

Truck body and trailer builders

Every axle legal every kilo earning

Tipplers, tankers, boxes and lowbeds: axle loads by moments, payload that goes into the quotation, tanker rollover and weighbridge checks – tied to accounting and inventory.

Loads per axle

Lower of law and axle rating

Payload in the quote

Each kilo of body costs cargo

Weighbridge checked

Weighed against calculated

From bare chassis – to a legal vehicle

In this market the trade is bodybuilding: a bare chassis becomes a tipper, a tanker, a box or a lowbed. VLUERP follows each build from quotation to weighbridge – and every step posts its own entry.



Legal on every axle

A vehicle can pass the weighbridge total and still be over on one axle. Each axle is judged separately – and the limit that binds is named.



Payload sold in money

Every kilogram of body is a kilogram the customer never carries. The quotation shows what lighter bodywork is worth.



Tankers judged part filled

Rollover is judged on the worse case, because a tanker runs part filled on every return trip.



Steel that adds up

Steel bought, steel on the vehicle and steel in the skip, compared steel against steel for every body.

1,705

kg under the plate says

600 t

lost to 100 kg over 10 yrs

0.267

g rollover, part filled

7

screens in the module

Weighed by moments – not by adding up

Gross weight is one number, but every axle has its own. VLUERP places each item where it sits and takes moments, so a load too far back is caught before the lorry is.



Axle loads

- Chassis, subframe, body, options and payload each placed where they sit; the load on every axle comes from moments.
- Each axle is judged against the lower of the legal limit and the axle maker's rating – the binding one is named.
- The chassis balance point comes from its own two weighbridge figures and the wheelbase, never assumed mid-way.
- Axles sharing a suspension are grouped and solved together; three independent supports are refused, not guessed.



Options & payload

- An option costs payload by where it hangs, not just by what it weighs – and by which axle was binding.
- A 620 kg tail lift 2.4 m behind the rear axle puts **954 kg** on the rear and takes **334 kg** off the front.
- Rules flag options that do not go together on a build before the order is taken.
- Payload value in the quotation: 100 kg of extra steel on a tipper doing two loads a day for ten years is **600 t** never carried.



The plate is not the answer

In a worked example, the tipper's chassis plate implies **14,680 kg** of headroom; where the body puts the load, only **12,975 kg** is legal – **1,705 kg** less. The plate says what a vehicle may weigh; the body decides what it may carry.

Will not steer

Builds with too little weight on the steering axle are flagged on the bodyshop screen.

Nearest its limit

Each build in the order book shows which of its limits it is closest to.

Steel yield

Steel bought, on the vehicle and in the skip – an impossible yield over 100% is refused.

The checks that stop a lorry – made at the works

Rollover on tankers, overhang and underrun protection, and the weighbridge ticket compared with the calculation for every build.



Tankers & rollover

- Rollover threshold in g, with the liquid moved outboard in a part-filled tank – most at half full.
- A static sum makes a part-filled tanker look safer than a full one; VLUERP judges it on the worse case.
- Rear overhang and underrun bar are checked, including when a tail lift is added to the build.



Weighbridge

- Front, rear and gross tickets recorded for each build and set against the calculated weights.
- Weighings out of tolerance are listed, with the average gap between weighed and calculated.
- A consistent gap is shown as bias, not random error, so the weight estimates can be corrected.

What the checks catch – in testing

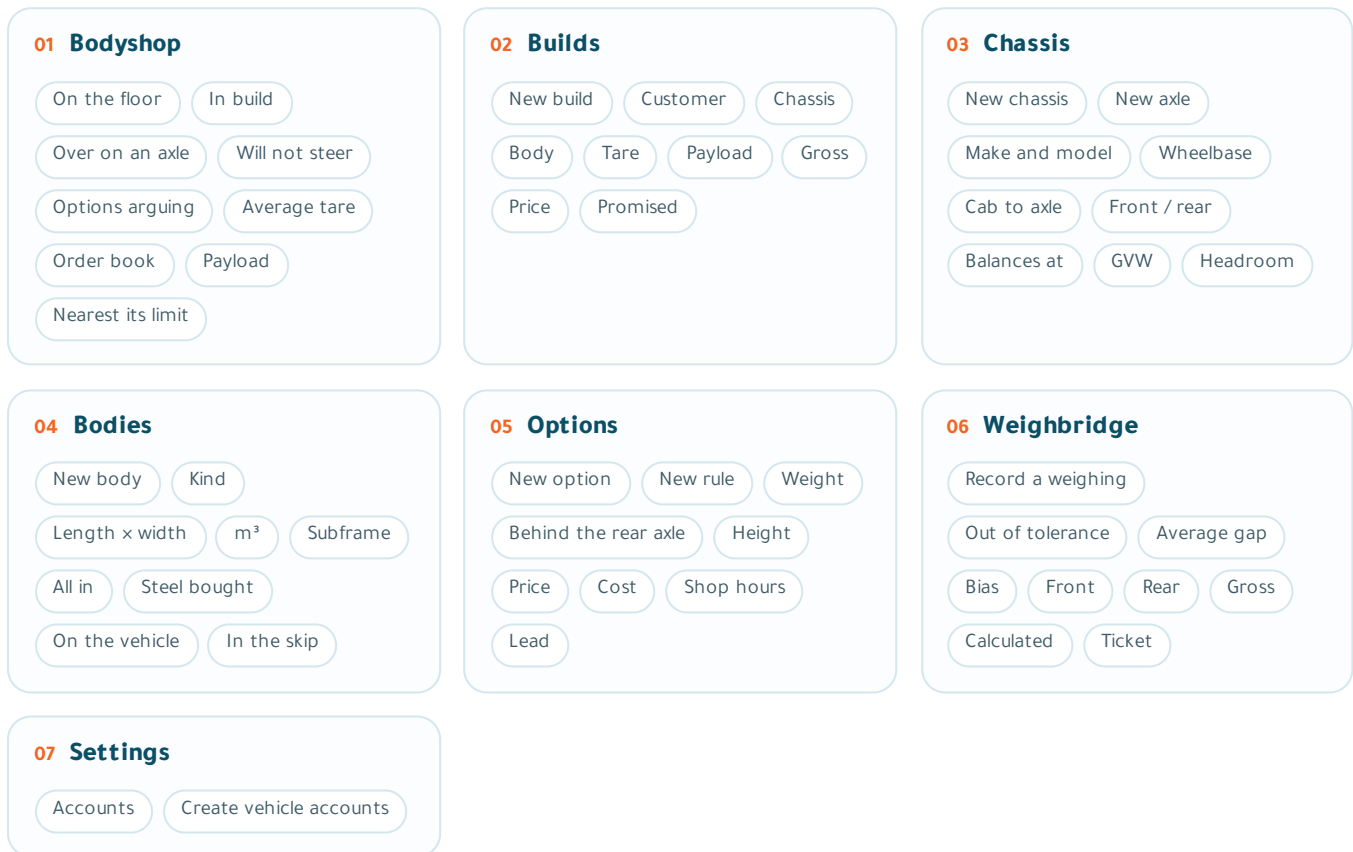
Build	Finding	Figure
Tipper	Over on the drive bogie while under gross weight	184 kg over · 680 under
Box van with tail lift	Long rear overhang with no underrun bar	97.56% overhang
Tanker	Rollover threshold full vs part filled	0.564 → 0.267 g
Every build	Heavier on the weighbridge than calculated	+1.68% bias
Tail lift option	Load moved from the front axle to the rear	+954 / –334 kg

Findings from the module's test data, where each fault was placed deliberately and each was caught.

Every screen in the module – and what is on it

Read off the running application – the panels, columns and figures that are actually there.

7 **56**
screens functions



Not a separate program – a complete business system

The trade module sits on top of a complete ERP: everything it does lands directly in the accounts, the stores and the reports – no double entry.



Accounting

Editable chart of accounts, automatic entries from every transaction, VAT and financial statements.



Financial dimensions

Cost centres, departments, business lines and sites – with statements per factory.



Inventory

Warehouses and bins, batches and serials, moving average, FIFO or standard cost.



Purchasing & sales

RFQs, purchase orders and receipts, quotations, invoices and ageing.



Maintenance & assets

Equipment register, preventive maintenance, work orders and depreciation.



Access & language

Roles and rights per module, audit trail, full Arabic and English interface.

Engineering checks built into the module

Axle loads

Each axle vs law and axle rating

GVW

Gross weight and headroom per chassis

Rollover (g)

Threshold, tankers part filled

Overhang

Rear overhang and underrun bar

Weighbridge

Weighed vs calculated, bias tracked

Limits are held as data: each axle is judged against the lower of the legal limit you enter and the maker's rating, and the one that binds is named.

See your own build **on its axles**

Book a session and we will set up one of your chassis and bodies – with your options – and walk through the axle loads and payload with you.

Request a demo

Website

www.vluerp.com

Demo request

www.vluerp.com/#demo

Email

hello@vluerp.com

- 1 Bodyshop:** builds over on an axle, too light to steer, and nearest their limit.
- 2 Options:** add a tail lift and watch the load move between the axles.
- 3 Tanker:** compare rollover full and part filled on the same vehicle.
- 4 Weighbridge:** record a ticket and see the gap and bias against the calculation.

Switched on from Add-ons with a free seven-day trial, and it runs on the same general ledger.