

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

Updated - 25 May 2021

| | Mass | SWL | Max Weight | Transit ⁽¹⁾ | Working ⁽²⁾ | Tyre | Foot | Point Loading ⁽³⁾ | | | Floor Loading ⁽⁴⁾ | | Floor Loading ⁽⁵⁾ | | | |
|-----------------|---------------------------|--------|------------|------------------------|--------------------------|----------------------|----------------------|---|-----------|----------------|---|-------------|---|-------------|---------|-------------|
| | A [kg] | B [kg] | C [kN] | D [m ²] | E [m ²] | F [cm ²] | G [cm ²] | (Realistic Worst Case) H [kN] J [lb.] K [kN/cm ²] L [kN/m ²] M [lb./in ² (psi)] | | | (Transit) N [kN/m ²] P [lb./in ² (psi)] | | (Working) 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 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 |
| HR12L (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 |
| HR12L (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 |
| HR12N (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 |
| 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 | 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.
- 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⁾ (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 _d] | 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 |
| 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 |
| 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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|--|--|
| (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. |
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