Niftylift Point Loadings Chart - European Products *(USA Products on Page 2)*

Updated - 21 June 2016

	Mass	SWL	Max Weight	Transit [1] Area	Working [2] Area	Tyre Area	Foot Area	Point Loading [3] (Realistic Worst Case)					Floor Loading [4] (Transit)		Floor Loading [5] (Working)	
	A [kg]	B [kg]	C [kN]	D [m^2]	E [m^2]	F [cm^2]	G [cm^2]	H [kN]	J [lb_f]	K [kN/cm^2]	L [kN/m^2]	M [lb_f/in^2 (psi)]	N [kN/m^2]	P [lb_f/in^2 (psi)]	Q [kN/m^2]	R [lb_f/in^2 (psi)]
			= ((A + B) x 9.81) / 1000	= wheelbase x width	= working footprint area	= area of one tyre	= area of one foot	= C x 0.6	= H x 225	= H / (F or G)	= K x 10000	= L x 0.145	= C / D	= N x 0.145	= C / E	= Q x 0.145
Nifty 120M	1260	200	14.32		7.29		182.4	8.59	1931.91	0.047	471	68			1.96	0.28
Nifty 120T	1400	200	15.70		13		324.3	9.42	2117.16	0.029	290	42			1.21	0.18
Nifty 150	1775	225	19.62		14.86		314.2	11.77	2646.45	0.037	375	54			1.32	0.19
Nifty 170	2160	200	23.15		19.34		540	13.89	3122.81	0.026	257	37			1.20	0.17
Nifty 210	3495	225	36.49		22.5		680	21.90	4922.40	0.032	322	47			1.62	0.24
HR12N	3435	200	35.66	2.85	2.85	383		21.40	4809.92	0.056	559	81	12.51	1.81	12.51	1.81
HR12 4x4	3470	200	36.00	2.85	2.85	504		21.60	4856.24	0.043	429	62	12.63	1.83	12.63	1.83
HR15NE	7250	225	73.33	2.925	2.925	340		44.00	9891.11	0.129	1294	188	25.07	3.64	25.07	3.64
HR15N Hybrid	7250	225	73.33	2.925	2.925	340		44.00	9891.11	0.129	1294	188	25.07	3.64	25.07	3.64
HR15 4x4	4500	225	46.35	4	4	370		27.81	6252.24	0.075	752	109	11.59	1.68	11.59	1.68
HR15 Hybrid	4800	225	49.30	4	4	370		29.58	6649.21	0.080	799	116	12.32	1.79	12.32	1.79
HR17NE	7650	225	77.25	2.925	2.925	340		46.35	10420.40	0.136	1363	198	26.41	3.83	26.41	3.83
HR17N Hybrid	7650	225	77.25	2.925	2.925	340		46.35	10420.40	0.136	1363	198	26.41	3.83	26.41	3.83
HR17 4x4	5000	225	51.26	4	4	370		30.75	6913.85	0.083	831	121	12.81	1.86	12.81	1.86
HR17 Hybrid	5000	225	51.26	4	4	370		30.75	6913.85	0.083	831	121	12.81	1.86	12.81	1.86
HR21 2x4	6660	225	67.54	5.2	5.2	370		40.53	9110.41	0.110	1095	159	12.99	1.88	12.99	1.88
HR21 4x4	6660	225	67.54	5.2	5.2	370		40.53	9110.41	0.110	1095	159	12.99	1.88	12.99	1.88
HR21 Hybrid	6660	225	67.54	5.2	5.2	370		40.53	9110.41	0.110	1095	159	12.99	1.88	12.99	1.88
HR28 Hybrid	14650	280	146.46	6.474	6.474	679		87.88	19755.76	0.129	1294	188	22.62	3.28	22.62	3.28
SD120T	2260	200	24.13	2.832	13		324.3	14.48	3255.13	0.045	446	65	8.52	1.24	1.86	0.27
SD170	2750	200	28.94	3.72	19.34		504	17.36	3903.52	0.034	345	50	7.78	1.13	1.50	0.22
SD210	4120	225	42.62	4.4	19.7		558	25.57	5749.41	0.046	458	66	9.69	1.40	2.16	0.31
TD120T	1890	200	20.50	0.67	15.83		324.3	12.30	2765.54	0.038	379	55	30.60	4.44	1.30	0.19
TD150T	2025	225	22.07	0.695	14.86		314.2	13.24	2977.26	0.042	421	61	31.76	4.61	1.49	0.22

Notes:

(1)	The transit area for self-propelled (HR) and self-drive (SD) machines is the wheelbase multiplied by the overall transit width, in the case of the track drive (TD) machines it is the track length in contact with the ground multiplied by the overall track width.
(2)	The working area is the machine footprint, in the case of trailer units it is the floor area of the machine over the footplate outside edges when jacked to the extreme.
(3)	Point loadings are the total weight of the machine and operator(s), supported on the area of one foot or tyre and multiplied by a factor of 60%. We have found this to be a very close approximation to the Realistic Point Loading figure, and can be worked to as an absolute. If additional factors of safety are required they should be added to this figure.
(4)	The transit area floor loadings are given for self-propelled (HR) and self-drive (SD) and track drive (TD) machines and are the weight of the machine and operator(s) divided by the transit area. This loading applies to the machine when the booms are stowed.
(5)	The working area floor loadings given for trailer units, and are the weight of the machine and operator(s) divided by the floor area of the machine.

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Niftylift Point Loadings Chart - USA Products

Updated - 21 June 2016

	Mass	SWL	Max Weight	Transit [1] Area	Working [2] Area	Tyre Area	Foot Area			Point Loading [3] (Realistic Worst Case)				Floor Loading [4] (Transit)		Floor Loading [5] (Working)	
	A [kg]	B [kg]	C [kN]	D [m^2]	E [m^2]	F [cm^2]	G [cm^2]	H [kN]	J [lb_f]	K [kN/cm^2]	L [kN/m^2]	M [lb_f/in^2 (psi)]	N [kN/m^2]	P [lb_f/in^2 (psi)]	Q [kN/m^2]	R [lb_f/in^2 (psi)]
			= ((A + B) x 9.81) / 1000	= wheelbase x width	= working footprint area	= area of one tyre	= area of one foot	= C x 0.6	= H x 225	= H / (F or G)	= K x 10000	= L x 0.145	= C / D	= N x 0.145	= C / E	= Q x 0.145
TM34M	1260	225	14.57		7.29		182.4	8.74	1966.66	0.048	479	70			2.00	0.29
TM34T	1400	225	15.94		13		324.3	9.56	2152.07	0.029	295	43			1.23	0.18
TM42T	1775	225	19.62		14.86		314.2	11.77	2648.70	0.037	375	54			1.32	0.19
TM50	2160	225	23.40		19.34		540	14.04	3158.57	0.026	260	38			1.21	0.18
TM64	3495	225	36.49		22.5		680	21.90	4926.58	0.032	322	47			1.62	0.24
SP34N	3435	225	35.90	2.85	2.85	383		21.54	4847.12	0.056	562	82	12.60	1.83	12.60	1.83
SP34 4x4	3470	225	36.25	2.85	2.85	504		21.75	4893.47	0.043	432	63	12.72	1.84	12.72	1.84
SP45N	7250	225	73.33	2.925	2.925	340		44.00	9899.52	0.129	1294	188	25.07	3.64	25.07	3.64
SP45N Hybrid	7250	225	73.33	2.925	2.925	340		44.00	9899.52	0.129	1294	188	25.07	3.64	25.07	3.64
SP45 4x4	4500	225	46.35	4	4	370		27.81	6257.55	0.075	752	109	11.59	1.68	11.59	1.68
SP45 Hybrid	4800	225	49.30	4	4	370		29.58	6654.86	0.080	799	116	12.32	1.79	12.32	1.79
SP50N	7650	225	77.25	2.925	2.925	340		46.35	10429.26	0.136	1363	198	26.41	3.83	26.41	3.83
SP50N Hybrid	7650	225	77.25	2.925	2.925	340		46.35	10429.26	0.136	1363	198	26.41	3.83	26.41	3.83
SP50 4x4	5000	225	51.26	4	4	370		30.75	6919.73	0.083	831	121	12.81	1.86	12.81	1.86
SP50 Hybrid	5000	225	51.26	4	4	370		30.75	6919.73	0.083	831	121	12.81	1.86	12.81	1.86
SP64 2x4	6660	225	67.54	5.2	5.2	370		40.53	9118.15	0.110	1095	159	12.99	1.88	12.99	1.88
SP64 4x4	6660	225	67.54	5.2	5.2	370		40.53	9118.15	0.110	1095	159	12.99	1.88	12.99	1.88
SP64 Hybrid	6660	225	67.54	5.2	5.2	370		40.53	9118.15	0.110	1095	159	12.99	1.88	12.99	1.88
SP85 Hybrid	14650	280	146.46	6.474	6.474	679		87.88	19772.55	0.129	1294	188	22.62	3.28	22.62	3.28
SD34T	2260	225	24.38	2.832	13		324.3	14.63	3291.01	0.045	451	65	8.61	1.25	1.88	0.27
SD50	2750	225	29.18	3.72	19.34		504	17.51	3939.94	0.035	347	50	7.85	1.14	1.51	0.22
SD64	4120	225	42.62	4.4	19.7		558	25.57	5754.30	0.046	458	66	9.69	1.40	2.16	0.31
TD34T	1890	225	20.75	0.67	15.83		324.3	12.45	2801.00	0.038	384	56	30.97	4.49	1.31	0.19
TD42T	2025	225	22.07	0.695	14.86		314.2	13.24	2979.79	0.042	421	61	31.76	4.61	1.49	0.22

Notes:

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