

Technical data, Imperial units (60Hz)

Capacity	APF-50A		APF-50B	
	Single	Twin	Single	Twin
Min. / Max. platform length	14.5 ft. / 64 ft.	39 ft. / 142 ft.	–	20 ft. / 93.5 ft.
Max. pay-load capacity	9,040 lbs. at 14.5 ft.	17,680 lbs. at 39 ft.	–	19,400 lbs. at 20 ft.
	5,780 lbs. at 64 ft.	10,820 lbs. at 142 ft.	–	14,510 lbs. at 93.5 ft.
Vertical travel speed	39 fpm.		–	39 fpm.
Horizontal travel speed with optional motor propelled chassis	30 fpm.		–	30 fpm.
Max. lifting height, untied mast with 4 completely extended outriggers on mobile chassis. Outdoor / Indoor installation	72 ft. outdoors		–	72 ft. outdoors
	105 ft. indoors			105 ft. indoors
Max. lifting height, tied mast Increased lifting height on request	330 ft.		–	330 ft.
	50 ft. each		–	50 ft. each
Tie distance when installed on mobile chassis	50 ft. each		–	50 ft. each
Tie distance when installed on pedestal base	1 st = 10', 2 nd = 20', 3 rd = 30', remaining 50 ft.		–	10' - 20' - 30' and remaining 50 ft.
Top overhang in Operation. Wind speed maximum 28 mph.	20 ft.		–	20 ft.
Top overhang during Erection. Wind speed maximum 34 mph.	50 ft.		–	50 ft.

Dimensions and weights

Lowest base unit transport height:				
– on pedestal base	7' 6 5/8''		–	7' 6 5/8''
– on mobile chassis	8' 8 3/8''		–	8' 8 3/8''
Height to platform from ground:				
– on pedestal base	4' 1 1/4''		–	4' 1 1/4''
– on mobile chassis	4' 11''		–	4' 11''
1.5 m platform section: weight	298 lbs.		–	298 lbs.
0.82 m platform section: weight	188 lbs.		–	188 lbs.
Mast section weight:				
length 1.508 m with 1 rack / 2 racks.	247 / 282 lbs.		–	247 / 282 lbs.
Mobile chassis: weight	4300 lbs./pce.		–	4300 lbs./pce.
Pedestal base: weight	706 lbs./pce.		–	706 lbs./pce.
Drive unit: weight	1478 lbs./pce.		–	1345 lbs./pce.

Electrical data

Power – lift machinery	2 x 4.6 kw	4 x 4.6 kw	–	4 x 4.6 kw
Power – travel machinery	1 x 1.5 kw	2 x 1.5 kw	–	–
Voltage/Frequency	440 – 480V 60Hz		–	440 – 480V 60Hz
Control voltage/Frequency	230V 60 Hz		–	230V 60 Hz
Starting current (480V 60Hz)	2 x 40A	4 x 40A	–	4 x 40A
Power consumption	2 x 5kVA	4 x 5kVA	–	4 x 5kVA
Power supply fuses	30A	60A	–	60A
Outlet for hand tool	1 Phase 110V 16A		–	1 Phase 110V 16A
Outlet for hand tool	1 Phase 240V 10A		–	1 Phase 240V 10A

Metric units

Aliclimber APF-50A Single				Without platform extension			With platform extension			
Nc left	Nc right	L m	T kg	Tc kg	Tos kg	Tis kg	T kg	Tc kg	Tos kg	Tis kg
1	1	4.4	3970	2520	2520	2520	3800	2520	2520	2520
1 + 1/2	1 + 1/2	6.0	3770	1830	1570	2370	3510	1830	1570	2370
2	2	7.4	3670	1450	1140	2240	3350	1450	1140	2240
2 + 1/2	2 + 1/2	9.0	3470	1140	850	2100	3060	1140	850	2100
3	3	10.4	3380	940	670	1970	2910	940	670	1970
3 + 1/2	3 + 1/2	12.0	3180	760	530	1820	2620	760	530	1820
4	4	13.4	3080	640	440	1690	2470	640	440	1690
4 + 1/2	4 + 1/2	15.0	2880	520	350	1550	2180	520	350	1550
5	5	16.4	2790	440	290	1420	2020	440	290	1420
5 + 1/2	5 + 1/2	18.0	2590	360	240	1270	1740	360	240	1270
6	6	19.4	2490	300	200	1140	1580	190	120	1140

Imperial units

Aliclimber APF-50A Single				Without platform extension			With platform extension			
Nc left	Nc right	L ft.	T lbs.	Tc lbs.	Tos lbs.	Tis lbs.	T lbs.	Tc lbs.	Tos lbs.	Tis lbs.
1	1	14.44	9040	5550	5550	5550	8660	5550	5550	5550
1 + 1/2	1 + 1/2	19.69	8600	4040	3460	5230	8020	4040	3460	5230
2	2	24.28	8390	3190	2520	4940	7680	3190	2520	4940
2 + 1/2	2 + 1/2	29.53	7950	2500	1870	4620	7050	2500	1870	4620
3	3	34.12	7730	2060	1490	4340	6700	2060	1490	4340
3 + 1/2	3 + 1/2	39.37	7290	1670	1170	4010	6070	1670	1170	4010
4	4	43.96	7080	1400	960	3730	5730	1400	960	3730
4 + 1/2	4 + 1/2	49.21	6640	1150	780	3410	5090	1150	780	3410
5	5	53.81	6430	970	650	3120	4750	970	650	3120
5 + 1/2	5 + 1/2	59.06	5990	800	520	2800	4110	800	520	2800
6	6	63.65	5780	670	430	2520	3770	420	260	2510

The weight of 2 people including equipment 240 kg (530 lbs.) may be added to the above loads. Allowable personal items, tools, paint etc. for each person is a maximum 40 kg (88 lbs.).

Metric units

Aliclimber APF-50A Twin					Without platform extension					With platform extension				
Nc left	Nm mid.	Nc right	L m.	T kg	Tm kg	Tmis kg	Tc kg	Tos kg	T kg	Tm kg	Tmis kg	Tc kg	Tos kg	
1	4	1	11.8	7800	7800	3900	3900	3900	7360	7360	3680	3680	3680	
1	5	1	13.3	7650	7650	3830	3830	3830	7140	7140	3570	3570	3570	
1	6	1	14.8	7500	7500	3750	3750	3750	6910	6910	3460	3460	3460	
2	4	2	14.8	7500	7500	3750	3750	3570	6910	6910	3460	3460	3460	
1	7	1	16.3	7360	7360	3680	3680	3680	6690	6690	3350	3350	3350	
2	5	2	16.3	7360	7360	3680	3680	3570	6690	6690	3350	3350	3350	
1	8	1	17.8	7210	6430	3600	3600	3600	6470	5940	3240	3240	3240	
2	6	2	17.8	7210	7210	3600	3600	3570	6470	6470	3240	3240	3240	
3	4	3	17.8	7210	7210	3600	2620	1810	6470	6470	3240	2430	1680	
1	9	1	19.3	7060	5400	3530	3530	3530	6250	4840	3120	3120	3120	
2	7	2	19.3	7060	7060	3530	3530	3530	6250	6250	3120	3120	3120	
3	5	3	19.3	7060	7060	3530	2620	1810	6250	6250	3120	2430	1680	
1	10	1	20.8	6910	4550	3460	3460	3460	6030	3930	3010	3010	3010	
2	8	2	20.8	6910	6430	3460	3460	3460	6030	5940	3010	3010	3010	
3	6	3	20.8	6910	6910	3460	2620	1810	6030	6030	3010	2430	1680	
4	4	4	20.8	6910	6910	3460	1540	1010	6030	6030	3010	1290	840	
1	11	1	22.3	6760	3830	3380	3380	3380	5810	3160	2900	2900	2900	
2	9	2	22.3	6760	5400	3380	3380	3380	5810	4840	2900	2900	2900	
3	7	3	22.3	6760	6760	3380	2620	1810	5810	5810	2900	2430	1680	
4	5	4	22.3	6760	6760	3380	1540	1010	5810	5810	2900	1290	840	
1	12	1	23.8	6620	3210	3310	3310	3310	5580	2480	2790	2790	2790	
2	10	2	23.8	6620	4550	3310	3310	3310	5580	3930	2790	2790	2790	
3	8	3	23.8	6620	6430	3310	2620	1810	5580	5580	2790	2430	1680	
4	6	4	23.8	6620	6620	3310	1540	1010	5580	5580	2790	1290	840	
1	13	1	25.3	6470	2670	3230	3230	3230	5360	1870	2680	2680	2680	
2	11	2	25.3	6470	3830	3230	3230	3230	5360	3160	2680	2680	2680	
3	9	3	25.3	6470	5400	3230	2620	1810	5360	4840	2680	2430	1680	
4	7	4	25.3	6470	6470	3230	1540	1010	5360	5360	2680	1290	840	
1	14	1	26.8	6320	2190	3160	3160	3160	5140	1330	2570	2570	2570	
2	12	2	26.8	6320	3210	3160	3160	3160	5140	2480	2570	2570	2570	
3	10	3	26.8	6320	4550	3160	2620	1810	5140	3930	2570	2430	1680	
4	8	4	26.8	6320	6320	3160	1540	1010	5140	5140	2570	1290	840	
1	15	1	28.3	6170	1760	3090	3090	3090	4920	840	2460	2460	2460	
2	13	2	28.3	6170	2670	3090	3090	3090	4920	1870	2460	2460	2460	
3	11	3	28.3	6170	3830	3090	2620	1810	4920	3160	2460	2430	1680	
4	9	4	28.3	6170	5400	3090	1540	1010	4920	4840	2460	1290	840	
1	16	1	29.8	6020	1360	3010	3010	3010	4700	380	1820	2350	2350	
2	14	2	29.8	6020	2190	3010	3010	3010	4700	1330	2350	2350	2350	
3	12	3	29.8	6020	3210	3010	2620	1810	4700	2480	2350	2350	1680	
4	10	4	29.8	6020	4550	3010	1540	1010	4700	3930	2350	1290	840	
1	17	1	31.3	5880	1000	2940	2940	2940	4480	NA	NA	2240	2240	
2	15	2	31.3	5880	1760	2940	2940	2940	4480	840	2240	2240	2240	
3	13	3	31.3	5880	2670	2940	2620	1810	4480	1870	2240	2240	1680	
4	11	4	31.3	5880	3830	2940	1540	1010	4480	3160	2240	1290	840	
1	18	1	32.8	5730	660	2860	2860	2860	4260	NA	NA	2130	2130	
2	16	2	32.8	5730	1360	2860	2860	2860	4260	380	1820	2130	2130	
3	14	3	32.8	5730	2190	2860	2620	1810	4260	1330	2130	2130	1680	
4	12	4	32.8	5730	3210	2860	1540	1010	4260	2480	2130	1290	840	
1	19	1	34.3	5580	350	1970	2790	2790	4030	NA	NA	2020	2020	
2	17	2	34.3	5580	1000	2790	2790	2790	4030	NA	NA	2020	2020	
3	15	3	34.3	5580	1760	2790	2620	1810	4030	840	2020	2020	1680	
4	13	4	34.3	5580	2670	2790	1540	1010	4030	1870	2020	1290	840	
2	18	2	35.8	5430	660	2720	2720	2720	3810	NA	NA	1910	1910	
3	16	3	35.8	5430	1360	2720	2620	1810	3810	380	1820	1910	1680	
4	14	4	35.8	5430	2190	2720	1540	1010	3810	1330	1910	1290	840	
2	19	2	37.3	5280	350	1970	2640	2640	3590	NA	NA	1800	1800	
3	17	3	37.3	5280	1000	2640	2620	1810	3590	NA	NA	1800	1680	
4	15	4	37.3	5280	1760	2640	1540	1010	3590	840	1800	1290	840	
3	18	3	38.8	5140	660	2570	2570	1810	3370	NA	NA	1680	1680	
4	16	4	38.8	5140	1360	2570	1540	1010	3370	380	1680	1290	840	
3	19	3	40.3	4990	350	1970	2490	1810	3150	NA	NA	1570	1570	
4	17	4	40.3	4990	1000	2490	1540	1010	3150	NA	NA	1290	840	
4	18	4	41.8	4840	660	2420	1540	1010	2930	NA	NA	1290	840	
4	19	4	43.3	4690	350	1970	1540	1010	2700	NA	NA	1290	840	

Imperial units

Aliclimber APF-50A Twin					Without platform extension					With platform extension				
Nc	Nm	Nc	L	T	Tm	Tmis	Tc	Tos	T	Tm	Tmis	Tc	Tos	
left	mid.	right	ft.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	
1	4	1	38.71	17680	17190	8600	8600	8600	16700	16220	8110	8110	8110	
1	5	1	43.64	17350	16870	8430	8430	8430	16210	15730	7870	7870	7870	
1	6	1	48.56	17020	16540	8270	8270	8270	15730	15240	7620	7620	7620	
2	4	2	48.56	17020	16540	8270	8270	7870	15730	15240	7620	7620	7620	
1	7	1	53.48	16700	16210	8110	8110	8110	15240	14750	7380	7380	7380	
2	5	2	53.48	16700	16210	8110	8110	7870	15240	14750	7380	7380	7380	
1	8	1	58.4	16370	14170	7940	7940	7940	14750	13080	7130	7130	7130	
2	6	2	58.4	16370	15890	7940	7940	7870	14750	14270	7130	7130	7130	
3	4	3	58.4	16370	15890	7940	5780	3990	14750	14270	7130	5360	3700	
1	9	1	63.32	16040	11900	7780	7780	7780	14260	10680	6890	6890	6890	
2	7	2	63.32	16040	15560	7780	7780	7780	14260	13780	6890	6890	6890	
3	5	3	63.32	16040	15560	7780	5780	3990	14260	13780	6890	5360	3700	
1	10	1	68.24	15720	10030	7620	7620	7620	13770	8670	6640	6640	6640	
2	8	2	68.24	15720	14170	7620	7620	7620	13770	13080	6640	6640	6640	
3	6	3	68.24	15720	15240	7620	5780	3990	13770	13290	6640	5360	3700	
4	4	4	68.24	15720	15240	7620	3400	2230	13770	13290	6640	2830	1860	
1	11	1	73.16	15390	8450	7450	7450	7450	13280	6960	6400	6400	6400	
2	9	2	73.16	15390	11900	7450	7450	7450	13280	10680	6400	6400	6400	
3	7	3	73.16	15390	14910	7450	5780	3990	13280	12800	6400	5360	3700	
4	5	4	73.16	15390	14910	7450	3400	2230	13280	12800	6400	2830	1860	
1	12	1	78.08	15070	7080	7290	7290	7290	12790	5460	6160	6160	6160	
2	10	2	78.08	15070	10030	7290	7290	7290	12790	8670	6160	6160	6160	
3	8	3	78.08	15070	14170	7290	5780	3990	12790	12310	6160	5360	3700	
4	6	4	78.08	15070	14580	7290	3400	2230	12790	12310	6160	2830	1860	
1	13	1	83.01	14740	5890	7130	7130	7130	12310	4130	5910	5910	5910	
2	11	2	83.01	14740	8450	7130	7130	7130	12310	6960	5910	5910	5910	
3	9	3	83.01	14740	11900	7130	5780	3990	12310	10680	5910	5360	3700	
4	7	4	83.01	14740	14260	7130	3400	2230	12310	11820	5910	2830	1860	
1	14	1	87.93	14410	4830	6970	6970	6970	11820	2930	5670	5670	5670	
2	12	2	87.93	14410	7080	6970	6970	6970	11820	5460	5670	5670	5670	
3	10	3	87.93	14410	10030	6970	5780	3990	11820	8670	5670	5360	3700	
4	8	4	87.93	14410	13930	6970	3400	2230	11820	11340	5670	2830	1860	
1	15	1	92.85	14090	3870	6800	6800	6800	11330	1840	5420	5420	5420	
2	13	2	92.85	14090	5890	6800	6800	6800	11330	4130	5420	5420	5420	
3	11	3	92.85	14090	8450	6800	5780	3990	11330	6960	5420	5360	3700	
4	9	4	92.85	14090	11900	6800	3400	2230	11330	10680	5420	2830	1860	
1	16	1	97.77	13760	3000	6640	6640	6640	10840	840	4010	5180	5180	
2	14	2	97.77	13760	4830	6640	6640	6640	10840	2930	5180	5180	5180	
3	12	3	97.77	13760	7080	6640	5780	3990	10840	5460	5180	5180	3700	
4	10	4	97.77	13760	10030	6640	3400	2230	10840	8670	5180	2830	1860	
1	17	1	102.69	13430	2200	6480	6480	6480	10350	NA	NA	4940	4940	
2	15	2	102.69	13430	3870	6480	6480	6480	10350	1840	4940	4940	4940	
3	13	3	102.69	13430	5890	6480	5780	3990	10350	4130	4940	4940	3700	
4	11	4	102.69	13430	8450	6480	3400	2230	10350	6960	4940	2830	1860	
1	18	1	107.61	13110	1460	6310	6310	6310	9860	NA	NA	4690	4690	
2	16	2	107.61	13110	3000	6310	6310	6310	9860	840	4010	4690	4690	
3	14	3	107.61	13110	4830	6310	5780	3990	9860	2930	4690	4690	3700	
4	12	4	107.61	13110	7080	6310	3400	2230	9860	5460	4690	2830	1860	
1	19	1	112.53	12780	760	4350	6150	6150	9370	NA	NA	4450	4450	
2	17	2	112.53	12780	2200	6150	6150	6150	9370	NA	NA	4450	4450	
3	15	3	112.53	12780	3870	6150	5780	3990	9370	1840	4450	4450	3700	
4	13	4	112.53	12780	5890	6150	3400	2230	9370	4130	4450	2830	1860	
2	18	2	117.45	12450	1460	5990	5990	5990	8890	NA	NA	4200	4200	
3	16	3	117.45	12450	3000	5990	5780	3990	8890	840	4010	4200	3700	
4	14	4	117.45	12450	4830	5990	3400	2230	8890	2930	4200	2830	1860	
2	19	2	122.38	12130	760	4350	5820	5820	8400	NA	NA	3960	3960	
3	17	3	122.38	12130	2200	5820	5780	3990	8400	NA	NA	3960	3700	
4	15	4	122.38	12130	3870	5820	3400	2230	8400	1840	3960	2830	1860	
3	18	3	127.3	11800	1460	5660	5660	3990	7910	NA	NA	3710	3700	
4	16	4	127.3	11800	3000	5660	3400	2230	7910	840	3710	2830	1860	
3	19	3	132.22	11480	760	4350	5500	3990	7420	NA	NA	3470	3470	
4	17	4	132.22	11480	2200	5500	3400	2230	7420	NA	NA	2830	1860	
4	18	4	137.14	11150	1460	5330	3400	2230	6930	NA	NA	2830	1860	
4	19	4	142.06	10820	760	4350	3400	2230	6440	NA	NA	2830	1860	

Metric units

Aliclimber APF-50B Twin				Without platform extension					With platform extension				
Nc left	Nm mid.	Nc right	L m	T kg	Tm kg	Tmis kg	Tc kg	Tos kg	T kg	Tm kg	Tmis kg	Tc kg	Tos kg
0	4	0	6.0	8580	8580	4290	0	0	8290	8290	4140	0	0
0	5	0	7.5	8430	8430	4220	0	0	8070	8070	4030	0	0
0	6	0	9.0	8290	8290	4140	0	0	7840	7840	3920	0	0
0	7	0	10.5	8140	7710	4070	0	0	7620	7280	3810	0	0
0	8	0	12.0	7990	6420	3990	0	0	7400	5930	3700	0	0
0	9	0	13.5	7840	5390	3920	0	0	7180	4840	3590	0	0
0	10	0	15.0	7690	4550	3850	0	0	6960	3930	3480	0	0
0	11	0	16.5	7550	3830	3770	0	0	6740	3150	3370	0	0
0	12	0	18.0	7400	3210	3700	0	0	6510	2480	3260	0	0
0	13	0	19.5	7250	2670	3620	0	0	6290	1870	3150	0	0
0	14	0	21.0	7100	2190	3550	0	0	6070	1330	3040	0	0
0	15	0	22.5	6950	1750	3480	0	0	5850	830	2920	0	0
0	16	0	24.0	6810	1360	3400	0	0	5630	380	1810	0	0
0	17	0	25.5	6660	1000	3330	0	0	5410	NA	NA	0	0
0	18	0	27.0	6510	660	3250	0	0	5180	NA	NA	0	0
0	19	0	28.5	6360	350	1970	0	0	4960	NA	NA	0	0

Imperial units

Aliclimber APF-50B Twin				Without platform extension					With platform extension				
Nc left	Nm mid.	Nc right	L ft.	T lbs.	Tm lbs.	Tmis lbs.	Tc lbs.	Tos lbs.	T lbs.	Tm lbs.	Tmis lbs.	Tc lbs.	Tos lbs.
0	4	0	19.69	19400	18920	9460	0	0	18750	18270	9130	0	0
0	5	0	24.61	19070	18590	9300	0	0	18260	17780	8890	0	0
0	6	0	29.53	18750	18260	9130	0	0	17770	17290	8650	0	0
0	7	0	34.45	18420	17000	8970	0	0	17290	16050	8400	0	0
0	8	0	39.37	18090	14160	8810	0	0	16800	13080	8160	0	0
0	9	0	44.29	17770	11890	8640	0	0	16310	10670	7910	0	0
0	10	0	49.21	17440	10020	8480	0	0	15820	8670	7670	0	0
0	11	0	54.13	17120	8440	8320	0	0	15330	6950	7420	0	0
0	12	0	59.06	16790	7080	8150	0	0	14840	5460	7180	0	0
0	13	0	63.98	16460	5890	7990	0	0	14350	4130	6940	0	0
0	14	0	68.90	16140	4820	7830	0	0	13870	293	6690	0	0
0	15	0	73.82	15810	3870	7660	0	0	13380	1840	6450	0	0
0	16	0	78.74	15480	3000	7500	0	0	12890	830	4000	0	0
0	17	0	83.66	15160	2200	7340	0	0	12400	NA	NA	0	0
0	18	0	88.58	14830	1450	7170	0	0	11910	NA	NA	0	0
0	19	0	93.50	14510	760	4340	0	0	11420	NA	NA	0	0

The weight of 4 people including equipment 400 kg (882 lbs.) may be added to the above loads. Allowable personal items, tools, paint etc. for each person is 20 kg (44 lbs.).