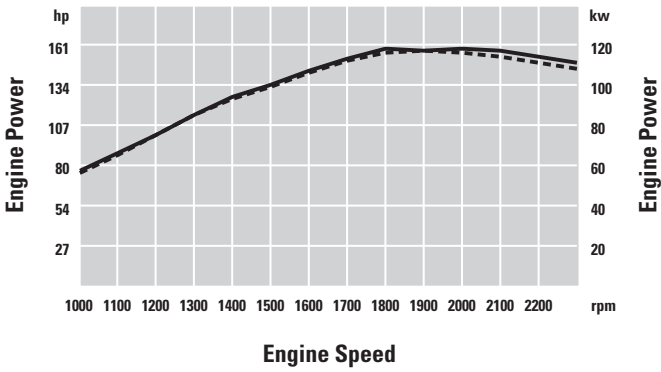
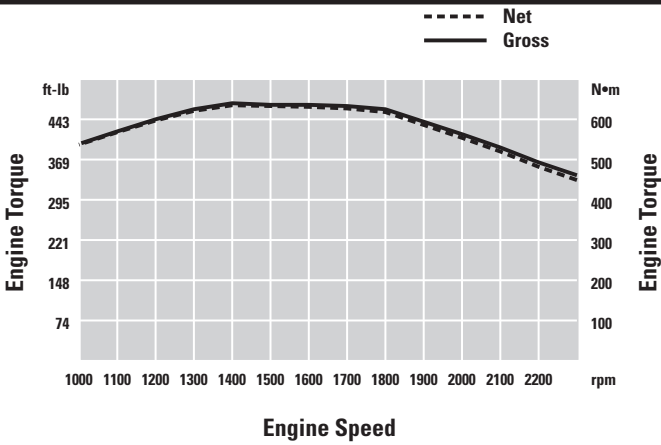


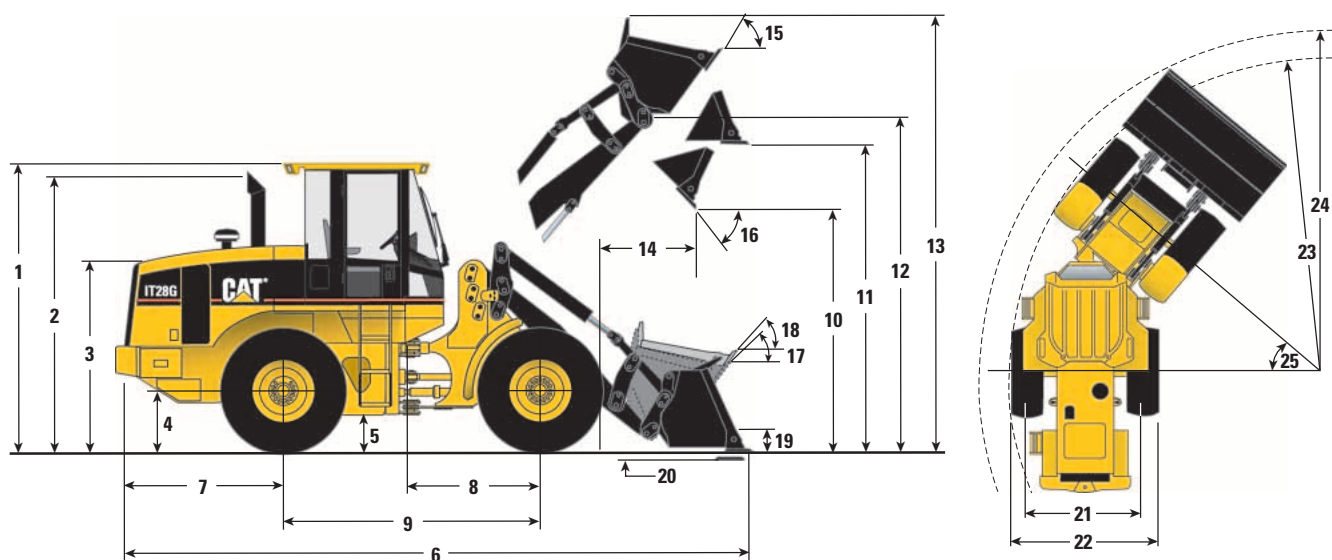
IT28G Integrated Toolcarrier



IT28G Integrated Toolcarrier

Dimensions with Bucket

All dimensions are approximate. Dimensions vary with bucket. Refer to Operating Specifications chart.



1	Height to top of ROPS/FOPS	3268 mm	(10 ft 9 in)
2	Height to top of exhaust stack	3184 mm	(10 ft 5 in)
3	Height to top of hood	2197 mm	(7 ft 2 in)
4	Height to center of axle	684 mm	(2 ft 3 in)
5	Ground clearance	407 mm	(1 ft 4 in)
6	Overall length	7256 mm	(23 ft 10 in)
7	Length – rear axle to bumper	1973 mm	(6 ft 6 in)
8	Center line of front axle to hitch	1450 mm	(4 ft 9 in)
9	Wheel base length	2900 mm	(9 ft 6 in)
10	Dump clearance at maximum lift and 45° dump	2967 mm	(9 ft 9 in)
11	Bucket clearance at maximum lift and level	3694 mm	(12 ft 1 in)
12	Bucket pin height at maximum lift	3980 mm	(13 ft 1 in)
13	Overall height – bucket raised	5045 mm	(16 ft 7 in)
14	Reach at maximum lift and 45° dump	958 mm	(3 ft 2 in)
15	Rack back angle at maximum lift	55°	
16	Dump angle at maximum lift	45°	
17	Rack back angle at ground	53°	
18	Rack back angle at carry	56°	
19	Carry height	382 mm	(1 ft 3 in)
20	Digging depth	108 mm	(4.3 in)

Dimensions listed are for IT28G with optional counterweight, standard lubricants, full fuel tank, Cab with A/C, sliding glass, Cat Contour Seat, Limited Slip axles with dual disc rear, 4L 4V hydraulics, heavy duty cooler, supplemental steering, roading fenders, reversing fan, back-up alarm, guards, ride control, radio, 2.0 m³ (2.6 yd³) bucket with bolt-on cutting edge, 80 kg (176 lb) operator and 20.5 R25 radial (L-3) XHA tires. Refer to Operating Specifications for bucket variations.

	17.5-25 12PR (L-2) Tires		20.5-25 12PR (L-2) Tires	
21	Width at tread center	1950 mm (77 in)	1950 mm (77 in)	
22	Overall width over tires	2427 mm (96 in)	2537 mm (100 in)	
23	Minimum turning radius over tire	5228 mm (17 ft 2 in)	5233 mm (17 ft 2 in)	
24	Minimum turning radius over bucket	—	5662 mm (18 ft 7 in)	
25	Steering angle – left/right	40°	40°	
	Change in vertical dimension	–64 mm (–2.5 in)	no change	no change

IT28G Integrated Toolcarrier

Operating Specifications with Bucket

		General Purpose Buckets									Waste/Ag
		With Bolt-On Cutting Edge			With Bolt-On Teeth & Segments*			With Bolt-On Teeth*			With Bolt-On Cutting Edge
Rated bucket capacity (§)	m³	1.8	2.0	2.3	1.8	2.0	2.3	1.7	1.9	2.2	2.8
	yd³	2.3	2.6	3.0	2.3	2.6	3.0	2.2	2.5	2.9	3.6
Struck capacity (§)	m³	1.5	1.7	1.9	1.5	1.7	1.9	1.5	1.6	1.8	2.3
	yd³	2.0	2.2	2.5	2.0	2.2	2.5	2.0	2.1	2.4	3.0
Bucket width		2549	2549	2549	2549	2549	2549	2532	2532	2532	2550
		8'4"	8'4"	8'4"	8'4"	8'4"	8'4"	8'4"	8'4"	8'4"	8'4"
10 Dump clearance at full lift and 45° discharge (§)	mm	2967	2911	2849	2855	2799	2737	2855	2799	2737	2860
	ft/in	9'9"	9'7"	9'4"	9'4"	9'2"	9'0"	9'4"	9'2"	9'0"	9'5"
14 Reach at full lift and 45° discharge (§)	mm	958	1014	1021	1052	1109	1116	1052	1109	1116	1222
	ft/in	3'2"	3'4"	3'4"	3'5"	3'8"	3'8"	3'5"	3'8"	3'8"	4'0"
Reach at 45° discharge and 2130 mm (7'0") clearance (§)	mm	1537	1567	1546	1578	1605	1580	1578	1605	1580	1754
	ft/in	5'1"	5'2"	5'1"	5'2"	5'3"	5'2"	5'2"	5'3"	5'2"	5'9"
Reach with lift arms horizontal and bucket level	mm	2303	2383	2431	2449	2529	2577	2449	2529	2577	2546
	ft/in	7'7"	7'10"	8'0"	8'0"	8'4"	8'5"	8'0"	8'4"	8'5"	8'4"
20 Digging depth (§)	mm	108	108	143	122	122	156	122	122	156	112
	in	4.3"	4.3"	5.6"	4.8"	4.8"	6.1"	4.8"	4.8"	6.1"	4.4"
6 Overall length	mm	7256	7336	7435	7402	7482	7496	7380	7460	7496	7504
	ft/in	23'10"	24'1"	24'5"	24'3"	24'7"	24'7"	24'3"	24'6"	24'7"	24'7"
13 Overall height with bucket at full raise (§)	mm	5045	5080	5238	5045	5080	5238	5045	5080	5238	5352
	ft/in	16'7"	16'8"	17'2"	16'7"	16'8"	17'2"	16'7"	16'8"	17'2"	17'7"
24 Loader clearance radius with bucket in carry position (§)	mm	5662	5680	5770	5712	5731	5831	5712	5731	5831	5845
	ft/in	18'7"	18'8"	18'11"	18'9"	18'10"	19'2"	18'9"	18'10"	19'2"	19'2"
Static tipping load straight (§)	kg	9034	8945	8508	8947	8871	8429	9125	9043	8611	8766
	lb	19,917	19,720	18,757	19,725	19,557	18,583	20,117	19,937	18,984	19,326
Static tipping load full 40° turn (§)	kg	7843	7762	7347	7755	7687	7268	7924	7850	7439	7588
	lb	17,291	17,112	16,197	17,097	16,947	16,023	17,470	17,306	16,400	16,729
Breakout force (§)	kg	11 492	10 631	9640	11 419	10 567	9565	12 306	11 340	10 246	8889
	lb	25,336	23,437	21,253	25,175	23,296	21,087	27,130	25,001	22,589	19,597
Operating weight	kg	12 635	12 653	12 831	12 704	12 713	12 893	12 619	12 628	12 807	12 697
	lb	27,856	27,895	28,288	28,008	28,028	28,424	27,820	27,840	28,235	27,992

Specifications shown are for IT28G with optional counterweight, standard lubricants, full fuel tank, Cab with A/C, sliding glass, Cat Contour Seat, Limited Slip axles with dual disc rear, 4L 4V hydraulics, heavy duty cooler, supplemental steering, roading fenders, reversing fan, back-up alarm, guards, ride control, radio, 2.0 m³ (2.6 yd³) bucket with bolt-on cutting edge, 80 kg (176 lb) operator and 20.5 R25 radial (L-3) XHA tires.

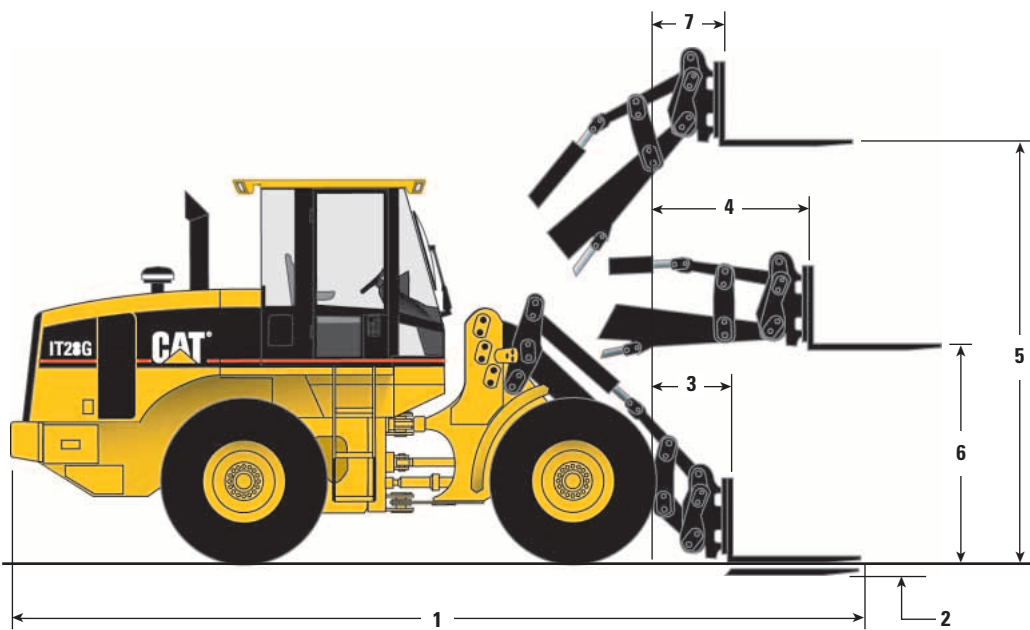
* Dimensions are measured to the tip of the bucket teeth to provide accurate clearance data. SAE standards specifies the cutting edge.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers (SAE), including SAE Standards J732 JUN92 and J742 FEB85 governing loader ratings.

IT28G Integrated Toolcarrier

Dimensions with Pallet Forks

All dimensions are approximate. Dimensions vary with fork length. Refer to Operating Specifications chart below.



1	See Table	
2	9 mm	(0.3 in)
3	750 mm	(2 ft 6 in)
4	1513 mm	(5 ft 0 in)
5	3843 mm	(12 ft 7 in)
6	1923 mm	(6 ft 4 in)
7	703 mm	(2 ft 4 in)

Operating Specifications with Pallet Forks

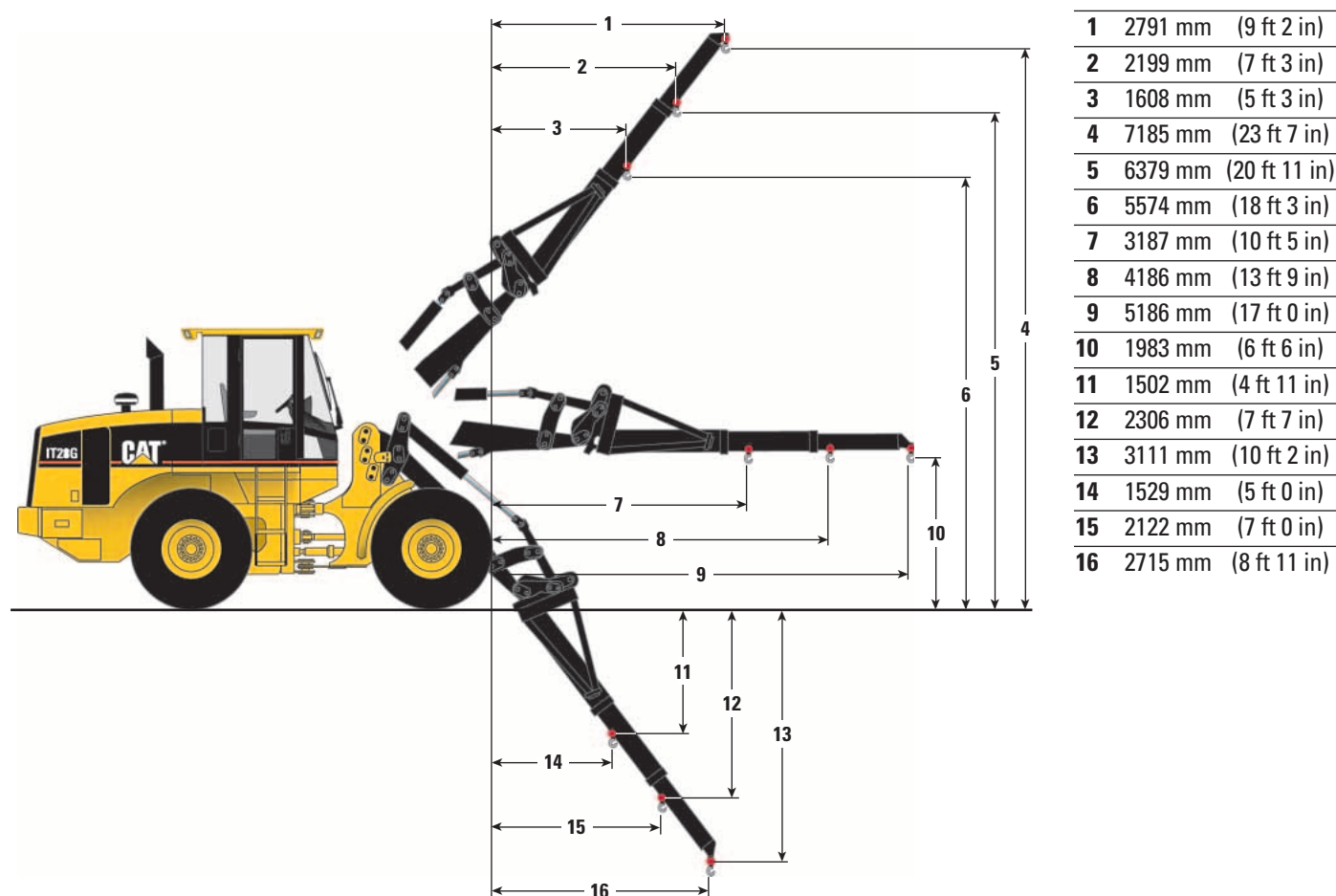
	Fork Tine Length		
	1050 mm (3 ft 5 in)	1200 mm (3 ft 11 in)	1350 mm (4 ft 5 in)
Operating load:			
Per SAE J1197 FEB91 (50% of FTSTL)	3288 kg (7249 lb)	3194 kg (7042 lb)	3105 kg (6844 lb)
Per CEN 474-3, rough terrain (60% of FTSTL)	3946 kg (8700 lb)	3833 kg (8451 lb)	3726 kg (8214 lb)
Per CEN 474-3, firm & level ground (80% of FTSTL)	5262 kg (11,600 lb)	5111 kg (11,268 lb)	4968 kg (10,953 lb)
1 Overall length	7425 mm (24 ft 4 in)	7575 mm (24 ft 10 in)	7725 mm (25 ft 4 in)
Load center	525 mm (21 in)	600 mm (24 in)	675 mm (27 in)
Static tipping load with level arms and forks, straight*	7531 kg (16,603 lb)	7317 kg (16,131 lb)	7115 kg (15,686 lb)
Static tipping load with level arms and forks, full 40° turn*	6577 kg (14,500 lb)	6389 kg (14,085 lb)	6210 kg (13,691 lb)
Operating weight*	12 226 kg (26,954 lb)	12 242 kg (26,989 lb)	12 256 kg (27,020 lb)

* Static tipping and operating weights shown are for IT28G with optional counterweight, standard lubricants, full fuel tank, Cab with A/C, sliding glass, Cat Contour Seat, Limited Slip axles with dual disc rear, 4L 4V hydraulics, heavy duty cooler, supplemental steering, roading fenders, reversing fan, back-up alarm, guards, ride control, radio, 2.0 m³ (2.6 yd³) bucket with bolt-on cutting edge, 80 kg (176 lb) operator and 20.5 R25 radial (L-3) XHA tires. Tipping load is defined by SAE J732 JUN92.

IT28G Integrated Toolcarrier

Dimensions with Material Handling Arm

All dimensions are approximate.



Operating Specifications with Material Handling Arm

	Material Handling Arm Position					
	Retracted		Mid-Position		Extended	
Operating load at 40° full turn	2669 kg	(5883 lb)	1855 kg	(4090 lb)	1543 kg	(3401 lb)
Static tipping load, straight*	5355 kg	(11,806 lb)	4261 kg	(9394 lb)	3542 kg	(7809 lb)
Static tipping load, full 40° full turn*	4677 kg	(10,311 lb)	3711 kg	(8181 lb)	3085 kg	(6801 lb)
Operating weight*	12 103 kg	(26,683 lb)	12 103 kg	(26,683 lb)	12 103 kg	(26,683 lb)

* Static tipping and operating weights shown are for IT28G with optional counterweight, standard lubricants, full fuel tank, Cab with A/C, sliding glass, Cat Contour Seat, Limited Slip axles with dual disc rear, 4L 4V hydraulics, heavy duty cooler, supplemental steering, roading fenders, reversing fan, back-up alarm, guards, ride control, radio, 2.0 m³ (2.6 yd³) bucket with bolt-on cutting edge, 80 kg (176 lb) operator and 20.5 R25 radial (L-3) XHA tires. Tipping load is defined by SAE J732 JUN92.

Note: Machine stability and operating weights are affected by tire size, tire ballast and other attachments.

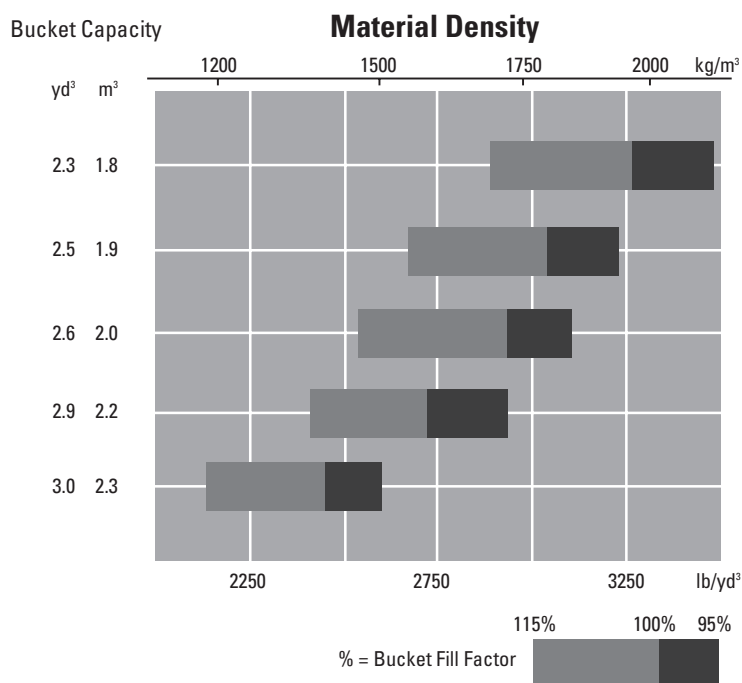
IT28G Integrated Toolcarrier

Typical Material Densities – Loose

	kg/m ³	lb/yd ³
Basalt	1960	3305
Bauxite, Kaolin	1420	2394
Clay		
natural bed	1660	2799
dry	1480	2495
wet	1660	2799
Clay and gravel		
dry	1420	2394
wet	1540	2596
Decomposed rock		
75% rock, 25% earth	1960	3305
50% rock, 50% earth	1720	2900
25% rock, 75% earth	1570	2647
Earth		
dry, packed	1510	2546
wet, excavated	1600	2698
Granite		
broken	1660	2799
Gravel		
pitrun	1930	3254
dry	1510	2546
dry, 6-50 mm (0.2-2")	1690	2849
wet, 6-50 mm (0.2-2")	2020	3406

	kg/m ³	lb/yd ³
Gypsum		
broken	1810	3052
crushed	1600	2698
Limestone		
broken	1540	2596
crushed	1540	2596
Sand		
dry, loose	1420	2394
damp	1690	2849
wet	1840	3102
Sand and clay		
loose	1600	2698
Sand and gravel		
dry	1720	2900
wet	2020	3416
Sandstone	1510	2546
Shale	1250	2107
Slag		
broken	1750	2950
Stone		
crushed	1600	2698

Bucket Size Selector



IT28G Integrated Toolcarrier

Supplemental Specifications

	Change in Operating Weight		Change in Articulated Static Tipping Load	
	kg	lb	kg	lb
W/O Air conditioner	-48	-106	-40	-88
Canopy, ROPS (less cab)	-198	-437	-163	-359
Counterweight, 175 kg/385 lb (removal)	-290	-639	-436	-961
W/O Guard, crankcase	-17	-37	-20	-44
W/O Guard, power train	-58	-128	-50	-110
W/O Ride control system	-41	-90	-22	-49
W/O Secondary steering	-42	-93	-47	-104
Tires, 1-piece rims				
17.5-25, 12PR (L-2)	-661	-1457	-370	-816
17.5-25, 12PR (L-3)	-582	-1283	-262	-578
17.5-25, radial (L-2/L-3)	-519	-1144	-290	-639
17.5-25, radial (L-2)	-614	-1354	-343	-756
17.5-25, radial (L-3)	-458	-1010	-256	-564
Tires, 3-piece rims				
17.5-25, 12PR (L-2)	-529	-1166	-296	-653
17.5-25, 12PR (L-3)	-457	-1008	-256	-564
17.5-25, radial (L-2/L-3)	-413	-911	-231	-509
17.5-R25, radial (L-2)	-489	-1078	-273	-602
17.5-R25, radial (L-3)	-389	-858	-218	-481
20.5-25, 12PR (L-2)	-240	-529	-134	-295
20.5-25, 12PR (L-3)	-96	-212	-54	-119
20.5-25, radial (L-2/L-3)	-52	-115	-29	-64
20.5-R25, radial (L-2)	-172	-379	-96	-212
20.5-R25, radial (L-3)	0	0	0	0
550/65 R25, radial (L-2)	-196	-432	-110	-243
550/65 R25, radial (L-3)	-136	-300	-76	-168