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

Updated - 26 January 2022

	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	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
HR12LE (AGM)	2540	200	26.88	3.58	3.58	390		16.13	3626	0.041	414	60	7.51	1.09	7.51	1.09
HR12LE (Lithium)	2470	200	26.19	3.58	3.58	390		15.72	3533	0.040	403	58	7.32	1.06	7.32	1.06
HR12N (MKI)	3435	200	35.66	2.85	2.85	383		21.40	4810	0.056	559	81	12.51	1.81	12.51	1.81
HR12NE (MKII)	3250	200	33.84	2.85	2.85	441		20.31	4565	0.046	460	67	11.88	1.72	11.88	1.72
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	7780	225	78.53	2.925	2.925	340		47.12	10592	0.139	1386	201	26.85	3.89	26.85	3.89
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
HR21E	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	6680	225	67.74	5.2	5.2	370		40.64	9137	0.110	1098	159	13.03	1.89	13.03	1.89
HR28 4x4	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 4x4	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 4x4	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 4x4x4	3950	225	40.96	4.4	19.7		558	24.57	5524	0.044	440	64	9.31	1.35	2.08	0.30
TD120TN	1890	200	20.50	2.09	15.83		324.3	12.30	2766	0.038	379	55	9.81	1.42	1.30	0.19
TD120T	1890	200	20.50	2.09	15.83		324.3	12.30	2766	0.038	379	55	9.81	1.42	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.

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Niftylift Point Loadings Chart - USA Products

	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 [lbs]	**B** [lbs]	**C** [lbs]	**D** [ft^2]	**E** [ft^2]	**F** [in^2]	**G** [in^2]	**J** [lb$_f$]	**M** [lb$_f$/in^2 (psi)]	**P** [lb$_f$/ft^2 (psf)]	**R** [lb$_f$/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	2560	500	3060		78.47		28.27	1836	65		39.00
TM34T	3110	440	3550		139.93		50.27	2130	42		25.37
TM42T	3990	500	4490		159.95		48.70	2694	55		28.07
TM50	4890	440	5330		208.17		83.70	3198	38		25.60
TM64	7610	500	8110		242.19		105.40	4866	46		33.49
SP34L (AGM)	5640	440	6080	38.53	38.53	60.45		3648	60	157.78	157.78
SP34L (Lithium)	5490	440	5930	38.53	38.53	60.45		3558	59	153.89	153.89
SP34NE (MK2)	7210	440	7650	30.68	30.68	68.36		4590	67	249.37	249.37
SP34 4x4	8020	500	8520	30.68	30.68	78.12		5112	65	277.73	277.73
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	10010	500	10510	43.06	43.06	57.35		6306	110	244.10	244.10
SP45 Hybrid	10800	500	11300	43.06	43.06	57.35		6780	118	262.45	262.45
SP50N	17200	500	17700	31.48	31.48	52.70		10620	202	562.18	562.18
SP50N Hybrid	17200	500	17700	31.48	31.48	52.70		10620	202	562.18	562.18
SP50 4x4	11290	500	11790	43.06	43.06	57.35		7074	123	273.83	273.83
SP64E	14730	550	15280	55.97	55.97	57.35		9168	160	272.99	272.99
SP64 4x4	14790	550	15340	55.97	55.97	57.35		9204	160	274.06	274.06
SP85 Hybrid	32080	620	32700	69.69	69.69	105.25		19620	186	469.25	469.25
SD34T 4x4	4630	500	5130	30.48	139.93		50.27	3078	61	168.29	36.66
SD50 4x4	5950	500	6450	40.04	208.17		78.12	3870	50	161.08	30.98
SD64 4x4x4	9170	500	9670	47.36	212.05		86.49	5802	67	204.18	45.60
TD34TN	3990	500	4490	17.22	112.27		50.27	2694	54	260.71	39.99
TD34T	4080	500	4580	22.50	170.39		50.27	2748	55	203.59	26.88
TD42T	4390	500	4890	7.48	159.95		48.70	2934	60	653.66	30.57

Notes:

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