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

Updated - 13 August 2014

	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 0.225	= H / (F or G)	= K x 10000	= L x 0.145	= C / D	= N x 0.145	= C / E	= Q x 0.145
Nifty 90	798	120	9.01		4.41		182.4	5.40	1.22	0.030	296	43			2.04	0.30
Nifty 120M	1195	200	13.68		7.29		182.4	8.21	1.85	0.045	450	65			1.88	0.27
Nifty 120H	1300	200	14.72		11.93		324.3	8.83	1.99	0.027	272	39			1.23	0.18
Nifty 120T	1400	200	15.70		13		324.3	9.42	2.12	0.029	290	42			1.21	0.18
Nifty 140	1500	225	16.92		10.72		324.3	10.15	2.28	0.031	313	45			1.58	0.23
Nifty 150	1725	225	19.13		14.86		314.2	11.48	2.58	0.037	365	53			1.29	0.19
Nifty 170	2000	200	21.58		19.34		540	12.95	2.91	0.024	240	35			1.12	0.16
Nifty 210	3495	225	36.49		22.5		680	21.90	4.93	0.032	322	47			1.62	0.24
HR10	2200	200	23.54	2.85	2.85	258		14.13	3.18	0.055	548	79	8.26	1.20	8.26	1.20
HR12N	3100	200	32.37	2.85	2.85	383		19.42	4.37	0.051	507	74	11.36	1.65	11.36	1.65
HR12 2x4	2860	200	30.02	2.85	2.85	383		18.01	4.05	0.047	470	68	10.53	1.53	10.53	1.53
HR12 4x4	3330	200	34.63	2.85	2.85	504		20.78	4.67	0.041	412	60	12.15	1.76	12.15	1.76
HR15N	7250	225	73.33	2.925	2.925	340		44.00	9.90	0.129	1294	188	25.07	3.64	25.07	3.64
HR15NDE	6700	225	67.93	2.925	2.925	340		40.76	9.17	0.120	1199	174	23.23	3.37	23.23	3.37
HR15 4x4	4500	225	46.35	4	4	370		27.81	6.26	0.075	752	109	11.59	1.68	11.59	1.68
HR15 Hybrid	4800	225	49.30	4	4	370		29.58	6.65	0.080	799	116	12.32	1.79	12.32	1.79
HR17N	7400	225	74.80	2.925	2.925	340		44.88	10.10	0.132	1320	191	25.57	3.71	25.57	3.71
HR17NDE	7200	225	72.84	2.925	2.925	340		43.70	9.83	0.129	1285	186	24.90	3.61	24.90	3.61
HR17 4x4	4950	225	50.77	4	4	370		30.46	6.85	0.082	823	119	12.69	1.84	12.69	1.84
HR17 Hybrid	5000	225	51.26	4	4	370		30.75	6.92	0.083	831	121	12.81	1.86	12.81	1.86
HR21 2x4	6500	225	65.97	5.2	5.2	370		39.58	8.91	0.107	1070	155	12.69	1.84	12.69	1.84
HR21 4x4	6500	225	65.97	5.2	5.2	370		39.58	8.91	0.107	1070	155	12.69	1.84	12.69	1.84
HR21 Hybrid	6500	225	65.97	5.2	5.2	370		39.58	8.91	0.107	1070	155	12.69	1.84	12.69	1.84
HR28 Hybrid	14650	280	146.46	6.474	6.474	679		87.88	19.77	0.129	1294	188	22.62	3.28	22.62	3.28
SD120T	2260	200	24.13	2.832	13		324.3	14.48	3.26	0.045	446	65	8.52	1.24	1.86	0.27
SD170	2750	200	28.94	3.72	19.34		504	17.36	3.91	0.034	345	50	7.78	1.13	1.50	0.22
SD210	3950	225	40.96	4.4	19.7		558	24.57	5.53	0.044	440	64	9.31	1.35	2.08	0.30
TD120TN	1850	120	19.33	0.67	10.43		324.3	11.60	2.61	0.036	358	52	28.84	4.18	1.85	0.27
TD120TN (2 Man)	1850	200	20.11	0.67	10.43		324.3	12.07	2.71	0.037	372	54	30.02	4.35	1.93	0.28
TD120T	1850	200	20.11	0.67	15.83		324.3	12.07	2.71	0.037	372	54	30.02	4.35	1.27	0.18
TD150T	2025	225	22.07	0.695	14.86		314.2	13.24	2.98	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 - 13 August 2014

	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 0.225	= H / (F or G)	= K x 10000	= L x 0.145	= C / D	= N x 0.145	= C / E	= Q x 0.145
TM24	798	120	9.01		4.41		182.4	5.40	1.22	0.030	296	43			2.04	0.30
TM34M	1195	200	13.68		7.29		182.4	8.21	1.85	0.045	450	65			1.88	0.27
TM34H	1300	200	14.72		11.93		324.3	8.83	1.99	0.027	272	39			1.23	0.18
TM34T	1400	200	15.70		13		324.3	9.42	2.12	0.029	290	42			1.21	0.18
TM40	1500	225	16.92		10.72		324.3	10.15	2.28	0.031	313	45			1.58	0.23
TM42T	1725	225	19.13		14.86		314.2	11.48	2.58	0.037	365	53			1.29	0.19
TM50	2000	200	21.58		19.34		540	12.95	2.91	0.024	240	35			1.12	0.16
TM64	3495	225	36.49		22.5		680	21.90	4.93	0.032	322	47			1.62	0.24
SP26	2200	200	23.54	2.85	2.85	258		14.13	3.18	0.055	548	79	8.26	1.20	8.26	1.20
SP34N	3100	200	32.37	2.85	2.85	383		19.42	4.37	0.051	507	74	11.36	1.65	11.36	1.65
SP34 2x4	2860	200	30.02	2.85	2.85	383		18.01	4.05	0.047	470	68	10.53	1.53	10.53	1.53
SP34 4x4	3330	200	34.63	2.85	2.85	504		20.78	4.67	0.041	412	60	12.15	1.76	12.15	1.76
SP45N	7250	225	73.33	2.925	2.925	340		44.00	9.90	0.129	1294	188	25.07	3.64	25.07	3.64
SP45NDE	6700	225	67.93	2.925	2.925	340		40.76	9.17	0.120	1199	174	23.23	3.37	23.23	3.37
SP45 4x4	4500	225	46.35	4	4	370		27.81	6.26	0.075	752	109	11.59	1.68	11.59	1.68
SP45 Hybrid	4800	225	49.30	4	4	370		29.58	6.65	0.080	799	116	12.32	1.79	12.32	1.79
SP50N	7400	225	74.80	2.925	2.925	340		44.88	10.10	0.132	1320	191	25.57	3.71	25.57	3.71
SP50NDE	7200	225	72.84	2.925	2.925	340		43.70	9.83	0.129	1285	186	24.90	3.61	24.90	3.61
SP50 4x4	4950	225	50.77	4	4	370		30.46	6.85	0.082	823	119	12.69	1.84	12.69	1.84
SP50 Hybrid	5000	225	51.26	4	4	370		30.75	6.92	0.083	831	121	12.81	1.86	12.81	1.86
SP64 2x4	6500	225	65.97	5.2	5.2	370		39.58	8.91	0.107	1070	155	12.69	1.84	12.69	1.84
SP64 4x4	6500	225	65.97	5.2	5.2	370		39.58	8.91	0.107	1070	155	12.69	1.84	12.69	1.84
SP64 Hybrid	6500	225	65.97	5.2	5.2	370		39.58	8.91	0.107	1070	155	12.69	1.84	12.69	1.84
SP85 Hybrid	14650	280	146.46	6.474	6.474	679		87.88	19.77	0.129	1294	188	22.62	3.28	22.62	3.28
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TD34T	1850	200	20.11	0.67	15.83		324.3	12.07	2.71	0.037	372	54	30.02	4.35	1.27	0.18
TD42T	2025	225	22.07	0.695	14.86		314.2	13.24	2.98	0.042	421	61	31.76	4.61	1.49	0.22

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