

Commercial Vehicle Show 2002 NEC Birmingham

VOLVO FM12 84R B2HS High rigid T-ride -5100 L1EH1

basic wheelbase (first front axle - first rear axle)	mm	5100
front overhang	mm	1360
front axles bogie wheelbase	mm	1793
(front axles axle weights are expected to be distributed as even)		
2-AXLED REAR BOGIE		
bogie wheelbase	mm	1370
bogies centre of gravity backwards from bogies first axle	mm	685
measurement: first front axle - rear of cab	mm	497

	x CoG	Fa	Ra	Total
+ Chassis weight		6445	3590	10035
+ number of persons 1	0	89	-14	75
+ body weight 80 kg/m	5140	55	365	420
1 ATLAS 300.1-10.3/3	1500	3423	482	3905
2 NUMMI ENC 112-172/90 x4500	2355	151	64	215
3 Support Legs	7170	-71	321	250
4 TANK 510DM3	3175	320	280	600
5 EXHAUST Fo1_exhaust	547	80	-5	75
+ Towing coupling	7420	-33	133	100
= weights unloaded :		10460	5215	15675
+ carrying capacity	5140	2154	14171	16325
= Weights loaded :		12614	19386	32000
:: Gross Vehicle Weight		16000	19000	32000
TRAILER				
+ own weight		2530	2410	4940
= weights unloaded :		2530	2410	4940
+ carrying capacity	3025	5942	7118	13060
= Weights loaded :		8472	9528	18000
:: trailer gross weight		10000	10000	18000

BODY MEASUREMENTS with evenload : (x1 = 2510 mm)				
body length	mm	4713	...	4075
overhang	mm	1473	...	835
overhang %	%	25	...	14
truck length	mm	8618	...	7980
loadpoint	mm	884	...	1203

! R.A.W. exceeds 2 %

TIPPING CALCULATION: Truck
NUMMI ENC 112-172/90 x4500

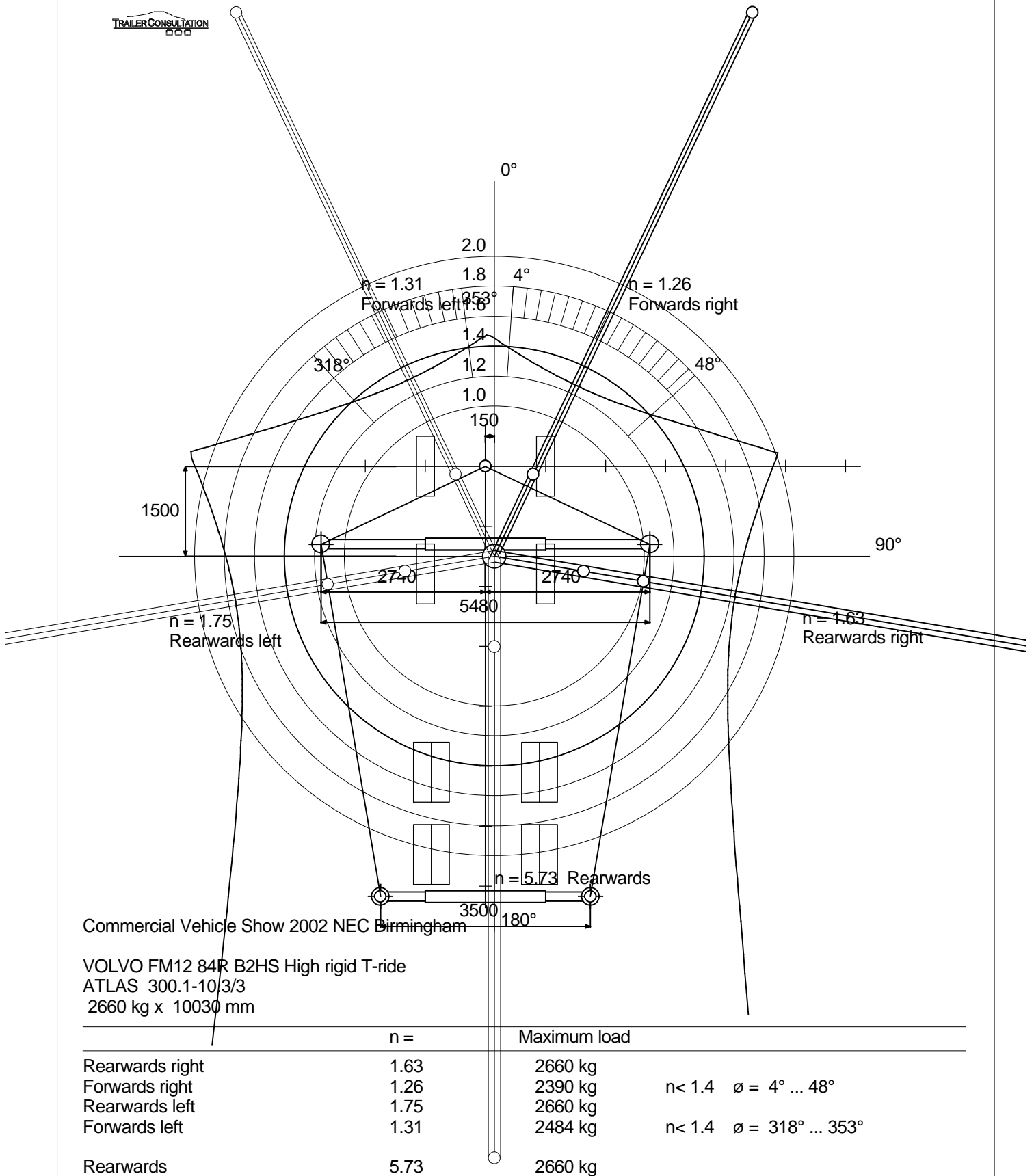
body length L =	mm	5260
body height H =	mm	1000
tipping gear location forwards from tipping hinge A =	mm	4710
body overhang O =	mm	600
pressure (bar)		170

27/03/02 14:27 D:\VB6\TrW2000\Data\CVS2002_VOLVO_FM

Commercial Vehicle Show 2002 NEC Birmingham

VOLVO FM12 84R B2HS High rigid T-ride -5100 L1EH1

stroke	mm	4500
stages		4
max angle (°)		57.1
Number of cylinders		1
Stage diameters	152 132 110 90 90	
Tipping angle (°) .. Lift capacity (ton)		
0ø.. 32ton	14ø.. 32ton	28ø.. 32ton
42ø.. 32ton	57ø.. 32ton	



Commercial Vehicle Show 2002 NEC Birmingham

VOLVO FM12 84R B2HS High rigid T-ride
ATLAS 300.1-10/3/3
2660 kg x 10030 mm

	n =	Maximum load	
Rearwards right	1.63	2660 kg	
Forwards right	1.26	2390 kg	$n < 1.4 \quad \varnothing = 4^\circ \dots 48^\circ$
Rearwards left	1.75	2660 kg	
Forwards left	1.31	2484 kg	$n < 1.4 \quad \varnothing = 318^\circ \dots 353^\circ$
Rearwards	5.73	2660 kg	

Trailer Consultation Fax +358 6 831 1008
vm

__CraneWIN 2002-01__ 27/03/02 14:30

