

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

Updated - 01 March 2018

	Mass		SWL C [kN]	Max Weight D [m ²]	Transit Area E [m ²]	Working Area F [cm ²]	Tyre Area G [cm ²]	Foot Area H [kN]	J [lb]	Point Loading ⁽³⁾ (Realistic Worst Case)			Floor Loading ⁽⁴⁾ (Transit)		Floor Loading ⁽⁵⁾ (Working)	
	A [kg]	B [kg]								K [kN/cm ²]	L [kN/m ²]	M [lb/in ² (psi)]	N [kN/m ²]	P [lb/in ² (psi)]	Q [kN/m ²]	R [lb/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 2.25	= 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	1195	200	13.68		7.29		182.4	8.21	1846	0.045	450	65			1.88	0.27
Nifty 120T	1400	200	15.70		13		324.3	9.42	2117	0.029	290	42			1.21	0.18
Nifty 150	1775	225	19.62		14.86		314.2	11.77	2646	0.037	375	54			1.32	0.19
Nifty 170	2160	200	23.15		19.34		540	13.89	3123	0.026	257	37			1.20	0.17
Nifty 210	3495	225	36.49		22.5		680	21.90	4922	0.032	322	47			1.62	0.24
HR12N	3435	200	35.66	2.85	2.85	383		21.40	4810	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	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	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	0.129	1294	188	25.07	3.64	25.07	3.64
HR15 4x4	4500	225	46.35	4	4	370		27.81	6252	0.075	752	109	11.59	1.68	11.59	1.68
HR15 Hybrid	4800	225	49.30	4	4	370		29.58	6649	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	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	0.136	1363	198	26.41	3.83	26.41	3.83
HR17 4x4	5000	225	51.26	4	4	370		30.75	6914	0.083	831	121	12.81	1.86	12.81	1.86
HR17 Hybrid	5000	225	51.26	4	4	370		30.75	6914	0.083	831	121	12.81	1.86	12.81	1.86
HR21 2x4	6640	225	67.35	5.2	5.2	370		40.41	9084	0.109	1092	158	12.95	1.88	12.95	1.88
HR21 4x4	6640	225	67.35	5.2	5.2	370		40.41	9084	0.109	1092	158	12.95	1.88	12.95	1.88
HR21 Hybrid	6640	225	67.35	5.2	5.2	370		40.41	9084	0.109	1092	158	12.95	1.88	12.95	1.88
HR28 Hybrid	14650	280	146.46	6.474	6.474	679		87.88	19756	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	0.045	446	65	8.52	1.24	1.86	0.27
SD170	2750	200	28.94	3.72	19.34		504	17.36	3904	0.034	345	50	7.78	1.13	1.50	0.22
SD210	3950	225	40.96	4.4	19.7		558	24.57	5524	0.044	440	64	9.31	1.35	2.08	0.30
TD120T	1890	200	20.50	0.67	15.83		324.3	12.30	2766	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	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.
Values specified were correct at time of publishing, but are subject to change. Niftylift reserves the right to change any specification without notice. Weights stated are minimums and vary according to power option, please confirm before using.	

Niftylift Point Loadings Chart - USA Products

	Mass	SWL	Max Weight	Transit Area ⁽¹⁾	Working Area ⁽²⁾	Tyre Area	Foot Area	Point Loading ⁽³⁾		Floor Loading ⁽⁴⁾	Floor Loading ⁽⁵⁾
	A [lbs]	B [lbs]	C [lbs]	D [ft ²]	E [ft ²]	F [in ²]	G [in ²]	J [lb _r]	M [lb _r /in ² (psi)]	P [lb _r /ft ² (psf)]	R [lb _r /ft ² (psf)]
	= (A + B)			= wheelbase x width	= working footprint area	= area of one tyre	= area of one foot	= C x 0.6	= J / (F or G)	= C / D	= C / E
TM34M	2630	500	3130		78.47		28.27	1878	66		39.89
TM34T	3100	500	3600		139.93		50.27	2160	43		25.73
TM42T	3915	500	4415		159.95		48.70	2649	54		27.60
TM50	4760	500	5260		208.17		83.70	3156	38		25.27
TM64	7700	500	8200		242.19		105.40	4920	47		33.86
SP34N	7575	500	8075	30.68	30.68	59.37		4845	82	263.23	263.23
SP34 4x4	7650	500	8150	30.68	30.68	78.12		4890	63	265.67	265.67
SP45N	15980	500	16480	31.48	31.48	52.70		9888	188	523.43	523.43
SP45N Hybrid	15980	500	16480	31.48	31.48	52.70		9888	188	523.43	523.43
SP45 4x4	9920	500	10420	43.06	43.06	57.35		6252	109	242.01	242.01
SP45 Hybrid	10580	500	11080	43.06	43.06	57.35		6648	116	257.34	257.34
SP50N	16870	500	17370	31.48	31.48	52.70		10422	198	551.70	551.70
SP50N Hybrid	16870	500	17370	31.48	31.48	52.70		10422	198	551.70	551.70
SP50 4x4	11020	500	11520	43.06	43.06	57.35		6912	121	267.56	267.56
SP50 Hybrid	11020	500	11520	43.06	43.06	57.35		6912	121	267.56	267.56
SP64 2x4	14640	500	15140	55.97	55.97	57.35		9084	158	270.49	270.49
SP64 4x4	14640	500	15140	55.97	55.97	57.35		9084	158	270.49	270.49
SP64 Hybrid	14685	500	15185	55.97	55.97	57.35		9111	159	271.30	271.30
SP85 Hybrid	32300	620	32920	69.69	69.69	105.25		19752	188	472.41	472.41
SD34T	4980	500	5480	30.48	139.93		50.27	3288	65	179.77	39.16
SD50	6000	500	6500	40.04	208.17		78.12	3900	50	162.33	31.22
SD64	8700	500	9200	47.36	212.05		86.49	5520	64	194.25	43.39
TD34T	4170	500	4670	7.21	170.39		50.27	2802	56	647.55	27.41
TD42T	4500	500	5000	7.48	159.95		48.70	3000	62	668.37	31.26

Notes:

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