

SCANIA

SPECIFICATION

P-, G- and R-series

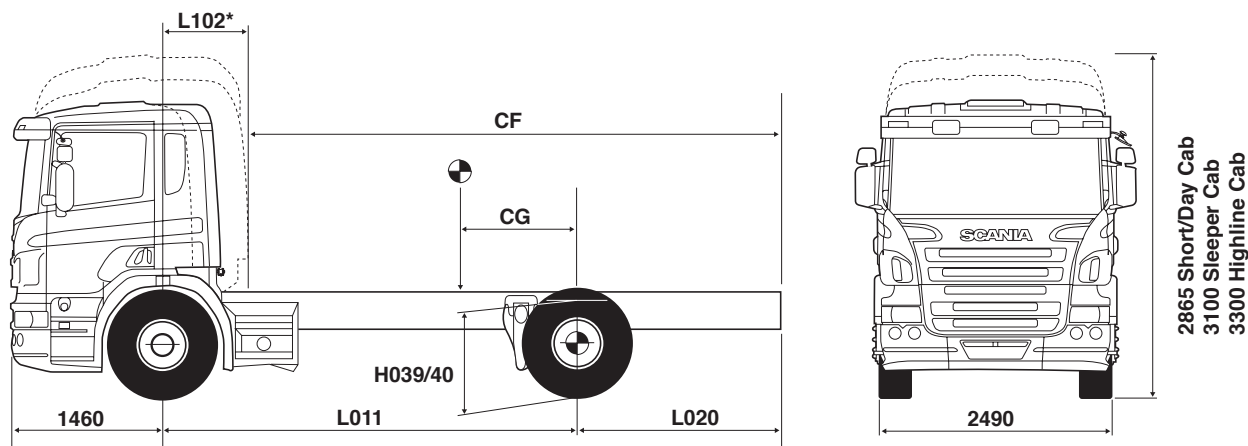
P 250 DB4x2MNA

Euro 6

19000Kg GVW

TWO AXLE RIGID/DRAWBAR

P



L102 (centreline of front axle to start of bodywork) Short – 450 Day – 610 Sleeper – 875

* Increases by 15mm with air deflectors

DIMENSIONS (mm)

L011		4500	4700	4900	5100	5300	5500	5700	5900	6300
L105	Day cab	6298	6634	6972	7310	7652	7992	8336	8676	9388
	(feet)	(20.7)	(21.8)	(22.9)	(24.0)	(25.1)	(26.2)	(27.3)	(28.5)	(30.8)
	Sleeper	5808	6146	6486	6826	7172	7512	7858	8200	8918
	(feet)	(19.1)	(20.2)	(21.3)	(22.4)	(23.5)	(24.6)	(25.8)	(26.9)	(29.3)
CF	Day cab	6290	6630	6970	7310	7650	7990	8330	8670	9380
	Sleeper	5805	6145	6485	6825	7165	7505	7855	8195	8915
L020	Day cab	2400	2540	2680	2820	2960	3100	3240	3380	3690
	Sleeper	2180	2320	2460	2600	2740	2880	3030	3170	3490
L020 Max		4000	4000	4000	4000	4200	4400	4400	4400	4120
CG Max	Day cab	972	1015	1057	1100	1138	1180	1219	1261	1331
	Sleeper	954	996	1037	1078	1116	1157	1195	1236	1304
CG Min	Day cab	741	773	804	835	864	894	922	952	996
	Sleeper	721	752	782	812	839	869	896	925	966

H039 unladen	H040 laden	Frame Height
1000 mm	970 mm	Normal (N)
878 mm	854 mm	Low (L) ¹

L105 = Max. bodylength to suit weight distribution. CG dimension for body and payload calculated for standard model at standard GB plated weights. Height dimensions measured to top of frame at rear axle centreline. Rear overhang (L020) can be specified in 10 mm steps up to maximum – check legality.

PLATED WEIGHTS – AWR

		Front Axle	Rear Axle	GVW	GTW \$
Design					
Gross	Kg	7500†	11500	19000	22500
Legal					
Max in GB	Kg	7100¶	11500	18000	21500

† Front axle capacity up to a maximum of 9000 kg available as option.

¶ Legal front axle capacity limited by tyres.

\$ GTW 28000kg design and GB when fitted with trailer brakes. Increases to 40000kg with '280', '320' or '360' engine and R660 rear axle gear. GR905 gearbox recommended as minimum.

Plated weights dependent on statutory tyre limitations.

CHASSIS/CAB WEIGHTS

(Tolerance +/- 2.5%)

Axle distance	Front	Rear	Total (kg)
4500	4372	1711	6083
4700	4374	1725	6099
4900	4382	1755	6137
5100	4386	1778	6164
5300	4395	1780	6175
5500	4400	1798	6198
5700	4413	1821	6234
5900	4417	1835	6252
6300	4487	1989	6476

Chassis cab weight includes 20 litres of fuel, oil and water. Driver not included. See overleaf for option weights.

P 250 DB4x2MNA

SL5451292
September 13

ENGINE (EURO 6)

Scania '9 litre' vertical five cylinder in-line turbocharged intercooled direct injection diesel with Scania XPI.

'250'

Type:	DC09-111
Swept Volume:	9.3 litres
Bore:	130 mm
Stroke:	140 mm
Compression Ratio:	18:1
*Max. Power:	184kW (250 h.p.) at 1900 rev/min
*Max. Torque:	1250 Nm (922 lbf.ft) between 1000 and 1350 rev/min
Engine Management System:	EMS incorporating Cruise Control and speed limiter
Emission Control:	Scania EGR/SCR
Cooling:	Water cooled with rubber mounted 2 row radiator and electronically regulated fan
Coolant Capacity:	42 litres
Oil Capacity:	31 litres
Air Cleaner:	Dry replaceable paper element
Engine driven PTO provision:	ED120

Options:-

(1) Details as above except for the following:-

'280'

Type:	DC09-113
*Max. Power:	206kW (280 h.p.) at 1900 rev/min
*Max. Torque:	1400 Nm (1033 lbf.ft) between 1000 and 1350 rev/min

(2) Details as above except for the following:-

'320'

Type:	DC09-108
*Max. Power:	235kW (320 h.p.) at 1900 rev/min
*Max. Torque:	1600 Nm (1180 lbf.ft) between 1050 and 1300 rev/min

Emission Control: Scania SCR

(3) Details as above except for the following:-

'360'

Type:	DC09-112
*Max. Power:	265kW (360 h.p.) at 1900 rev/min
*Max. Torque:	1700 Nm (1254 lbf.ft) between 1100 and 1350 rev/min

Emission Control: Scania SCR

*With fan at max. slip

CLUTCH

Type:	Single dry plate
Operation:	Air assisted with clutch wear protection

GEARBOX

Type:	Scania GR875 eight speed synchromesh (four speed main fitted with two speed planetary range unit)
Oil Capacity:	11.1 litres

GEAR RATIOS

Low Range		High Range	
1st	9.17:1	5th	2.45:1
2nd	6.26:1	6th	1.67:1
3rd	4.65:1	7th	1.24:1
4th	3.75:1	8th	1.00:1
Reverse	11.00:1		

Options:-

(1) Type: Scania GR905 - eight speed synchromesh (four speed main fitted with two speed planetary range unit) plus one crawler gear.

(2) Type: Scania GRS895 twelve speed synchromesh (three speed main fitted with two speed planetary range unit plus splitter).

(3) Opticruise: Gearchange management system - all engines with GR875 or GRS895

(4) Type: Automatic six speed electronically controlled - R660 rear axle gear mandatory.

REAR AXLE

Type:	Scania ADA1100
Capacity:	11500 Kg
Pressed steel housing with magnetic oil drain plug.	

REAR AXLE GEAR

Type:	Scania R560
Single reduction hypoid. Crown wheel and pinion matched during manufacture.	

Options:- (1) Type: Scania R660 with differential lock

Type:	Scania AM740 I section rigid beam - AMA740 with air suspension.
Capacity:	7500Kg
Options:- (1) Scania AM950 - capacity 9000kg	
(2) Scania AMA860 - air only - capacity 8000kg	

STEERING

Type:	Recirculating ball. Hydraulically assisted power steering					
Steering wheel:	Diameter 450mm. Lock to lock 4.9 turns					
Turning circle:	Kerb to kerb					
4.5m A/D	16.4m	4.7m A/D	17.1m	4.9m A/D	17.8m	
5.1m A/D	18.5m	5.3m A/D	19.2m	5.5m A/D	19.8m	
5.7m A/D	20.6m	5.9m A/D	21.4m	6.3m A/D	22.8m	

SUSPENSION

Type Front: Semi-elliptic parabolic springs with swinging shackles and threaded shackle pins.

Type Rear: Quarter elliptic with air bellows (A). Chassis height may be raised or lowered to assist loading. Double acting telescopic shock absorbers are fitted to both axles.

Options:- (1) Front anti-roll bar

SPRING SIZE

	Front
Length:	1820mm
No. of leaves	2 x 32mm
Design Capacity	7500Kg

Options:-

(1) Air suspension on front axle - design capacity 7500 or 8000 kg.

(2) 3 x 29mm leaves - design capacity 8500 kg.

(3) 4 x 28mm leaves - design capacity 9000 kg.

WHEELS & TYRES

8.25 x 22.5 ten stud spigot mounted disc wheels fitted with 295/80R22.5 radial tubeless tyres.

Options:- (1) 9.00 x 22.5 wheels with 315/80R22.5 tyres

(2) 11.75 x 22.5 wheels with 385/65R22.5 or 385/55R22.5 tyres - front axle only

(3) Aluminium wheels - machined or polished surface finish

(4) Front wheel embellishers

(5) Tyre Pressure Monitoring - TPM

FRAME

Type:	F700 - 50
	F800 - 50 With front axle design > 8000 kg With air suspension front and rear With 'Low' chassis height
	F950 - 50 With axle distance 6300mm and for all 'H' duty class Flat top constant depth 'U' channel with riveted crossmembers.

Sidemember Dimensions:

F700 - 270 x 90 x 7mm

F800 - 270 x 90 x 8mm

F950 - 270 x 90 x 9.5mm

Pre-drilled for bodywork mounting brackets

Width over parallel section of frame = 770mm

Bumper: Aerodynamic incorporating FUP

Options:- (1) Steel bumper - increases front overhang to 1510mm.

(2) Centre tow pin - steel bumper only.

BRAKE SYSTEM

Type:	Ventilated disc brakes on all axles. Dual circuit, full air, EC brake system incorporating Category 1 ABS and Traction Control. Electronic signalling with pneumatic back-up. Pad wear indicator. Brake pipes manufactured from either rust protected steel or high impact synthetics
Service Circuit:	Actuates all truck brakes
Secondary Circuit:	First position of park brake lever actuates spring chambers on both axles
Parking Brake:	Actuates spring chambers on both axles
Exhaust Brake:	Air actuated operated by brake pedal
Brake Antifreeze Protection:	Air dryer
Brake Wear Adjusters:	Automatic
Options:-	(1) 2 line EC trailer brake pipes to rear of chassis. (2) Scania Hydraulic Retarder. (3) ESP – Electronic Stability Programme.

BRAKE DIMENSIONS

Pad lining area:	2 x 190cm ² on all axles
Swept area of each disc:	2 x 940cm ²

ELECTRICAL SYSTEM

Type:	24V neg (-ve) earth	Alternator:	100A
Batteries:	Twin 140Ah		
Rear H.I. lamps, Reversing lights, Battery connection - 200A			
Options:-	(1) 180Ah batteries, (2) 225Ah batteries, (3) 150A alternator, (4) Dual battery system, (5) Bodywork electrical preparation – see separate document.		

FUEL TANK

1 x 300 litre aluminium RHS
AdBlue tank on RHS - capacity 47 litres.

Options:- Capacity - 80 litres

Options:- (Minimum axle distance and suspension type in brackets)

	LH Side	RH Side	LH Side	RH Side
Steel - G 150	150	150	Aluminium - W 200	200
200	200	300	300	300
300	300	350	350	350
450	450	400	400	400
		500	500	500
		600	600	600
		700	700	700

Tank sizes can be supplied in LH + RH combinations of the above but steel and aluminium cannot be mixed. Sides viewed from rear.

GENERAL EQUIPMENT

Front tow pin

Options:-

- (1) Vertical exhaust outlet – N/A with ADR to EXII/EXIII or FL.
- (2) ADR to EXII/EXIII, FL, OX or AT
- (3) Scania Lane Departure Warning (LDW)

INSTRUMENTS & CONTROLS

Two man, one day, EC digital tachograph, rev-counter and gauges for coolant temperature and fuel. Central display for vehicle information and warning messages. Six speed wipers with four jet integral screen wash. Halogen headlamps adjustable from cab for correction of beam height. Warning lights for all major systems grouped within easy vision.

Instrument panel of modular design with switches and controls grouped according to usage. All instruments are back-lit and non-reflective. Impact absorbing, adjustable steering wheel with column lock.

CAB

CP16 Day Cab

Please see separate specification – 'Scania Cabs' for equipment levels.

Options:-

- (1) CP19 Sleeper Cab
- (2) CP14
- (3) CP19 Highline Cab

P.T.O. OPTIONS

For applicability and specification information please visit :-

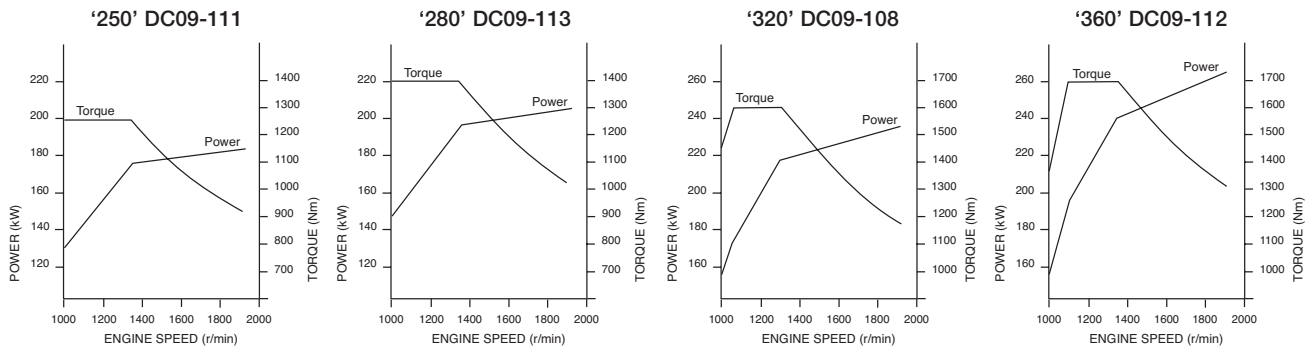
www.scania.co.uk/trucks/ > Bodybuilder > Bodywork Information > Power take-offs and hydraulics.

WEIGHTS FOR OPTIONAL EQUIPMENT IN KILOGRAMS (Front – Rear – Total)

Axle Distance	45	47	49	51	53	55	57	59	63
DC09-108/112 engines	-39 +2 -37	-39 +2 -37	-39 +2 -37	-39 +2 -37	-39 +2 -37	-39 +2 -37	-39 +2 -37	-39 +2 -37	-39 +2 -37
GR905	+34 +8 +42	+34 +8 +42	+34 +8 +42	35 +7 +42	35 +7 +42	35 +7 +42	35 +7 +42	+36 +6 +42	+36 +6 +42
GRS895	+2 0 +2	+2 0 +2	+2 0 +2	+2 0 +2	+2 0 +2	+2 0 +2	+2 0 +2	+2 0 +2	+2 0 +2
AM950 front axle	+13 0 +13	+13 0 +13	+13 0 +13	+13 0 +13	+13 0 +13	+13 0 +13	+13 0 +13	+13 0 +13	+13 0 +13
Front anti-roll bar	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33
Air suspension front	+40 +15 +55	+40 +15 +55	+40 +15 +55	+40 +15 +55	+40 +15 +55	+40 +15 +55	+40 +15 +55	+40 +15 +55	+40 +15 +55
3 x 29mm f/springs	+44 0 +44	+44 0 +44	+44 0 +44	+44 0 +44	+44 0 +44	+44 0 +44	+44 0 +44	+44 0 +44	+44 0 +44
4 x 28mm f/springs	+73 0 +73	+73 0 +73	+73 0 +73	+73 0 +73	+73 0 +73	+73 0 +73	+73 0 +73	+73 0 +73	+73 0 +73
315/80 tyres/ 9.00 rims	+18 +36 +54	+18 +36 +54	+18 +36 +54	+18 +36 +54	+18 +36 +54	+18 +36 +54	+18 +36 +54	+18 +36 +54	+18 +36 +54
385/55 tyres/ 11.75 rims	+46 N/A +46	+46 N/A +46	+46 N/A +46	+46 N/A +46	+46 N/A +46	+46 N/A +46	+46 N/A +46	+46 N/A +46	+46 N/A +46
385/65 tyres/ 11.75 rims	+54 N/A +54	+54 N/A +54	+54 N/A +54	+54 N/A +54	+54 N/A +54	+54 N/A +54	+54 N/A +54	+54 N/A +54	+54 N/A +54
Aluminium Wheels									
8.25x22.5	-24 -48 -72	-24 -48 -72	-24 -48 -72	-24 -48 -72	-24 -48 -72	-24 -48 -72	-24 -48 -72	-24 -48 -72	-24 -48 -72
9.00x22.5	-30 -60 -90	-30 -60 -90	-30 -60 -90	-30 -60 -90	-30 -60 -90	-30 -60 -90	-30 -60 -90	-30 -60 -90	-30 -60 -90
11.75x22.5	-44 N/A -44	-44 N/A -44	-44 N/A -44	-44 N/A -44	-44 N/A -44	-44 N/A -44	-44 N/A -44	-44 N/A -44	-44 N/A -44
F800 frame	+32 +51 +83	+32 +51 +83	+32 +51 +83	+33 +56 +89	+34 +58 +92	+34 +58 +92	+34 +58 +92	+35 +67 +102	N/A
F950 frame	+62 +93 +155	+63 +98 +161	+63 +104 +167	+64 +109 +173	+66 +112 +178	+66 +120 +186	+67 +125 +192	+68 +130 +198	Std
Retarder	+74 +15 +89	+75 +14 +89	+75 +14 +89	+76 +13 +89	+77 +12 +89	+78 +11 +89	+78 +11 +89	+78 +11 +89	+79 +10 +89
180Ah Batteries	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17
225Ah Batteries	+45 +11 +56	+45 +11 +56	+45 +11 +56	+45 +11 +56	+45 +11 +56	+45 +11 +56	+45 +11 +56	+45 +11 +56	+45 +11 +56
Dual Batteries	+35 +7 +42	+35 +7 +42	+35 +7 +42	+35 +7 +42	+35 +7 +42	+35 +7 +42	+35 +7 +42	+35 +7 +42	+35 +7 +42
Std. Tank Full	+140 +84 +224	+143 +81 +224	+146 +78 +224	+149 +75 +224	+152 +72 +224	+155 +69 +224	+157 +67 +224	+160 +64 +224	+164 +60 +224
*1 x 450l G	+72 +99 +171	+76 +95 +171	+80 +91 +171	+84 +87 +171	+87 +84 +171	+90 +81 +171	+93 +78 +171	+96 +75 +171	+100 +71 +171
Vertical exh outlet	+45 +12 +57	+45 +12 +57	+45 +12 +57	+45 +12 +57	+45 +12 +57	+45 +12 +57	+45 +12 +57	+45 +12 +57	+45 +12 +57
CP14 cab	-53 -2 -55	-53 -2 -55	-53 -2 -55	-53 -2 -55	-53 -2 -55	-53 -2 -55	-53 -2 -55	-53 -2 -55	-53 -2 -55
CP19 sleeper cab	+73 +6 +79	+73 +6 +79	+73 +6 +79	+73 +6 +79	+73 +6 +79	+73 +6 +79	+73 +6 +79	+73 +6 +79	+73 +6 +79
CP19 Highline cab	+102 +9 +111	+102 +9 +111	+102 +9 +111	+102 +9 +111	+102 +9 +111	+102 +9 +111	+102 +9 +111	+102 +9 +111	+102 +9 +111
Air deflectors-CP14	+44 +2 +46	+44 +2 +46	+44 +2 +46	+44 +2 +46	+44 +2 +46	+44 +2 +46	+44 +2 +46	+44 +2 +46	+44 +2 +46
-CP16/19/19H	+43 +3 +46	+43 +3 +46	+43 +3 +46	+43 +3 +46	+43 +3 +46	+43 +3 +46	+43 +3 +46	+43 +3 +46	+43 +3 +46
EG Series PTOs	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18
EK Series PTOs	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47

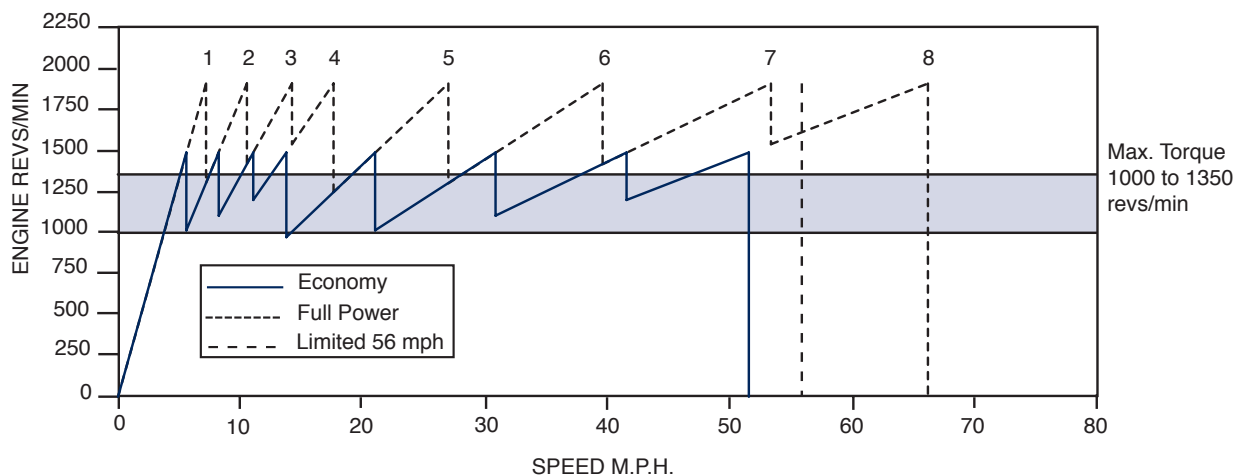
* Additional to standard tank full of fuel.

ENGINE PERFORMANCE



Net engine performance to 80/1269*1999/99EC

GEAR STEP DIAGRAM



SPEED/GRADEABILITY

Gradeability may be limited by tyre adhesion.

Axle gear/ Ratio	Optimum cruising Speed M.P.H.	Gradeability - steady climb - in percent											
		DC09-111			DC09-113			DC09-108			DC09-112		
		18T	28T	40T\$	18T	28T	40T\$	18T	28T	40T\$	18T	28T	40T\$
R 560/660 2.92	46 – 56	34.9	21.8	>35	24.6	31.3	>35	28.4	>35	>35	30.3	>35	>35
R 560/660 3.07	44 – 56	>35	23.0	>35	26.0	33.0	>35	29.9	>35	>35	31.9	>35	>35
R 560/660 3.42 std.	39 – 52	>35	25.8	>35	29.1	>35	>35	33.5	>35	>35	>35	>35	>35
R 560/660 3.80	35 – 47	>35	28.9	>35	32.6	>35	>35	>35	>35	>35	>35	>35	>35
R 560/660 4.22	32 – 42	>35	32.3	>35	>35	>35	>35	>35	>35	>35	>35	>35	>35
R 560/660 4.88	27 – 36	>35	>35	>35	>35	>35	>35	>35	>35	>35	>35	>35	>35

\$40T calculations shown with GR905 gearbox. Calculations assume standard specifications. Performance achieved in operation will depend on conditions, bodywork, gear ratios and tyre specification.

The specifications contained in this publication are intended as a general guide, and not as representations as to the product described, nor as binding in detail.



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