

Crane Selection Guide

Mass of lift: 0,5 - 40 tons

Instructions:

1. Locate the intersection of mass to be lifted and crane operating radius.
2. At this intersection, select the indicated capacity of crane required

DISCLAIMER:

LOWVELD MOBILE CRANE HIRE WILL NOT BE HELD LIABLE FOR CRANE SELECTED INCORRECTLY USING THIS SELECTION GUIDE.

Note: The crane selection calculator is to be used as a guide only, and not final crane selection. Note that the consideration of the height of the pay load to be lifted has not been factored into the calculation. Lowveld Mobile Crane Hire cannot be held responsible for any inaccuracies printed.

Mass of Lift: 0,5 - 20 tonnes

Radius in metres from centre of crane to centre of lift

t/m	7m	8m	9m	10m	12m	14m	16m	18m	20m	22m	24m	26m	28m	30m	32m	34m	36m	38m	40m	42m	44m	46m	48m	50m	52m	54m
0.5	20	20	20	20	20	20	20	20	20	20	25	25	35	35	50	50	70	70	80	80	80	90	120	120	120	120
1	20	20	20	20	20	20	20	20	25	25	35	35	50	50	60	70	70	80	80	90	100	100	120	120	120	120
2	20	20	20	20	20	20	25	25	35	35	50	50	60	60	70	80	80	80	90	100	100	120	120	160	160	160
3	20	20	20	20	25	35	35	50	50	60	70	70	80	80	90	90	100	100	120	120	160	160	160	180	180	180
4	20	20	20	25	35	35	50	50	60	70	80	80	90	90	100	100	120	120	160	160	160	160	180	220	220	220
5	20	20	25	25	35	35	50	50	60	70	80	80	90	100	100	120	120	160	160	160	160	180	180	220	275	330
6	25	25	25	25	35	50	50	60	70	80	90	90	100	100	120	160	160	160	160	160	180	220	220	220	275	330
7	25	25	25	35	50	50	60	70	80	90	100	100	120	120	160	160	160	160	180	180	220	220	275	275	330	330
8	25	35	35	35	50	60	60	80	90	90	100	120	120	160	160	160	180	180	220	220	275	275	275	330	330	330
9	35	35	35	50	50	60	70	80	90	100	120	120	160	160	160	180	220	220	220	275	275	275	330	330	330	330
10	35	35	35	50	60	70	80	90	100	120	160	160	160	160	180	220	220	220	275	275	275	330	330	330	440	440
11	35	35	50	50	60	80	90	100	100	120	160	160	160	180	220	220	275	275	275	330	330	330	440	440	440	440
12	35	50	50	50	70	80	100	100	120	120	160	160	160	180	220	220	275	275	330	330	330	440	440	440	440	440
13	35	50	50	60	80	80	100	120	120	160	160	160	180	220	220	275	275	330	330	440	440	440	440	440	440	550
14	50	50	50	60	80	90	100	120	120	160	160	180	180	220	250	275	275	275	330	440	440	440	440	550	750	750
15	50	50	60	70	80	100	100	120	160	160	160	180	220	220	250	275	275	330	440	440	440	440	550	750	750	750
16	50	50	60	70	80	100	120	120	160	160	180	220	220	275	275	330	440	440	440	440	440	440	550	750	750	750
17	50	60	70	70	90	100	120	160	160	160	180	220	220	275	275	330	440	440	440	440	440	440	550	750	750	750
18	60	70	70	80	90	100	120	160	160	180	220	220	220	275	275	330	440	440	440	440	440	440	550	750	750	750
19	60	70	70	80	100	120	120	160	160	180	220	220	220	275	330	440	440	440	440	440	440	440	550	750	750	750
20	60	70	80	80	100	120	160	160	180	220	220	220	275	275	330	440	440	440	440	440	440	550	750	750	750	750

Mass of Lift: 21 - 40 tonnes

Radius in metres from centre of crane to centre of lift

t/m	7m	8m	9m	10m	12m	14m	16m	18m	20m	22m	24m	26m	28m	30m	32m	34m	36m	38m	40m	42m	44m	46m	48m	50m	52m	54m
21	75	75	80	80	100	120	160	160	220	220	220	275	275	330	440	440	440	440	440	440	440	550	750	750	750	750
22	75	75	80	90	100	120	160	160	220	220	220	275	275	330	440	440	440	440	440	440	440	550	750	750	750	750
23	80	80	80	90	100	120	160	160	220	220	220	275	330	330	440	440	440	440	440	440	550	550	750	750	750	750
24	80	80	80	90	120	160	160	220	220	220	275	275	330	440	440	440	440	440	440	440	550	550	750	750	750	750
25	80	80	90	100	120	160	160	220	220	220	275	330	330	440	440	440	440	440	550	550	550	750	750	750	750	750
26	80	80	90	100	120	160	160	220	220	275	275	330	330	440	440	440	440	440	550	550	550	750	750	750	750	750
27	80	80	90	100	120	160	160	220	220	275	330	330	440	440	440	440	440	550	550	550	750	750	750	750	750	750
28	80	80	90	100	120	160	220	220	220	275	330	330	440	440	440	440	440	550	550	550	750	750	750	750	750	750
29	80	90	100	100	160	160	220	220	275	275	330	330	440	440	440	440	440	550	550	550	750	750	750	750	750	750
30	80	90	100	100	160	160	220	220	275	330	330	440	440	440	440	440	550	550	550	750	750	750	750	750	750	750
31	80	90	100	120	160	160	220	220	275	330	440	440	440	440	440	550	550	550	750	750	750	750	750	750	750	750
32	80	90	100	120	160	160	220	220	275	330	440	440	440	440	440	550	550	550	750	750	750	750	750	750	750	750
33	90	100	100	120	160	160	220	220	330	330	440	440	440	440	440	550	550	550	750	750	750	750	750	750	750	750
34	90	100	100	120	160	220	220	275	330	330	440	440	440	440	440	550	550	550	750	750	750	750	750	750	750	750
35	90	100	100	120	160	220	220	275	330	330	440	440	440	440	440	550	550	550	750	750	750	750	750	750	750	750
36	100	100	120	160	160	220	220	330	330	440	440	440	440	440	440	550	550	550	750	750	750	750	750	750	750	750
37	100	100	120	160	160	220	220	330	330	440	440	440	440	440	440	550	550	550	750	750	750	750	750	750	750	750
38	100	100	120	160	160	220	220	330	330	440	440	440	440	440	440	550	550	550	750	750	750	750	750	750	750	750
39	100	100	120	160	160	220	275	330	330	440	440	440	440	440	440	550	550	550	750	750	750	750	750	750	750	750
40	100	100	120	160	160	220	275	330	330	440	440	440	440	440	440	550	550	550	750	750	750	750	750	750	750	750

Note:

1. This is a load radius chart, no account has been taken for height of lift.
2. This chart is based on using minimum main boom length of 20,0m.
3. The crane capacities may vary from manufacturer to manufacturer.
4. Lifting capacities will vary with crane type (Truck mounted or All Terrain).

How to use this chart (example)

To lift 2 tonnes at 12,0 m radius:
 Locate 2 tonnes on the weight column and 12,0 m on the radius row. Where the column and rows intersect, this indicates the crane capacity required, i.e. 20 tonne crane (in this example). Refer to Lowveld Mobile Crane Hire for more information.

Lowveld Mobile Crane Hire

