2	19.8	
42.0				16.4				16.3			19.7/40.4	16.2		18.7	16.0		22.1/40.1	18.6	15.3/43.2	
44.0								15.3				15.2		17.8/43.4	15.0			17.5	14.9	
46.0								14.8/44.9				14.3			14.1			16.5	14.0	
48.0												13.6/47.9			13.3			16.4/46.3	13.3	
50.0															12.6				12.5	
52.0															12.3/50.8				11.9	
54.0																			11.3/53.8	

■ w/45.70m Tower

Jib Length (m)	36.55				39.60				42.65				45.70				48.75			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																				
14.0	38.5/14.7				35.9/15.6															
16.0	38.5				35.9				32.2/16.5				28.4/17.4							
18.0	38.4				35.5				31.9				28.3				25.2/18.1			
20.0	38.2	38.3/21.7			34.6				31.0				27.5				24.5			
22.0	36.8	38.0			33.9	34.4/22.9			30.2				26.7				23.7			
24.0	35.1	36.4			33.2	33.8			29.6	30.3			26.1	26.5/25.1			23.1			
26.0	33.4	33.3			31.9	33.0			29.2	29.5			25.6	26.1			22.6	23.2		
28.0	31.3	30.3			30.7	30.1			28.5	28.8			25.2	25.4			22.2	22.6		
30.0	29.1	27.8			29.3	27.7			27.2	27.4			25.0	24.9			21.9	22.0		
32.0	26.5	26.0	24.6/32.5		27.1	25.7			25.5	25.5			24.0	24.4			21.4	21.5		
34.0	24.7	24.5	23.4		24.8	24.1	23.2/34.1		23.8	23.5	21.7/35.6		22.9	23.4			20.6	20.8		
36.0	23.4	23.5	22.0		23.2	22.7	21.9		22.3	22.1	21.4		21.8	21.9	20.4/37.1		19.8	19.6		
38.0	21.8	22.8	20.8		21.8	21.9	20.6		21.0	21.0	20.2		20.8	20.5	19.8		19.0	18.6	19.2/38.2	
40.0	21.0/39.0	22.1	19.6		20.6	21.3	19.5		20.1	20.2	19.1		19.6	19.3	18.7		18.3	17.8	18.4	
42.0		20.6	18.5		19.3	20.6	18.5		19.1	19.5	18.1		18.6	18.5	17.7		17.7	17.2	17.4	
44.0		19.9/43.0	17.4	14.2/45.2		19.5	17.4		17.9	19.0	17.2		17.7	18.0	16.8		17.1	16.7	16.5	
46.0			16.4	13.9		18.0	16.4	13.5/47.1	17.3/44.9	18.1	16.2		16.6	17.5	15.9		16.5	16.5	15.7	
48.0			15.5	13.1			15.5	13.1		16.8	15.3	12.4/49.1	15.7/47.9	16.8	15.1		15.6	16.1	14.9	
50.0			14.9/49.3	12.4			14.7	12.4		16.3/48.9	14.5	12.1		15.8	14.3	11.5/51.1	14.7	15.7	14.1	
52.0				11.7			13.9	11.7			13.7	11.5		14.5/51.9	13.5	11.2	14.6/50.1	14.8	13.4	10.8/52.5
54.0				11.1			13.8/52.2	11.1			13.0	10.9			12.8	10.6		13.9	12.7	10.5
56.0				10.5				10.5			12.6/55.2	10.3			12.2	10.1		13.8/54.1	12.0	9.9
58.0				10.3/56.7				10.0				9.8			11.5	9.6			11.4	9.4
60.0								9.6/59.7				9.3			11.5/58.1	9.1			10.9	8.9
62.0												8.8				8.6			10.8/60.3	8.5
64.0												8.7/62.6				8.2				8.1
66.0																7.8/65.6				7.7
68.0																				7.3/67.8

■ w/45.70m Tower

Jib Length (m)	51.80				54.85				57.90				60.95			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																
18.0	24.0/19.0				21.1/19.9											
20.0	23.6				21.1				18.5/20.8				16.6/21.7			
22.0	22.8				20.4				18.3				16.4			
24.0	22.2				20.0				17.8				15.8			
26.0	21.9	21.2/27.1			19.5				17.3				15.3			
28.0	21.0	21.2			19.0	19.2/28.3			16.8	17.0/29.4			14.9			
30.0	20.3	20.1			18.3	18.7			16.4	16.9			14.5	14.9/30.6		
32.0	19.6	19.5			18.0	18.1			15.8	16.4			14.1	14.5		
34.0	19.0	19.1			17.6	17.7			15.5	15.7			13.6	14.0		
36.0	18.4	18.5			17.1	17.2			14.7	15.2			13.0	13.5		
38.0	17.9	17.9	18.0/39.8		16.6	16.7			13.9	14.8			12.3	13.1		
40.0	17.5	17.4	17.9		16.2	16.2	17.0/41.3		13.2	14.1			11.7	12.5		
42.0	17.1	17.0	17.0		15.9	15.8	16.8		12.6	13.4	14.9/42.8		11.2	11.8		
44.0	16.8	16.6	16.1		15.6	15.4	15.9		12.1	12.8	14.7		10.6	11.3	12.9/44.3	
46.0	16.3	16.2	15.3		15.3	15.1	15.1		11.6	12.2	14.3		10.2	10.7	12.6	
48.0	15.4	15.9	14.5		15.1	14.8	14.3		11.2	11.7	14.0		9.7	10.3	12.3	
50.0	14.5	15.5	13.8		14.4	14.6	13.6		10.8	11.2	13.3		9.4	9.8	11.8	
52.0	13.6	14.6	13.2		13.6	14.4	13.0		10.4	10.9	12.6		9.0	9.4	11.2	
54.0	13.2/53.1	13.8	12.5	10.0/54.5	12.8	13.7	12.4		10.2	10.5	12.1		8.7	9.1	10.7	
56.0		13.0	11.8	9.7	12.1	13.0	11.7	9.4/56.4	9.9	10.2	11.5		8.5	8.8	10.2	
58.0		12.6/57.0	11.2	9.2		12.3	11.1	9.1	9.8	10.0	10.9	8.7/58.4	8.3	8.5	9.8	
60.0			10.7	8.7		11.3	10.6	8.6	9.7/59.0	9.8	10.4	8.4	8.2	8.3	9.4	8.0/60.4
62.0			10.2	8.2			10.1	8.1		9.7	9.9	7.9	8.1/61.9	8.3	9.1	7.7
64.0			9.8/63.3	7.8			9.6	7.7		9.7/62.9	9.4	7.5		8.1	8.8	7.3
66.0				7.4			9.2	7.3			9.0	7.1		8.1/65.9	8.5	7.0
68.0				7.1			9.1/66.2	7.0			8.5	6.8			8.3	6.6
70.0				6.7				6.6			8.3/69.2	6.4			8.0	6.3
72.0				6.6/70.7				6.3				6.1			7.7	5.9
74.0								6.1/73.7				5.8			7.6/72.1	5.6
76.0												5.5				5.4
78.0												5.4/76.6				5.1
80.0																4.9/79.6

■ w/48.75m Tower

Jib Length (m)	21.35				24.40				27.45				30.50				33.50			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																				
10.0	71.9/10.4				64.6/11.3															
12.0	67.1				63.6				56.0/12.2				46.7/13.1							
14.0	62.1				59.6				54.1				46.4				40.5			
16.0	58.2	56.8/16.4			55.7	52.7/17.5			52.4				45.9				40.5			
18.0	54.8	52.0			52.6	51.2			50.2	48.5/18.7			45.6	42.3/19.8			40.5			
20.0	48.6	47.0			49.2	46.3			47.7	45.5			43.6	42.1			40.3	40.8/20.9		
22.0	42.7	42.9			43.2	42.2			43.7	41.5			41.5	41.0			37.7	40.1		
24.0	37.9	39.4	32.6/25.7		38.5	38.8			38.9	38.1			38.6	36.9			35.2	36.8		
26.0	37.0/24.4	36.5	32.2		34.7	35.9	29.7/27.2		35.1	35.3			35.4	33.3			33.1	33.3		
28.0		34.1	29.8		32.3/27.4	33.4	29.4		31.9	32.8	28.3/28.7		32.2	30.3			30.3	30.3		
30.0		33.4/28.7	27.8			31.3	27.3		29.1	30.6	27.0		28.8	27.8	26.3/30.3		27.9	27.8	24.7/31.8	
32.0			26.0			29.8/31.6	25.6		28.7/30.3	28.7	25.2		25.8	25.8	24.8		25.6	25.8	24.5	
34.0			24.3				24.0			27.1	23.7		24.9/33.3	24.6	23.2		24.3	24.4	23.0	
36.0			23.1/35.3	18.9/36.7			22.5			26.6/34.6	22.3			24.2	21.9		23.3	23.2	21.6	
38.0				18.0			21.0	17.5/38.6			20.9			24.0/37.5	20.6		23.2/36.2	22.4	20.4	
40.0				16.8			20.7/38.3	16.6			19.6	16.2/40.6			19.5			21.9	19.3	
42.0				15.8				15.6			18.9/41.2	15.5			18.3	15.1/42.5		21.7/40.4	18.2	
44.0				15.1/43.3				14.7				14.6			17.2	14.4			17.1	14.2/44.5
46.0								13.8				13.7			17.0/44.2	13.5			16.1	13.5
48.0								13.7/46.2				13.0				12.7			15.6/47.1	12.7
50.0												12.5/49.2				12.0				12.0
52.0																			11.4	11.4
54.0																			11.3/52.1	10.8
56.0																				10.4/55.1

■ w/48.75m Tower

Jib Length (m)	36.55				39.60				42.65				45.70				48.75			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																				
14.0	37.9/14.9				34.5/15.7															
16.0	37.9				34.5				31.1/16.6				27.6/17.5							
18.0	37.7				34.2				30.9				27.6				24.1/18.2			
20.0	37.1				33.8				30.6				27.1							
22.0	35.4	37.6/22.1			33.2	34.0/23.2			29.9				26.4						23.5	
24.0	33.8	35.7			32.4	33.6			29.3	29.9/24.4			25.8	26.2/25.5				22.9		
26.0	32.2	33.1			31.3	32.2			28.8	29.2			25.3	25.9				22.4	22.9/26.4	
28.0	29.9	30.1			29.6	29.9			27.7	28.4			24.9	25.2				22.0	22.4	
30.0	28.0	27.6			28.0	27.5			26.5	27.0			24.7	24.6				21.7	21.8	
32.0	25.9	25.6	23.2/33.3		26.1	25.5			24.9	25.1			23.9	24.2				21.4	21.3	
34.0	24.0	23.8	22.6		24.2	23.5	22.0/34.8		23.5	23.4			22.9	23.2				20.4	20.7	
36.0	22.6	22.5	21.3		22.6	22.0	21.1		22.2	21.8	20.5/36.4		21.8	21.7	19.2/37.9			19.3	19.4	
38.0	21.5	21.6	20.0		21.2	20.7	19.9		20.9	20.3	19.5		20.8	20.1	19.1			18.3	18.2	18.1/39.0
40.0	21.2/39.2	20.9	18.9		20.2	19.8	18.9		19.8	19.1	18.5		19.5	18.8	18.0			17.5	17.2	17.7
42.0		20.6	18.0		19.3	19.4	17.9		18.8	18.5	17.5		18.4	17.8	17.1			16.8	16.4	16.8
44.0		19.7/43.4	17.0		19.2/42.1	19.1	17.0		18.0	18.0	16.6		17.6	17.0	16.2			16.3	15.8	15.9
46.0		16.0	13.1/46.5		18.3	16.1			17.7/45.0	17.6	15.8		16.7	16.6	15.4			15.9	15.3	15.1
48.0		15.1	12.5		18.1/46.3	15.2	12.4/48.4		17.0	15.0			15.7	16.2	14.6			15.6	15.1	14.4
50.0		14.3	11.8		14.3	11.9			16.6/49.3	14.2	11.4/50.4		16.0	13.9				14.7	14.9	13.7
52.0		14.3/50.1	11.2		13.6	11.2			13.4	11.0			15.2	13.2	10.7/52.3		14.6/50.2	14.9	13.0	10.0/53.8
54.0			10.6		13.3/53.0	10.6			12.7	10.4			15.0/52.2	12.5	10.1			13.8	12.4	9.9
56.0			10.1			10.1			12.1/55.9	9.8				11.9	9.6			13.6/54.5	11.7	9.4
58.0			9.5			9.5				9.3				11.3	9.1				11.2	8.9
60.0						9.1				8.8				11.0/58.9	8.6				10.6	8.5
62.0							8.9/61.0						8.4		8.2				10.3/61.1	8.0
64.0												8.0/63.9								7.6
66.0																				7.3
68.0															7.2/66.8					6.9
70.0																				6.7/69.1

■ w/48.75m Tower

Jib Length (m)	51.80				54.85				57.90				60.95			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																
18.0	23.7/19.1															
20.0	23.3				20.6				18.3/20.9				16.2/21.8			
22.0	22.6				20.2				18.0				16.2			
24.0	21.9				19.6				17.6				15.7			
26.0	21.3	21.0/27.5			19.2				17.1				15.2			
28.0	20.7	21.0			18.8	19.1/28.7			16.6	16.8/29.8			14.7			
30.0	19.8	19.9			18.1	18.6			16.2	16.8			14.3	14.7/30.9		
32.0	18.8	19.0			17.4	17.7			15.6	16.3			14.0	14.5		
34.0	18.1	18.2			16.9	17.0			15.3	15.7			13.5	13.9		
36.0	17.6	17.6			16.4	16.4			14.7	15.1			13.1	13.3		
38.0	17.1	17.1			15.9	15.9			13.9	14.7			12.4	13.0		
40.0	16.6	16.6	16.9/40.6		15.5	15.5			13.3	14.1			11.7	12.6		
42.0	16.2	16.1	16.4		15.1	15.0	16.0/42.1		12.7	13.4	14.6/43.6		11.2	11.9		
44.0	15.9	15.7	15.5		14.8	14.7	15.3		12.1	12.8	14.6		10.6	11.3	12.7/45.1	
46.0	15.6	15.4	14.7		14.6	14.3	14.5		11.6	12.2	14.1		10.2	10.8	12.6	
48.0	15.4	15.1	14.0		14.3	14.1	13.8		11.2	11.7	13.4		9.8	10.3	12.3	
50.0	14.5	14.8	13.3		14.1	13.8	13.1		10.8	11.3	12.8		9.4	9.9	12.0	
52.0	13.7	14.7	12.7		13.6	13.6	12.5		10.4	10.9	12.1		9.0	9.5	11.4	
54.0	13.2/53.2	13.9	12.1	9.1/55.8	12.9	13.5	11.9		10.1	10.5	11.6		8.7	9.1	10.9	
56.0		13.0	11.5	9.0	12.2	13.1	11.4	8.5/57.7	9.9	10.2	11.0		8.5	8.8	10.4	
58.0		12.5/57.4	11.0	8.7	12.1/56.1	12.3	10.9	8.4	9.8	10.0	10.5	7.8/59.7	8.3	8.6	9.9	
60.0			10.4	8.2		11.3	10.3	8.1	9.7/59.1	9.8	10.1	7.7	8.1	8.3	9.5	7.2/61.6
62.0			9.9	7.8		11.2/60.4	9.8	7.7		9.6	9.6	7.4	8.1	8.2	9.2	7.1
64.0			9.4	7.4			9.3	7.3		9.5/63.3	9.2	7.0		8.1	8.9	6.8
66.0			9.4/64.1	7.0			8.9	6.9			8.7	6.7		7.7	8.6	6.5
68.0				6.7			8.7/67.0	6.6			8.3	6.3		7.7/66.2	8.2	6.2
70.0				6.3				6.2			7.9	6.0			7.8	5.9
72.0				6.0				5.9				5.7			7.4	5.6
74.0								5.6				5.4			7.3/72.9	5.3
76.0									5.5/75.0			5.1				5.0
78.0												4.9/77.9				4.7
80.0																4.5
82.0																4.4/80.9

■ w/51.80m Tower

Jib Length (m)	21.35				24.40				27.45				30.50				33.50			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																				
10.0	66.2/10.5				60.9/11.4															
12.0	61.7				59.4				54.3/12.3				44.5/13.2							
14.0	57.0				54.9				52.3				40.5				41.3/14.1			
16.0	53.2	54.3/16.8			51.2	50.3/17.9			48.9				40.5				40.5			
18.0	50.2	50.9			48.2	50.1			46.1	46.7/19.0			40.5				40.3			
20.0	47.6	46.0			45.8	45.3			43.7	44.9			40.2	40.9/20.2			38.3	38.2/21.3		
22.0	42.9	42.0			43.5	41.3			41.8	40.9			38.4	39.1			36.3	37.4		
24.0	38.1	38.6			38.7	38.0			39.2	37.7			36.1	36.7			33.5	35.4		
26.0	37.0/24.5	35.7	30.7/26.5		34.8	35.2			35.3	34.8			33.5	33.1			31.2	33.1		
28.0		33.3	29.0		32.3/27.5	32.7	28.5		32.0	32.4	26.9/29.5		31.1	30.1			28.9	30.1		
30.0		32.3/29.0	27.0			30.6	26.6		29.3	30.3	26.3		28.6	27.6	24.8/31.1		27.0	27.6		
32.0			25.3			28.8	24.8		28.7/30.4	28.4	24.6		26.0	25.6	24.1		25.2	25.6	23.3/32.6	
34.0			23.8				23.3			26.8	23.1		24.4/33.4	23.6	22.6		23.6	23.6	22.5	
36.0			22.3				22.0			26.2/34.9	21.7			22.4	21.2		22.2	22.1	21.1	
38.0			22.2/36.1	17.5			20.7	16.1/39.9			20.5			20.8/37.9	20.1		21.6/36.3	20.8	19.9	
40.0				16.3			19.9/39.1	16.1			19.4	15.1/41.9			19.0			20.3	18.8	
42.0				15.3				15.1			18.2	15.1			18.0	14.0/43.8		20.2/40.8	17.9	
44.0				14.4				14.2				14.2			16.9	13.9			16.9	13.0/45.8
46.0				14.1/44.6				13.4				13.3			16.3/45.0	13.1			16.0	12.9
48.0								12.8/47.5				12.6				12.3			15.0/47.9	12.2
50.0												11.9				11.6				11.5
52.0												11.7/50.5				11.0				10.9
54.0															10.5/53.4					10.3
56.0																				9.8
58.0																				9.7/56.4

■ w/51.80m Tower

Jib Length (m)	36.55				39.60				42.65				45.70				48.75			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																				
14.0	37.3/15.0				33.3/15.9															
16.0	37.3				33.3				29.9/16.7				26.7/17.6							
18.0	37.1				32.9				29.7				26.7				24.1/18.3			
20.0	36.0				32.5				29.4				26.4				23.9			
22.0	34.1	35.1/22.5			32.1	32.0/23.6			29.1				26.1				23.2			
24.0	32.6	33.7			31.2	31.6			28.7	29.5/24.7			25.5	25.7/25.9			22.6			
26.0	31.0	32.2			30.1	30.2			28.1	28.6			25.0	25.7			22.1	22.6/26.7		
28.0	28.7	29.9			28.6	29.0			26.9	27.4			24.6	25.0			21.7	22.2		
30.0	26.9	27.5			26.8	27.4			25.9	26.4			24.3	24.4			21.4	21.6		
32.0	25.2	25.5			25.1	25.3			24.5	24.8			23.9	23.9			21.2	21.1		
34.0	23.6	23.5	21.9/34.1		23.6	23.4	20.8/35.6		23.2	23.2			22.9	23.1			20.2	20.6		
36.0	21.4	21.9	20.6		22.3	21.8	20.5		22.0	21.7	19.3/37.2		21.9	21.6			19.2	19.3		
38.0	20.0	20.6	19.4		21.0	20.2	19.3		20.9	20.1	18.9		20.9	20.0	18.1/38.7		18.3	18.1	17.1/39.8	
40.0	19.7/39.3	19.6	18.3		19.6	19.0	18.3		19.4	18.9	17.8		19.5	18.8	17.4		17.3	17.1	17.0	
42.0		19.1	17.4		18.6	18.3	17.3		18.0	17.8	16.9		18.3	17.6	16.5		16.4	16.2	16.7	
44.0		19.0/43.8	16.5		18.3/42.2	17.8	16.4		17.1	17.0	16.0		17.1	16.6	15.6		15.7	15.6	15.8	
46.0			15.7	12.2/47.7		17.4	15.6		16.9/45.1	16.6	15.2		16.2	15.8	14.9		15.2	15.1	15.0	
48.0			14.8	12.0		17.3/46.7	14.9	11.5/49.7		16.4	14.5		15.7	15.4	14.1		14.8	14.7	14.2	
50.0			14.0	11.3			14.1	11.4		16.3/49.7	13.8	10.5/51.7	15.6/48.1	15.0	13.5		14.6	14.4	13.5	
52.0			13.7/50.8	10.7			13.3	10.7			13.1	10.5		14.6	12.8	9.8/53.6	14.4/50.3	14.2	12.7	
54.0				10.1			12.7/53.8	10.2			12.4	9.9		14.4/52.6	12.2	9.6		13.9	12.1	9.0/55.1
56.0				9.6				9.6			11.8	9.4			11.6	9.1		13.5/54.8	11.6	8.9
58.0				9.1				9.1			11.6/56.7	8.9			11.0	8.7			11.0	8.5
60.0				8.9/59.3				8.7				8.4			10.6/59.7	8.2			10.5	8.1
62.0								8.2				8.0				7.8			10.0/61.9	7.6
64.0								8.2/62.2				7.6				7.4				7.2
66.0												7.4/65.2				7.0				6.9
68.0																6.7				6.5
70.0																6.6/68.1				6.2
72.0																				6.1/70.4

■ w/51.80m Tower

Jib Length (m)	51.80				54.85				57.90				60.95			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
18.0	23.4/19.2															
20.0	23.1				20.7/20.1				18.1/21.0				16.0/21.9			
22.0	22.0				20.0				17.8				16.0			
24.0	21.0				19.4				17.3				15.6			
26.0	20.7	20.9/27.9			18.8				16.9				15.0			
28.0	20.4	20.9			18.5	19.0/29.0			16.5				14.6			
30.0	19.7	19.8			18.0	18.5			16.1	16.7/30.2			14.2	14.5/31.3		
32.0	18.7	18.9			17.2	17.6			15.6	16.2			13.8	14.4		
34.0	17.8	18.0			16.4	16.7			14.9	15.5			13.3	13.9		
36.0	17.0	17.1			15.9	15.9			14.4	14.7			13.1	13.3		
38.0	16.4	16.4			15.3	15.2			13.9	14.1			12.4	12.9		
40.0	15.8	15.7	16.0/41.3		14.7	14.7			13.3	13.6			11.7	12.5		
42.0	15.4	15.2	15.8		14.4	14.3	15.1/42.9		12.7	13.2			11.2	12.0		
44.0	15.0	14.8	15.0		14.1	13.9	14.7		12.1	12.8	14.2/44.4		10.6	11.4	12.6/45.9	
46.0	14.7	14.5	14.2		13.8	13.6	14.0		11.6	12.3	13.6		10.2	10.8	12.5	
48.0	14.5	14.2	13.5		13.5	13.3	13.3		11.2	11.8	12.9		9.8	10.3	12.2	
50.0	14.3	13.9	12.8		13.4	13.0	12.6		10.8	11.3	12.3		9.4	9.9	12.0	
52.0	13.7	13.7	12.2		13.2	12.8	12.0		10.4	10.9	11.7		9.0	9.5	11.4	
54.0	13.1/53.3	13.6	11.6		12.9	12.7	11.5		10.1	10.6	11.1		8.7	9.1	10.9	
56.0		13.2	11.1	8.3/57.1	12.2	12.6	10.9		9.9	10.2	10.6		8.5	8.8	10.3	
58.0		12.8/57.8	10.6	8.1	12.1/56.2	12.4	10.4	7.7/59.0	9.8	10.0	10.1		8.3	8.6	9.9	
60.0			10.2	7.7		11.7	10.0	7.5	9.7/59.2	9.8	9.7	7.0/61.0	8.1	8.3	9.4	
62.0			9.7	7.4		11.5/60.7	9.6	7.2		9.6	9.2	6.8	8.0	8.2	9.0	6.4/62.9
64.0			9.2	7.0			9.1	6.8		9.5/63.7	8.9	6.5	7.9/62.1	8.1	8.6	6.3
66.0			9.0/64.9	6.6			8.7	6.5			8.5	6.2		8.0	8.2	5.9
68.0				6.3			8.3/67.8	6.2			8.1	5.9		7.9/66.6	7.9	5.7
70.0				6.0				5.9			7.7	5.6			7.5	5.4
72.0				5.7				5.6			7.6/70.8	5.4			7.2	5.1
74.0				5.6/73.3				5.3				5.1			6.9/73.7	4.9
76.0								5.0				4.8				4.6
78.0								5.0/76.3				4.6				4.4
80.0												4.3/79.2				4.2
82.0																3.9
84.0																3.9/82.1

■ w/54.85m Tower

Jib Length (m)	24.40				27.45				30.50				33.50				36.55			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
10.0	56.3/11.5																			
12.0	54.9				51.6/12.4				45.7/13.3											
14.0	50.6				48.5				44.6				42.2/14.2				34.9/15.1			
16.0	47.1				45.2				41.6				39.8				34.5			
18.0	44.2	46.2/18.3			42.5	42.8/19.4			39.2				37.5				33.6			
20.0	41.9	43.5			40.2	41.8			37.1	37.8/20.6			35.5	35.0/21.7			32.4			
22.0	40.0	40.4			38.4	39.3			35.4	36.3			33.8	34.7			30.9	32.6/22.8		
24.0	38.4	37.1			36.8	36.8			33.9	34.3			31.9	32.9			29.0	31.4		
26.0	35.0	34.4			35.5	34.1			32.7	32.7			29.5	30.6			27.3	29.9		
28.0	32.3/27.6	32.0	26.9/28.8		32.2	31.7			31.7	31.1			27.5	28.0			25.5	27.9		
30.0		29.9	25.7		29.4	29.6	25.3/30.3		29.8	29.1	23.5/31.8		25.6	25.8			23.9	25.7		
32.0		28.2	24.1		28.8/30.5	27.8	23.8		27.4	27.2	23.3		23.9	23.9	21.9/33.4		22.5	23.8		
34.0		27.9/32.4	22.6			26.2	22.4		25.8/33.5	25.6	21.9		22.4	22.2	21.4		21.3	22.1	20.5/34.9	
36.0			21.3			25.4/35.3	21.1			24.0	20.6		20.2	20.8	20.2		19.9	20.7	19.8	
38.0			20.1				19.9			23.0	19.4		20.1/36.4	19.8	19.0		18.7	19.5	18.7	
40.0			19.1/39.9	14.9/41.2			18.9			22.9/38.2	18.4			18.9	18.0		18.7/39.4	18.4	17.6	
42.0				14.5			17.9	13.9/43.2			17.5			18.6/41.2	17.0			17.8	16.7	
44.0				13.6			17.4/42.8	13.6			16.6	12.9/45.1			16.2			17.5	15.9	
46.0				12.8				12.8			15.8/45.7	12.5			15.4	11.8/47.1		17.4/44.1	15.1	
48.0				12.1				12.1				11.8			14.6	11.5			14.4	11.0/49.0
50.0				11.9/48.8				11.4				11.2			14.3/48.7	10.9			13.7	10.7
52.0								10.9/51.8				10.6				10.3			13.1/51.6	10.2
54.0												10.0				9.8				9.6
56.0												9.9/54.7				9.3				9.1
58.0																8.9/57.6				8.6
60.0																				8.2
62.0																				8.1/60.6

■ w/54.85m Tower

Jib Length (m)	39.60				42.65				45.70				48.75				51.80				
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	
Working radius(m)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	
16.0	30.3				28.1/16.9				25.8/17.7												
18.0	30.1				28.0				25.8				23.3/18.4					22.4/19.3			
20.0	29.9				27.7				25.5				23.2					22.1			
22.0	29.7				27.5				25.2				22.9					20.9			
24.0	28.5	29.7			26.7	27.5/25.1			24.9				22.3					20.4			
26.0	27.2	28.3			25.9	26.9			24.5	25.2/26.3			21.8	22.3/27.1				20.0			
28.0	25.2	27.0			24.4	25.7			23.5	24.2			21.4	22.0				19.7	20.2/28.3		
30.0	23.6	25.7			23.1	24.7			22.6	23.3			21.0	21.4				19.2	19.7		
32.0	22.2	23.8			21.8	23.4			21.5	22.4			19.9	20.9				18.4	18.7		
34.0	20.9	22.1			20.6	21.8			20.4	21.6			18.9	19.7				17.7	17.8		
36.0	19.8	20.7	19.6/36.4		19.4	20.4	18.3/37.9		19.3	20.2			17.9	18.6				17.0	16.9		
38.0	18.9	19.2	18.6		18.3	19.0	18.2		18.3	18.9	17.0/39.5		17.0	17.5				16.4	16.1		
40.0	17.9	18.0	17.6		17.3	17.9	17.2		17.3	17.8	16.8		16.2	16.5	16.1/40.6			15.8	15.3		
42.0	17.2	17.2	16.7		16.6	16.9	16.3		16.5	16.7	15.9		15.4	15.6	15.6			15.2	14.7	15.0/42.1	
44.0	17.1/42.3	16.5	15.8		16.0	16.1	15.4		15.8	15.8	15.0		14.8	14.7	14.8			14.8	14.2	14.4	
46.0		16.0	15.0		15.9/45.3	15.6	14.6		15.2	14.9	14.3		14.2	13.9	14.0			14.3	13.7	13.6	
48.0		15.8/47.1	14.3			15.2	13.9		14.7	14.3	13.6		13.8	13.4	13.3			13.9	13.3	12.9	
50.0			13.7	10.3/51.0		15.0	13.3		14.7/48.2	13.9	12.9		13.5	13.1	12.7			13.6	13.1	12.3	
52.0			13.0	10.1			12.7	9.5/53.0		13.7	12.3		13.5/50.4	12.9	12.1			13.3	12.8	11.7	
54.0			12.4	9.6			12.1	9.3		13.6/53.0	11.8		8.8/54.9	12.8	11.5			13.1/53.4	12.7	11.1	
56.0			12.1/54.6	9.1			11.5	8.8			11.3	8.5		12.7/55.2	11.0	8.1/56.4			12.6	10.6	
58.0				8.7			11.1/57.5	8.4			10.7	8.1			10.5	7.8			12.4	10.2	7.4/58.3
60.0				8.2				8.0			10.2	7.7			10.1	7.4			11.8/58.2	9.7	7.1
62.0				7.8				7.6			10.1/60.5	7.3			9.6	7.1				9.3	6.7
64.0				7.5/63.5				7.2				6.9			9.4/62.7	6.7				8.9	6.4
66.0								6.8				6.6				6.4				8.6/65.7	6.1
68.0								6.8/66.5				6.3				6.1					5.8
70.0												6.0/69.4				5.8					5.5
72.0																5.6/71.7					5.3
74.0																					5.0
76.0																					4.9/74.6

■ w/54.85m Tower

Jib Length (m)	54.85				57.90				60.95			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)	88	83	75	65	88	83	75	65	88	83	75	65
20.0	20.4/20.2				17.9/21.1							
22.0	19.6				17.6				15.7			
24.0	18.7				17.0				15.3			
26.0	18.3				16.6				14.9			
28.0	18.0	18.4/29.4			16.3				14.5			
30.0	17.7	18.1			15.9	16.5/30.5			14.1	14.4/31.7		
32.0	16.9	17.3			15.4	16.1			13.7	14.3		
34.0	16.1	16.6			14.6	15.4			13.2	13.9		
36.0	15.3	15.8			13.9	14.5			12.7	13.2		
38.0	14.6	14.9			13.3	13.8			12.3	12.5		
40.0	14.1	14.2			12.9	13.1			11.8	11.9		
42.0	13.6	13.8	14.1/43.7		12.6	12.6			11.2	11.5		
44.0	13.3	13.3	14.1		12.1	12.2	13.3/45.2		10.7	11.2		
46.0	13.0	12.9	13.4		11.6	11.9	13.0		10.2	10.9	12.4/46.7	
48.0	12.7	12.5	12.7		11.2	11.5	12.4		9.8	10.4	12.1	
50.0	12.5	12.3	12.1		10.8	11.3	11.7		9.4	9.9	11.5	
52.0	12.4	12.1	11.5		10.4	10.9	11.2		9.0	9.5	10.9	
54.0	12.3	11.9	10.9		10.1	10.6	10.6		8.7	9.2	10.4	
56.0	12.2	11.8	10.4		9.9	10.3	10.1		8.5	8.9	9.9	
58.0	12.1/56.3	11.7	10.0		9.7	10.0	9.6		8.3	8.6	9.4	
60.0		11.5	9.5	6.8/60.3	9.5/59.3	9.8	9.2		8.1	8.4	9.0	
62.0		11.4/61.1	9.1	6.5		9.7	8.8	6.2/62.3	8.0	8.2	8.6	
64.0			8.7	6.2		9.6	8.4	5.9	7.9/62.2	8.1	8.2	5.6/64.2
66.0			8.4	5.9			8.1	5.6		8.0	7.8	5.4
68.0			8.0	5.6			7.7	5.3		8.0/67.0	7.5	5.1
70.0			7.9/68.6	5.4			7.4	5.0			7.2	4.8
72.0				5.1			7.2/71.5	4.8			6.9	4.6
74.0				4.9				4.6			6.6	4.3
76.0				4.6				4.3			6.5/74.5	4.1
78.0				4.6/77.5				4.1				3.9
80.0								4.0				3.7
82.0								3.9/80.5				3.5
84.0												3.4/83.4

■ w/57.90m Tower

Jib Length (m)	27.45				30.50				33.50				36.55				39.60				
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	
Working radius(m)																					
12.0	47.8/12.5				42.2/13.4																
14.0	44.9				41.3				38.7/14.3				35.0/15.2								
16.0	41.8				38.6				36.6				34.3						27.5/16.1		
18.0	39.2	39.0/19.8			36.2				34.5				32.5						27.0		
20.0	37.0	38.8			34.3	34.8/20.9			32.7				31.1						27.0		
22.0	35.2	36.4			32.6	33.6			31.1	31.9/22.1			29.8	29.8/23.2					27.0		
24.0	33.7	34.3			31.2	31.7			29.8	30.3			27.5	29.0					25.5	27.5/24.3	
26.0	32.5	32.6			30.0	30.1			28.7	28.8			25.5	27.7					23.6	26.4	
28.0	31.5	31.0			29.0	28.8			27.7	27.5			23.7	25.9					22.0	25.2	
30.0	29.5	29.0	23.8/31.1		28.2	27.6			26.9	26.4			22.1	23.9					20.5	23.9	
32.0	28.8/30.6	27.2	23.0		27.5	26.6	22.1/32.6		26.3	25.5			20.7	22.3					19.2	22.3	
34.0		25.6	21.6		25.8/33.6	25.1	21.1		25.8	24.7	20.9/34.2		19.4	20.8	19.6/35.7				18.4	20.8	
36.0		24.5/35.7	20.3			23.7	19.8		23.9	23.5	19.7		18.2	19.4	19.4				17.7	19.4	18.4/37.2
38.0			19.2			22.5	18.7		23.5/36.5	22.3	18.6		17.3	18.2	18.3				17.1	18.2	17.9
40.0			18.1			22.2/38.6	17.7			21.1	17.6		17.1/39.5	17.1	17.3				16.5	17.1	16.9
42.0			17.2				16.8			20.4/41.6	16.7			16.4	16.4				15.9	16.3	16.0
44.0			16.6/43.6	12.7/44.4			16.0				15.9			16.0	15.6				15.8/42.4	15.5	15.2
46.0				12.1			15.3	11.7/46.4			15.1				15.9/44.5	14.8				15.1	14.4
48.0				11.5			15.1/46.5	11.1			14.4		10.9/48.4			14.1				15.0/47.5	13.7
50.0				10.9				10.6			13.9/49.5	10.5			13.5	10.2/50.3					13.1
52.0				10.3				10.0				10.0			12.8	9.7				12.5	9.3/52.3
54.0				10.0/53.0				9.5				9.5			12.7/52.4	9.3				12.0	8.9
56.0								9.0				9.0				8.8				11.6/55.4	8.5
58.0												8.5				8.4					8.1
60.0												8.3/58.9				7.9					7.7
62.0																7.6/61.9					7.3
64.0																					7.0
66.0																					6.8/64.8

■ w/57.90m Tower

Jib Length (m)	42.65				45.70				48.75				51.80				54.85					
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65		
Working radius(m)																						
16.0	26.2/17.0				24.9/17.8																	
18.0	26.2				24.9				22.6/18.5				21.3/19.4									
20.0	26.1				24.6				22.5				21.0						19.5/20.3			
22.0	25.9				24.3				22.2				20.0						18.7			
24.0	24.7	25.5/25.5			24.0				21.9				19.7						18.1			
26.0	23.5	25.2			23.4	23.6/26.6			21.5	21.7/27.5			19.4						17.8			
28.0	21.9	24.0			21.9	22.7			20.5	21.5			19.1	19.6/28.6					17.6	17.9/29.8		
30.0	20.4	23.0			20.4	21.8			19.5	20.6			18.8	19.6					17.3	17.8		
32.0	19.1	22.0			19.1	20.9			18.6	19.8			18.1	18.6					16.7	17.1		
34.0	18.0	20.5			17.9	20.1			17.7	18.9			17.5	17.7					16.1	16.5		
36.0	17.2	19.2			16.9	18.9			16.7	17.9			16.6	16.8					15.3	15.7		
38.0	16.4	18.0	17.2/38.7		15.9	17.8			15.8	16.9			15.7	16.0					14.4	14.8		
40.0	15.8	16.9	16.5		15.1	16.8	16.0/40.3		14.8	16.0	15.1/41.4		15.0	15.1					13.7	14.1		
42.0	15.1	15.9	15.6		14.4	15.8	15.2		14.0	15.0	14.9		14.2	14.3	14.1/42.9				13.2	13.4		
44.0	14.7	15.1	14.8		13.9	14.9	14.4		13.4	14.2	14.1		13.6	13.6	13.7				12.7	12.7	13.3/44.5	
46.0	14.6/45.4	14.5	14.0		13.7	14.1	13.7		12.9	13.4	13.4		13.1	13.1	13.0				12.4	12.1	12.8	
48.0		14.1	13.4		13.5	13.4	13.0		12.6	12.7	12.7		12.9	12.6	12.4				12.1	11.7	12.2	
50.0		13.9	12.7		13.4/48.3	13.0	12.4		12.5	12.2	12.1		12.6	12.2	11.7				11.8	11.4	11.5	
52.0		13.8/50.4	12.1			12.7	11.8		12.4/50.5	11.9	11.5		12.3	12.0	11.2				11.6	11.2	11.0	
54.0			11.6	8.6/54.2		12.6/53.3	11.3			11.8	11.0		12.2/53.5	11.8	10.6				11.5	11.0	10.4	
56.0			11.1	8.1			10.8	7.8/56.2		11.7/55.6	10.5	7.2/57.7		11.7	10.1				11.4	10.8	10.0	
58.0			10.6	7.7			10.3	7.4			10.0	7.1		11.6	9.7	6.5/59.6			11.3/56.4	10.8	9.5	
60.0			10.6/58.3	7.4			9.9	7.0			9.6	6.8		11.5/58.5	9.3	6.4				10.7	9.1	5.9/61.6
62.0				7.0			9.6/61.3	6.7			9.2	6.4			8.9	6.1			10.6/61.5	8.7	5.9	
64.0				6.7				6.4			9.0/63.5	6.1			8.5	5.8				8.3	5.6	
66.0				6.4				6.1				5.8			8.2	5.5				8.0	5.3	
68.0				6.1/67.8				5.8				5.6			8.1/66.4	5.2				7.6	5.1	
70.0								5.5				5.3				5.0				7.4/69.4	4.8	
72.0								5.4/70.7				5.1				4.7					4.6	
74.0												5.0/72.9				4.5					4.3	
76.0																4.3/75.9					4.1	
78.0																					3.9	
80.0																					3.9/78.8	

■ w/57.90m Tower

Jib Length (m)	57.90				60.95			
Tower Angle (°)	88	83	75	65	88	83	75	65
Working radius(m)								
20.0	17.7/21.2							
22.0	17.4				15.6/22.1			
24.0	16.9				15.0			
26.0	16.4				14.7			
28.0	16.1				14.3			
30.0	15.7	16.3/30.9			13.9			
32.0	15.3	15.9			13.6	14.2/32.1		
34.0	14.6	15.4			13.2	13.8		
36.0	13.9	14.5			12.6	13.2		
38.0	13.3	13.8			12.0	12.5		
40.0	12.7	13.2			11.5	11.9		
42.0	12.1	12.6			11.0	11.4		
44.0	11.6	12.0			10.7	10.9		
46.0	11.2	11.5	12.4		10.2	10.4	11.6/47.5	
48.0	11.0	11.0	11.8		9.8	10.0	11.5	
50.0	10.8	10.7	11.2		9.4	9.7	10.9	
52.0	10.4	10.4	10.6		9.0	9.5	10.4	
54.0	10.1	10.1	10.1		8.7	9.2	9.9	
56.0	9.9	10.0	9.6		8.5	8.9	9.4	
58.0	9.7	9.8	9.2		8.3	8.6	8.9	
60.0	9.6/59.4	9.8	8.7		8.1	8.4	8.5	
62.0		9.7	8.3	5.3/63.6	8.0	8.2	8.1	
64.0		9.6	8.0	5.3	8.0/62.3	8.1	7.7	4.7/65.5
66.0		9.6/64.4	7.6	5.0		7.9	7.4	4.7
68.0			7.3	4.7		7.8/67.4	7.1	4.5
70.0			7.0	4.5			6.8	4.2
72.0			6.7	4.2			6.5	4.0
74.0			6.7/72.3	4.0			6.2	3.8
76.0				3.8			6.1/75.3	3.6
78.0				3.6				3.4
80.0				3.4				3.2
82.0				3.3/81.8				3.0
84.0								2.9
86.0								2.8/84.7

■ w/60.95m Tower

Jib Length (m)	30.50				33.50				36.55				39.60				42.65			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																				
12.0	39.3/135																			
14.0	38.7				37.1/14.4				35.5/15.3											
16.0	35.8				35.1				34.7				29.7/16.2				25.8/17.1			
18.0	33.4				32.9				32.5				29.7				25.8			
20.0	31.4	32.1/21.3			31.0				30.7				28.6				25.0			
22.0	29.6	31.4			29.4	30.3/22.4			29.0	28.9/23.6			26.1				23.8			
24.0	28.1	29.4			28.0	28.8			27.6	28.6			24.2	24.0/24.7			22.3	23.0/25.9		
26.0	26.7	27.7			26.8	27.3			26.4	27.0			22.4	24.0			20.7	22.9		
28.0	25.6	26.3			25.7	25.9			25.3	25.6			20.7	22.2			19.1	22.1		
30.0	24.5	25.0			24.9	24.8			24.4	24.5			19.3	20.6			17.9	20.5		
32.0	23.7	24.0	21.0/33.4		24.1	23.8			23.6	23.4			18.1	19.2			16.9	19.1		
34.0	23.3/33.7	23.1	20.6		23.5	22.9	19.6/35.0		22.9	22.5			17.2	17.9			16.1	17.8		
36.0		22.4	19.4		23.1	22.2	19.0		22.4	21.7	18.3/36.5		16.4	16.8			15.3	16.7		
38.0		21.6	18.3		23.0/36.6	21.6	17.9		21.9	21.1	17.6		15.6	15.7	17.1		14.8	15.6	16.1/39.5	
40.0		21.1/39.0	17.3			20.7	16.9		21.5/39.6	20.3	16.6		15.0	14.9	16.2		14.1	14.6	15.8	
42.0			16.4			19.8/41.9	16.0			19.3	15.7		14.6	14.4	15.3		13.8	13.9	14.9	
44.0			15.6				15.2			18.4	14.9		14.5/42.5	13.9	14.5		13.5	13.3	14.2	
46.0			14.1	9.7/47.7			14.5			18.1/44.9	14.2			13.6	13.8		13.4/45.5	12.9	13.4	
48.0			13.7/47.3	9.7			13.3	9.2/49.7			13.5			13.4/47.8	13.1			12.6	12.8	
50.0				9.2			12.8	9.1			12.4	8.5/51.6			12.5			12.3	12.2	
52.0				8.8			12.7/50.3	8.7			11.9	8.4			11.7	8.0/53.6		12.2/50.8	11.6	
54.0				8.4				8.3			11.6/53.2	8.0			11.2	7.9			10.8	7.3/55.5
56.0				8.0				7.9				7.6			10.8	7.5			10.4	7.1
58.0				7.7/57.3				7.5				7.2			10.7/56.2	7.1			10.0	6.8
60.0								7.2				6.9				6.8			9.7/59.1	6.4
62.0								7.1/60.2				6.6				6.5				6.1
64.0												6.4/63.2				6.2				5.8
66.0																6.0				5.6
68.0																5.9/66.1				5.3
70.0																				5.1/69.0

■ w/60.95m Tower

Jib Length (m)	45.70				48.75				51.80				54.85				57.90			
Tower Angle (°)	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65	88	83	75	65
Working radius(m)																				
18.0	24.0				21.9/18.6				19.7/19.5											
20.0	23.7				21.7				19.7				18.0/20.4				16.3/21.3			
22.0	23.4				21.4				19.4				17.8				16.2			
24.0	22.2				20.7				19.1				17.5				16.0			
26.0	20.6	22.0/27.0			19.6	20.5/27.9			18.8				17.3				15.8			
28.0	19.1	22.0			18.4	20.4			17.8	18.9/29.0			16.7				15.6			
30.0	17.8	20.5			17.2	19.6			16.7	18.9			16.0	17.7/30.1			15.4	16.6/31.3		
32.0	16.7	19.1			16.2	18.4			15.7	17.8			15.0	16.9			14.5	15.5		
34.0	15.7	17.8			15.1	17.2			14.7	16.7			14.2	16.2			13.7	15.2		
36.0	14.9	16.7			14.2	16.2			13.9	15.7			13.4	15.2			13.0	14.8		
38.0	14.2	15.6			13.5	15.1			13.1	14.7			12.7	14.3			12.4	14.0		
40.0	13.7	14.6	15.0/41.0		13.1	14.2			12.4	13.9			12.1	13.6			11.8	13.3		
42.0	13.3	13.8	14.6		12.7	13.4	14.1/42.2		12.0	13.1	13.1/43.7		11.5	12.9			11.2	12.7		
44.0	13.0	13.1	13.8		12.4	12.7	13.5		11.7	12.4	13.1		11.1	12.3	12.4/45.2		10.7	12.2		
46.0	12.8	12.6	13.1		12.1	12.1	12.8		11.4	11.7	12.4		10.8	11.7	12.2		10.2	11.7	11.5/46.8	
48.0	12.6	12.2	12.4		11.9	11.7	12.1		11.1	11.1	11.8		10.5	11.1	11.6		9.8	11.1	11.2	
50.0	12.5/48.4	12.0	11.8		11.7	11.3	11.5		10.9	10.8	11.2		10.3	10.6	11.0		9.6	10.6	10.6	
52.0		11.9	11.2		11.6/50.7	11.1	11.0		10.8	10.6	10.6		10.1	10.2	10.4		9.4	10.2	10.1	
54.0		11.8/53.7	10.7			10.9	10.5		10.7/53.6	10.3	10.1		10.0	10.1	9.9		9.3	9.8	9.6	
56.0			10.2	6.7/57.5		10.8	10.0			10.2	9.6		9.9	9.9	9.4		9.2	9.5	9.1	
58.0			9.8	6.7			9.5	6.3/59.0		9.9	9.2		9.9/56.5	9.8	9.0		9.1	9.3	8.7	
60.0			9.4	6.4			9.1	6.1		9.8/58.9	8.8	5.6/60.9		9.7	8.6		9.0/59.5	9.1	8.3	
62.0			9.1	6.0			8.7	5.8			8.4	5.4		9.6/61.8	8.2	5.1/62.9		9.0	7.9	
64.0				5.7			8.4	5.5			8.0	5.2			7.8	5.0		8.8	7.5	4.5/64.8
66.0				5.5			8.4/64.3	5.2			7.7	4.9			7.5	4.7		8.8/64.8	7.2	4.4
68.0				5.2				5.0			7.6/67.2	4.6			7.2	4.4			6.9	4.1
70.0				5.0				4.7				4.4			6.9	4.2			6.6	3.9
72.0				4.7				4.5				4.2			6.9/70.2	4.0			6.3	3.7
74.0								4.3				3.9				3.8			6.2/73.1	3.5
76.0								4.2/74.2				3.7				3.6				3.3
78.0												3.6/77.2				3.4				3.1
80.0																3.2				2.9
82.0																3.2/80.1				2.7
84.0																				2.7/83.1

■ w/60.95m Tower

Jib Length (m)	60.95			
Tower Angle (°)	88	83	75	65
Working radius(m)				
22.0	15.3/22.2			
24.0	14.9			
26.0	14.4			
28.0	13.9			
30.0	13.5			
32.0	13.2	13.9/32.4		
34.0	12.9	13.6		
36.0	12.6	13.2		
38.0	12.4	12.9		
40.0	11.8	12.6		
42.0	11.2	12.3		
44.0	10.7	12.0		
46.0	10.2	11.6		
48.0	9.8	11.1	10.8/48.3	
50.0	9.4	10.6	10.4	
52.0	9.0	10.1	9.8	
54.0	8.7	9.7	9.3	
56.0	8.5	9.3	8.9	
58.0	8.2	9.0	8.4	
60.0	8.2	8.7	8.0	
62.0	8.0	8.4	7.6	
64.0	8.0/62.4	8.3	7.3	
66.0		8.2	6.9	4.0/66.8
68.0		8.0/67.7	6.6	3.9
70.0			6.3	3.6
72.0			6.1	3.4
74.0			5.8	3.2
76.0			5.6	3.0
78.0			5.6/76.1	2.8
80.0				2.7
82.0				2.5
84.0				2.3
86.0				2.2

Notes — Luffing jib crane capacities

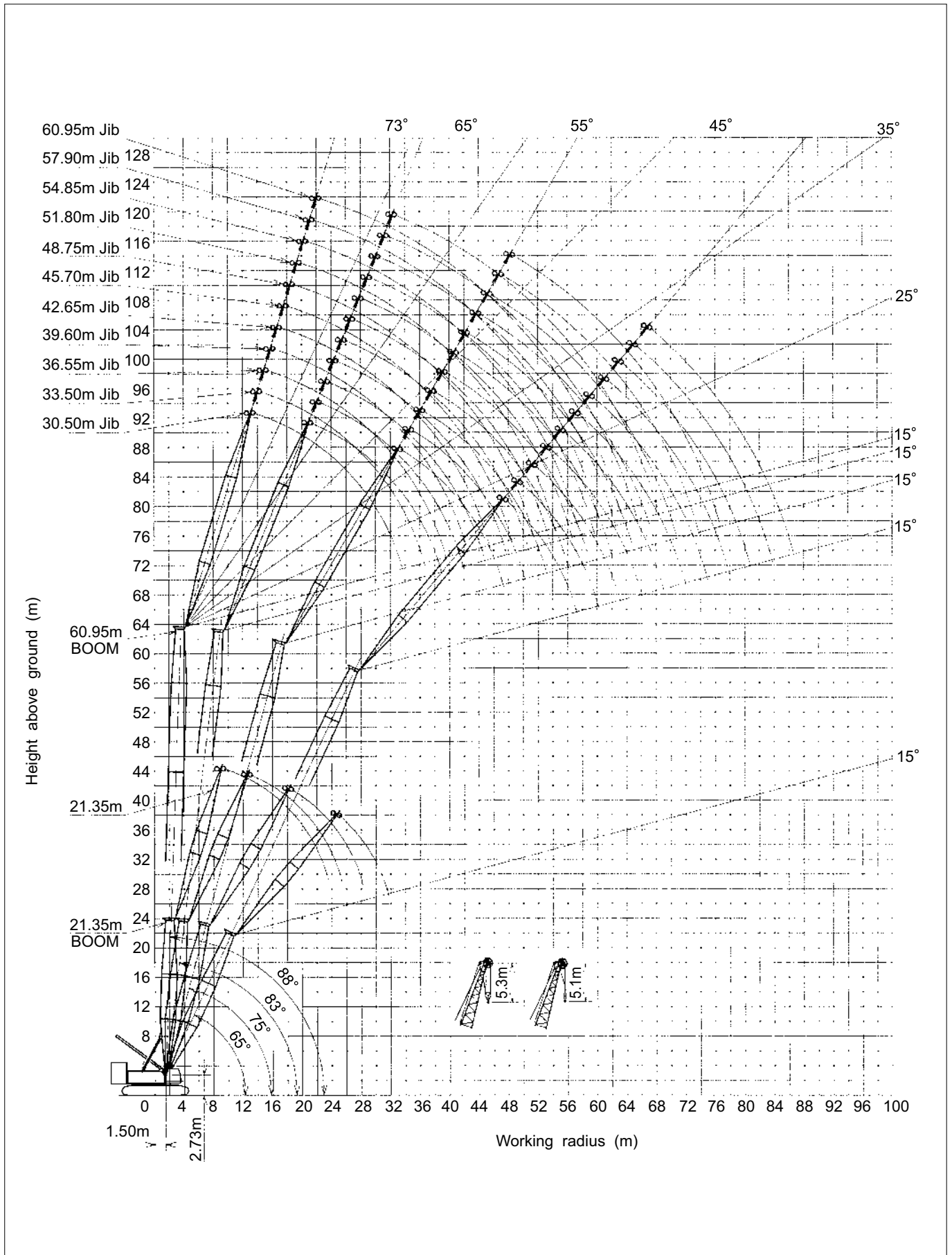
1. Capacities included in these charts are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
2. Capacities are in metric tons, and are rated in accordance with European EN13000 Standards in terms of machine stability and structural strength limitations; the figures surrounded by bold lines are based on factors other than those which would cause a tipping condition.
3. Capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, and operating speeds. Operator must reduce load ratings to take such conditions into account. Deduction from rated capacities must be made for weight of hook block, weighted ball/hook, sling, spreader bar, or other suspended gear.

Hook block weight is as follows:

80t 1.4ton 35t 0.9ton 13.5t 0.62ton

4. All capacities are rated for 360° slewing.
5. Least stable rated condition is over the side.
6. An 102.8ton counterweight and 18.0ton lower weight are required for all capacities on these charts.
7. Attachment must be erected and lowered over the ends of the crawler mounting.
8. Working radii shown above are at loading condition.
9. The machine can be steplessly operated at tower angle between 88 and 65 degrees safely; luffing jib crane capacities available under any tower angle are automatically set up by the Load Moment Indicator, a computerized automatic over-load preventing system.
10. The machine shall be operated in accordance with manufacture's standard tower boom and jib combination shown in page 26 here.
11. A simultaneous lift under luffing jib hook and tower boom top crane hook is not allowed.

Luffing Jib Working Ranges



Tower Boom & Jib Combination Table

■ Tower Boom Configuration

Boom length (m)	Tower boom configuration
21.35m	
24.40m	★
27.45m	
30.50m	★
33.50m	
36.55m	★
39.60m	
42.65m	★
45.70m	
48.75m	★
51.80m	
54.85m	★
57.90m	
60.95m	★

Note:

The meaning of figures and symbols shown above is as follows:

- : 7.62m heavy-duty base section
- : 7.30m heavy-duty top section plus 0.32m head section
- : 12.20m HD tower boom extension
- : 12.20m ultra HD tower boom extension
- : 6.10m ultra HD tower boom extension
- : 3.05m ultra HD tower boom extension

■ Jib Configuration

Jib length (m)	Jib boom configuration
21.35m	★
24.40m	
27.45m	★
30.50m	
33.50m	★
36.55m	
39.60m	★
42.65m	
45.70m	★
48.75m	
51.80m	★
54.85m	
57.90m	★
60.95m	★

Note:

The meaning of figures and symbols shown above is as follows:

- : 9.15m jib bottom section
- : 9.15m jib top section
- : 12.20m HD jib extension
- : 9.15m jib extension
- : 6.10m jib extension
- : 3.05m jib extension
- ★ : Midpoint suspension cable installing position; it is required to install it when jib length is 51.80m and over.

Remarks:

A star mark (★) indicates manufacturer's recommended boom configuration in a consideration that it is able to set boom length in the pitch of 3.05 meters from its maximum length; other boom configuration with no star mark (★) is not able to do such an arrangement of boom length.

■ Combination Table

Jib length (m) Tower length (m)	21.35	24.40	27.45	30.50	33.50	36.55	39.60	42.65	45.70	48.75	51.80	54.85	57.90	60.95
21.35	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
24.40	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
27.45	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
30.50	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
33.50	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
36.55	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
39.60	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
42.65	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
45.70	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
48.75	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
51.80	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
54.85	x	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
57.90	x	x	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
60.95	x	x	x	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙

Notes:

The meaning of symbols shown in the above table is as follows;

1. Symbol of "⊙" : Possible to luff tower between 88° thru 65°;
2. Symbol of "x" : Impossible to make tower boom and jib combination.

Tower Boom Top Crane Capacities - 80 metric tons

■ w/21.35m Tower

Jib length(m) Working radius(m)	21.35	24.40	27.45	30.50	33.50	36.55	39.60	42.65	45.70	48.75	51.80	54.85	57.90	60.95
5.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
6.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
6.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
7.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
7.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
8.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
9.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
10.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
11.0	80.0/10.9	80.0/10.9	80.0/10.9	80.0/10.9	80.0/10.9	80.0/10.9	80.0/10.9	80.0/10.9	80.0/10.9	80.0/10.9	80.0/10.9	80.0/10.9	80.0/10.9	80.0/10.9

■ w/24.40m Tower

Jib length(m) Working radius(m)	21.35	24.40	27.45	30.50	33.50	36.55	39.60	42.65	45.70	48.75	51.80	54.85	57.90	60.95
5.5	80.0/5.9	80.0/5.9	80.0/5.9	80.0/5.9	80.0/5.9	80.0/5.9	80.0/5.9	80.0/5.9	80.0/5.9	80.0/5.9	80.0/5.9	80.0/5.9	80.0/5.9	80.0/5.9
6.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
6.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
7.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
7.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
8.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
9.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
10.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
11.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	77.6	77.6	77.6
12.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	76.4	74.3	72.6
13.0	80.0/12.2	80.0/12.2	80.0/12.2	80.0/12.2	80.0/12.2	80.0/12.2	80.0/12.2	80.0/12.2	80.0/12.2	80.0/12.2	80.0/12.2	76.1/12.2	73.7/12.2	71.5/12.2

■ w/27.45m Tower

Jib length(m) Working radius(m)	21.35	24.40	27.45	30.50	33.50	36.55	39.60	42.65	45.70	48.75	51.80	54.85	57.90	60.95
6.0	80.0/6.4	80.0/6.4	80.0/6.4	80.0/6.4	80.0/6.4	80.0/6.4	80.0/6.4	80.0/6.4	80.0/6.4	80.0/6.4	80.0/6.4	80.0/6.4	80.0/6.4	80.0/6.4
6.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
7.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
7.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
8.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
9.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
10.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
11.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	77.6	77.6	77.6	77.6
12.0	80.0	80.0	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	76.7	75.4	73.5	71.8
13.0	80.0	80.0	77.5	76.5	75.6	74.3	73.5	71.8	71.1	69.7	67.9	66.6	64.7	63.1
14.0	80.0/13.5	80.0/13.5	77.4/13.5	75.9/13.5	74.6/13.5	72.7/13.5	71.4/13.5	68.9/13.5	67.8/13.5	65.7/13.5	63.4/13.5	62.1/13.5	60.4/13.5	58.7/13.5

■ w/30.50m Tower

Jib length(m) Working radius(m)	21.35	24.40	27.45	30.50	33.50	36.55	39.60	42.65	45.70	48.75	51.80	54.85	57.90	60.95
6.5	80.0/6.8	80.0/6.8	80.0/6.8	80.0/6.8	80.0/6.8	80.0/6.8	80.0/6.8	80.0/6.8	80.0/6.8	80.0/6.8	80.0/6.8	80.0/6.8	80.0/6.8	80.0/6.8
7.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
7.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
8.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
9.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
10.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
11.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	77.6	77.6	77.6	77.6	77.6
12.0	80.0	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	76.7	74.9	73.7	71.8	70.3
13.0	77.6	76.6	75.3	74.4	73.7	72.4	71.7	70.2	69.4	68.1	66.4	65.2	63.5	61.9
14.0	70.2	69.2	67.9	67.1	66.3	65.1	64.4	62.8	62.1	60.9	59.2	58.1	56.3	54.9
15.0	64.7/14.8	63.9/14.8	62.7/14.8	61.9/14.8	61.2/14.8	60.1/14.8	59.3/14.8	57.8/14.8	57.1/14.8	55.8/14.8	54.2/14.8	53.1/14.8	51.5/14.8	49.9/14.8

■ w/33.50m Tower

Jib length (m) Working radius(m)	21.35	24.40	27.45	30.50	33.50	36.55	39.60	42.65	45.70	48.75	51.80	54.85	57.90	60.95
7.0	80.0/7.3	80.0/7.3	80.0/7.3	80.0/7.3	80.0/7.3	80.0/7.3	80.0/7.3	80.0/7.3	80.0/7.3	80.0/7.3	80.0/7.3	80.0/7.3	80.0/7.3	80.0/7.3
7.5	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
8.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
9.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
10.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
11.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	77.6	77.6	77.6	77.6	77.6	77.6	77.6
12.0	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.1	76.4	75.1	73.4	72.2	70.5	69.0
13.0	75.8	74.8	73.6	72.7	72.0	70.9	70.2	68.7	68.0	66.9	65.1	64.1	62.4	60.9
14.0	68.6	67.7	66.4	65.6	64.9	63.8	63.1	61.6	61.1	59.8	58.2	57.1	55.4	54.1
15.0	62.4	61.4	60.3	59.5	58.8	57.7	57.0	55.6	54.9	53.8	52.2	51.2	49.6	48.2
16.0	57.1	56.1	54.9	54.2	53.5	52.4	51.7	50.4	49.7	48.5	47.0	46.0	44.5	43.1
18.0	56.5/16.1	55.5/16.1	54.4/16.1	53.6/16.1	52.9/16.1	51.8/16.1	51.2/16.1	49.8/16.1	49.1/16.1	48.0/16.1	46.4/16.1	45.4/16.1	43.9/16.1	42.5/16.1

■ w/36.55m Tower

Jib length (m) Working radius(m)	21.35	24.40	27.45	30.50	33.50	36.55	39.60	42.65	45.70	48.75	51.80	54.85	57.90	60.95
7.5	80.0/7.7	80.0/7.7	80.0/7.7	80.0/7.7	80.0/7.7	80.0/7.7	80.0/7.7	80.0/7.7	80.0/7.7	80.0/7.7	80.0/7.7	80.0/7.7	80.0/7.7	80.0/7.7
8.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
9.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
10.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	77.6
11.0	80.0	80.0	80.0	80.0	80.0	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	76.7
12.0	77.6	77.6	77.6	77.6	77.6	77.1	76.5	75.0	74.4	73.3	71.6	70.5	68.8	67.4
13.0	73.8	72.8	71.5	70.8	70.1	69.0	68.4	67.0	66.4	65.2	63.6	62.5	61.0	59.5
14.0	66.8	65.8	64.6	63.9	63.2	62.1	61.5	60.1	59.6	58.4	56.9	55.8	54.3	52.9
15.0	60.8	59.8	58.6	58.0	57.3	56.2	55.6	54.3	53.7	52.5	51.1	50.0	48.5	47.2
16.0	55.5	54.7	53.5	52.7	52.1	51.1	50.5	49.1	48.5	47.5	46.0	45.0	43.5	42.2
18.0	48.2/17.4	47.4/17.4	46.2/17.4	45.3/17.4	44.9/17.4	43.8/17.4	43.2/17.4	41.9/17.4	41.3/17.4	40.4/17.4	38.9/17.4	37.9/17.4	36.5/17.4	35.3/17.4

■ w/39.60m Tower

Jib length (m) Working radius(m)	21.35	24.40	27.45	30.50	33.50	36.55	39.60	42.65	45.70	48.75	51.80	54.85	57.90	60.95
8.0	80.0/8.2	80.0/8.2	80.0/8.2	80.0/8.2	80.0/8.2	80.0/8.2	80.0/8.2	80.0/8.2	80.0/8.2	80.0/8.2	80.0/8.2	80.0/8.2	80.0/8.2	80.0/8.2
9.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
10.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	77.6	77.6
11.0	80.0	80.0	80.0	80.0	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	76.4	74.9
12.0	77.6	77.6	77.6	77.6	77.1	76.0	75.5	74.2	72.8	71.6	70.0	68.9	67.4	66.0
13.0	72.4	71.5	71.0	69.8	69.2	68.1	67.7	66.4	65.0	63.9	62.3	61.4	59.7	58.4
14.0	65.7	64.7	64.2	63.0	62.5	61.4	61.1	59.7	58.4	57.3	55.8	54.8	53.3	51.9
15.0	59.8	58.9	58.3	57.3	56.7	55.7	55.2	54.0	52.7	51.6	50.1	49.1	47.7	46.4
16.0	54.8	53.9	53.3	52.1	51.7	50.7	50.2	48.9	47.7	46.6	45.2	44.3	42.8	41.6
18.0	46.3	45.4	44.9	43.8	43.3	42.3	41.9	40.7	39.4	38.4	37.0	36.1	34.8	33.5
20.0	43.3/18.7	42.4/18.7	41.9/18.7	40.8/18.7	40.3/18.7	39.3/18.7	38.8/18.7	37.8/18.7	36.5/18.7	35.5/18.7	34.1/18.7	33.2/18.7	31.9/18.7	30.6/18.7

■ w/42.65m Tower

Jib length (m) Working radius(m)	21.35	24.40	27.45	30.50	33.50	36.55	39.60	42.65	45.70	48.75	51.80	54.85	57.90	60.95
8.0	80.0/8.6	80.0/8.6	80.0/8.6	80.0/8.6	80.0/8.6	80.0/8.6	80.0/8.6	80.0/8.6	80.0/8.6	80.0/8.6	80.0/8.6	80.0/8.6	80.0/8.6	80.0/8.6
9.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
10.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	77.6	77.6	77.6	77.6
11.0	80.0	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.1	76.0	74.3	73.0
12.0	77.6	77.3	76.7	75.5	74.9	74.0	73.6	72.2	70.9	69.8	68.2	67.2	65.6	64.3
13.0	70.5	69.6	69.0	67.9	67.4	66.4	65.9	64.6	63.4	62.2	60.8	59.8	58.2	57.0
14.0	63.9	63.0	62.5	61.4	60.9	59.9	59.4	58.2	56.9	55.8	54.4	53.4	51.9	50.7
15.0	58.2	57.4	56.8	55.7	55.2	54.3	53.9	52.6	51.4	50.3	48.9	48.0	46.5	45.2
16.0	53.3	52.4	51.9	50.8	50.3	49.3	48.9	47.8	46.5	45.4	44.1	43.2	41.8	40.6
18.0	45.0	44.2	43.7	42.6	42.1	41.3	40.8	39.6	38.5	37.5	36.1	35.3	33.9	32.7
20.0	38.8/19.9	38.0/19.9	37.5/19.9	36.4/19.9	35.9/19.9	35.1/19.9	34.6/19.9	33.5/19.9	32.3/19.9	31.4/19.9	30.1/19.9	29.2/19.9	27.9/19.9	26.8/19.9

■w/45.70m Tower

Jib length(m) Working radius(m)	21.35	24.40	27.45	30.50	33.50	36.55	39.60	42.65	45.70	48.75	51.80	54.85	57.90	60.95
9.0	80.0/9.1	80.0/9.1	80.0/9.1	80.0/9.1	80.0/9.1	80.0/9.1	80.0/9.1	80.0/9.1	80.0/9.1	77.6/9.1	77.6/9.1	77.6/9.1	77.6/9.1	77.6/9.1
10.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	77.6	77.6	77.6	77.6	77.6
11.0	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	76.7	75.1	74.1	72.5	71.1
12.0	76.2	75.3	74.7	73.6	73.1	72.1	71.7	70.5	69.2	68.0	66.6	65.6	64.1	62.8
13.0	68.7	67.9	67.4	66.2	65.7	64.7	64.5	63.2	61.9	60.9	59.4	58.4	57.0	55.7
14.0	62.3	61.4	61.0	59.9	59.4	58.5	58.2	56.9	55.6	54.6	53.2	52.2	50.9	49.6
15.0	56.8	56.0	55.5	54.4	54.0	53.0	52.6	51.5	50.2	49.2	47.9	46.9	45.5	44.4
16.0	52.0	51.2	50.7	49.6	49.1	48.3	47.9	46.7	45.5	44.5	43.2	42.2	40.9	39.7
18.0	44.0	43.1	42.6	41.7	41.2	40.3	39.9	38.8	37.6	36.7	35.4	34.5	33.2	32.1
20.0	37.5	36.7	36.3	35.3	34.8	34.0	33.6	32.4	31.4	30.4	29.1	28.4	27.0	25.9
22.0	33.5/21.2	32.8/21.2	32.5/21.2	31.4/21.2	30.9/21.2	30.2/21.2	29.8/21.2	28.7/21.2	27.6/21.2	26.6/21.2	25.4/21.2	24.7/21.2	23.2/21.2	22.3/21.2

■w/48.75m Tower

Jib length(m) Working radius(m)	21.35	24.40	27.45	30.50	33.50	36.55	39.60	42.65	45.70	48.75	51.80	54.85	57.90	60.95
9.0	80.0/9.5	80.0/9.5	80.0/9.5	80.0/9.5	80.0/9.5	80.0/9.5	80.0/9.5	80.0/9.5	80.0/9.5	80.0/9.5	77.6/9.5	77.6/9.5	76.6/9.5	75.4/9.5
10.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	76.7	75.8	74.5	73.4
11.0	77.6	77.6	77.6	77.6	77.6	77.6	77.6	76.5	75.4	74.4	73.0	72.0	70.5	69.2
12.0	74.1	73.2	72.7	71.5	71.1	70.2	69.8	68.5	67.3	66.2	64.7	63.8	62.3	61.1
13.0	66.9	66.0	65.5	64.4	64.0	63.0	62.7	61.4	60.2	59.2	57.8	56.9	55.4	54.2
14.0	60.7	59.8	59.3	58.2	57.9	56.9	56.6	55.4	54.2	53.2	51.7	50.9	49.5	48.4
15.0	55.2	54.5	54.0	52.9	52.5	51.6	51.3	50.1	48.9	48.0	46.6	45.6	44.4	43.2
16.0	50.6	49.7	49.3	48.3	47.9	46.9	46.6	45.4	44.3	43.3	42.0	41.2	39.8	38.7
18.0	42.7	42.0	41.5	40.4	40.0	39.1	38.8	37.7	36.6	35.6	34.4	33.6	32.3	31.2
20.0	36.4	35.6	35.2	34.2	33.8	32.9	32.6	31.6	30.4	29.5	28.3	27.5	26.2	25.2
22.0	31.3	30.5	30.0	29.1	28.7	27.9	27.5	26.4	25.4	24.5	23.3	22.6	21.3	20.3
24.0	29.9/22.5	29.1/22.5	28.7/22.5	27.7/22.5	27.3/22.5	26.6/22.5	26.1/22.5	25.1/22.5	24.1/22.5	23.2/22.5	22.1/22.5	21.3/22.5	20.0/22.5	19.1/22.5

■w/51.80m Tower

Jib length(m) Working radius(m)	21.35	24.40	27.45	30.50	33.50	36.55	39.60	42.65	45.70	48.75	51.80	54.85	57.90	60.95
10.0	78.1	77.3	77.0	76.0	75.7	74.9	74.8	73.8	72.7	71.8	70.6	69.7	68.4	67.3
11.0	75.0	74.2	73.9	72.9	72.6	71.8	71.7	70.6	69.6	68.6	67.4	66.5	65.3	64.1
12.0	69.9	69.1	68.8	67.8	67.6	66.8	66.7	65.6	64.6	63.7	62.5	61.6	60.4	59.2
13.0	65.6	64.7	64.4	63.2	62.8	61.9	61.6	60.5	59.2	58.2	56.9	55.9	54.6	53.4
14.0	59.6	58.7	58.3	57.3	56.9	56.0	55.7	54.6	53.3	52.3	51.0	50.1	48.7	47.6
15.0	54.4	53.6	53.1	52.0	51.7	50.8	50.5	49.4	48.3	47.3	45.9	45.1	43.8	42.6
16.0	49.8	48.9	48.5	47.5	47.1	46.3	45.9	44.9	43.7	42.8	41.5	40.7	39.3	38.3
18.0	42.0	41.3	40.9	39.9	39.5	38.7	38.4	37.3	36.2	35.3	34.1	33.2	32.0	30.9
20.0	35.9	35.2	34.8	33.8	33.4	32.5	32.3	31.2	30.1	29.2	28.1	27.3	26.0	25.1
22.0	30.9	30.1	29.7	28.8	28.4	27.6	27.3	26.2	25.2	24.3	23.1	22.5	21.2	20.2
24.0	27.0/23.8	26.3/23.8	25.8/23.8	25.0/23.8	24.6/23.8	23.8/23.8	23.5/23.8	22.5/23.8	21.5/23.8	20.6/23.8	19.4/23.8	18.8/23.8	17.6/23.8	16.6/23.8

■w/54.85m Tower

Jib length(m) Working radius(m)	24.40	27.45	30.50	33.50	36.55	39.60	42.65	45.70	48.75	51.80	54.85	57.90	60.95
10.0	69.2/10.4	68.9/10.4	68.0/10.4	67.9/10.4	67.1/10.4	66.2/10.4	65.2/10.4	64.1/10.4	63.2/10.4	62.0/10.4	61.2/10.4	59.9/10.4	58.8/10.4
11.0	67.4	67.1	66.2	66.1	65.3	64.4	63.4	62.3	61.4	60.2	59.4	58.1	57.0
12.0	64.7	64.5	63.5	63.4	62.7	61.7	60.7	59.6	58.7	57.5	56.7	55.4	54.3
13.0	60.3	60.1	59.2	59.0	58.3	57.4	56.4	55.3	54.5	53.3	52.5	51.3	50.1
14.0	57.7	57.4	56.3	56.0	55.2	54.2	53.1	51.9	51.0	49.6	48.7	47.5	46.3
15.0	52.6	52.2	51.3	51.0	50.2	49.1	48.1	46.9	45.9	44.7	43.9	42.5	41.5
16.0	48.2	47.8	46.8	46.5	45.7	44.8	43.7	42.5	41.6	40.4	39.5	38.3	37.2
18.0	40.6	40.3	39.3	39.0	38.3	37.3	36.2	35.2	34.3	33.0	32.3	31.1	30.0
20.0	34.6	34.2	33.3	33.0	32.3	31.3	30.3	29.2	28.4	27.2	26.4	25.3	24.3
22.0	29.6	29.2	28.4	28.1	27.3	26.4	25.4	24.4	23.5	22.4	21.7	20.5	19.5
24.0	25.5	25.1	24.2	23.9	23.2	22.3	21.3	20.3	19.4	18.4	17.6	16.5	15.6
26.0	23.1/25.1	22.7/25.1	21.9/25.1	21.6/25.1	20.9/25.1	19.9/25.1	19.0/25.1	18.0/25.1	17.1/25.1	16.1/25.1	15.3/25.1	14.3/25.1	13.3/25.1

■ w/57.90m Tower

Jib length(m) Working radius(m)	27.45	30.50	33.50	36.55	39.60	42.65	45.70	48.75	51.80	54.85	57.90	60.95
10.0	60.6/10.9	59.7/10.9	59.6/10.9	58.9/10.9	58.0/10.9	57.0/10.9	55.9/10.9	55.1/10.9	53.9/10.9	53.1/10.9	51.9/10.9	50.8/10.9
11.0	60.1	59.2	59.1	58.4	57.5	56.5	55.5	54.6	53.4	52.6	51.4	50.3
12.0	57.8	56.9	56.8	56.0	55.1	54.1	53.1	52.2	51.0	50.2	49.0	47.9
13.0	55.5	54.6	54.5	53.8	52.9	51.9	50.8	49.9	48.8	47.9	46.7	45.6
14.0	53.5	52.5	52.4	51.7	50.8	49.7	48.7	47.8	46.6	45.8	44.6	43.5
15.0	49.9	49.0	48.8	48.2	47.3	46.3	45.2	44.4	43.3	42.4	41.3	40.2
16.0	46.8	45.9	45.6	44.9	43.9	42.8	41.8	40.8	39.6	38.8	37.6	36.5
18.0	39.5	38.6	38.4	37.6	36.6	35.5	34.5	33.6	32.4	31.7	30.5	29.4
20.0	33.6	32.6	32.4	31.7	30.7	29.7	28.7	27.9	26.7	25.9	24.8	23.8
22.0	28.7	27.8	27.5	26.8	25.9	24.9	23.9	23.0	22.0	21.2	20.1	19.2
24.0	24.6	23.7	23.4	22.7	21.9	20.9	19.9	19.1	18.0	17.3	16.2	15.3
26.0	21.1	20.2	20.0	19.3	18.4	17.5	16.5	15.7	14.7	13.9	12.9	12.0
28.0	20.3/26.4	19.4/26.4	19.4/26.4	18.5/26.4	17.6/26.4	16.8/26.4	15.9/26.4	15.0/26.4	14.0/26.4	13.2/26.4	12.2/26.4	11.3/26.4

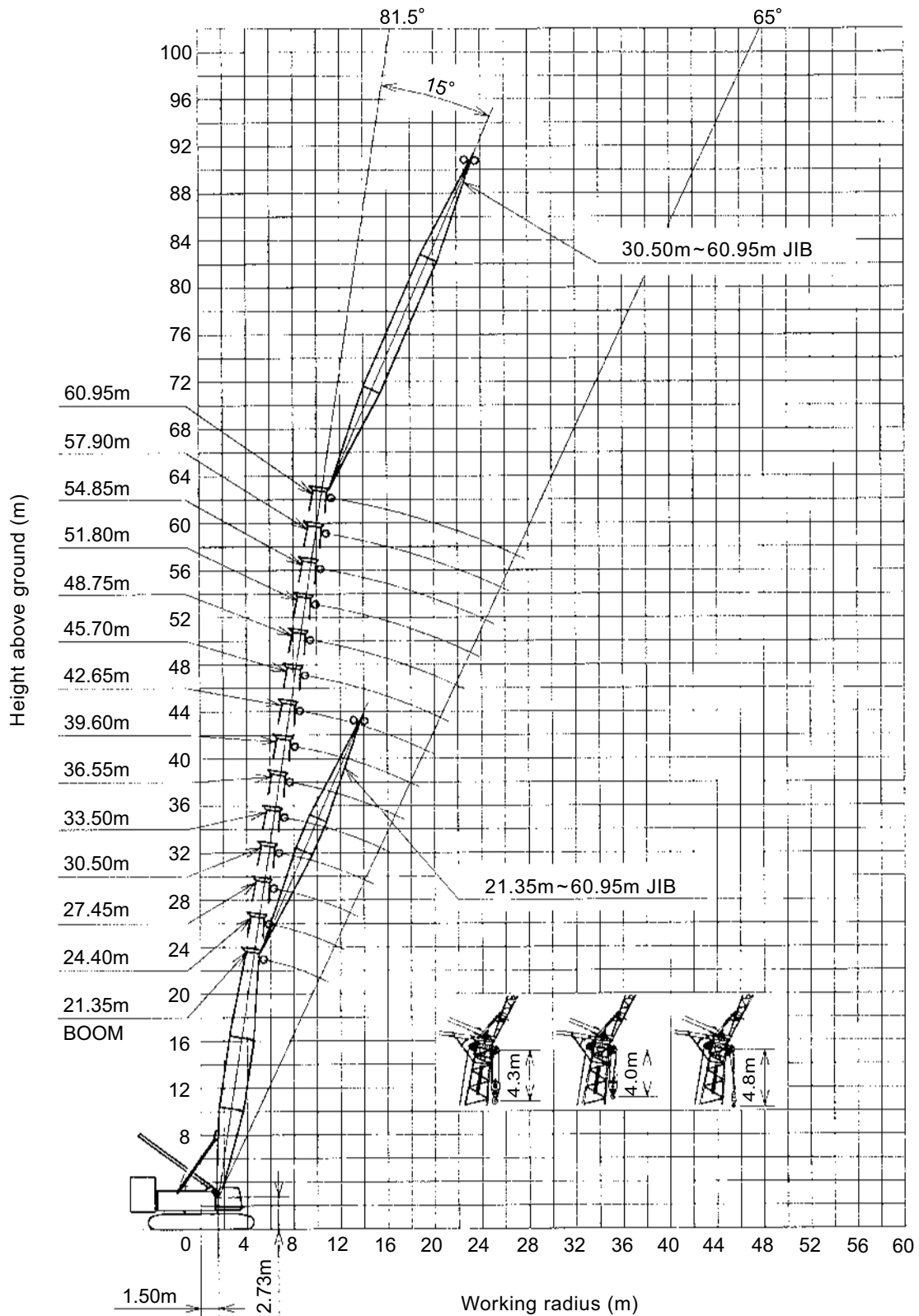
■ w/60.95m Tower

Jib length(m) Working radius(m)	30.50	33.50	36.55	39.60	42.65	45.70	48.75	51.80	54.85	57.90	60.95
11.0	47.9/11.3	47.7/11.3	46.9/11.3	46.8/11.3	45.7/11.3	45.8/11.3	45.0/11.3	43.9/11.3	43.1/11.3	41.9/11.3	40.9/11.3
12.0	46.4	46.2	45.4	45.3	44.3	44.3	43.5	42.3	41.6	40.4	39.3
13.0	44.5	44.3	43.5	43.4	42.4	42.4	41.5	40.4	39.6	38.4	37.4
14.0	42.8	42.5	41.7	41.6	40.6	40.6	39.7	38.6	37.8	36.6	35.6
15.0	41.1	40.9	40.0	39.9	38.9	38.9	38.0	36.9	36.1	34.9	33.9
16.0	39.5	39.3	38.4	38.3	37.3	37.3	36.4	35.3	34.5	33.3	32.2
18.0	35.4	35.2	34.4	34.3	33.2	33.2	32.3	31.3	30.5	29.3	28.3
20.0	30.7	30.3	29.5	29.2	28.2	28.0	27.2	26.0	25.4	24.2	23.2
22.0	25.9	25.6	24.8	24.5	23.5	23.3	22.5	21.4	20.7	19.5	18.7
24.0	22.0	21.6	20.8	20.6	19.5	19.4	18.6	17.5	16.8	15.8	14.8
26.0	18.6	18.2	17.5	17.2	16.2	16.0	15.2	14.2	13.5	12.5	11.6
28.0	16.1/27.7	15.7/27.7	15.0/27.7	14.7/27.7	13.7/27.7	13.5/27.7	12.8/27.7	11.7/27.7	11.0/27.7	10.0/27.7	9.2/27.7

Notes — Tower boom top crane capacities

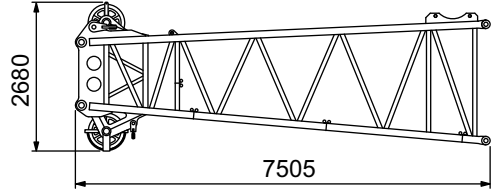
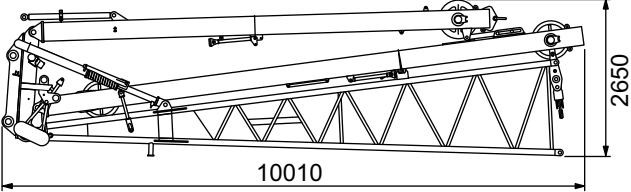
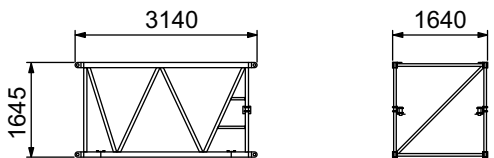
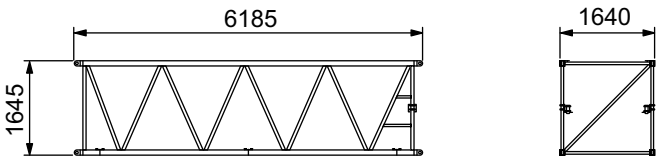
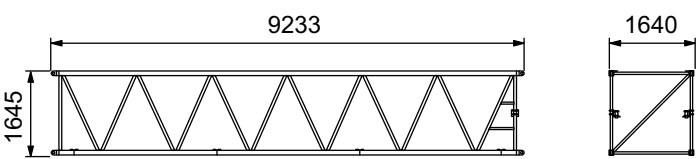
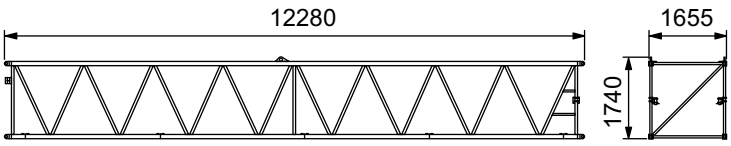
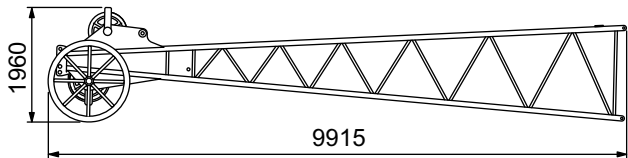
- Capacities on these charts are available when handling load off a 3-sheave machinery provided on 7.30m tower top section with movement of tower boom hoisting/lowering under the condition that luffing jib offset angle to tower boom is 15 degrees.
- Capacities included in these charts are the maximum allowable, and are based on machine standing level on firm supporting surface under ideal job conditions.
- Capacities are in metric tons, and are rated in accordance with European EN13000 Standards in terms of machine stability and structural strength limitations; the figures surrounded by bold lines are based on factors other than those which would cause a tipping condition.
- Capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, and operating speeds. Operator must reduce load ratings to take such conditions into account. Deduction from rated capacities must be made for weight of hook block, weighted ball/hook, sling, spreader bar, or other suspended gear.
Hook block weight is as follows:
80t1.4ton 35t0.9ton 13.5t0.62ton
- All capacities are rated for 360° slewing.
- Least stable rated condition is over the side.
- An 102.8ton counterweight and 18.0ton lower weight are required for all capacities on this chart.
- Attachment must be erected and lowered over the ends of the crawler mounting.
- Tower boom and jib configurations shall be in accordance with manufacturer's standard described here in "Tower Boom & Jib Combination Diagram" shown in page 26.
- A simultaneous lift under luffing jib hook and tower boom top crane hook is not allowed.

Tower Boom Top Crane Working Ranges



Transport Data

Followings are essential parts for luffing jib attachment.

Description	Q'ty	Dimensions(mm)	Mass(kg)
7.30m HD Tower Top section	1	 <p>Width : 2240 (w/out pendant ropes)</p>	3,300
9.15m Luffing Jib Base Section (w/front & rear posts) (w/0.32m tower head sect.)	1	 <p>Width : 2070 (w/out pendant ropes)</p>	6,000
3.05m Luffing Jib Extension	1	 <p>(w/out pendant ropes)</p>	300
6.10m Luffing Jib Extension	1	 <p>(w/out pendant ropes)</p>	500
9.15m Luffing Jib Extension	1	 <p>(w/out pendant ropes)</p>	700
12.20m HD Luffing Jib Extension	1	 <p>(w/out pendant ropes)</p>	1,100
9.15m Luffing Jib Top section	1	 <p>Width : 1645 (w/out pendant ropes)</p>	1,700

MEMO

A series of horizontal dotted lines for writing.

MEMO

A series of horizontal dotted lines for writing.

SCX2800-2

Hitachi Sumitomo Heavy Industries Construction Crane Co., Ltd.

9-3, Higashi Ueno 6-chome, Taito-ku, Tokyo 110-0015, Japan
Phone: 81-3-3845-1387 Facsimile: 81-3-3845-1394
<http://www.hsc-crane.com>

- We are constantly improving our products and therefore reserve the right to change designs and specifications without notice.
- Units in this specification are shown under International System of Units; the figures in parenthesis are under Gravitational System of Units as old one.

Address Inquires to:

건설기계 등록증
 검사증

발급번호 2817-20201111-005764 제작년도 : 2011 최초등록일 2011-11-04

건설기계의 표시

구 등록번호 : 경기07고48892

건설기계명	기중기	등록번호	인천07마6429
형식	SCX2800-2	구격	275ton 4.3 m
원동기 및 형식	6M70-TL	차대일련번호	SC280-7214
등록사항	사용본거지(영업용의 경우에는 상호 및 명진중기 인천광역시 남구 용현동 571번지 66호 1층 사용본거지)		

소유자의 표시

성명(법인명)	광성전기(주)	주민(사업자, 외국인)등록번호	110111-1388994
주소	서울특별시 영등포구 버드나루로 50(영등포동2가)		

「건설기계관리법」 제3조 및 제13조에 따라 등록 및 검사를 하였음을 증명합니다. 2020년 11월 11일
 사유 : 분실

인천광역시 미추홀구청장

1. 주요 제원	
형식승인번호 : 5-07-0081-00-00	
길이 24190 mm 너비 7520 mm	
높이 9935 mm 총중량 224100 kg	
주행방식 자주식 (무한레도식) 정격출력 370/2000 PS/RPM	
기동수 6 기동 연료종류 경유	
2. 저당권등록사실	
설정	2011-11-14
* 그 밖의 저당권등록의 내용은 건설기계등록원부(을)를 열람·확인하시기 바랍니다.	

3. 작업 장치	
* 기종별 작업장치 표시	
표준봉의 작업반경	4.3 m
봉길이(점검대길이)(표준)	15.25 m
봉길이(점검대길이)(최대)	91.45 m
봉의 최대각도	81.5 도
기중기 봉 단 수	선택 단
최대정격총하중	275000 kg
선회속도(점검대)	1.5 rpm
후회상속도(트롤리)	110 m/min
후회대지상높이(그라플)	84.0 m
아우트리거설치폭(가로X세로)	mm
최고속도(90km/h) 제한장치	설치 ()
대형건설기계 표지	설치 ()
* 대형건설기계는 도로운행시 도로관리청의 허가를 받아 운행하거나, 운행제한을 받지 아니하도록 분해 후 이동하여야 합니다.	

전설기계소유자 유의사항

- 전설기계의 등록사항에 변경이 있을 때에는 30일 이내에 등록지의 시·도지사에게 신고하여야 합니다(위반한 경우 경과일수에 따라 과태료 최고 20만원).
- 전설기계의 등록주소 시유가 발생한 때에는 30일 이내에 등록지의 시·도지사에게 신고하여야 합니다(위반한 경우 과태료 20만원).
- 정기적으로 검사를 받아야 합니다(위반한 경우 경과일수에 따라 과태료 최고 40만원).

전설기계 등록·검사증



인천광역시미추홀구청

4. 전설기계주사관				인천07마6429	5. 등록사항 변경내역			
구분	검사일	유효기간 (까지)	검사기관	담당자성명	연번	변경일자	변경사항	비고
신규등록일 : 2011-11-04								
신규(검색)	2011-11-04	2014-11-03	신규(무환)농기계관리					
정기검사	2014-11-25	2017-11-03	인천관리원충북군검사소	소미현				
정기검사	2017-11-01	2020-11-03	인천관리원경기북부검사소	김유식				
정기검사	2020-11-04	2023-11-03	인천관리원경원수검검사소	김승근				

* 유의사항 : 기재사항은, 관공서등록일 기준입니다.
 * 정기검사항목에 따라 인허가번호 변경을 신청할 경우 변경사항의 변경일과, 관공서로 출제, 출제일로부터 30일 이내, 등록일로부터 30일 이내, 유효기간 종료일까지입니다.

건설기계안전공제증권

○ 증권번호 : 07-2022-013134

구분	상호 / 성명	주민 / 사업자번호
계약자	광성건설(주)	107-81-59228
피공제자	광성건설(주)	107-81-59228

공제기간	2022년 11월 12일 16:00 부터 ~ 2023년 11월 12일 16:00 까지	
공제가입금액및공제료	공제가입금액	총 공제료
	₩ 730,000,000	₩ 7,055,600

공제가입사항	기본사항	건설기계명	기중기	대수	1	
		건설기계등록번호	인천07마6429	년식	2011	
	담보사항	구분	보상한도액	자기부담금	공제료	
		재물담보	₩ 500,000,000	₩ 1,000,000	₩ 5,263,500	
		대인·대물통합배상책임	₩ 200,000,000	₩ 300,000	₩ 1,121,600	
		보호,관리,통제에 따른직접손해배상책임담보	₩ 30,000,000	₩ 500,000	₩ 565,400	
		보호,관리,통제에 따른간접손해배상책임담보	직접손해한도	₩ 500,000	₩ 105,100	
	특약사항	재물담보	풍수재담보특별약관 대위권포기특별약관(임차인)			
		배상책임담보 1	대위권포기특별약관(임차인)			
		배상책임담보 2	보호관리통제에따른직접손해배상책임담보			
배상책임담보 3		보호관리통제에따른간접손해배상책임담보				
기타특약						
추가기재사항						

총 공제료	₩ 7,055,600	일시납
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□ 연락처 : 02-2055-2552
□ 발급일 : 2022년 11월 08일

우리 협회는 공제계약자와 해당 공제약관에 의하여 공제계약을 체결하고 그 증거로서 이 공제증권을 드립니다.

대한건설기계협회

회장 안춘엽



건설기계조종사면허증

제 호서물19-1988-0014-01

성 명함현수

주민등록번호 610102-1470611

주 소 경기도 시흥시 경원천로368번길 40-4, 301호(경동동)

국 적 대한민국

교 부 일 자 1988. 11. 15.

소 지 면 허기종기(1988/11/15)



위의 사람은 「건설기계관리법」 제26조의 규정에 의한 건설기계조종사임을 증명합니다.

2015년 03월 30일

시 흥 시



건설업 기초안전보건교육 이수증
(Certificate of Basic OSH Training in Construction)



이 름 : 한 현 수

생년월일 : 1961년 01월 02일

등록번호 : 2013-032-00379

이수일자 : 2013.01.25

2015.02.04

(주)옥토건설안전기술원 



사업자등록증

(일반과세자)

등록번호 : 739-19-01128

상 호 : 영진중기(영진크레인)
성 명 : 염숙희 생년월일 : 1956년 12월 01일
개업연월일 : 2019년 12월 19일
사업장소재지 : 전라남도 광양시 광양읍 대림오성로 52, 201호(스카이뷰)

사업의종류 : 업태 건설업 종목 중기대여

발급사유 : 신규
공동사업자 :

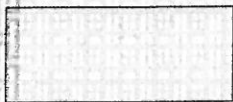


TEL : 061-792-9393 E-MAIL : kubong2020@hanmail.net
FAX : 061-792-9930 H.P : 010-9038-9441

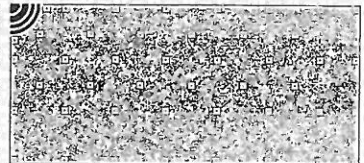
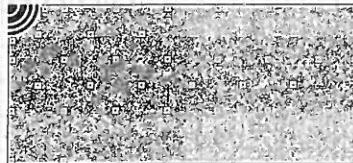
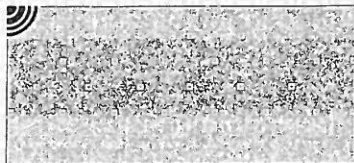
사업자 단위 과세 적용사업자 여부 : 여() 부(✓)
전자세금계산서 전용 전자우편주소 :

2019년 12월 19일

순천세무서장



국세청
National Tax Service



건설기계조종사 안전교육 이수증

성명	한현수	생년월일	19610102
주소	경기도 시흥시 정왕동2298-1, 501호		
교육필증번호	21113602000249	발급일자	2021.07.25.
안전교육 유효기간	2021.07.25~2024.12.31.		

위 사람은 「건설기계관리법 시행규칙」 제83조의3제2항에 따라 건설기계조종사 안전교육을 이수하였음을 증명합니다.

2021년 07월 25일



[사]건설기계안전기술연구원장



건설기계 등록증
 검사증

발급번호 : 2817-20160627-005068 제작년도 : 2011 최초등록일 : 2011-11-04

등록사항	건설기계의 표시			구 등록번호 : 경기07고6862
	건설기계명	기중기	등록번호	인천07마6429
	형식	SCX2800-2	규격	275ton 4.3 m
	원동기 및 형식	6M70-TL	차대일련번호	SC280-7214
	사용본거지(영업용의 경우에는 상호 및 사용본거지)	명진중기 인천광역시 남구 용현동 571번지 66호 1층		
	소유자의 표시			
	성명(법인명)	광성진기(주)	주민(사업자, 외국인)등록번호	110111-1388994
	주소	서울특별시 영등포구 버드나루로 50(영등포동2가)		

「건설기계관리법」 제3조 및 제13조에 따라 등록 및 검사를 하였음을 증명합니다.
사유 : 변경 2016년 06월 27일

인천광역시 남구 **청장** 장이인

1. 주요제원			
형식승인번호 : 5-07-0081-00-00			
길이	24190 mm	너비	7520 mm
높이	9935 mm	총중량	224100 kg
주행방식	자주식 (무한레도식)	정격출력	370/2000 W/RPM
기동수	6 기동	연료종류	경유
2. 저당권등록사실			
설정	2011-11-14		
* 그 밖의 저당권등록의 내용은 건설기계등록원부(을)를 열람·확인하시기 바랍니다.			

3. 작업장치	
* 기종별 작업장치 표시	
표준봄의 작업반경	4.3 m
봄길이(점검대길이)(표준)	15.25 m
봄길이(점검대길이)(최대)	91.45 m
봄의 최대각도	81.5 도
몸 단 수	선택 단
기중기 최대정격중하중	275000 kg
신회속도(점검대)	1.5 rpm
육권상속도(트롤리)	110 m/min
축최대지상높이(그라플)	84.0 m
아우트리저설치폭(가로X세로)	mm
최고속도(90km/h) 제한장치	설치 ()
대형건설기계 표시	설치 ()
* 대형건설기계는 도로운행시 도로관리청의 허가를 받아 운행하거나, 운행제한을 받지 아니하도록 분해 후 이동하여야 합니다.	

건설기계소유자 유의사항

- 건설기계의 등록사항에 변경이 있을 때에는 30일 이내에 등록지의 시·도지사에게 신고하여야 합니다(위반한 경우 경과일수에 따라 과태료 최고 20만원).
- 건설기계의 등록말소 사유가 발생한 때에는 30일 이내에 등록지의 시·도지사에게 신고하여야 합니다(위반한 경우 과태료 20만원).
- 정기적으로 검사를 받아야 합니다(위반한 경우 경과일수에 따라 과태료 최고 40만원).

건설기계 등록·검사증



인천광역시미추홀구청

4. 건설기계 검사란					5. 등록사항 변경란			
구분	검사일	유효기간 (까지)	검사기관	담당자성명	인번	변경일자	변경사항	확인
신규등록일 : 2011-11-04								
신규(검사)	2011-11-04	2014-11-03	신규(부활) 등록관청					
정기검사	2014-11-25	2017-11-03	안전관리원충북본검사소	조미현				
정기검사	2017-11-01	2020-11-03	안전관리원경기본검사소	손용석				
정기검사	2020-11-04	2023-11-03	안전관리원강원영주검사소	장종근				
* 유의사항 : 첫째란에는 신규등록일을 적습니다. * 수입건설기계의 제작연월일의 표기는 수입신고필증의 일칭일을 기준으로 하며, 중고수입건설기계는 제작연도의 12월 31일을 기준으로 합니다.								

건설기계안전공제증권

○ 증권번호 : 07-2022-013134

구 분	성호 / 성명	주민 / 사업자번호
계 약 자	광성건기매	107-81-59228
피 공 제 자	광성건기매	107-81-59228

공 제 기 간	2022년 11월 12일 16:00 부터 ~ 2023년 11월 12일 16:00 까지	
공제가입금액및공제료	공 제 가 입 금 액	총 공 제 료
	₩ 730,000,000	₩ 7,055,600

기본 사항	건 설 기 계 명	가중기	대 수	1	
	건설기계등록번호	원천07매6429		년 식	2011
공 제 가 입 사 항	일보 사항	구 분	보상한도액	자기부담금	공제료
		재 물 담 보	₩ 500,000,000	₩ 1,000,000	₩ 5,263,500
	대인·대물종합배상 책임	₩ 200,000,000	₩ 300,000	₩ 1,121,600	
	보호,관리,통제에 따른직접손해배상 책임 담 보	₩ 30,000,000	₩ 500,000	₩ 565,400	
	보호,관리,통제에 따른간접손해배상 책임 담 보	직접손해한도	₩ 500,000	₩ 105,100	
	특 약 사 항	재 물 담 보	중수채담보특별약관 대위권포기특별약관(임차인)		
배상 책임 담 보 1		대위권포기특별약관(임차인)			
배상 책임 담 보 2		보호관리통제에따른직접손해배상책임담보			
배상 책임 담 보 3		보호관리통제에따른간접손해배상책임담보			
기 타 특 약					
추가기재사항					

총 공 제 료	₩ 7,055,600	일 시 납
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□ 연락처 : 02-2655-2552

□ 발급일 : 2022년 11월 08일

우리 협회는 공제계약자와 해당 공제약관에 의하여
공제계약을 체결하고 그 증거로서 이 공제증권을 드립니다.

대한건설기계협회

회장 안 춘 업



건설기계조종사면허증

제 호서울19-1988-0014-01

성 양한현수

주민등록번호 610102-1470611

주 소 경기도 시흥시 경왕천로369번길 49-8, 301호(경왕동)

국 적 대한민국

교 부 일 자 1988. 11. 15.

소 지 면 허기종기(1988/11/15)



위의 사람은 「건설기계관리법」 제26조의 규정에 의한 건설기계조종사임을 증명합니다.

2015년 03월 30일

시 흥 시

