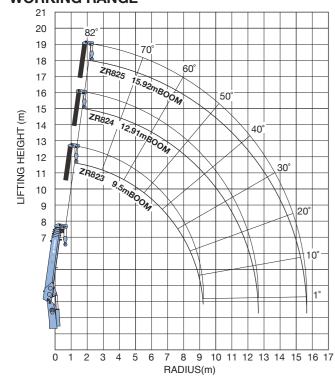
TECHNICAL SPECIFICATIONS

MODEL	TM-ZR823	TM-ZR824	TM-ZR825							
MAXIMUM LIFTING CAPACITY		8,200kg at 1.8m (6-part lines)								
CRANE CAPACITY		4,900kg at 3.1m (4-part lines)								
BOOM	Fully hydraulic telescoping boom	nydraulic telescoping boom Fully powered partly synchronized								
Sections	3	4	5							
Length	4.20m-9.50m	4.31m-12.91m	4.40m-15.92m							
Extending Speed	5.3m / 17s	8.6m / 23s	11.5m / 30s							
Elevation Range/Speed		1° to 82° / 13s								
Max. Hook Height*	Approx. 11.5m*	Approx. 14.9m*	Approx. 17.8m*							
Max. Load Radius*	9.25m*	12.66m*	15.67m*							
WINCH	Hydraulic m	Hydraulic motor driven.								
	Spur gear spe	eed reduction,	Spur gear speed reduction, provided							
	provided with m	echanical brake.	with mechanical brake and cable follower.							
Max. Single Line Pull		14.72kN {1,500kgf}								
Max. Single Line Speed		64m/min. (at 4th layer)								
Wire rope (Diameter x length)	10mm x 63m	10mm x 80m	10mm x 95m							
SWING	Hydrau	lic motor driven. Worm gear speed re-	duction.							
	Continuous 360° full o	Continuous 360° full circle swing on ball bearing slew ring. Automatic swing lock.								
Speed		2.5 min⁻¹{rpm}								
OUTRIGGERS	Hydraulically	extended sliders and hydraulically ext	ended jacks.							
	Integral with crane frame. Power up and down.									
Extended Width		Max.: 3.9m Mid.: 3.1m Min.: 2.25m								
HYDRAULIC SYSTEM										
Pump		Tandem gear pump								
Control Valves	Multi	ple control valves with integral safety	valve							
STANDARD SAFETY EQUIPMENT	Load meter Load indicator									
	Over-winding alarm P.T.O. indicator lamp									
		Hook safety latch Level gauge								
	Hydraulic safety valves, check valves and holding valves									
SUITABLE TRUCKS	G	Gross vehicle mass 20,000 to 25,000kg	9							

WORKING RANGE



TECHNICAL SPECIFICATION NOTE:

- Operating speeds of the crane are guaranteed under the conditions that the pump delivery is 85L/min.
- 2. *No allowance included for boom deflection under loaded conditions.

WORKING RANGE NOTE:

Lifting heights and boom angles are based on a straight (unloaded) boom, and allowance should be made for boom deflection under loaded conditions.





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TRUCK LOADER CRANE

ZR820



RENEWAL 8.2 TON CRANE **TM-ZR820**

TM-ZR820 is renewed 8.2 ton class crane for any heavy duty lifting and transportation job.

Centralized Control Panel

Installed on both sides of the boom post is the centralized control panel where operating switches and performance chart needed for

crane operation are grouped together and arranged on a single panel each.



easy-to-handle operation including lever inching work and powerful accelerating operation, and it contributes the longer body space.



Operating Levers in Vertical Order

Crane operation levers are vertically arranged at comfortable height to ensure



Automatic Swing Lock System

The boom is locked securely to prevent accidental boom swing out during driving.



Three-Point Support System (Equalizer Crane Support)

The equalizer crane support system protects the chassis frame by evenly distributing the load applied to the frame during vehicle travel to prevent excessive stress concentration at any one point.

Strong Outriggers

The outriggers, with a maximum width of 3.9 m. have a secure hydraulic-powered extension system which substantially enhances crane performance.

The hydraulic-powered extension beams make your work easy and effective.

Tandem Hydraulic pumps

One pump is always distributing oil to SWING and the another for other 3 operation (boom elevation, boom telescoping, winch) for fast operation speed, and 2 pumps distribute all oil to other than SWING when you do not make SWING operation, for fast operation.

Table A										
TM-ZR823										
4.2m boom	10 2	nd I	0.05			_	0.5			0.5
Load Radius (m) Rated Lifting Capacity (kg)	1.8 ar 8,200	nd elow	6.000		900	_	3.5			.95 .750
6.86m boom	0,200	<u>'</u>	0,000	4,	900	4	+,200		٥,	730
Load Radius (m)	2.25 and below	3.1	3.5	4.0	4.	5	5.0	6.0)	6.61
Rated Lifting Capacity (kg)		4,900	4,200	3,700			,400	1,85	\rightarrow	1,600
9.5m boom	0,000	.,000	1,200	0,, 00		00 2	.,	1,00		.,00
Load Radius (m)	4.0 and below	4.5	5.0	6	6.0	7.0	Т	8.0	Т	9.25
Rated Lifting Capacity (kg)	3,000	2,750	2,40	0 1,	850	1,450	0 -	1,200	$^{+}$	1,000
TM-ZR824									_	
4.31m boom										
Load Radius (m)	1.8 ar	nd elow	2.25	1 3	3.1		3.5		4	.06
Rated Lifting Capacity (kg)	8,200		6,000		900		4,200			,650
7.19m boom			-,				,			,
Load Radius (m)	2.25and below	3.1	3.5	4.0	4.	5 5	5.0	6.0)	6.94
Rated Lifting Capacity (kg)	6,000	4,900	4,200	3,700	2,70	00 2,	350	1,80	0	1,450
10.05m boom										
Load Radius (m)	4.1 and below	5.0	6.0	7	'.0	8.0		9.0		9.8
Rated Lifting Capacity (kg)	3,000	2,350	1,80	0 1,4	400	1,150	0 1	1,000		850
12.91m boom										
Load Radius (m)	4.1 and below	5.0	6.0	7.0	8.0	9.0	10.0	0 1	1.0	12.6
Rated Lifting Capacity (kg)	3,000	2,350	1,800 1	,400 1	,150	1,000	850) 7	50	60
TM-ZR825										
4.4m boom										
Load Radius (m)	1.8 an	d	2.25	1 3	3.1		3.5		4	.15
Rated Lifting Capacity (kg)	8,200		6,000	4,	900	4	,200		3,	550
7.28m boom										
_oad Radius (m)	2.25and below	3.1	3.5	4.0	4.5	5 (5.0	6.0)	7.03
Rated Lifting Capacity (kg)	6,000	4,900	4,200	3,700	2,70	00 2,	,350	1,80	00	1,40
10.16m boom			•	•						
Load Radius (m)	4.0 and below	4.5	5.0	6.0	7.0	0 8	8.0	9.0)	9.9
Rated Lifting Capacity (kg)	3,000	2,650	2,300	1,700	1,30	00 1,	,050	850)	750
13.04m boom										
Load Radius (m)	4.0 and below	5.0	6.0 7.	_	_	0 10	.0 1	1.0 1	2.0	12.
Rated Lifting Capacity (kg)	3,000	2,300	1,700 1,3	00 1 0F	50 85	0 75	0 6	50	500	400
oad Radius (m)	4.7 and below		7.0 8.0	9.0	10.0	11.0 1		13.0	14.0	_
15.92m boom Load Radius (m) Rated Lifting Capacity (kg)				9.0	10.0	11.0 1				_
Load Radius (m) Rated Lifting Capacity (kg) Table D			7.0 8.0	9.0	10.0	11.0 1		13.0	14.0	_
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823			7.0 8.0	9.0	10.0	11.0 1		13.0	14.0	_
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom	2,600	1,7001,	7.0 8.0 300 1,050	9.0	10.0 750	11.0 1	500	13.0	14.0 350	25
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m)	2,600	1,7001,	7.0 8.0 300 1,050	9.0	10.0 750	111.0 1	3.5	13.0	14.0 350 3	.95
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg)	2,600	1,7001,	7.0 8.0 300 1,050	9.0	10.0 750	111.0 1	500	13.0	14.0 350 3	25
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m)	1.8 g 8,200	1,7001,	7.0 8.0 300 1,050	9.0	10.0 750	11.0 1	3.5	13.0	350	.95 750
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m)	1.8 and 8,200	1,700 1,	7.0 8.0 300 1,050 2.25 6,000	9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	10.0 750 3.1 900 4.3	11.0 1650 4	3.5 1,200	13.0 400	14.0 350 3 3,	.95 750
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom	1.8 and 8,200	1,700 1,	7.0 8.0 300 1,050 2.25 6,000	9.0 9.0 850	10.0 750 3.1 900 4.3	11.0 1650 4	3.5	13.0 400	14.0 350 3 3,	.95
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg)	1.8 gr 8,200 2.25 and 6,000	1,700 1, and selow 3.1 4,900	7.0 8.0 300 1,050 2.25 6,000	9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	10.0 750 3.1 900 4.4 3,30	11.0 1650 4	3.5 1,200 5.0	13.0 400	14.0 350 3 3,	.95 750 6.6° 2,00
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom	1.8 gr 8,200 2.25 and 6,000	1,700 l,	7.0 8.0 300 1,050 2.25 6,000 3.5 4,200	9.0 850 3 4,0 3,700	3.1 900 4.3 3,30	11.0 1 650 4	3.5 1,200 5.0 2,900	13.0 400 6.0 2,29	14.0 350 3 3,	.95 750 6.6 2,00
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) Rated Lifting Capacity (kg)	1.8 gr 8,200 2.25 and 6,000 4.5 and below	1,700 l,	7.0 8.0 300 1,050 2.25 6,000 3.5 4,200	9.0 850 3 4, 4.0 3,700	3.1 900 4.3 3,30	11.0 1 650 1 4 5 200 2	3.5 1,200 5.0 2,900	13.0 400 6.0 2,29	14.0 350 3 3,	.95 750 6.6 2,00
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR824	1.8 gr 8,200 2.25 and 6,000 4.5 and below	1,700 l,	7.0 8.0 300 1,050 2.25 6,000 3.5 4,200	9.0 850 3 4, 4.0 3,700	3.1 900 4.3 3,30	11.0 1 650 1 4 5 200 2	3.5 1,200 5.0 2,900	13.0 400 6.0 2,29	14.0 350 3 3,	.95 750 6.6 2,00
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 44.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR824 4.31mm boom	1.8 gr 8,200 2.25 and 6,000 4.5 and below 3,000	1,700 t,	7.0 8.0 300 1,050 2.25 6,000 3.5 4,200	9.0 850 3,700 6.0 2,250	10.0 750 3.1 900 4.5 3.30 1.5	11.0 1 650 4 5 200 2 7.0 850	3.5 1,200 5.0 2,900	13.0 400 6.0 2,29	350 3 3, 3 3,	95 750 6.66 2,000 9.25
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR824 4.31mm boom Load Radius (m)	2.25 and 6,000 4.5 and 3,000	3.1 4,900 2,0 3.1	7.0 8.0 300 1,050 2.25 6,000 3.5 4,200 6.0 900	9.0 850 3,700 6.0 2,250	10.0	4 4 4 77.0 8850	3.5 3.5 3.200 5.0 5.0 1,900	6.0 2,25 3.0 5550	350 350 3, 3, 0 50	9.25 9.25 9.25 1,300
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 1.5m boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR824 4.31mm boom Load Radius (m) Rated Lifting Capacity (kg)	2.25 and 6,000 4.5 and 3,000	3.1 4,900 2,0 3.1	7.0 8.0 300 1,050 2.25 6,000 3.5 4,200	9.0 850 3,700 6.0 2,250	10.0 750 3.1 900 4.5 3.30 1.5	4 4 4 77.0 8850	3.5 1,200 5.0 2,900	6.0 2,25 3.0 5550	350 350 3, 3, 0 50	95 750 6.66 2,000 9.25
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR824 4.31mm boom Load Radius (m) Rated Lifting Capacity (kg) Rated Lifting Capacity (kg) T.19m boom	2.600 1.8 and 8,200 2.25 and 6,000 4.5 and beld 3,000 1.8 a.200	3.1 4,900 bw 5 2,4	2.25 6,000 3.5 4,200 2.25 6,000	9.0 850 4, 4.0 3,700 6.0 2,250	10.0 750	111.0 1 6650 4 4 4 5 5 000 2	3.5 4,200 5.0 2,900 8 1,	6.0 2,23 3.0 5550	14.td 350 33, 3, 00 550	.06 ,650
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR824 4.31mm boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m)	2.55 and 6,000 4.5 and 5 below 8,200 1.8 a.200 2.25 and 8,200 2.25 and 9 below 9,000	1,700 1, 1,700 1, 3.1 4,900 2,4	2.25 6,000 3.5 4,200 2.25 6,000	9.0 9.0 9.0 850 4.0 3,700 6.0 22,250 4.4	3.1 9900 4.3 3.3 1 1,	111.0 11.0 1650 1	3.5 3.5 3.200 5.0 2.900 8 1,	6.0 6.0 6.0 6.0	14.1.350 3 3 3, 3 3, 5 5 0	.06 ,650 6.90 2.00
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) Rated Lifting Capacity (kg) TM-ZR824 4.31mm boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) Rated Lifting Capacity (kg) Rated Lifting Capacity (kg)	2.55 and 6,000 4.5 and 5 below 8,200 1.8 a.200 2.25 and 8,200 2.25 and 9 below 9,000	3.1 4,900 bw 5 2,4	2.25 6,000 3.5 4,200 2.25 6,000	9.0 9.0 9.0 850 4.0 3,700 6.0 22,250 4.4	33.1 9900 4.3,3(1 3,3(1 3,3(1 3,3(1 9900)	111.0 11.0 1650 1	3.5 4,200 5.0 2,900 8 1,	6.0 2,23 3.0 5550	14.1.350 3 3 3, 3 3, 5 5 0	.06 ,650 6.90 2.00
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR824 4.31mm boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m)	2.25 and 8,200 2.25 and 8,200 3,000 2.25 and 8,200	1,700 1, 1,700 1, 3.1 4,900 2,4	2.25 6,000 3.5 4,200 2.25 6,000	9.0 9.0 9.0 3.700 6.0 2.2,250 4.4 4.0 3.700	3.1 9900 4.3 3.3 1 1,	111.0 11.0 1650 1	3.5 4,200 5.0 2,900 1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	6.0 6.0 6.0 6.0	14.1.350 3 3 3, 3 3, 5 5 0	95 7750 6.6 2,00 9.25 1,30 6.9 1,80
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR824 4.31mm boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) Rated Lifting Capacity (kg) Rated Lifting Capacity (kg)	2.55 and 6,000 4.5 and 5 below 8,200 1.8 a.200 2.25 and 8,200 2.25 and 9 below 9,000	3.1 4,900 5 2,1 4,900 4,900	2.25 6,000 3.5 4,200 2.25 6,000	9.0 9.0 9.0 10 10 10 10 10 10 10 10 10 1	10.0 1750 3.3.1 9900 4.3.3.1 9900 0 4.0 0 3.3	44 44 45 55 850 850 28 850	3.5 3.5 3.200 5.0 2,900 1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	6.1 2,20 6.1 2,20 9.0	14.1.350 3 3 3, 3 3, 5 5 0	.95 750 6.6 2,00 9.25 1,30 .06 ,650 1,80
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 7.1m-ZR824 4.31mm boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR824 4.31mm boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 10.05m boom Load Radius (m) Rated Lifting Capacity (kg)	2.25 and 6,000 1.8 as 200 2.25 and 6,000 4.5 and 8,200 2.25 and 6,000 4.5 and 6,000 4.5 and 6,000	3.1 4,900 2,1 4,900 5.0	2.25 6,000 3.5 4,200 2.25 6,000	9.0 9.0 9.0 10 10 10 10 10 10 10 10 10 1	10.0 1750	111.0 11.0 1650 1	3.5 3.5 3.200 5.0 2,900 1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	6.0 6.0 6.1 6.2,20 6.1 6.2,20	14.1.350 3 3 3, 3 3, 5 5 0	.95 750 6.6 2,00 9.25 1,30 .06 ,650 1,80
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR824 4.31mm boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 10.05m boom Load Radius (m) Rated Lifting Capacity (kg) 10.05m boom Load Radius (m) Rated Lifting Capacity (kg)	2.600 1.8 and 8,200 2.25 and 6,000 4.5 and 8,200 2.25 and 6,000 4.5 and 8,200 4.5 and 6,000 4.5 and 6,000 4.5 and 6,000	3.1 4,900 2,1 4,900 5.0	2.25 6,000 3.5 4,200 2.25 6,000	9.0 9.0 9.0 10 10 10 10 10 10 10 10 10 1	10.0 1750	44 44 45 55 850 850 28 850	3.5 3.5 3.200 5.0 2,900 1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	6.0 2,29 6.1 3.0 6.1 2,20 9.0 9.0	14.1.350 3 3 3, 3 3, 5 5 0	95 750 6.6 2,00 9.25 1,30 6.50 6.9 1,80
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR824 4.31mm boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 10.05m boom Load Radius (m) Rated Lifting Capacity (kg) 10.05m boom Load Radius (m) Rated Lifting Capacity (kg)	2.25 and 6,000 1.8 as 200 2.25 and 6,000 4.5 and 8,200 2.25 and 6,000 4.5 and 6,000 4.5 and 6,000	3.1 4,900 2,900 2,900	2.25 6,000 3.5 4,200 2.25 6,000 3.5 4,200 6.00 2.25 6,000	9.0 9.0 850 4.0 4.0 3.700 6.0 4.1 4.0 3.700 1.1 7.0	10.0 10.0 750 10.	111.0 1 650 4 4 4 5 5 00 2 7.0 8850 2 8.0 1,55	3.5 3.5 3.200 5.0 7.900 8 1, 3.5 1, 3.5 4,200	13.0 400 6.0 2,20 3.0 5.550 9.0 1,350 0 1	33 3, 3, 0 50 4 3	95 750 6.6 2,00 9.25 1,30 6.50 6.9 1,80 9.8 1,20
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR824 4.31mm boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR824 1.31mm boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 10.05m boom Load Radius (m) Rated Lifting Capacity (kg) 12.91m boom Load Radius (m) Rated Lifting Capacity (kg) 12.91m boom Load Radius (m) Rated Lifting Capacity (kg) Rated Lifting Capacity (kg)	2.600 1.8 and 8,200 2.25 and 6,000 4.5 and 8,200 2.25 and 6,000 4.5 and 8,200 4.5 and 8,200 4.5 and 9,000	3.1 4,900 2,900 5.0	2.25 6,000 3.5 4,200 2.25 6,000 3.5 4,200 6.00 2.25 6,000	9.0 9.0 850 4.0 4.0 3.700 6.0 4.1 4.0 3.700 1.1 7.0	10.0 10.0	111.0 1 650 4 4 4 5 00 2 7.0 2 8.0 1,55	3.5 3.5 3.200 5.0 7.900 8 1, 3.5 1, 3.5 4,200	13.0 400 6.0 2,20 3.0 5.550 9.0 1,350 0 1	350 33333333333333333333333333333333333	95 750 6.6 2,00 9.25 1,30 6.50 6.9 1,80 9.8 1,20
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 7.1m boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 10.05m boom Load Radius (m) Rated Lifting Capacity (kg) 11.91m boom Load Radius (m) Rated Lifting Capacity (kg) 12.91m boom Load Radius (m) Rated Lifting Capacity (kg) 12.91m boom Load Radius (m) Rated Lifting Capacity (kg)	2.600 1.8 and 8,200 2.25 and 6,000 4.5 and 8,200 2.25 and 6,000 4.5 and 8,200 4.5 and 8,200 4.5 and 9,000	3.1 4,900 2,900 5.0	2.25 6,000 3.5 4,200 2.25 6,000 3.5 4,200 6.00 2.25 6,000	9.0 9.0 850 4.0 4.0 3.700 6.0 4.1 4.0 3.700 1.1 7.0	10.0 10.0	111.0 1 650 4 4 4 5 00 2 7.0 2 8.0 1,55	3.5 3.5 3.200 5.0 7.900 8 1, 3.5 1, 3.5 4,200	13.0 400 6.0 2,20 3.0 5.550 9.0 1,350 0 1	350 33333333333333333333333333333333333	9.25 9.25 750 6.6 2,00 9.25 1,300 9.25 1,300 9.25 1,300 1,800 9.8 1,200
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 10.05m boom Load Radius (m) Rated Lifting Capacity (kg) 12.91m boom Load Radius (m) Rated Lifting Capacity (kg) 12.91m boom Load Radius (m) Rated Lifting Capacity (kg) 12.91m boom Load Radius (m) Rated Lifting Capacity (kg)	2.600 1.8 and below a pelow a	3.1 4,900 3.1 4,900 5.0 2,900 5.0 2,650	2.25 6,000 3.5 4,200 5.0 900 2.25 6,000 6.0 0 2,200 6.0 2,200	9.0 9.0 850 4.0 3.700 6.0 4.0 2.2,250 4.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	10.0 10.0	111.0 1 650 4 4 4 5 00 2 7.0 2 8.0 1,55	3.5 3.5 3.5 3.900 5.0 9,900 5.0 5.0 5.0 5.0 5.0 1,1	13.0 400 6.0 2,20 3.0 5.550 9.0 1,350 0 1	3 3 3, 3, 0 50 4 3 0 0 0 0 50	9.25 750 6.6 2,00 9.25 1,30 6.9 1,80 9.8 1,20
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR824 4.31mm boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 10.05m boom Load Radius (m) Rated Lifting Capacity (kg) 12.91m boom Load Radius (m) Rated Lifting Capacity (kg) 12.91m boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR825 4.4m boom Load Radius (m)	2.25 and 8.200 2.25 and 8.200 4.5 and 6.000 4.5 and 6.000 4.5 and 8.200 4.5 and 3.000	3.1 4,900 3.1 4,900 5.0 2,850	2.25 6,000 3.5 4,200 2.25 6,000 3.5 4,200 6.0 2.25 6,000	9.0 9.0 9.0 9.0 9.0 4.0 3,700 6.0 2,250 4, 4.0 3,700 1,800	10.0 1.50 1.	111.0 1 650 4 4 4 5 5 7.0 850 1 8.0 2 8.0 1,55 9.0 1,300 1,300 1	3.5 3.5 3.900 5.0 2,900 1, 3.5 4,200 5.0 2,900 1,10 1,10	6.0 2,20 3.0 550 9.0 0 1,350	14.0 350 33, 33, 33, 33, 30, 500 11.0 50	9.25 1,300 9.25 1,300 9.25 1,300 1,200 12.6 700
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR824 4.31mm boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 10.05m boom Load Radius (m) Rated Lifting Capacity (kg) 12.91m boom Load Radius (m) Rated Lifting Capacity (kg) 12.91m boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR825 4.4m boom Load Radius (m) Rated Lifting Capacity (kg)	2.25 and 8.200 2.25 and 8.200 4.5 and 6.000 4.5 and 6.000 4.5 and 8.200 4.5 and 3.000	3.1 4,900 3.1 4,900 5.0 2,850	2.25 6,000 3.5 4,200 5.0 900 2.25 6,000 6.0 0 2,200 6.0 2,200	9.0 9.0 9.0 9.0 9.0 4.0 3,700 6.0 2,250 4, 4.0 3,700 1,800	10.0 10.0	111.0 1 650 4 4 4 5 5 7.0 850 1 8.0 2 8.0 1,55 9.0 1,300 1,300 1	3.5 3.5 3.5 3.900 5.0 9,900 5.0 5.0 5.0 5.0 5.0 1,1	6.0 2,20 3.0 550 9.0 0 1,350	14.0 350 33, 33, 33, 33, 30, 500 11.0 50	9.25 750 6.6 2,00 9.25 1,30 6.9 1,80 9.8 1,20
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 7.5m boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR824 4.31mm boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 10.05m boom Load Radius (m) Rated Lifting Capacity (kg) 11.91m boom Load Radius (m) Rated Lifting Capacity (kg) 12.91m boom Load Radius (m) Rated Lifting Capacity (kg) 14.91m boom Load Radius (m) Rated Lifting Capacity (kg) 15.91m boom Load Radius (m) Rated Lifting Capacity (kg) 16.92m boom Load Radius (m) Rated Lifting Capacity (kg) 17.28m boom Rated Lifting Capacity (kg) 17.28m boom	2.25 and below 3,000 1.8 about 3,000	3.1 4,900 2,900 5.0 2,650	7.0 8.0 300 1,050 2.25 6,000 3.5 4,200 6.0 900 3.5 0 4,200 6.0 0 2,20 2.25 6,000	9.0 9.0 850 4, 4.0 3,700 6.0 2,250 4, 1,00 1,00 	10.0 1750 1 1 1 1 1 1 1 1 1	111.0 1 650 1 4 4 4 4 4 4 4 4 650 1 5 7.0 850 1 1,55 9.0 1,300 1,300 1,300 1,300 1	3.5 ,200 5.0 5.0 1,,900 5.0 2,900 10. 1,10	13.0 400 6.1 2,23 3.0 5550 9.0 1,350 0 1 00 9	14.0 350 33, 3, 0, 50 1.0 50	95 750 6.6 2,000 9.25 1,300 6.9 1,800 9.8 1,200 12.6 700
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 7.5m boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR824 4.31mm boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 10.05m boom Load Radius (m) Rated Lifting Capacity (kg) 12.91m boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR825 4.4m boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR825 4.4m boom Load Radius (m) Rated Lifting Capacity (kg) 7.28m boom Load Radius (m)	2.25 and 6,000 1.8 about 6,000 1.8 about 6,000 1.8 about 6,000 2.25 and 6,000 4.5 and 6,000 2.25 and 6,000	3.1 4,900 5.0 2,900 5.0 2,650	2.25 6,000 3.5 4,200 2.25 6,000 2.25 6,000 6.0 2,200 2.25 6,000	3,700 6.0 22,250 3,700 1,800 1,4.0 4.0 3,700 1,4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	10.0 1750	11.0 1 650 1 650 2 4 4 4 4 4 4 4 4 7.00 2 8.00 2 8.00 1,55	3.5 3.5 3.5 3.5 3.5 4,200 5.0 5.0 5.0 5.0 1,10 110 1,10 3.5 4,200 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	13.0 400 6.6.6.2 2,28 9.0 1,350 0 1 0 9	14.0 350 33, 3, 0, 50 1.0 50	95 750 6.6 2,00 9.25 1,30 06 ,650 9.8 1,20 70 70
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 10.5m boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR824 4.31mm boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 10.05m boom Load Radius (m) Rated Lifting Capacity (kg) 12.91m boom Load Radius (m) Rated Lifting Capacity (kg) 12.91m boom Load Radius (m) Rated Lifting Capacity (kg) TM-ZR825 4.4m boom Load Radius (m) Rated Lifting Capacity (kg) 7.28m boom Load Radius (m) Rated Lifting Capacity (kg) 7.28m boom Load Radius (m) Rated Lifting Capacity (kg) Rated Lifting Capacity (kg)	2.25 and 6,000 1.8 about 6,000 1.8 about 6,000 1.8 about 6,000 2.25 and 6,000 4.5 and 6,000 2.25 and 6,000	3.1 4,900 2,900 5.0 2,650	2.25 6,000 3.5 4,200 2.25 6,000 2.25 6,000 6.0 2,200 2.25 6,000	9.0 9.0 850 4, 4.0 3,700 6.0 2,250 4, 1,00 1,00 	10.0 1750	11.0 1 650 1 650 2 4 4 4 4 4 4 4 4 7.00 2 8.00 2 8.00 1,55	3.5 ,200 5.0 5.0 1,,900 5.0 2,900 10. 1,10	13.0 400 6.1 2,23 3.0 5550 9.0 1,350 0 1 00 9	14.0 350 33, 3, 0, 50 1.0 50	95 750 6.6 2,00 9.25 1,300 6.9 1,80 9.8 1,200 7.00 7.00
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 10.05m boom Load Radius (m) Rated Lifting Capacity (kg) 12.91m boom Load Radius (m) Rated Lifting Capacity (kg) 17.97m boom Load Radius (m) Rated Lifting Capacity (kg) 17.97m boom Load Radius (m) Rated Lifting Capacity (kg) 17.28m boom Load Radius (m) Rated Lifting Capacity (kg) 7.28m boom Load Radius (m) Rated Lifting Capacity (kg) 7.28m boom Load Radius (m) Rated Lifting Capacity (kg) 7.28m boom Load Radius (m) Rated Lifting Capacity (kg) 10.16m boom	2.600 1.8 and below 6,000 1.8 and below 6,000 1.8 and below 6,000 1.8 and below 6,000 1.8 and below 3,000 1.8 and below 6,000 2.25 and below 3,000 2.25 and below 6,000 2.25 and below 6,000 2.25 and below 6,000	3.1 4,900 5.0 2,900 4,900	2.25 6,000 3.5 4,200 2.25 6,000 3.5 0 4,200 2.25 6,000 2,200 2.25 6,000 3.5 4,200 3.5 4 5 4,200 3.5 4 5 5 5 5 5 5 5 5 5 6 5 6 5 6 7 6 7 6 7 7 7 7	9.0 9.0 1.0	10.0 1750 10.0 1750 10.0 1750 10.0 1750 10.0 1750 10.0 1750	111.0 1 650 4 4 4 5 5 7.0 8.0 1,55 9.0 1,300 1,55 1,300 2	3.5 3.5 3.5 3.5 4,200 5.0 5.0 5.0 5.0 5.0 1,10 3.5 4,200 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	13.0 400 6.1 2,20 3.0 5.50 9.0 9.0 0 1 1,350 0 1 0 9	14.0 350 33, 3, 0, 50 1.0 50	9.25 9.25 7.50 6.6 2,00 9.25 1,30 6.6 6.50 9.8 1,20 12.6 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 44.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 10.05m boom Load Radius (m) Rated Lifting Capacity (kg) 12.91m boom Load Radius (m) Rated Lifting Capacity (kg) 17.9m boom Load Radius (m) Rated Lifting Capacity (kg) 17.9m boom Load Radius (m) Rated Lifting Capacity (kg) 7.29m boom Load Radius (m) Rated Lifting Capacity (kg) 7.28m boom Load Radius (m) Rated Lifting Capacity (kg) Rated Lifting Capacity (kg) Rated Lifting Capacity (kg) Rated Lifting Capacity (kg) 10.16m boom Load Radius (m) Rated Lifting Capacity (kg) 10.16m boom Load Radius (m)	2.25 and 8.200 1.8 and 8.200	3.1 4,900 3.1 4,900 5.0 2,900 3.1 4,900 4,900	2.25 6,000 3.5 4,200 2.25 6,000 3.5 0 4,200 2.25 6,000 2.25 6,000 2.25 6,000 3.5 0 4,200 2,200 3.5 4,200	9.0 9.0 1.0	10.0 10.0 1750 10.0 1750 10.0 1750 10.0 1750 10.0 1750 10.0 1750 10.0 1750 10.0 1750 10.0 1750 10.0 1750 10.0 1750 10.0 1750 10.0 1750 17	111.0 1 650 4 4 4 4 4 5 7.0 8850 1 8.0 1,55 9.0 1,300 1,	3.5 4,200 5.0 2,900 5.0 2,900 5.0 2,900 10.1 1,10 3.5 4,200 5.0 2,900	13.0 400 6.1 2,20 9.0 9.0 0 1,350 0 1,350 0 2,20 9.0	14.1.0 350 33, 33, 33, 30, 500 11.0 50	9.25 1,300 9.25 1,300 9.25 1,300 12.6 7.00 12.6 7.00 1,700 9.9
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 10.05m boom Load Radius (m) Rated Lifting Capacity (kg) 12.91m boom Load Radius (m) Rated Lifting Capacity (kg) 7.29m boom Load Radius (m) Rated Lifting Capacity (kg) 7.28m boom Load Radius (m) Rated Lifting Capacity (kg) 7.28m boom Load Radius (m) Rated Lifting Capacity (kg) 7.28m boom Load Radius (m) Rated Lifting Capacity (kg) 10.16m boom Load Radius (m) Rated Lifting Capacity (kg) 10.16m boom Load Radius (m) Rated Lifting Capacity (kg)	2.600 1.8 and below 6,000 1.8 and below 6,000 1.8 and below 6,000 1.8 and below 6,000 1.8 and below 3,000 1.8 and below 6,000 2.25 and below 3,000 2.25 and below 6,000 2.25 and below 6,000 2.25 and below 6,000	3.1 4,900 5.0 2,900 4,900	2.25 6,000 3.5 4,200 2.25 6,000 3.5 0 4,200 2.25 6,000 2.25 6,000 2.25 6,000 3.5 0 4,200 2,200 3.5 4,200	9.0 9.0 1.0	10.0 1750 10.0 1750 10.0 1750 10.0 1750 10.0 1750 10.0 1750	111.0 1 650 4 4 4 5 5 7.0 8.0 1,55 9.0 1,300 1,55 1,300 2	3.5 4,200 5.0 2,900 5.0 2,900 5.0 2,900 10.1 1,10 3.5 4,200 5.0 2,900	13.0 400 6.1 2,20 3.0 5.50 9.0 9.0 0 1 1,350 0 1 0 9	14.1.0 350 33, 33, 33, 30, 500 11.0 50	9.25 1,300 9.25 1,300 9.25 1,300 12.6 7.00 12.6 7.00 1,700 9.9
Load Radius (m) Rated Lifting Capacity (kg) Table D TM-ZR823 4.2m boom Load Radius (m) Rated Lifting Capacity (kg) 6.86m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 9.5m boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 7.19m boom Load Radius (m) Rated Lifting Capacity (kg) 10.05m boom Load Radius (m) Rated Lifting Capacity (kg) 12.91m boom Load Radius (m) Rated Lifting Capacity (kg) 17.97m boom Load Radius (m) Rated Lifting Capacity (kg) 17.97m boom Load Radius (m) Rated Lifting Capacity (kg) 17.28m boom Load Radius (m) Rated Lifting Capacity (kg) 7.28m boom Load Radius (m) Rated Lifting Capacity (kg) 7.28m boom Load Radius (m) Rated Lifting Capacity (kg) 7.28m boom Load Radius (m) Rated Lifting Capacity (kg) 10.16m boom	2.25 and 8.200 1.8 and 8.200	3.1 4,900 5.0 2,900 5.0 1,900 1,700	2.25 6,000 3.5 4,200 2.25 6,000 3.5 0 4,200 2.25 6,000 2.25 6,000 2.25 6,000 3.5 0 4,200 2,200 3.5 4,200	3,700 6.0 2,2,250 3,700 1,	10.0 1750	111.0 1 650 1 650 1 4 4 4 4 4 4 4 1 650 1 8.0 2 8.0 1,350 1,300 1,350 1,300 1,35	3.5 ,200 5.0 ,,900 1,,900 5.0 2,900 10,110 3.5 4,200 5.0 2,900	13.0 400 6.1 2,20 9.0 1,350 9.0 1,350 9.0 1,100 9.0 1,100	14.1.0 350 33, 33, 33, 30, 500 11.0 50	95 750 6.6 2,00 9.25 1,300 6.9 1,80 9.8 1,200 7.00 7.00 9.9 9.5 7.00 9.9 9.5

RATED LIFTING CAPACITIES NOTE:

15.92m boom

Load Radius (m)

The mass of hook (90kg), slings and all similarly used load handling devices must be added to the mass of the load

Rated Lifting Capacity (kg) 2,600 2,000 1,650 1,350 1,100 950 850 700 600 500 400

5.0 and 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.67