

	with fuel	empty fuel tank			wheelbase tractor	3,80 m	
measurements	solo tractor	empty trailer	loaded	cargo	distribution	5th wheel location	
front axle	6070	6000	6680	680	0,175	3,13 m	
rear axle	2560	3540	6740	3200	0,825	0,67 m	DAF doc: 0.74 m (for a wheelbase of 3.8 m)
trailer axle 1	0	1800	3940	2140			
trailer axle 2	0	1900	4040	2140	additional load on 5th wheel	3880 kg	
trailer axle 3	0	1920	4020	2100			
total	8630	15160	25420	10260			
Tractor CG							
estimated mass of empty semi-trailer		7100					documents Krone trailer: 7020 kg
mass of tractor		8060					RDW: 8289 kg
additional load 5th wheel due to empty trailer		1480					
additional load on front axle		259					
additional load on rear axle		1221					
				CG location tractor in experiments			DAF doc (XF 95 champion)
empty tractor front		5741		a1	1,09 m		5223
empty tractor rear		2319		b1	2,71 m		2100
extra fuel solo tractor		570					
additional load on front axle		329					
additional load on rear axle		241					
Semitrailer CG							
	mass	7100	17360	10260			
axle position relative to 5th wheel							
moment calculation	6,20	11160	24428	13268			
	7,50	14250	30300	16050			
	8,80	16896	35376	18480			
	a2	5,96	5,19	4,66 m			
	b2	1,54	2,31	2,84 m			

note: cargo put in the front part of the semitrailer