



— ROLL CAGES & MORE

ROLL CAGES. ENGINEERED FOR SAFETY.

Custom welded and vehicle-specific Bolt-In roll cages for motorsport, defence and special vehicles. Engineered and built in the Netherlands.

WWW.VA-FABRICATION.COM

WWW.VA-FABRICATION.SHOP

FROM 3D SCAN TO FINISHED ROLL CAGE. UNDER ONE ROOF.

VA Fabrication is a Dutch engineering and fabrication company specialised in roll cages and safety structures for vehicles.

We design, develop and produce roll cages for rally, rally raid, circuit racing, historic racing, rally trucks, defence and special-purpose vehicles. Engineering, 3D scanning, work preparation and production all happen in our own workshop, so the people who design your cage are the people who build it.

We are not a volume producer of low-cost cages. Every structure has to be right for the vehicle, the application and the people inside it. That is why we focus on fit, material choice, weld quality and documentation, from the first scan to the final inspection.

Our knowledge of custom welded cages is the basis for our second product line: **Bolt-In roll cages**, engineered once per vehicle model and produced to the same standard, so that more drivers and workshops across Europe can use it.

1993

founded

500+

roll cages built

FIA

Certified



IN-HOUSE CAPABILITY. EVERY STEP UNDER CONTROL.

Keeping engineering and production together means shorter lines, fewer interfaces and full control over quality and lead time.

01

3D SCANNING

The vehicle is scanned so the cage is designed in the real body shell, not around an assumption.

02

CAD ENGINEERING

Structure, tube diameters, wall thicknesses, nodes and mounting points designed in 3D and checked for manufacturability.

03

TUBE BENDING

Tubes bent in-house to the CAD data for consistent geometry and fit.

04

CNC CUTTING & SHEET METAL

CNC cut tubes and base plates, gussets, brackets and mounting parts.

05

WELDING

TIG and MIG/MAG welding by ISO 9606-qualified welders, matched to material and joint.

06

CERTIFICATION

FIA homologation of our designs and KNAF inspection where applicable.

MATERIALS

25CrMo4 chromoly for many motorsport cages: high strength at low weight. S700 and high-strength steels where the application or regulation calls for it.

APPLICATIONS

Rally

stage & club rally

Rally raid

Dakar-type vehicles

Circuit

racing & track days

Historic

historic race cars

Rally trucks

heavy competition

Defence

military vehicles

Mining & fire

bush fire trucks

Special vehicles

overland & custom





PRODUCT LINE 1

CUSTOM WELDED ROLL CAGES

A cage built into your vehicle, designed for your discipline, your regulations and your body shell.

A welded cage is assembled as a structure inside the vehicle and attached and/or welded to the designated parts of the body. It gives maximum integration with the chassis and maximum freedom in design: from a club rally car to a rally-raïd prototype or a military vehicle.

Every project starts with the vehicle and its use. We inspect the car, agree the requirements and the applicable regulations, scan the body and engineer the cage in or around it. Tube diameters, wall thicknesses and materials are chosen for the application, not taken from a catalogue.

WHAT YOU GET

- Design based on a 3D scan of your vehicle
- Tube specification chosen for application and regulations
- 25CrMo4 chromoly or steel grade to suit the application
- Bent, cut, assembled and welded in our own workshop
- Fit and quality inspection before delivery
- Prepared for KNAF / FIA certification where applicable

Best for: competition cars, one-offs, prototypes, heavy and special vehicles, and projects where the cage has to be fully integrated with the chassis.

BOLT-IN ROLL CAGES

Engineered once. Fits every time.

A Bolt-In cage is a vehicle-specific roll cage that is bolted into the car instead of welded. For each vehicle model we develop one design, verify it, and then produce it repeatedly with the same jigs, data and inspection. Every unit of a model is built to the same geometry and the same standard.

Because the cage comes to the car, the car no longer has to come to us. There is no transport to our workshop and back, no waiting for a slot in the build schedule, and no weeks without your car. Installation is carried out by one of our installation partners, close to where you are.

And because there is no welding in the body shell, the paintwork stays intact. With a welded cage, the interior often has to be stripped and repainted afterwards. With a Bolt-In cage, that step usually disappears, saving time and cost. The result: the engineering and build quality of a custom cage, in a product that can be ordered online and installed by one of our installation partners, without the logistics and without the paintwork.



SHORTER INSTALLATION

Pre-engineered, pre-fitted design. No design or fabrication time in your car.

NO TRANSPORT NEEDED

The cage comes to the car. Install it yourself or via a selected installation partner.

REPRODUCIBLE QUALITY

Same design, same data, same inspection for every unit of a model.

SAME MATERIALS

Developed with the same focus on materials, engineering and weld quality as our custom cages.

ORDER ONLINE

Available per vehicle model at www.va-fabrication.shop.

SHIPPED ACROSS EUROPE

Delivered to drivers, teams and workshops.

HOW A BOLT-IN CAGE GETS CERTIFIED

Every VA Bolt-In cage follows a fixed route: the design is homologated once per vehicle model, and every installed cage is inspected. Here is who does what.

STAGE 1 · ONCE PER VEHICLE MODEL

Done by VA Fabrication, before a model is offered for sale.

1

Engineer the model

Cage designed on a 3D scan of the vehicle model, to the FIA homologation regulations for safety cages.

2

Verify the design

Strength demonstrated by the method the regulations require.

3

Submit via the KNAF

Technical dossier submitted to the FIA through the national authority.

4

FIA homologation

The model receives its homologation reference, listed per model on our model list.

STAGE 2 · FOR EVERY CAGE

We or one of our installation partners and the KNAF.

5

Order & production

Your cage is produced to the homologated design and identified with a plate and serial number.

6

Partner installation

Installed by a VA installation partner, following our installation instructions.

7

Inspection

After installation, our installation partner sends us photos for inspection before we issue the certificate and documentation.

8

Ready to race

Documents and identification ready for scrutineering at every event.

WHY CERTIFIED INSTALLATION ONLY VIA OUR PARTNERS

Our homologation covers the roll cage as designed and correctly installed. As a safety-critical product, correct installation is an essential part of the cage's performance and certification.

Our installation partners are trained on our products and follow our installation instructions to ensure that every cage is fitted correctly and matches the homologated design. After installation, we review the installation documentation and photos before completing the certification process.

This approach gives us confidence that the cage has been installed to the required standard while providing our installation partners with the knowledge, instructions and support needed to carry out the installation correctly.

Installed outside our partner network?

The cage is not covered by our certification route. We cannot verify the installation through our standard partner process, so certification through our homologation route cannot be guaranteed.

WHAT YOU RECEIVE

- **Homologation form / certificate** for your vehicle model
- **Identification plate** with serial number on the cage
- **Installation instructions** used by our partner

FROM ORDER TO INSTALLED CAGE IN FOUR STEPS

1

CHOOSE YOUR MODEL
Find your vehicle at
www.va-fabrication.shop.

2

ORDER
Online or via one of our partners.
Options per model where
available.

3

INSTALL
In your own workshop with our
installation instructions, or by a
selected installation partner for
installation with FIA certification.

4

CERTIFY
Documentation supplied for the
applicable certification route.



YOUR MODEL NOT LISTED IN OUR WEBSHOP?

We are developing new models continuously. Tell us which vehicle you drive or prepare. Demand from the market decides which models we develop next.

TELL US YOUR MODEL OR SCAN THE CODE





WHICH CAGE FITS YOUR PROJECT?

WELDED OR BOLT-IN?

Both are engineered and built by the same team. The right choice depends on your vehicle, your discipline and how you want to build.

	WELDED	BOLT-IN
DESIGN BASIS	Custom, based on a 3D scan of your vehicle	One verified design per vehicle model
CONNECTION TO THE BODY	Attached and/or welded to the body shell	Bolted to the body via base plates
DESIGN FREEDOM	Maximum: layout, bracing and extras to your specification	Defined per model; options where available
WHERE IT IS BUILT	In the vehicle, at our workshop	Produced at our workshop, installed at yours or at one of our partners
LEAD TIME	4-6 weeks	From stock or 6 weeks
ORDERING	Project-based quotation	Online at va-fabrication.shop or via partners
CERTIFICATION	Built according to regulations and FIA certified	Certification possible when installed at one of our installation partners
BEST FOR	Competition cars, prototypes, one-offs, heavy and special vehicles	Popular models, club and national competition, track days, workshops that want a proven product



Not sure? Call or mail us and let’s talk about your project. We will tell you which route makes sense, including what it means for certification.

NO DISCUSSION WITH PROPER CERTIFICATION

A properly certified roll cage pays off twice. At every scrutineering, the documents answer the questions before they are asked. The homologation reference, the identification on the cage and the matching paperwork show at a glance that your cage complies, so the technical inspection takes minutes instead of discussion.

And when it is time to sell, a car with a documented, certified roll cage is easier to sell and holds its value better. The next owner buys a car that is ready to race, not a project with open questions.

OUR ROUTES

VA Fabrication works with **KNAF inspection** and **FIA homologation** of our own cage designs.

WHAT IT MEANS FOR YOU

You know upfront which route applies to your cage, and which documents you receive.

ALWAYS CURRENT

Regulations change every season. We check each project against the edition that applies at that moment.





— WORKING WITH VA FABRICATION

YOUR ROLL CAGE PARTNER ACROSS EUROPE

Whether you race one car or prepare fifty, we work with you directly or through our partner network.

DRIVERS & TEAMS

A welded cage for your project or a Bolt-In cage for your model, with the documentation to go racing.

→ Talk to us about your car

PREPARERS & WORKSHOPS

Become a Bolt-In installation partner or reseller in your region. Proven products, technical support and installation instructions.

→ Ask about the partner programme

DEFENCE & OEM

Development partner for vehicle builders: safety structures, manufacturability, reproducibility and small-series production.

→ Discuss your programme

TEAM UP WITH VA FABRICATION

Choosing a roll cage supplier means choosing who you trust with the structure around you. This is what you can expect from us.

Since 1993

More than 30 years of engineering and motorsport. Rally, circuit, rally raid, trucks and defence.

Engineering and production under one roof

The people who design your cage are the people who build it. Short lines, full control.

Designed in a 3D scan

Every cage is engineered in a scan of the real body shell. Fit is designed in, not adjusted afterwards.

Welded and Bolt-In from one supplier

A custom cage for your project or a proven design for your model. Same team, same standard.

Certification built in

FIA homologation of our own designs and KNAF experience. The paperwork is part of the product, not an afterthought.

Support after delivery

Installation instructions, a trained partner network and direct contact with the engineers who know your cage.



LET'S TALK ABOUT YOUR **CAGE.**

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