

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

Updated - 20 October 2015

	Mass	SWL	Max Weight	Transit <sup>(1)</sup>	Working <sup>(2)</sup>	Tyre	Foot	Point Loading <sup>(3)</sup>			Floor Loading <sup>(4)</sup>		Floor Loading <sup>(5)</sup>			
	A [kg]	B [kg]	C [kN]	D [m <sup>2</sup> ]	E [m <sup>2</sup> ]	F [cm <sup>2</sup> ]	G [cm <sup>2</sup> ]	(Realistic Worst Case) K [kN/cm <sup>2</sup> ] L [kN/m <sup>2</sup> ] M [lb/in <sup>2</sup> (psi)]			(Transit) N [kN/m <sup>2</sup> ] P [lb/in <sup>2</sup> (psi)]		(Working) Q [kN/m <sup>2</sup> ] R [lb/in <sup>2</sup> (psi)]			
			<small>= ((A + B) x 9.81) / 1000</small>	<small>= wheelbase x width</small>	<small>= working footprint area</small>	<small>= area of one tyre</small>	<small>= area of one foot</small>	<small>= C x 0.6</small>	<small>= H x 0.225</small>	<small>= H / (F or G)</small>	<small>= K x 10000</small>	<small>= L x 0.145</small>	<small>= C / D</small>	<small>= N x 0.145</small>	<small>= C / E</small>	<small>= Q x 0.145</small>
<b>Nifty 120M</b>	1195	200	13.68		7.29		182.4	8.21	1.85	0.045	450	65			1.88	0.27
<b>Nifty 120T</b>	1400	200	15.70		13		324.3	9.42	2.12	0.029	290	42			1.21	0.18
<b>Nifty 150</b>	1775	225	19.62		14.86		314.2	11.77	2.65	0.037	375	54			1.32	0.19
<b>Nifty 170</b>	2160	200	23.15		19.34		540	13.89	3.13	0.026	257	37			1.20	0.17
<b>Nifty 210</b>	3495	225	36.49		22.5		680	21.90	4.93	0.032	322	47			1.62	0.24
<b>HR12N</b>	3435	200	35.66	2.85	2.85	383		21.40	4.81	0.056	559	81	12.51	1.81	12.51	1.81
<b>HR12 4x4</b>	3470	200	36.00	2.85	2.85	504		21.60	4.86	0.043	429	62	12.63	1.83	12.63	1.83
<b>HR15NE</b>	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
<b>HR15N Hybrid</b>	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
<b>HR15 4x4</b>	4500	225	46.35	4	4	370		27.81	6.26	0.075	752	109	11.59	1.68	11.59	1.68
<b>HR15 Hybrid</b>	4800	225	49.30	4	4	370		29.58	6.65	0.080	799	116	12.32	1.79	12.32	1.79
<b>HR17NE</b>	7650	225	77.25	2.925	2.925	340		46.35	10.43	0.136	1363	198	26.41	3.83	26.41	3.83
<b>HR17N Hybrid</b>	7650	225	77.25	2.925	2.925	340		46.35	10.43	0.136	1363	198	26.41	3.83	26.41	3.83
<b>HR17 4x4</b>	5000	225	51.26	4	4	370		30.75	6.92	0.083	831	121	12.81	1.86	12.81	1.86
<b>HR17 Hybrid</b>	5000	225	51.26	4	4	370		30.75	6.92	0.083	831	121	12.81	1.86	12.81	1.86
<b>HR21 2x4</b>	6660	225	67.54	5.2	5.2	370		40.53	9.12	0.110	1095	159	12.99	1.88	12.99	1.88
<b>HR21 4x4</b>	6660	225	67.54	5.2	5.2	370		40.53	9.12	0.110	1095	159	12.99	1.88	12.99	1.88
<b>HR21 Hybrid</b>	6660	225	67.54	5.2	5.2	370		40.53	9.12	0.110	1095	159	12.99	1.88	12.99	1.88
<b>HR28 Hybrid</b>	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
<b>SD120T</b>	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
<b>SD170</b>	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
<b>SD210</b>	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
<b>TD120T</b>	1890	200	20.50	0.67	15.83		324.3	12.30	2.77	0.038	379	55	30.60	4.44	1.30	0.19
<b>TD150T</b>	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.
<b>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.</b>	

# Niftylift Point Loadings Chart - USA Products

Updated - 20 October 2015

	Mass		Max Weight	Transit Area <sup>(1)</sup>		Working Area <sup>(2)</sup>		Tyre Area		Foot Area		Point Loading <sup>(3)</sup> (Realistic Worst Case)			Floor Loading <sup>(4)</sup> (Transit)		Floor Loading <sup>(5)</sup> (Working)	
	A [kg]	B [kg]		C [kN]	D [m <sup>2</sup> ]	E [m <sup>2</sup> ]	F [cm <sup>2</sup> ]	G [cm <sup>2</sup> ]	H [kN]	J [lb]	K [kN/cm <sup>2</sup> ]	L [kN/m <sup>2</sup> ]	M [lb/in <sup>2</sup> (psi)]	N [kN/m <sup>2</sup> ]	P [lb/in <sup>2</sup> (psi)]	Q [kN/m <sup>2</sup> ]	R [lb/in <sup>2</sup> (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		
<b>TM34M</b>	1195	200	13.68		7.29		182.4	8.21	1.85	0.045	450	65			1.88	0.27		
<b>TM34T</b>	1400	200	15.70		13		324.3	9.42	2.12	0.029	290	42			1.21	0.18		
<b>TM42T</b>	1775	225	19.62		14.86		314.2	11.77	2.65	0.037	375	54			1.32	0.19		
<b>TM50</b>	2160	200	23.15		19.34		540	13.89	3.13	0.026	257	37			1.20	0.17		
<b>TM64</b>	3495	225	36.49		22.5		680	21.90	4.93	0.032	322	47			1.62	0.24		
<b>SP34N</b>	3435	200	35.66	2.85	2.85	383		21.40	4.81	0.056	559	81	12.51	1.81	12.51	1.81		
<b>SP34 4x4</b>	3470	200	36.00	2.85	2.85	504		21.60	4.86	0.043	429	62	12.63	1.83	12.63	1.83		
<b>SP45N</b>	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		
<b>SP45N Hybrid</b>	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		
<b>SP45 4x4</b>	4500	225	46.35	4	4	370		27.81	6.26	0.075	752	109	11.59	1.68	11.59	1.68		
<b>SP45 Hybrid</b>	4800	225	49.30	4	4	370		29.58	6.65	0.080	799	116	12.32	1.79	12.32	1.79		
<b>SP50N</b>	7650	225	77.25	2.925	2.925	340		46.35	10.43	0.136	1363	198	26.41	3.83	26.41	3.83		
<b>SP50N Hybrid</b>	7650	225	77.25	2.925	2.925	340		46.35	10.43	0.136	1363	198	26.41	3.83	26.41	3.83		
<b>SP50 4x4</b>	5000	225	51.26	4	4	370		30.75	6.92	0.083	831	121	12.81	1.86	12.81	1.86		
<b>SP50 Hybrid</b>	5000	225	51.26	4	4	370		30.75	6.92	0.083	831	121	12.81	1.86	12.81	1.86		
<b>SP64 2x4</b>	6660	225	67.54	5.2	5.2	370		40.53	9.12	0.110	1095	159	12.99	1.88	12.99	1.88		
<b>SP64 4x4</b>	6660	225	67.54	5.2	5.2	370		40.53	9.12	0.110	1095	159	12.99	1.88	12.99	1.88		
<b>SP64 Hybrid</b>	6660	225	67.54	5.2	5.2	370		40.53	9.12	0.110	1095	159	12.99	1.88	12.99	1.88		
<b>SP85 Hybrid</b>	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		
<b>SD34T</b>	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		
<b>SD50</b>	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		
<b>SD64</b>	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		
<b>TD34T</b>	1890	200	20.50	0.67	15.83		324.3	12.30	2.77	0.038	379	55	30.60	4.44	1.30	0.19		
<b>TD42T</b>	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 (SP) 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.
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