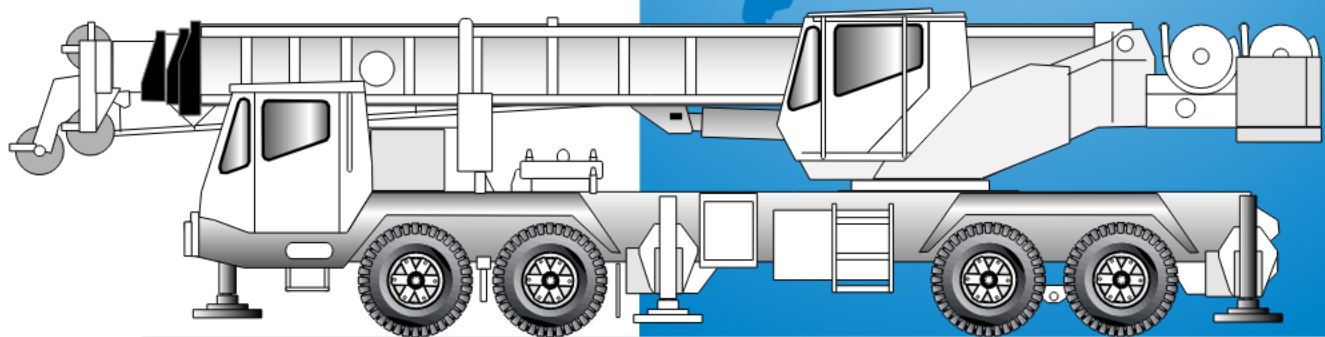
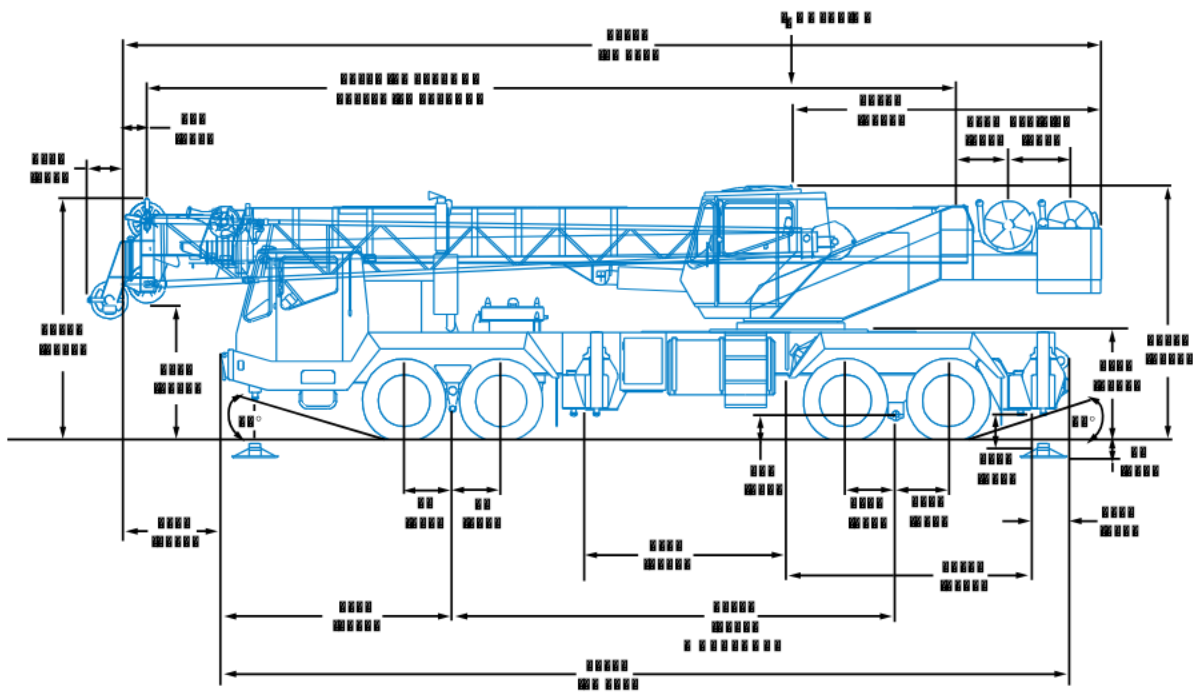
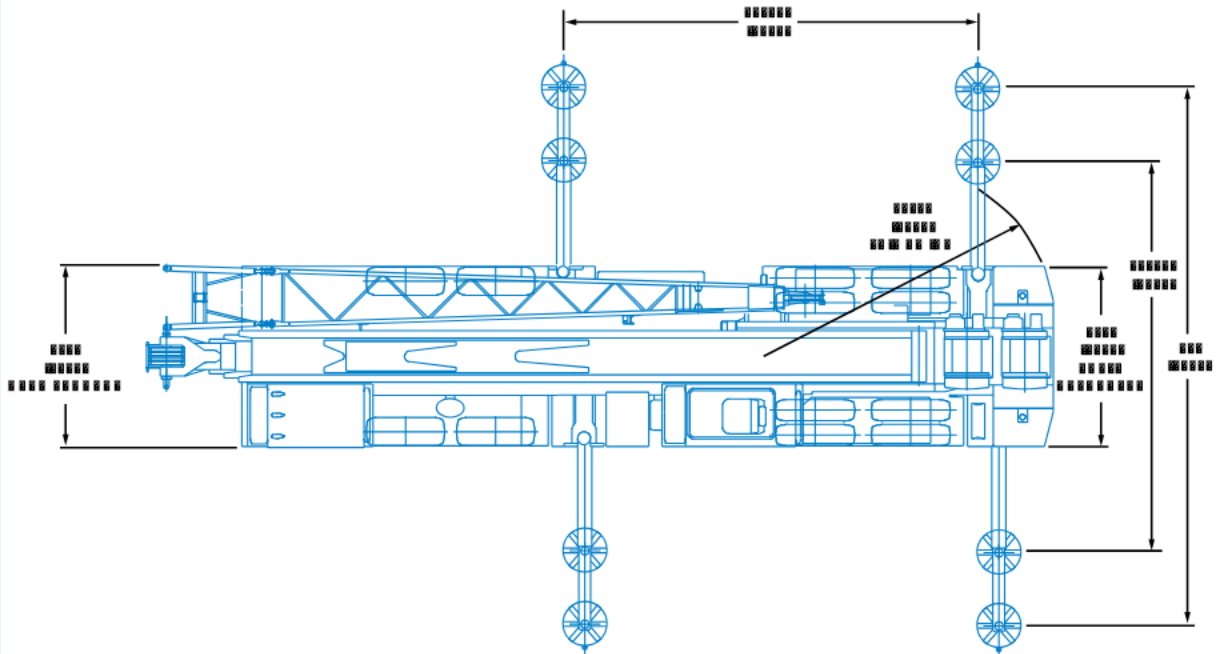


TMS640

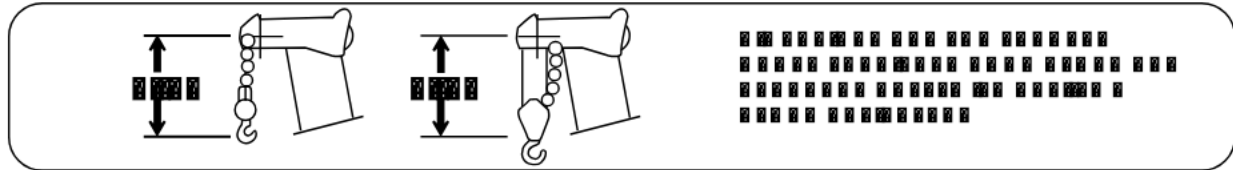
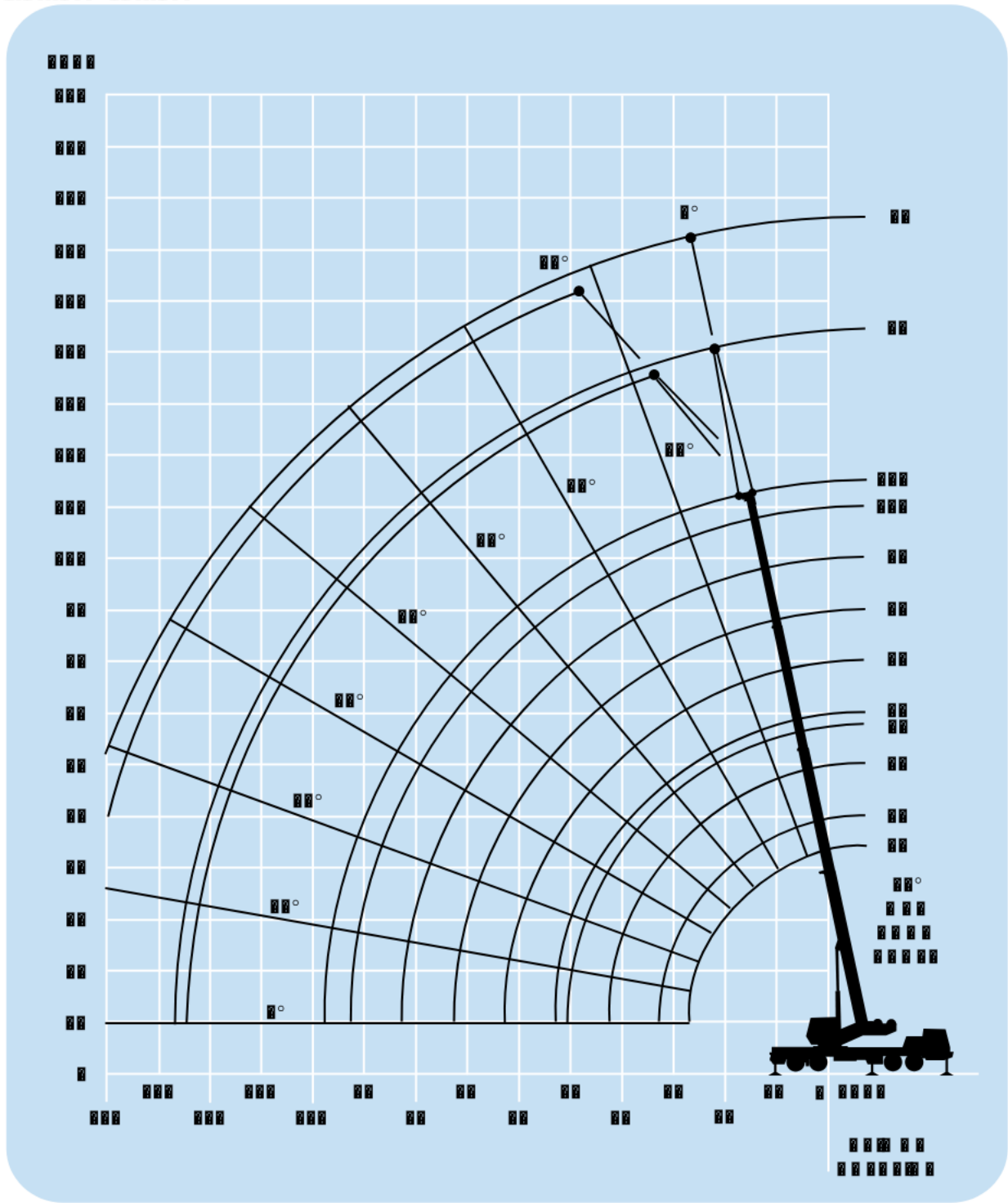


Carrier-Mounted Hydraulic Crane

Dimensions



Working Range



Superstructure specifications



34 ft. - 105 ft. (10.4 m - 32 m) four-section full power boom.
Maximum tip height: 112 ft. (34.0 m)



29 ft. to 51 ft. (8.8 m to 15.5 m) telescopic lattice swingaway extension offsettable at 0° and 30°. Stows alongside base boom section.
Maximum tip height: 163 ft. (49.7 m)



29 ft. (8.8 m) lattice swingaway boom extension offsettable at 0° and 30°. Stows alongside base boom section.
Maximum tip height: 141 ft. (42.9 m)



Three sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Quick reeve boom nose. *Optional removable auxiliary boom nose with removable pin type rope guard.



One double acting hydraulic cylinder with integral holding valve provides elevation from -1° to 78°.



Standard load moment and anti-two block system with audio-visual warning and control lever lock-out. These systems provide electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load and warning of impending two-block conditions.



Full vision, all steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe seat incorporates armrest mounted hydraulic single axis controls. Dash panel incorporates gauges for all engine functions. Other standard features include: sliding side and rear windows, electric windshield wash-wipe, circulating air fan, opening skylight with electric skylight wiper, swing horn, fire extinguisher and seat belt.



Planetary swing with foot applied multi-disc wet brake. Spring applied, hydraulically released parking brake and plunger type, mechanical house lock, operated from cab.
Maximum speed: 2.5 RPM.



Integral with superstructure, plus one hydraulically removable section @ 3,900 lbs. (1769 kg) pinned to turntable.



6 section with a combined capacity of 201 G.P.M. (762 LPM) driven by carrier engine through P.T.O. Standard pump disconnect for travel.

Three individual valve banks.

Return line type filter with full flow by-pass protection and service indicator. Replaceable cartridge with micron filtration rating of 5/12/16.

195 gallon (738 L) reservoir.

Remote-mounted oil cooler with thermostatically controlled electric motor driven fan.



Planetary reduction with automatic spring applied multi-disc brake. Power up and down equal speed. Grooved drum. Electronic hoist drum rotation indicator.

	High Range	Low Range
Maximum Single Line Speed: (1st Layer)	347 FPM (105 m/min)	161 FPM (49 m/min)
(2nd Layer)	378 FPM (115 m/min)	175 FPM (53 m/min)
(3rd Layer)	408 FPM (124 m/min)	189 FPM (57 m/min)
(4th Layer)	439 FPM (133 m/min)	203 FPM (61 m/min)
(5th Layer)	469 FPM (142 m/min)	217 FPM (66 m/min)
Maximum Single Line Pull: (1st Layer)	8,254 lbs. (3744 kg)	16,508 lbs. (7488 kg)
(2nd layer)	7,587 lbs. (3441 kg)	15,173 lbs. (6882 kg)
(3rd layer)	7,019 lbs. (3183 kg)	14,038 lbs. (6367 kg)
(4th layer)	6,530 lbs. (2962 kg)	13,061 lbs. (5924 kg)
(5th layer)	6,105 lbs. (2769 kg)	12,211 lbs. (5538 kg)

Maximum Permissible Line Pull w/5:1 Wire Rope Strength Factor: 12,920 lbs. (5860 kg)

Maximum Rope Stowage: 694 ft. (211 m) 3/4 in. (19 mm)
Note: 450 ft. (137 m) length wire rope supplied with basic standard unit.

**Denotes optional equipment*

Carrier specifications



Box section frame fabricated from high strength alloy steel. Integral outrigger housings and front/rear lifting, towing and tie down lugs.



Hydraulic single stage, double box beam outriggers with inverted jack and integral holding valves. Three position setting. All steel fabricated, quick release type outrigger floats, 24 in. (610 mm) in diameter. Maximum outrigger pad load: 67,592 lbs. (30 659 kg).



Controls and crane level indicator located in superstructure cab.



Cummins 6CTA8.3, six cylinder, turbocharged and after cooled diesel, 505 cu. in. (8.3 L), 250 bhp (186 kW) (gross) @ 2,400 RPM. Maximum torque: 660 ft. lbs. (895 Nm) @ 1,300 RPM.



100 gallons (376 L).



Two 12 V - maintenance free batteries. 12 V lighting and 12 V starting.



8 x 4



Front axles, mechanical with hydraulic power assist controlled by steering wheel.



Roadranger 13 speeds forward and 3 reverse.



Front: (2) beam type steering axles, 82 in. (2.08 m) track.

Rear: (2) single reduction drive, 72.1 in. (1.83 m) track. Inter-axle differential lock.



Dual line air system operating on all wheels. Spring-applied, air released. Parking brake acting on rear axles. Air dryer standard.



Front: 425/65R22.5 radial highway tread tubeless singles.

Rear: 11:00 x 20-14PR highway tread tube type duals.



Front: Spring mounted tandem.

Rear: Solid mount tandem with equalizing beam and solid steel saddles.



Full lighting package including turn indicators, head and tail lights, brake and hazard warning lights.



One man design, all steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe fabric covered, fully adjustable seat. Complete driving controls and engine instrumentation, including tilt telescope steering wheel, tachometer, speedometer, voltmeter, water temp., oil pressure, fuel level, dual air pressure gauges with A/V warning, engine high temp./low oil pressure A/V warning. Other standard items include hot water heater/defroster, electric windshield wash/wipe, fire extinguisher, seat belt, door and window locks.



50 mph (80 kph)



40% (Based on 72,000 lbs. [32 659 kg] GVW)



Basic unit 72,225 lbs. (32 761 kg).



Full width aluminum fenders, dual rear view mirrors, electronic back-up alarm, sling/tool box, pump disconnect, tire inflation kit, air cleaner restriction indicator, block and ball stowage, and chrome muffler guard.



- * Auxiliary hoist
- * Amber flashing light
- * Cab spotlight
- * Engine block heater
- * Hookblocks
- * Pintle hook-rear
- * 360° position positive houseslock
- * Exhaust brake
- * Dual axis controls
- * Outrigger controls on chassis
- * Air/electric connections for trailing boom
- * 12.00R20 tube-type and 12R22.5 tubeless rear tires

**Denotes optional equipment*

[illegible][illegible]

2 2 22 3 2 22 3 3 3 3



1111 1111 111111 11111111

[illegible]

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.



Section A: Overview		Section B: Details		Section C: Analysis		Section D: Summary		Section E: Conclusions		Section F: Recommendations		Section G: Final Remarks	
Item 1	Category 1	Sub-category 1.1	Sub-category 1.2	Sub-category 1.3	Sub-category 1.4	Sub-category 1.5	Item 2	Category 2	Sub-category 2.1	Sub-category 2.2	Sub-category 2.3	Sub-category 2.4	Sub-category 2.5
	Category 1	Sub-category 1.1	Sub-category 1.2	Sub-category 1.3	Sub-category 1.4	Sub-category 1.5							
Item 3	Category 3	Sub-category 3.1	Sub-category 3.2	Sub-category 3.3	Sub-category 3.4	Sub-category 3.5	Item 4	Category 4	Sub-category 4.1	Sub-category 4.2	Sub-category 4.3	Sub-category 4.4	Sub-category 4.5
Item 5	Category 5	Sub-category 5.1	Sub-category 5.2	Sub-category 5.3	Sub-category 5.4	Sub-category 5.5	Item 6	Category 6	Sub-category 6.1	Sub-category 6.2	Sub-category 6.3	Sub-category 6.4	Sub-category 6.5
Item 7	Category 7	Sub-category 7.1	Sub-category 7.2	Sub-category 7.3	Sub-category 7.4	Sub-category 7.5	Item 8	Category 8	Sub-category 8.1	Sub-category 8.2	Sub-category 8.3	Sub-category 8.4	Sub-category 8.5
Item 9	Category 9	Sub-category 9.1	Sub-category 9.2	Sub-category 9.3	Sub-category 9.4	Sub-category 9.5	Item 10	Category 10	Sub-category 10.1	Sub-category 10.2	Sub-category 10.3	Sub-category 10.4	Sub-category 10.5
Item 11	Category 11	Sub-category 11.1	Sub-category 11.2	Sub-category 11.3	Sub-category 11.4	Sub-category 11.5	Item 12	Category 12	Sub-category 12.1	Sub-category 12.2	Sub-category 12.3	Sub-category 12.4	Sub-category 12.5
Item 13	Category 13	Sub-category 13.1	Sub-category 13.2	Sub-category 13.3	Sub-category 13.4	Sub-category 13.5	Item 14	Category 14	Sub-category 14.1	Sub-category 14.2	Sub-category 14.3	Sub-category 14.4	Sub-category 14.5
Item 15	Category 15	Sub-category 15.1	Sub-category 15.2	Sub-category 15.3	Sub-category 15.4	Sub-category 15.5	Item 16	Category 16	Sub-category 16.1	Sub-category 16.2	Sub-category 16.3	Sub-category 16.4	Sub-category 16.5
Item 17	Category 17	Sub-category 17.1	Sub-category 17.2	Sub-category 17.3	Sub-category 17.4	Sub-category 17.5	Item 18	Category 18	Sub-category 18.1	Sub-category 18.2	Sub-category 18.3	Sub-category 18.4	Sub-category 18.5
Item 19	Category 19	Sub-category 19.1	Sub-category 19.2	Sub-category 19.3	Sub-category 19.4	Sub-category 19.5	Item 20	Category 20	Sub-category 20.1	Sub-category 20.2	Sub-category 20.3	Sub-category 20.4	Sub-category 20.5
Item 21	Category 21	Sub-category 21.1	Sub-category 21.2	Sub-category 21.3	Sub-category 21.4	Sub-category 21.5	Item 22	Category 22	Sub-category 22.1	Sub-category 22.2	Sub-category 22.3	Sub-category 22.4	Sub-category 22.5
Item 23	Category 23	Sub-category 23.1	Sub-category 23.2	Sub-category 23.3	Sub-category 23.4	Sub-category 23.5	Item 24	Category 24	Sub-category 24.1	Sub-category 24.2	Sub-category 24.3	Sub-category 24.4	Sub-category 24.5
Item 25	Category 25	Sub-category 25.1	Sub-category 25.2	Sub-category 25.3	Sub-category 25.4	Sub-category 25.5	Item 26	Category 26	Sub-category 26.1	Sub-category 26.2	Sub-category 26.3	Sub-category 26.4	Sub-category 26.5
Item 27	Category 27	Sub-category 27.1	Sub-category 27.2	Sub-category 27.3	Sub-category 27.4	Sub-category 27.5	Item 28	Category 28	Sub-category 28.1	Sub-category 28.2	Sub-category 28.3	Sub-category 28.4	Sub-category 28.5
Item 29	Category 29	Sub-category 29.1	Sub-category 29.2	Sub-category 29.3	Sub-category 29.4	Sub-category 29.5	Item 30	Category 30	Sub-category 30.1	Sub-category 30.2	Sub-category 30.3	Sub-category 30.4	Sub-category 30.5
Item 31	Category 31	Sub-category 31.1	Sub-category 31.2	Sub-category 31.3	Sub-category 31.4	Sub-category 31.5	Item 32	Category 32	Sub-category 32.1	Sub-category 32.2	Sub-category 32.3	Sub-category 32.4	Sub-category 32.5
Item 33	Category 33	Sub-category 33.1	Sub-category 33.2	Sub-category 33.3	Sub-category 33.4	Sub-category 33.5	Item 34	Category 34	Sub-category 34.1	Sub-category 34.2	Sub-category 34.3	Sub-category 34.4	Sub-category 34.5
Item 35	Category 35	Sub-category 35.1	Sub-category 35.2	Sub-category 35.3	Sub-category 35.4	Sub-category 35.5	Item 36	Category 36	Sub-category 36.1	Sub-category 36.2	Sub-category 36.3	Sub-category 36.4	Sub-category 36.5
Item 37	Category 37	Sub-category 37.1	Sub-category 37.2	Sub-category 37.3	Sub-category 37.4	Sub-category 37.5	Item 38	Category 38	Sub-category 38.1	Sub-category 38.2	Sub-category 38.3	Sub-category 38.4	Sub-category 38.5
Item 39	Category 39	Sub-category 39.1	Sub-category 39.2	Sub-category 39.3	Sub-category 39.4	Sub-category 39.5	Item 40	Category 40	Sub-category 40.1	Sub-category 40.2	Sub-category 40.3	Sub-category 40.4	Sub-category 40.5
Item 41	Category 41	Sub-category 41.1	Sub-category 41.2	Sub-category 41.3	Sub-category 41.4	Sub-category 41.5	Item 42	Category 42	Sub-category 42.1	Sub-category 42.2	Sub-category 42.3	Sub-category 42.4	Sub-category 42.5
Item 43	Category 43	Sub-category 43.1	Sub-category 43.2	Sub-category 43.3	Sub-category 43.4	Sub-category 43.5	Item 44	Category 44	Sub-category 44.1	Sub-category 44.2	Sub-category 44.3	Sub-category 44.4	Sub-category 44.5
Item 45	Category 45	Sub-category 45.1	Sub-category 45.2	Sub-category 45.3	Sub-category 45.4	Sub-category 45.5	Item 46	Category 46	Sub-category 46.1	Sub-category 46.2	Sub-category 46.3	Sub-category 46.4	Sub-category 46.5
Item 47	Category 47	Sub-category 47.1	Sub-category 47.2	Sub-category 47.3	Sub-category 47.4	Sub-category 47.5	Item 48	Category 48	Sub-category 48.1	Sub-category 48.2	Sub-category 48.3	Sub-category 48.4	Sub-category 48.5
Item 49	Category 49	Sub-category 49.1	Sub-category 49.2	Sub-category 49.3	Sub-category 49.4	Sub-category 49.5	Item 50	Category 50	Sub-category 50.1	Sub-category 50.2	Sub-category 50.3	Sub-category 50.4	Sub-category 50.5
Item 51	Category 51	Sub-category 51.1	Sub-category 51.2	Sub-category 51.3	Sub-category 51.4	Sub-category 51.5	Item 52	Category 52	Sub-category 52.1	Sub-category 52.2	Sub-category 52.3	Sub-category 52.4	Sub-category 52.5
Item 53	Category 53	Sub-category 53.1	Sub-category 53.2	Sub-category 53.3	Sub-category 53.4	Sub-category 53.5	Item 54	Category 54	Sub-category 54.1	Sub-category 54.2	Sub-category 54.3	Sub-category 54.4	Sub-category 54.5
Item 55	Category 55	Sub-category 55.1	Sub-category 55.2	Sub-category 55.3	Sub-category 55.4	Sub-category 55.5	Item 56	Category 56	Sub-category 56.1	Sub-category 56.2	Sub-category 56.3	Sub-category 56.4	Sub-category 56.5
Item 57	Category 57	Sub-category 57.1	Sub-category 57.2	Sub-category 57.3	Sub-category 57.4	Sub-category 57.5	Item 58	Category 58	Sub-category 58.1	Sub-category 58.2	Sub-category 58.3	Sub-category 58.4	Sub-category 58.5
Item 59	Category 59	Sub-category 59.1	Sub-category 59.2	Sub-category 59.3	Sub-category 59.4	Sub-category 59.5	Item 60	Category 60	Sub-category 60.1	Sub-category 60.2	Sub-category 60.3	Sub-category 60.4	Sub-category 60.5
Item 61	Category 61	Sub-category 61.1	Sub-category 61.2	Sub-category 61.3	Sub-category 61.4	Sub-category 61.5	Item 62	Category 62	Sub-category 62.1	Sub-category 62.2	Sub-category 62.3	Sub-category 62.4	Sub-category 62.5
Item 63	Category 63	Sub-category 63.1	Sub-category 63.2	Sub-category 63.3	Sub-category 63.4	Sub-category 63.5	Item 64	Category 64	Sub-category 64.1	Sub-category 64.2	Sub-category 64.3	Sub-category 64.4	Sub-category 64.5
Item 65	Category 65	Sub-category 65.1	Sub-category 65.2	Sub-category 65.3	Sub-category 65.4	Sub-category 65.5	Item 66	Category 66	Sub-category 66.1	Sub-category 66.2	Sub-category 66.3	Sub-category 66.4	Sub-category 66.5
Item 67	Category 67	Sub-category 67.1	Sub-category 67.2	Sub-category 67.3	Sub-category 67.4	Sub-category 67.5	Item 68	Category 68	Sub-category 68.1	Sub-category 68.2	Sub-category 68.3	Sub-category 68.4	Sub-category 68.5
Item 69	Category 69	Sub-category 69.1	Sub-category 69.2	Sub-category 69.3	Sub-category 69.4	Sub-category 69.5	Item 70	Category 70	Sub-category 70.1	Sub-category 70.2	Sub-category 70.3	Sub-category 70.4	Sub-category 70.5
Item 71	Category 71	Sub-category 71.1	Sub-category 71.2	Sub-category 71.3	Sub-category 71.4	Sub-category 71.5	Item 72	Category 72	Sub-category 72.1	Sub-category 72.2	Sub-category 72.3	Sub-category 72.4	Sub-category 72.5
Item 73	Category 73	Sub-category 73.1	Sub-category 73.2	Sub-category 73.3	Sub-category 73.4	Sub-category 73.5	Item 74	Category 74	Sub-category 74.1	Sub-category 74.2	Sub-category 74.3	Sub-category 74.4	Sub-category 74.5
Item 75	Category 75	Sub-category 75.1	Sub-category 75.2	Sub-category 75.3	Sub-category 75.4	Sub-category 75.5	Item 76	Category 76	Sub-category 76.1	Sub-category 76.2	Sub-category 76.3	Sub-category 76.4	Sub-category 76.5
Item 77	Category 77	Sub-category 77.1	Sub-category 77.2	Sub-category 77.3	Sub-category 77.4	Sub-category 77.5	Item 78	Category 78	Sub-category 78.1	Sub-category 78.2	Sub-category 78.3	Sub-category 78.4	Sub-category 78.5
Item 79	Category 79	Sub-category 79.1	Sub-category 79.2	Sub-category 79.3	Sub-category 79.4	Sub-category 79.5	Item 80	Category 80	Sub-category 80.1	Sub-category 80.2	Sub-category 80.3	Sub-category 80.4	Sub-category 80.5
Item 81	Category 81	Sub-category 81.1	Sub-category 81.2	Sub-category 81.3	Sub-category 81.4	Sub-category 81.5	Item 82	Category 82	Sub-category 82.1	Sub-category 82.2	Sub-category 82.3	Sub-category 82.4	Sub-category 82.5
Item 83	Category 83	Sub-category 83.1	Sub-category 83.2	Sub-category 83.3	Sub-category 83.4	Sub-category 83.5	Item 84	Category 84	Sub-category 84.1	Sub-category 84.2	Sub-category 84.3	Sub-category 84.4	Sub-category 84.5
Item 85	Category 85	Sub-category 85.1	Sub-category 85.2	Sub-category 85.3	Sub-category 85.4	Sub-category 85.5	Item 86	Category 86	Sub-category 86.1	Sub-category 86.2	Sub-category 86.3	Sub-category 86.4	Sub-category 86.5
Item 87	Category 87	Sub-category 87.1	Sub-category 87.2	Sub-category 87.3	Sub-category 87.4	Sub-category 87.5	Item 88	Category 88	Sub-category 88.1	Sub-category 88.2	Sub-category 88.3	Sub-category 88.4	Sub-category 88.5
Item 89	Category 89	Sub-category 89.1	Sub-category 89.2	Sub-category 89.3	Sub-category 89.4	Sub-category 89.5	Item 90	Category 90	Sub-category 90.1	Sub-category 90.2	Sub-category 90.3	Sub-category 90.4	Sub-category 90.5
Item 91	Category 91	Sub-category 91.1	Sub-category 91.2	Sub-category 91.3	Sub-category 91.4	Sub-category 91.5	Item 92	Category 92	Sub-category 92.1	Sub-category 92.2	Sub-category 92.3	Sub-category 92.4	Sub-category 92.5
Item 93	Category 93	Sub-category 93.1	Sub-category 93.2	Sub-category 93.3	Sub-category 93.4	Sub-category 93.5	Item 94	Category 94	Sub-category 94.1	Sub-category 94.2	Sub-category 94.3	Sub-category 94.4	Sub-category 94.5
Item 95	Category 95	Sub-category 95.1	Sub-category 95.2	Sub-category 95.3	Sub-category 95.4	Sub-category 95.5	Item 96	Category 96	Sub-category 96.1	Sub-category 96.2	Sub-category 96.3	Sub-category 96.4	Sub-category 96.5
Item 97	Category 97	Sub-category 97.1	Sub-category 97.2	Sub-category 97.3	Sub-category 97.4	Sub-category 97.5	Item 98	Category 98	Sub-category 98.1	Sub-category 98.2	Sub-category 98.3	Sub-category 98.4	Sub-category 98.5
Item 99	Category 99	Sub-category 99.1	Sub-category 99.2	Sub-category 99.3	Sub-category 99.4	Sub-category 99.5	Item 100	Category 100	Sub-category 100.1	Sub-category 100.2	Sub-category 100.3	Sub-category 100.4	Sub-category 100.5
Item 101	Category 101	Sub-category 101.1	Sub-category 101.2	Sub-category 101.3	Sub-category 101.4	Sub-category 101.5	Item 102	Category 102	Sub-category 102.1	Sub-category 102.2	Sub-category 102.3	Sub-category 102.4	Sub-category 102.5
Item 103	Category 103	Sub-category 103.1	Sub-category 103.2	Sub-category 103.3	Sub-category 103.4	Sub-category 103.5	Item 104	Category 104	Sub-category 104.1	Sub-category 104.2	Sub-category 104.3	Sub-category 104.4	Sub-category 104.5
Item 105	Category 105	Sub-category 105.1	Sub-category 105.2	Sub-category 105.3	Sub-category 105.4	Sub-category 105.5	Item 106	Category 106	Sub-category 106.1	Sub-category 106.2	Sub-category 106.3	Sub-category 106.4	Sub-category 106.5
Item 107	Category 107	Sub-category 107.1	Sub-category 107.2	Sub-category 107.3	Sub-category 107.4	Sub-category 107.5	Item 108	Category 108	Sub-category 108.1	Sub-category 108.2	Sub-category 108.3	Sub-category 108.4	Sub-category 108.5
Item 109	Category 109	Sub-category 109.1	Sub-category 109.2	Sub-category 109.3	Sub-category 109.4	Sub-category 109.5	Item 110	Category 110	Sub-category 110.1	Sub-category 110.2	Sub-category 110.3	Sub-category 110.4	Sub-category 110.5
Item 111	Category 111	Sub-category 111.1	Sub-category 111.2	Sub-category 111.3	Sub-category 111.4	Sub-category 111.5	Item 112	Category 112	Sub-category 112.1	Sub-category 112.2	Sub-category 112.3	Sub-category 112.4	Sub-category 112.5
Item 113	Category 113	Sub-category 113.1	Sub-category 113.2	Sub-category 113.3	Sub-category 113.4	Sub-category 113.5	Item 114	Category 114	Sub-category 114.1	Sub-category 114.2	Sub-category 114.3	Sub-category 114.4	Sub-category 114.5
Item 115	Category 115	Sub-category 115.1	Sub-category 115.2	Sub-category 115.3	Sub-category 115.4	Sub-category 115.5	Item 116	Category 116	Sub-category 116.1	Sub-category 116.2	Sub-category 116.3	Sub-category 116.4	Sub-category 116.5
Item 117	Category 117	Sub-category 117.1	Sub-category 117.2	Sub-category 117.3	Sub-category 117.4	Sub-category 117.5	Item 118	Category 118	Sub-category 118.1	Sub-category 118.2	Sub-category 118.3	Sub-category 118.4	Sub-category 118.5
Item 119	Category 119	Sub-category 119.1	Sub-category 119.2	Sub-category 119.3	Sub-category 119.4	Sub-category 119.5	Item 120	Category 120	Sub-category 120.1	Sub-category 120.2	Sub-category 120.3	Sub-category 120.4	Sub-category 120.5
Item 121	Category 121	Sub-category 121.1	Sub-category 121.2	Sub-category 121.3	Sub-category 121.4	Sub-category 121.5	Item 122	Category 122	Sub-category 122.1	Sub-category 122.2	Sub-category 122.3	Sub-category 122.4	Sub-category 122.5
Item 123	Category 123	Sub-category 123.1	Sub-category 123.2	Sub-category 123.3	Sub-category 123.4	Sub-category 123.5	Item 124	Category 124	Sub-category 124.1	Sub-category 124.2	Sub-category 124.3	Sub-category 124.4	Sub-category 124.5
Item 125	Category 125	Sub-category 125.1	Sub-category 125.2	Sub-category 125.3	Sub-category 125.4	Sub-category 125.5	Item 126	Category 126	Sub-category 126.1	Sub-category 126.2	Sub-category 126.3	Sub-category 126.4	Sub-category 126.5
Item 127	Category 127	Sub-category 127.1	Sub-category 127.2	Sub-category 127.3	Sub-category 127.4	Sub-category 127.5	Item 128	Category 128	Sub-category 128.1	Sub-category 128.2	Sub-category 128.3	Sub-category 128.4	Sub-category 128.5
Item 129	Category 129	Sub-category 129.1	Sub-category 129.2	Sub-category 129.3	Sub-category 129.4	Sub-category 129.5	Item 130	Category 130	Sub-category 130.1	Sub-category 130.2	Sub-category 130.3	Sub-category 130.4	Sub-category 130.5
Item 131	Category 131	Sub-category 131.1	Sub-category 131.2	Sub-category 131.3	Sub-category 131.4	Sub-category 131.5	Item 132	Category 132	Sub-category 132.1	Sub-category 132.2	Sub-category 132.3	Sub-category 132.4	Sub-category 132.5
Item 133	Category 133	Sub-category 133.1	Sub-category 133.2	Sub-category 133.3	Sub-category 133.4	Sub-category 133.5	Item 134	Category 134	Sub-category 134.1	Sub-category 134.2	Sub-category 134.3	Sub-category 134.4	Sub-category 134.5
Item 135	Category 135	Sub-category 135.1	Sub-category 135.2	Sub-category 135.3	Sub-category 135.4	Sub-category 135.5	Item 136	Category 136	Sub-category 136.1	Sub-category 136.2	Sub-category 136.3	Sub-category 136.4	Sub-category 136.5
Item 137	Category 137	Sub-category 137.1	Sub-category 137.2	Sub-category 137.3	Sub-category 137.4	Sub-category 137.5	Item 138	Category 138	Sub-category 138.1	Sub-category 138.2	Sub-category 138.3	Sub-category 138.4	Sub-category 138.5
Item 139	Category 139	Sub-category 139.1	Sub-category 139.2	Sub-category 139.3	Sub-category 139.4	Sub-category 139.5	Item 140	Category 140	Sub-category 140.1	Sub-category 140.2	Sub-category 140.3	Sub-category 140.4	Sub-category 140.5
Item 141	Category 141	Sub-category 141.1	Sub-category 141.2	Sub-category 141.3	Sub-category 141.4	Sub-category 141.5	Item 142	Category 142	Sub-category 142.1	Sub-category 142.2	Sub-category 142.3	Sub-category 142.4	Sub-category 142.5
Item 143	Category 143	Sub-category 143.1	Sub-category 143.2	Sub-category 143.3	Sub-category 143.4	Sub-category 143.5	Item 144	Category 144	Sub-category 144.1	Sub-category 144.2	Sub-category 144.3	Sub-category 144.4	Sub-category 144.5
Item 145	Category 145	Sub-category 145.1	Sub-category 145.2	Sub-category 145.3	Sub-category 145.4	Sub-category 145.5	Item 146	Category 146	Sub-category 146.1	Sub-category 146.2	Sub-category 146.3	Sub-category 146.4	Sub-category 146.5
Item 147	Category 147	Sub-category 147.1	Sub-category 147.2	Sub-category 147.3	Sub-category 147.4	Sub-category 147.5	Item 148	Category 148	Sub-category 148.1	Sub-category 148.2	Sub-category 148.3	Sub-category 148.4	Sub-category 148.5
Item 149	Category 149	Sub-category 149.1	Sub-category 149.2	Sub-category 149.3	Sub-category 149.4	Sub-category 14							

2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020



Category	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6	Item 7	Item 8	Item 9	Item 10	Item 11
Group A	Item A1.1	Item A1.2	Item A1.3	Item A1.4	Item A1.5	Item A1.6	Item A1.7	Item A1.8	Item A1.9	Item A1.10	Item A1.11
	Item A2.1	Item A2.2	Item A2.3	Item A2.4	Item A2.5	Item A2.6	Item A2.7	Item A2.8	Item A2.9	Item A2.10	Item A2.11
Group B	Item B1.1	Item B1.2	Item B1.3	Item B1.4	Item B1.5	Item B1.6	Item B1.7	Item B1.8	Item B1.9	Item B1.10	Item B1.11
	Item B2.1	Item B2.2	Item B2.3	Item B2.4	Item B2.5	Item B2.6	Item B2.7	Item B2.8	Item B2.9	Item B2.10	Item B2.11
Group C	Item C1.1	Item C1.2	Item C1.3	Item C1.4	Item C1.5	Item C1.6	Item C1.7	Item C1.8	Item C1.9	Item C1.10	Item C1.11
	Item C2.1	Item C2.2	Item C2.3	Item C2.4	Item C2.5	Item C2.6	Item C2.7	Item C2.8	Item C2.9	Item C2.10	Item C2.11
Group D	Item D1.1	Item D1.2	Item D1.3	Item D1.4	Item D1.5	Item D1.6	Item D1.7	Item D1.8	Item D1.9	Item D1.10	Item D1.11
	Item D2.1	Item D2.2	Item D2.3	Item D2.4	Item D2.5	Item D2.6	Item D2.7	Item D2.8	Item D2.9	Item D2.10	Item D2.11
Group E	Item E1.1	Item E1.2	Item E1.3	Item E1.4	Item E1.5	Item E1.6	Item E1.7	Item E1.8	Item E1.9	Item E1.10	Item E1.11
	Item E2.1	Item E2.2	Item E2.3	Item E2.4	Item E2.5	Item E2.6	Item E2.7	Item E2.8	Item E2.9	Item E2.10	Item E2.11
Group F	Item F1.1	Item F1.2	Item F1.3	Item F1.4	Item F1.5	Item F1.6	Item F1.7	Item F1.8	Item F1.9	Item F1.10	Item F1.11
	Item F2.1	Item F2.2	Item F2.3	Item F2.4	Item F2.5	Item F2.6	Item F2.7	Item F2.8	Item F2.9	Item F2.10	Item F2.11
Group G	Item G1.1	Item G1.2	Item G1.3	Item G1.4	Item G1.5	Item G1.6	Item G1.7	Item G1.8	Item G1.9	Item G1.10	Item G1.11
	Item G2.1	Item G2.2	Item G2.3	Item G2.4	Item G2.5	Item G2.6	Item G2.7	Item G2.8	Item G2.9	Item G2.10	Item G2.11
Group H	Item H1.1	Item H1.2	Item H1.3	Item H1.4	Item H1.5	Item H1.6	Item H1.7	Item H1.8	Item H1.9	Item H1.10	Item H1.11
	Item H2.1	Item H2.2	Item H2.3	Item H2.4	Item H2.5	Item H2.6	Item H2.7	Item H2.8	Item H2.9	Item H2.10	Item H2.11
Group I	Item I1.1	Item I1.2	Item I1.3	Item I1.4	Item I1.5	Item I1.6	Item I1.7	Item I1.8	Item I1.9	Item I1.10	Item I1.11
	Item I2.1	Item I2.2	Item I2.3	Item I2.4	Item I2.5	Item I2.6	Item I2.7	Item I2.8	Item I2.9	Item I2.10	Item I2.11
Group J	Item J1.1	Item J1.2	Item J1.3	Item J1.4	Item J1.5	Item J1.6	Item J1.7	Item J1.8	Item J1.9	Item J1.10	Item J1.11
	Item J2.1	Item J2.2	Item J2.3	Item J2.4	Item J2.5	Item J2.6	Item J2.7	Item J2.8	Item J2.9	Item J2.10	Item J2.11
Group K	Item K1.1	Item K1.2	Item K1.3	Item K1.4	Item K1.5	Item K1.6	Item K1.7	Item K1.8	Item K1.9	Item K1.10	Item K1.11
	Item K2.1	Item K2.2	Item K2.3	Item K2.4	Item K2.5	Item K2.6	Item K2.7	Item K2.8	Item K2.9	Item K2.10	Item K2.11
Group L	Item L1.1	Item L1.2	Item L1.3	Item L1.4	Item L1.5	Item L1.6	Item L1.7	Item L1.8	Item L1.9	Item L1.10	Item L1.11
	Item L2.1	Item L2.2	Item L2.3	Item L2.4	Item L2.5	Item L2.6	Item L2.7	Item L2.8	Item L2.9	Item L2.10	Item L2.11
Group M	Item M1.1	Item M1.2	Item M1.3	Item M1.4	Item M1.5	Item M1.6	Item M1.7	Item M1.8	Item M1.9	Item M1.10	Item M1.11
	Item M2.1	Item M2.2	Item M2.3	Item M2.4	Item M2.5	Item M2.6	Item M2.7	Item M2.8	Item M2.9	Item M2.10	Item M2.11
Group N	Item N1.1	Item N1.2	Item N1.3	Item N1.4	Item N1.5	Item N1.6	Item N1.7	Item N1.8	Item N1.9	Item N1.10	Item N1.11
	Item N2.1	Item N2.2	Item N2.3	Item N2.4	Item N2.5	Item N2.6	Item N2.7	Item N2.8	Item N2.9	Item N2.10	Item N2.11
Group O	Item O1.1	Item O1.2	Item O1.3	Item O1.4	Item O1.5	Item O1.6	Item O1.7	Item O1.8	Item O1.9	Item O1.10	Item O1.11
	Item O2.1	Item O2.2	Item O2.3	Item O2.4	Item O2.5	Item O2.6	Item O2.7	Item O2.8	Item O2.9	Item O2.10	Item O2.11
Group P	Item P1.1	Item P1.2	Item P1.3	Item P1.4	Item P1.5	Item P1.6	Item P1.7	Item P1.8	Item P1.9	Item P1.10	Item P1.11
	Item P2.1	Item P2.2	Item P2.3	Item P2.4	Item P2.5	Item P2.6	Item P2.7	Item P2.8	Item P2.9	Item P2.10	Item P2.11
Group Q	Item Q1.1	Item Q1.2	Item Q1.3	Item Q1.4	Item Q1.5	Item Q1.6	Item Q1.7	Item Q1.8	Item Q1.9	Item Q1.10	Item Q1.11
	Item Q2.1	Item Q2.2	Item Q2.3	Item Q2.4	Item Q2.5	Item Q2.6	Item Q2.7	Item Q2.8	Item Q2.9	Item Q2.10	Item Q2.11
Group R	Item R1.1	Item R1.2	Item R1.3	Item R1.4	Item R1.5	Item R1.6	Item R1.7	Item R1.8	Item R1.9	Item R1.10	Item R1.11
	Item R2.1	Item R2.2	Item R2.3	Item R2.4	Item R2.5	Item R2.6	Item R2.7	Item R2.8	Item R2.9	Item R2.10	Item R2.11
Group S	Item S1.1	Item S1.2	Item S1.3	Item S1.4	Item S1.5	Item S1.6	Item S1.7	Item S1.8	Item S1.9	Item S1.10	Item S1.11
	Item S2.1	Item S2.2	Item S2.3	Item S2.4	Item S2.5	Item S2.6	Item S2.7	Item S2.8	Item S2.9	Item S2.10	Item S2.11
Group T	Item T1.1	Item T1.2	Item T1.3	Item T1.4	Item T1.5	Item T1.6	Item T1.7	Item T1.8	Item T1.9	Item T1.10	Item T1.11
	Item T2.1	Item T2.2	Item T2.3	Item T2.4	Item T2.5	Item T2.6	Item T2.7	Item T2.8	Item T2.9	Item T2.10	Item T2.11
Group U	Item U1.1	Item U1.2	Item U1.3	Item U1.4	Item U1.5	Item U1.6	Item U1.7	Item U1.8	Item U1.9	Item U1.10	Item U1.11
	Item U2.1	Item U2.2	Item U2.3	Item U2.4	Item U2.5	Item U2.6	Item U2.7	Item U2.8	Item U2.9	Item U2.10	Item U2.11
Group V	Item V1.1	Item V1.2	Item V1.3	Item V1.4	Item V1.5	Item V1.6	Item V1.7	Item V1.8	Item V1.9	Item V1.10	Item V1.11
	Item V2.1	Item V2.2	Item V2.3	Item V2.4	Item V2.5	Item V2.6	Item V2.7	Item V2.8	Item V2.9	Item V2.10	Item V2.11
Group W	Item W1.1	Item W1.2	Item W1.3	Item W1.4	Item W1.5	Item W1.6	Item W1.7	Item W1.8	Item W1.9	Item W1.10	Item W1.11
	Item W2.1	Item W2.2	Item W2.3	Item W2.4	Item W2.5	Item W2.6	Item W2.7	Item W2.8	Item W2.9	Item W2.10	Item W2.11
Group X	Item X1.1	Item X1.2	Item X1.3	Item X1.4	Item X1.5	Item X1.6	Item X1.7	Item X1.8	Item X1.9	Item X1.10	Item X1.11
	Item X2.1	Item X2.2	Item X2.3	Item X2.4	Item X2.5	Item X2.6	Item X2.7	Item X2.8	Item X2.9	Item X2.10	Item X2.11
Group Y	Item Y1.1	Item Y1.2	Item Y1.3	Item Y1.4	Item Y1.5	Item Y1.6	Item Y1.7	Item Y1.8	Item Y1.9	Item Y1.10	Item Y1.11
	Item Y2.1	Item Y2.2	Item Y2.3	Item Y2.4	Item Y2.5	Item Y2.6	Item Y2.7	Item Y2.8	Item Y2.9	Item Y2.10	Item Y2.11
Group Z	Item Z1.1	Item Z1.2	Item Z1.3	Item Z1.4	Item Z1.5	Item Z1.6	Item Z1.7	Item Z1.8	Item Z1.9	Item Z1.10	Item Z1.11
	Item Z2.1	Item Z2.2	Item Z2.3	Item Z2.4	Item Z2.5	Item Z2.6	Item Z2.7	Item Z2.8	Item Z2.9	Item Z2.10	Item Z2.11

100 100 100 100 100 100 100 100 100 100



2 2 2 2 2 2 2 2 2 2 2



2 222 222 222 22

2 2 2 2 2





THE UNIVERSITY OF CHICAGO LIBRARY



1. Crane hook and cable
2. Crane hook and cable



3. Crane hook and cable
4. Crane hook and cable



5. Crane hook and cable
6. Crane hook and cable



7. Crane hook and cable
8. Crane hook and cable



9. Crane hook and cable



10. Crane hook and cable

11. Crane hook and cable
12. Crane hook and cable

13. Crane hook and cable
14. Crane hook and cable

15. Crane hook and cable

16. Crane hook and cable

17. Crane hook and cable

18. Crane hook and cable

19. Crane hook and cable

20. Crane hook and cable

21. Crane hook and cable

22. Crane hook and cable

23. Crane hook and cable

24. Crane hook and cable

25. Crane hook and cable

26. Crane hook and cable

27. Crane hook and cable

28. Crane hook and cable

29. Crane hook and cable

30. Crane hook and cable

31. Crane hook and cable

32. Crane hook and cable

33. Crane hook and cable

34. Crane hook and cable

35. Crane hook and cable

36. Crane hook and cable

37. Crane hook and cable

38. Crane hook and cable

39. Crane hook and cable

40. Crane hook and cable

41. Crane hook and cable

42. Crane hook and cable

43. Crane hook and cable

44. Crane hook and cable

45. Crane hook and cable

46. Crane hook and cable

47. Crane hook and cable

48. Crane hook and cable

49. Crane hook and cable

50. Crane hook and cable

51. Crane hook and cable

52. Crane hook and cable

53. Crane hook and cable

54. Crane hook and cable

55. Crane hook and cable

56. Crane hook and cable

57. Crane hook and cable

58. Crane hook and cable

59. Crane hook and cable

60. Crane hook and cable

61. Crane hook and cable

62. Crane hook and cable

63. Crane hook and cable

64. Crane hook and cable

65. Crane hook and cable

66. Crane hook and cable

67. Crane hook and cable

68. Crane hook and cable

69. Crane hook and cable

70. Crane hook and cable

71. Crane hook and cable



1. Crane hook and cable
2. Crane hook and cable



3. Crane hook and cable
4. Crane hook and cable



5. Crane hook and cable
6. Crane hook and cable



7. Crane hook and cable
8. Crane hook and cable



9. Crane hook and cable



10. Crane hook and cable

11. Crane hook and cable
12. Crane hook and cable

13. Crane hook and cable
14. Crane hook and cable

15. Crane hook and cable

16. Crane hook and cable

17. Crane hook and cable

18. Crane hook and cable

19. Crane hook and cable

20. Crane hook and cable

21. Crane hook and cable

22. Crane hook and cable

23. Crane hook and cable

24. Crane hook and cable

25. Crane hook and cable

26. Crane hook and cable

27. Crane hook and cable

28. Crane hook and cable

29. Crane hook and cable

30. Crane hook and cable

31. Crane hook and cable

32. Crane hook and cable

33. Crane hook and cable

34. Crane hook and cable

35. Crane hook and cable

36. Crane hook and cable

37. Crane hook and cable

38. Crane hook and cable

39. Crane hook and cable

40. Crane hook and cable

41. Crane hook and cable

42. Crane hook and cable

43. Crane hook and cable

44. Crane hook and cable

45. Crane hook and cable

46. Crane hook and cable

47. Crane hook and cable

48. Crane hook and cable

49. Crane hook and cable

50. Crane hook and cable

51. Crane hook and cable

52. Crane hook and cable

53. Crane hook and cable

54. Crane hook and cable

55. Crane hook and cable

56. Crane hook and cable

57. Crane hook and cable

58. Crane hook and cable

59. Crane hook and cable

60. Crane hook and cable

61. Crane hook and cable

62. Crane hook and cable

63. Crane hook and cable

64. Crane hook and cable

70. Crane hook and cable

71. Crane hook and cable

000000

Rated Lifting Capacities

IMPORTANT NOTES:

WARNING: THIS CHART IS ONLY A GUIDE.

The notes below are for illustration only and should not be relied upon to operate the crane. The individual crane's load chart, operating instructions and other instruction plates must be read and understood prior to operating the crane.

1. All rated loads have been tested to and meet minimum requirements of SAEJ1063 NOV93 - Cantilevered Boom Crane Structures - Method of Test, and do not exceed 85% of the tipping load on outriggers fully extended and SAEJ1289 APR81 - Mobile Crane Stability Ratings on outriggers 50% and 0% extended (fully retracted) as determined by SAEJ765 OCT90 - Crane Stability Test Code.

2. Capacities given do not include the weight of hook blocks, slings, auxiliary lifting equipment and load handling devices. Their weights MUST be added to the load to be lifted. When more than minimum required reeving is used, the additional rope weight shall be considered part of the load.

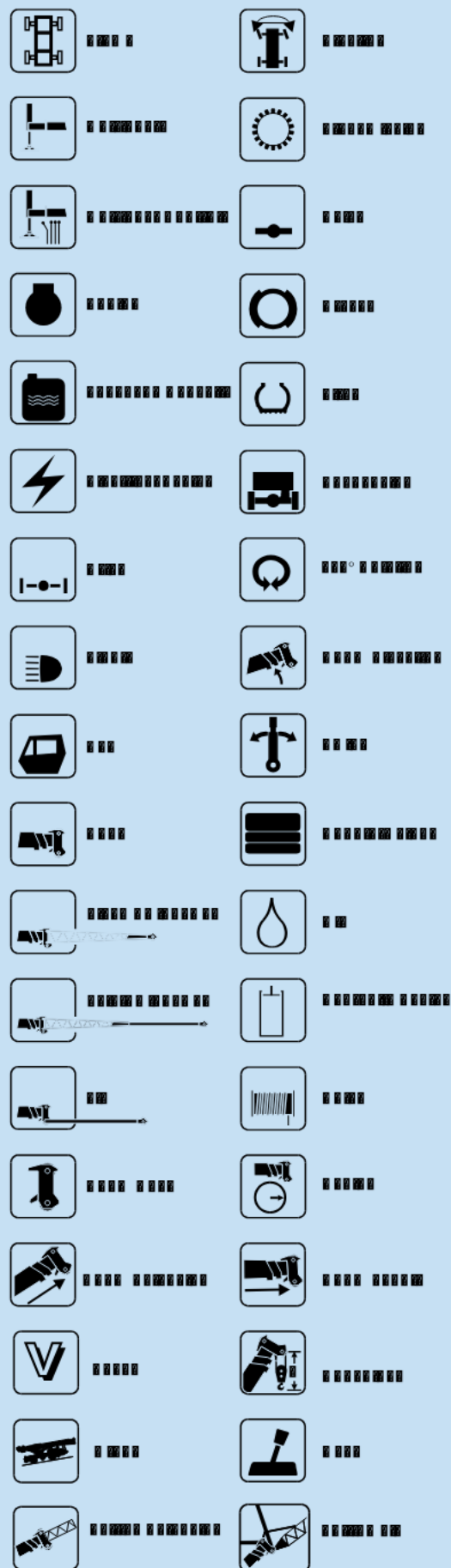
3. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.

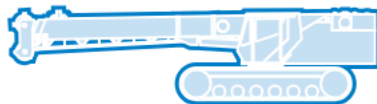
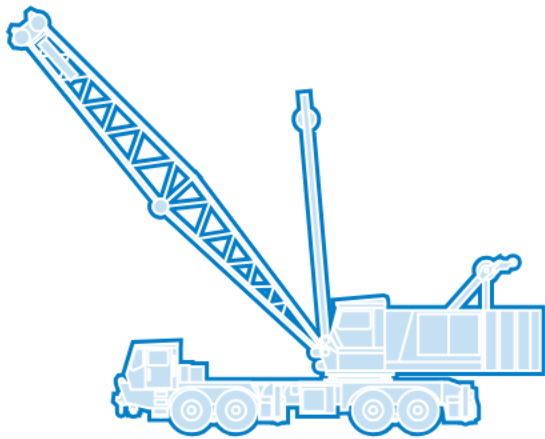
4. All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats to spread the load to a larger bearing surface.

5. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.

6. For outrigger operation, ALL outriggers shall be properly extended with tires raised free of ground before raising the boom or lifting loads.

Symbols Glossary





Grove Worldwide – World Headquarters

Grove North America

1565 Buchanan Trail East
P.O. Box 21
Shady Grove, Pennsylvania 17256, U.S.A.
Tel: [Int + 1] (717) 597-8121
Fax: [Int + 1] (717) 597-4062
Western Hemisphere, Asia/Pacific

Grove Europe Limited*

Sunderland SR4 6TT, England
Tel: [Int + 44] 191 565-6281
Fax: [Int + 44] 191 564-0442
Europe, Africa, Middle East

Grove Europe Limited*

P.O. Box No. 268
4A Kimber Road
Abingdon, Oxfordshire, OX141SG
Tel: [Int + 44] 1235 55-3184
Fax: [Int + 44] 1235 55-3218

Deutsche Grove GmbH

Sales and Service

Helmholtzstrasse 12, Postfach 5026
D-40750 Langenfeld, Germany
Tel: [Int + 49] (2173) 8909-0
Fax: [Int + 49] (2173) 8909-30

Wilhelmshaven Works

Industriegelände West, Postfach 1853
D-26358 Wilhelmshaven, Germany
Tel: [Int + 49] (4421) 294-0
Fax: [Int + 49] (4421) 294-301

Grove France S.A.

16, chaussée Jules-César, 95520 OSNY
B.P. 203, 95523 CERGY PONTOISE CEDEX
France
Tel: [Int + 33] (1) 30313150
Int: [Int + 33] (1) 30386085

*Grove Europe Limited, Registered in England,
Number 1845128, Registered office, Crown Works,
Pallion, Sunderland, Tyne & Wear, England SR4 6TT

Grove Asia/Pacific - Regional Office

171 Chin Swee Road
#06-01 San Centre
Singapore 0316
Tel: [Int + 65] 536-6112
Fax: [Int + 65] 536-6119
Asia/Pacific, Near East

Grove China - Representative Office

Beijing Hotel Room 6074
No. 33 East Chang An Avenue
Beijing, 100004, China
Tel: [Int + 86] (10) 513-7766
Fax: [Int + 86] (10) 513-7307

Grove Product Support

Western Hemisphere, Asia/Pacific
1086 Wayne Avenue
Chambersburg, Pennsylvania USA
Tel: [Int + 1] (717) 263-5100
Fax: [Int + 1] (717) 267-0404

Europe, Africa, Middle East
Sunderland SR4 6TT, England
Tel: [Int + 44] 191 565-6281
Parts Fax: [Int + 44] 191 510-9242
Service Fax: [Int + 44] 191 510-9560

Constant improvement and engineering progress make it necessary that we reserve the right to make specification, equipment, and price changes without notice. Illustrations shown may include optional equipment and accessories and may not include all standard equipment.

Distributed By: