

MOBILE CRANE OPERATOR CERTIFICATION UPDATE



ISSUE

- OSHA Standard 1926.1427
- November 10, 2017 implementation date
- Crane operators must be certified and qualified



QUALIFIED VS. CERTIFIED

Qualified

- Operator observed working safely & knowledgably
- Keep documentation in files



Certified

- Must pass independent exams (written & practical)
- Proctor must be approved by certifying body
- Issued card once certified
- Renewal required every 5 years



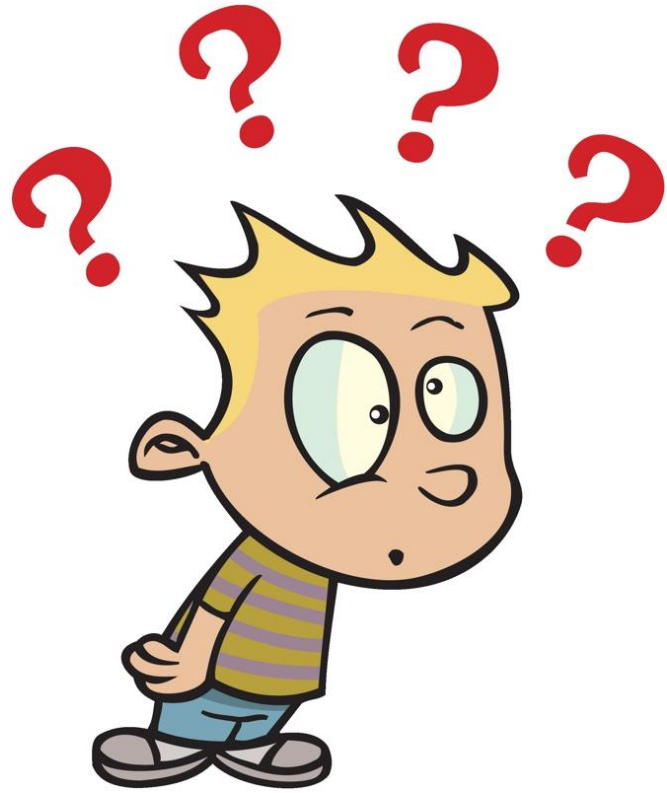
BACKGROUND

- Mobile crane operator certifications have been offered for years
- These organizations are accredited to certify crane operators
 - NCCER
 - CIC
 - NCCCO
- All three require written and practical exams for certification

THE GOOD NEWS...



AND THE BAD NEWS...



STINGER 4792 LOAD RATINGS **CAUTION:** Do not use this specification sheet as a load rating sheet. The intent is only to provide information with the load chart and not to be used as a design.

Maximum Load Chart in pounds (lbs) with fully extended outriggers

LIFTING CAPACITY (LBS)	BOOM LENGTH			
	29 FT	44 FT	59 FT	74 FT
100	100	100	100	100
110	110	110	110	110
120	120	120	120	120
130	130	130	130	130
140	140	140	140	140
150	150	150	150	150
160	160	160	160	160
170	170	170	170	170
180	180	180	180	180
190	190	190	190	190
200	200	200	200	200
210	210	210	210	210
220	220	220	220	220
230	230	230	230	230
240	240	240	240	240
250	250	250	250	250
260	260	260	260	260
270	270	270	270	270
280	280	280	280	280
290	290	290	290	290
300	300	300	300	300

BT & RM Models

NOTE: OPERATIONAL LIMITATIONS IN RED. CAPACITY AND INDICATED WITH AN ASTERISK.

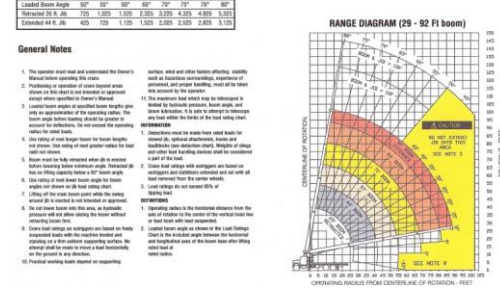
Stowed Jib Deductions (Pounds)

290	300	310	320	330	340
290	290	290	290	290	290
300	300	300	300	300	300
310	310	310	310	310	310
320	320	320	320	320	320
330	330	330	330	330	330
340	340	340	340	340	340

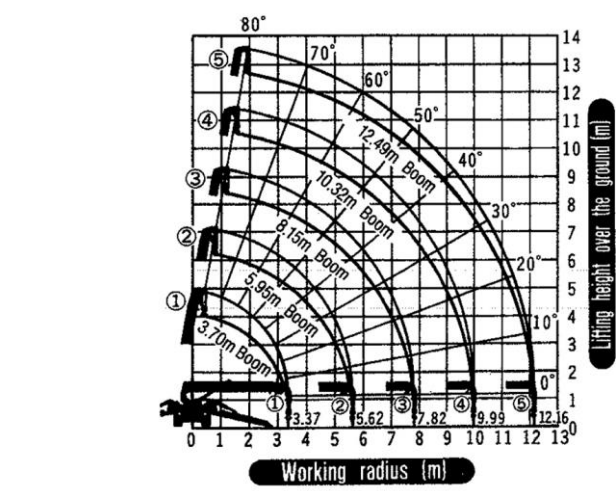
JIB CAPACITIES FOR ALL BOOM LENGTHS

VERIFY OPERATING MODES LISTED ON THE INTERMEDIATE POSITION LOAD CHART WITH ALL LOADS.

Loaded Boom Angle	30°	35°	40°	45°	50°
Maximum Lift (LBS)	270	250	230	210	190
Extended Lift (LBS)	400	370	340	310	280



- General Notes**
- The operator must read and understand the Owner's Manual before operating the crane.
 - Performance is dependent on crane condition, operator skill, and proper load handling. Read all of the items in the manual and understand the operating mode.
 - Load capacity is limited by the crane's design and the operator's skill. The operator must understand the operating mode and the crane's design before operating the crane.
 - The lifting of any load must be done in a controlled manner. The operator must understand the crane's design and the operator's skill before operating the crane.
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- INTERMEDIATE OUTRIGGER CONFIGURATION -

LIFTING CAPACITY (LBS)	JIB LOAD RATINGS IN LBS WITH ALL OUTRIGGERS IN THE INTERMEDIATE POSITION				JIB LOAD RATINGS IN LBS WITH ALL OUTRIGGERS IN THE INTERMEDIATE POSITION			
	A	B	C	D	LM CODE #10	LM CODE #11	LM CODE #12	TELESCOPIC JIB
5	30.5 FT	52 FT	68 FT	84 FT	100 FT			
8	30.5 FT	52 FT	68 FT	84 FT	100 FT			
10	30.5 FT	52 FT	68 FT	84 FT	100 FT			
12	30.5 FT	52 FT	68 FT	84 FT	100 FT			
15	30.5 FT	52 FT	68 FT	84 FT	100 FT			
20	30.5 FT	52 FT	68 FT	84 FT	100 FT			
25	30.5 FT	52 FT	68 FT	84 FT	100 FT			
30	30.5 FT	52 FT	68 FT	84 FT	100 FT			
35	30.5 FT	52 FT	68 FT	84 FT	100 FT			
40	30.5 FT	52 FT	68 FT	84 FT	100 FT			
45	30.5 FT	52 FT	68 FT	84 FT	100 FT			
50	30.5 FT	52 FT	68 FT	84 FT	100 FT			
55	30.5 FT	52 FT	68 FT	84 FT	100 FT			
60	30.5 FT	52 FT	68 FT	84 FT	100 FT			
65	30.5 FT	52 FT	68 FT	84 FT	100 FT			
70	30.5 FT	52 FT	68 FT	84 FT	100 FT			
75	30.5 FT	52 FT	68 FT	84 FT	100 FT			
80	30.5 FT	52 FT	68 FT	84 FT	100 FT			
85	30.5 FT	52 FT	68 FT	84 FT	100 FT			
90	30.5 FT	52 FT	68 FT	84 FT	100 FT			

590 LBS 350 LBS 270 LBS 220 LBS 180 LBS FIXED DEDUCTIONS FOR STOWED JIBS
890 LBS 530 LBS 400 LBS 330 LBS 280 LBS TELESCOPIC

WHAT NPCA HAS DONE

- Partnered with CIC to create new written certification exam specific to precast industry
- Under 21-ton Precast Delivery Crane Certification Exam
 - Load charts from cranes commonly used in industry
 - QMC
 - USTC
 - It does cover Boom Trucks under 21-tons and A-frame rail trucks
- Knuckle boom cranes are not covered by this certification
 - These have their own certification exam
 - Precast operators have done very well with the existing exams

WHAT IF I HAVE A CRANE OVER 21 TON?

- If your crane is over 21 tons you have two options:
 - Take the existing certification exams available for over 21 ton cranes
 - Be aware that these exams will include the more complex crane load charts
 - Have your crane properly de-rated to be under 21 tons so your operators can take the new Under 21-ton certification exam

WHAT'S INVOLVED WITH THE NEW CERTIFICATION?

- Requirements for the NPCA/CIC certification
 - Two exams
 - General knowledge written exam
 - Supplemental under 21-ton precast delivery crane written exam
 - Practical exam on under 21-ton boom truck with 36' of boom +/- 5'
- Specific to CIC only
- Not available via NCCCO or NCCER
 - We would welcome it if they offered a similar certification

WHAT IS NPCA'S ROLE MOVING FORWARD?

- NPCA is putting together several training and testing courses around the US & provide resources to help members find training and testing options
- Stay up to date at precast.org/cranes
- NPCA is offering free webinar on April 20th on what you need to know about crane certification
- NPCA is offering prep webinars for understanding load charts
 - March 14th, June 13th, August 15th, October 17th
 - Cost is \$149 for NPCA members per student

SO WHAT DO I NEED TO DO NEXT?

- Training
 - Training is not currently required under OSHA standard
 - Anyone can test at any time – no training class is required
 - We **strongly** recommend taking training before sitting for exam
 - Variety of vendors online and in person who offer training
 - Books and study manuals can be purchased for self-study
- Testing
 - Contact CIC, NCCCO, NCCER to register for testing
 - Remember there is a written and practical component to any crane certification

BUT TRAINING IS EXPENSIVE



- Partner with other precasters or local affiliate group to reduce costs for training and testing
- Consider becoming a practical and/or written exam proctor and testing site
- Use in-house study groups
- Remember: training is cheaper than an OSHA citation or a fatality

HOW DO I HELP MY OPERATORS PASS?

- Prepare your operators
 - Exam prep
 - Training courses
 - Study groups
 - Literacy
 - Reading and computer literacy
 - Identify and address
 - Exam anxiety
 - Practice, practice, practice
 - Attitude is half the battle

I CAN'T AFFORD TO HAVE MY GUYS OUT OF THE PLANT FOR A WEEK

- It's a lot of information to digest & it takes time
- Our Beta class wanted more than two days of training
- Studying and completing a training class greatly improves the success rate of crane operators
- Can you afford not to have them pass the exam?



TAKE AWAYS

- New Under 21-ton Precast Delivery Crane Certification exams to familiar load charts
- Make sure any certifications are from ANSI (or similar) approved organizations (i.e. CIC, NCCCO, NCCER)
- Begin working with your operators now
- Budget time and funds for training and study groups to prep
- Partner with other precasters for training and testing
- Don't wait until November 2017
- NPCA will continue to provide updates
 - NPCA website (precast.org/cranes)
 - Free Crane Certification Update via webinar April 20th Noon Eastern

QUESTIONS?

- NPCA
 - www.precast.org/cranes
 - Call NPCA at 800.366.7731
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