



FLOOR AND POINT LOADINGS. USA

10/02/11

Trailers & Self Drives

MODEL	MAX WEIGHT LBS	AREA in ²	AREA ft ²		FLOOR LOADING lbs/ft ²		POINT LOADING		
	(0) MACHINE + SWL	(1) FOOT (TIRE)	(2) WORKING	(3) TRANSIT	(4) WORKING	(5) TRANSIT	(6) PSI	(7) PSI	(8) LBS.
TM34M	2552 + 500 2992	28.3	8.86' x 8.86' 78.50	N/A	38.11	N/A	64	N/A	1795
TM34H	2860 + 500 3360	50.3	11.02' x 11.65' 128.38	N/A	26.17	N/A	39	N/A	2016
TM34T	3080 + 500 3580	50.3	12.00' x 11.65' 139.8	N/A	25.61	N/A	42	N/A	2148
TM40	3234 + 500 3734	50.3	11.00' x 10.50' 115.50	N/A	32.33	N/A	45	N/A	2240
TM42	3740 + 500 4240	48.7	12.76' x 12.53' 159.88	N/A	26.52	N/A	55	N/A	2544
TM50M	4180 + 500 4680	50.3	14.44' x 13.94' 201.29	N/A	23.25	N/A	55	N/A	2808
TM50MGE	4400 + 500 4900	50.3	14.44' x 13.94' 201.29	N/A	24.34	N/A	58	N/A	2940
TM50H	4180 + 500 4680	83.7	14.52' x 14.34' 208.22	N/A	23.34	N/A	33	N/A	2808
TM50HGE	4400 + 500 4900	83.7	14.52' x 14.34' 208.22	N/A	23.53	N/A	35	N/A	2940
TM64	7700 + 500 8200	105.4 (58)	16.40' x 14.76' 242.06	N/A	33.87	N/A	47	N/A	4920
SD34DE	4972 + 500 5472	50.3	12.00' x 11.65' 139.8	5.8' x 5.25' 30.45	39.14	179.7	65	N/A	3283
SD50 2WD	5390 + 500 5890	83.7 (78)	14.52' x 14.34' 208.22	7.87' x 5.08' 39.98	28.29	147.32	42	N/A	3534
SD50 4WD	6105 + 500 6605	83.7 (78)	14.52' x 14.34' 208.22	7.87' x 5.08' 39.98	31.72	165.21	47	N/A	3963
SD64	8910 + 500 9410	105.4 (87)	15.09' x 14.04' 211.86	7.22' x 6.56' 47.36	26.65	119.21	67	N/A	5646



FLOOR AND POINT LOADINGS. USA

10/02/11

Track Drive Models

MODEL	MAX WEIGHT LBS	AREA in ²	AREA ft ²		FLOOR LOADING lbs/ft ²		POINT LOADING		
	(0) MACHINE + SWL	(1) FOOT (TIRE)	(2) WORKING	(3) TRANSIT	(4) WORKING	(5) TRANSIT	(6) PSI	(7) PSI	(8) LBS.
TD34T (Variable width)	3630 + 500 4130	50.27	14.63' x 11.65' 170.44	4.56' x 4.92' = (22.44) 4.56' x 0.79' x 2 = 7.2	24.23	(184.04) 573	49	N/A	2478
TD34T (Fixed Width)	4070 + 500 4570	50.27	14.63' x 11.65' 170.44	4.56' x 4.92' = (22.44) 4.56' x 0.79' x 2 = 7.2	26.81	(203.65) 634	54	N/A	2742
TD34TN (Variable Width)	3894 + 500 4158	50.27	11.68' x 9.61' 112.24	4.56' x 3.77' = (17.19) 4.56' x 0.79' x 2 = 7.2	37.04	(241.88) 666	49	N/A	2495
TD42T	4455 + 500 4955	48.7	12.76' x 12.53' 159.9	4.56' x 4.59' = (20.93) 4.56' x 0.82' x 2 = 7.48	30.99	(236.74) 662	61	N/A	2973
TD50T	5325 + 500 6825	83.70	13.78' x 13.78' 189.89	5.28' x 6.07' = (32.05) 5.28' x 0.85' x 2 = 9	34.94	(212.95) 758	49	N/A	4095

Note! The point loadings of all trailer units, self drive or track mount machines can be altered as desired by the use of larger pads under the jack feet, or spreader plates. This may be made from substantially thick plywood or metal, so long as the plate itself is capable of transmitting the load over the chosen area. Using A material of insufficient stiffness makes little difference to the initial point loading, i.e. will not work as a load spreader.



FLOOR AND POINT LOADINGS. USA

10/02/11

Self Propelled Models

MODEL	MAX WEIGHT LBS	AREA in ²	AREA ft ²		FLOOR LOADING lbs/ft ²		POINT LOADING		
	(0) MACHINE + SWL	(1) TIRE	(2) WORKING	(3) TRANSIT	(4) WORKING	(5) TRANSIT	(6) PSI	(7) PSI	(8) LBS.
SP26	5280 + 500 5780	39.99	N/A	5.91' x 4.92' = 29.08	N/A	198.76	87	N/A	3468
SP26 (SOLID TIRES)	5280 + 500 5780	10.85	N/A	5.91' x 4.92' = 29.08	N/A	198.76	320	N/A	3468
SP34	6435 + 500 6935	59.37	N/A	5.91' x 5.91' = 34.93	N/A	198.54	65	N/A	3860
SP34N	7480 + 500 7980	59.37	N/A	5.91' x 4.92' = 29.08	N/A	274.4	81	N/A	4788
SP34N (SOLID TIRES)	7480 + 500 7980	10.85	N/A	5.91' x 4.92' = 29.08	N/A	274.4	441	N/A	4788
SP34 4X4	7350 + 500 7850	78.12	N/A	5.91' x 5.25' = 31.02	N/A	253	60	N/A	4710
SP45N	14850 + 500 15350	52.70	N/A	6.07' x 4.92' = 29.86	N/A	514	175	N/A	9212
SP45 4X4	14110 + 500 14610	39.68	N/A	6.07' x 6.50' = 39.46	N/A	370.25	221	N/A	8766
SP45N	15900 + 500 16400	52.70	N/A	6.07' x 4.92' = 29.86	N/A	549.23	186	N/A	9840
SP50 4X4	13700 + 500 14200	39.68	N/A	6.07' x 6.50' = 39.46	N/A	359.86	214	N/A	8520
SP53 4x4	13700 + 500 14200	80.14	N/A	7.55' x 7.38' = 55.72	N/A	254.85	106	N/A	8520
SP64 4X4	14190 + 500 14690	57.35	N/A	7.55' x 7.38' = 55.72	N/A	267.65	155	N/A	8948



COLUMN DESCRIPTION

(0) Total weight (weight of machine + the maximum safe working load)

(1) Area of Foot plate is indicated where a machine has outriggers; self-propelled machines show the tire area in brackets.

(2) The working area is the machine footprint, in the case of trailer units it is over the footplate outside edges.

(3) The transit area for a self-propelled machine is the wheelbase multiplied by the overall transit width, in the case of the Track Drive machines (TD) it is the track length in contact with the ground multiplied by the overall track widths.

(4) Working area loadings are given for trailer units, and are the weight of the machine and operator(s) divided by the floor area of the machine when jacked to the extreme.

(5) Transit area loadings are given for self-propelled 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. For the Track Drive machines (TD) an additional calculation has been given for the weight spread over the total track area itself. This is the figure below the bold one in brackets.

(6) Point loadings are given in all cases. They are the total weight of the machine and operator(s), supported on the area of one foot or tire 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.

(7) Multiply **P.S.I** by 144 to give **lbs/ft²**, i.e., 82psi = 11808 lbs/ft².

(8) The final column gives the point load as a mass, and not as had been calculated before, a pressure. This is gained by multiplying the floor loading pressure in column 6 by the area of the foot, or tire, listed in the third column from the left.