EN

FAYMONVILLE
TRAILERS TO THE MAX



POWER YOUR PROJECTS!

MODULMAX

Powered by FAYMONVILLE GROUP


















We are the worldwide leading full-range manufacturer of special road vehicles for heavy load and special transport.
The semi-trailers, low-loaders, modular vehicles and self-propelled trailers that we produce
are used to transport anything exceptionally heavy, long, wide or tall!
Our brand portfolio includes transport solutions for payloads from 15 t to 15,000 t ... and beyond.
The excellent facilities in a production space of 150,000 m² form the foundation for qualitatively unique, high-tech products.

FAYMONVILLE GROUP



TRADITION & VISION

As a family business we grew over six generations from a small forge to the industry leader. We consider our roots as the basis to an innovative and sustainable future.

WE OFFER SOLUTIONS

We offer solutions for any transport challenge through experience, flexibility and knowledge. Know-how and expertise from the development to production, start to finish. Your requests are in good hands!





HIGHEST QUALITY 100% IN-HOUSE

We trust our optimized production processes, modern technique and highly qualified employees. As the quality leader, we apply the highest standards to ourselves in order to guarantee the perfect quality of our products.

ALWAYS & ANYWHERE

Our extensive service ensures you a worldwide presence, 24 h a day and 7 days a week.
The Faymonville Group offers the most sustainable and wide-ranging customer service of the industry.





RISE TO THE **CHALLENGE**

Heavy haul projects reach ever more impressive dimensions. Transporting loads weighing hundreds or even thousands of tons requires safe, reliable and powerful modular systems.

We constantly pioneer the implementation of new transport technologies, developing unique and cost-effective solutions in a fast changing world. Let's rise to the challenge together to move the heaviest and most diverse loads, even in the remotest parts of the world.

Our modular trailer range has been designed for all kinds of transport operations under the most challenging climatic conditions. From broiling hot 50 °C in the desert to ice cold -40 °C in Siberia.
With our knowhow and expertise, we develop economical transport solutions to ensure your success!

MADE FOR
BIG THINGS



PRODUCT RANGE

The Faymonville ModulMAX is a series of combinable transport modules with 2-6 axle lines for off-road and on-road operations.
The vehicles are **equipped with 215/75 R17.5** **twin tyres** and are available in a **basic width of 3,000 mm**.

G-MODUL



- **TM** Trailer Mode — M Mechanical steering
- **AM** Assist Mode — M Mechanical steering
- **SP** Self-Propelled Mode — M Mechanical steering / E Electronic steering

S-MODUL



- **TM** Trailer Mode — M Mechanical steering
- **AM** Assist Mode — M Mechanical steering
- **SP** Self-Propelled Mode — M Mechanical steering / E Electronic steering

C-MODUL



- **TM** Trailer Mode — M Mechanical steering
- **AM** Assist Mode — M Mechanical steering
- **SP** Self-Propelled Mode — M Mechanical steering



TECHNICAL FEATURES

The ModulMAX trailer range includes technical characteristics that are put to multi-disciplinary use for G-Modul, S-Modul and C-Modul. The proven pendle-axle technology is used within the three available trailer modes: Trailer Mode (TM), Assist Mode (AM) and Self-Propelled Mode (SP).The steering system of these trailers varies between the electronic and the mechanical principle.

UNIQUE ON THE MARKET

THE WIDEST HEAVY DUTY RANGE

The one and only manufacturer with such a wide range of modular trailers in its portfolio.

SEAMLESS INTEROPERABILITY

The variety of combination options with vehicles from other manufacturers as well as the user-friendly operating concept makes the ModulMAX a guarantor of flexibility and economy for the most complex heavy-duty transport jobs.

FULL RANGE OF ACCESSORIES

Whether low beds, various drive systems or project planning software - we offer the optimal equipment for your challenge.

HIGH-LEVEL MANUFACTURING

The robot welded chassis is subject to an additional processing of all interfaces on an ultramodern CNC drilling machine.

THE BEST CORROSION PROTECTION ON THE MARKET

For long-term surface protection, the Faymonville Group relies on a fully coordinated and meticulously optimized surface treatment system. In addition to this, there is MAXProtect+, which is by far the best protection currently available in the industry.



PROVEN PENDLE-AXLE TECHNOLOGY

Ideal load distribution

Each wheel set is equipped with a hydraulic suspension cylinder. Depending on the individual transport application, the cylinders will be connected to 3- or 4-suspension groups. This combination of cylinders ensures that the weight is distributed equally over all axles. Road inclinations (lengthwise and crosswise) can easily be compensated due to the considerable stroke of these cylinders.

- Cargo-friendly & gentler vehicle handling
- Ideal load distribution
- No excessive axle loads
- Safe due to hose rupture valves





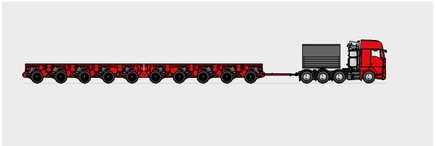
Increased transport safety

One axle line consists of 2 independent wheel-sets with pendle-axles. The pendle-axle can manage considerable ground unevenness due to its swinging bearing. It ensures optimum ground contact and equal tyre pressure under the most difficult circumstances and keeps the platform almost horizontal.

- Transport safety due to optimal ground contact
- Optimal utilization of permissible axle loads
- Road-friendly



YOUR CHOICE BETWEEN THREE DIFFERENT MODES



TRAILER MODE

TM

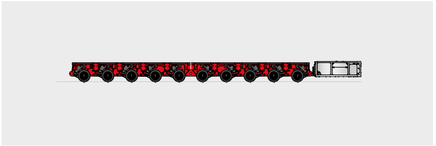
The trailer mode is the most common way to work with modular platform trailers in on-road and off-road applications. One or more trucks pull or push the trailer by means of a drawbar system or a gooseneck.
In drawbar mode, the trailer can be assembled in a 2-file configuration, or even side-by-side in a in a 3-file (1+1/2) or 4-file (1+1) configuration. The trailer mode allows travel speeds of up to 80 km/h. Therefore, it is the most suitable solution for long transport distances.



ASSIST MODE

AM

The assist mode system is a highly efficient drive system that is used both on-road and off-road. For on-road transport, the wheel motors provide a high driving force on demand and can thus replace additional tractors.
Thus, if necessary, tractive force peaks can be bridged when starting off or when driving uphill. From a certain speed the drive axles switch to a freewheel mode and can be pulled at up to 80 km/h. If the speed drops, the axles switch on again automatically if desired.
Furthermore, this drive concept can be used completely without a tractor and a vehicle can thus be moved in self-propelled mode. The necessary energy is also supplied by a Power Pack Unit.



SELF-PROPELLED MODE

SP

Application for in-plant and off-road transports; mechanically or electronically steered modular vehicle combinations.
The drive axles are then supplied by Power Pack Units and generate driving forces that can move loads of several thousands of tons. The entire control of the vehicle is done by a single remote control. All vehicle combinations from 2-file, 3-file and 4-file up to open compound vehicle groups are possible with this drive concept.

MECHANICAL STEERING SYSTEM M



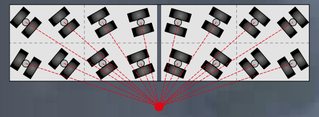
Every modular bogie has at least one integrated hydraulic steering system. The customer can choose between standard- or counter-steering. The steering is controlled either by a gooseneck or by a drawbar.

The freely accessible steering rods provide for easy and safe adaptation of steering angles. Remote steering by wireless or remote control is part of the basic configuration.
Compared to knuckle steered axles, the driving height on pendle-axles has no impact on the axle track.

Available for TM AM SP

Steering configurations

Multi-directional steering configuration



Tail steering



Configuration possibilities with mechanical steering

TM



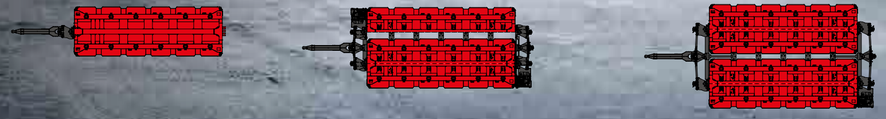
AM



SP



2-file, 3-file & 4-file combination



ELECTRONIC STEERING SYSTEM E

PROVEN TECHNOLOGY BY COMETTO

up to +/- 140°

NEW!



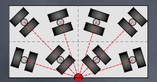
The ModulMAX modules can also be provided with an electronically controlled steering system.
The steering motors are operated by proportional solenoid valves and directly managed from the central system.

The corresponding position of the suspension units is continuously verified by an encoder with respect to the steering joystick position. It is possible to select several steering modes. In this way, it is very simple to work in tight areas.

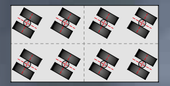
Available for SP

Steering configurations

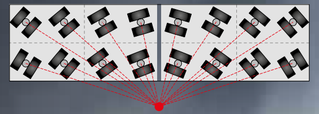
Normal drive



Diagonal drive



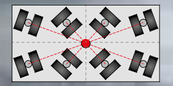
Multi-directional steering configuration



Lateral drive



Circular drive / carousel



Tail steering



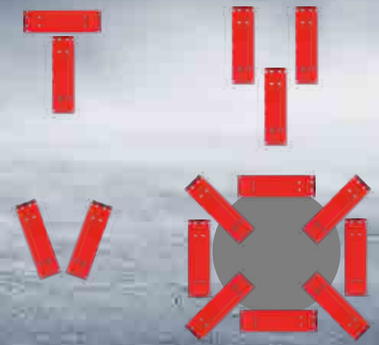
90° normal drive



2-file & 4-file combination



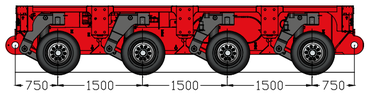
Open combinations

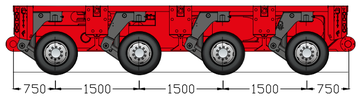


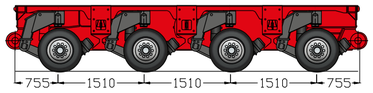


MODULMAX AT A GLANCE

The ModulMAX trailer range offers seamless interoperability with existing modular trailer types on the market. The product range for on-road and off-road operations is composed of three different product types: G-Modul, S-Modul and C-Modul. This variety of possibilities gives the customer back his freedom of choice.







	G-MODUL				*S*-MODUL				*C*-MODUL		
	TM M	AM M	SP M	SP E	TM M	AM M	SP M	SP E	TM M	AM M	SP M
STROKE	600mm	600mm	600mm	650mm	650mm	650mm	650mm	650mm	600mm	600mm	600mm
STEERING ANGLE	-60°/+60°	-60°/+60°	-60°/+60°	-135°/+135°	-60°/+60°	-60°/+60°	-60°/+60°	-140°/+140°	-60°/+60°	-60°/+60°	-60°/+60°
AXLE LOAD /AXLE LINE	45.0t	36.0t	45.0t	45.0t	36.0t	36.0t	45.0t	45.0t	36.6t	36.0t	36.6t
2 AXLE LINES											
MODEL	Modul-G-SL-M-2-TM				Modul-S-ST-M-2-TM				Modul-C-MS-M-2-TM		
PLATFORM DIMENSIONS (LxWxH)	3000x3000x1175mm				3000x3000x1190mm				3020x3000x1160mm		
DEAD WEIGHT	7.5t				7.2t				7.8t		
PAYLOAD	82.5t				64.8t				65.4t		
3 AXLE LINES											
MODEL	Modul-G-SL-M-3-TM				Modul-S-ST-M-3-TM				Modul-C-MS-M-3-TM		
PLATFORM DIMENSIONS (LxWxH)	4500x3000x1175mm				4500x3000x1190mm				4530x3000x1160mm		
DEAD WEIGHT	10.7t				10.2t				10.8t		
PAYLOAD	124.3t				97.8t				99.0t		
4 AXLE LINES											
MODEL	Modul-G-SL-M-4-TM	Modul-G-SL-M-4-AM-8x4	Modul-G-SL-M-4-SP-8x4	Modul-G-SL-E-4-SP-8x2	Modul-S-ST-M-4-TM	Modul-S-ST-M-4-AM-8x4	Modul-S-ST-M-4-SP-8x4	Modul-S-ST-E-4-SP-8x2	Modul-C-MS-M-4-TM	Modul-C-MS-M-4-AM-8x4	Modul-C-MS-M-4-SP-8x4
PLATFORM DIMENSIONS (LxWxH)	6000x3000x1175mm	6000x3000x1175mm	6000x3000x1175mm	6000x3000x1220mm	6000x3000x1190mm	6000x3000x1190mm	6000x3000x1190mm	6000x3000x1220mm	6040x3000x1160mm	6040x3000x1160mm	6040x3000x1160mm
DEAD WEIGHT	14.0t	14.8t	15.2t	16.5t	13.3t	14.1t	15.2t	16.5t	14.5t	15.2t	15.2t
PAYLOAD	166.0t	129.2t	164.8t	163.5t	130.7t	129.9t	164.8t	163.5t	131.9t	128.8t	164.8t
5 AXLE LINES											
MODEL	Modul-G-SL-M-5-TM	Modul-G-SL-M-5-AM-10x6	Modul-G-SL-M-5-SP-10x6	Modul-G-SL-E-5-SP-10x4	Modul-S-ST-M-5-TM	Modul-S-ST-M-5-AM-10x6	Modul-S-ST-M-5-SP-10x6	Modul-S-ST-E-5-SP-10x4	Modul-C-MS-M-5-TM	Modul-C-MS-M-5-AM-10x6	Modul-C-MS-M-5-SP-10x6
PLATFORM DIMENSIONS (LxWxH)	7500x3000x1175mm	7500x3000x1175mm	7500x3000x1175mm	7500x3000x1220mm	7500x3000x1190mm	7500x3000x1190mm	7500x3000x1190mm	7500x3000x1220mm	7550x3000x1160mm	7550x3000x1160mm	7550x3000x1160mm
DEAD WEIGHT	17.5t	18.7t	19.6t	20.4t	16.6t	19.6t	19.6t	20.4t	18.7t	19.6t	19.6t
PAYLOAD	207.5t	161.3t	205.4t	204.6t	163.4t	160.4t	205.4t	204.6t	164.3t	160.4t	205.4t
6 AXLE LINES											
MODEL	Modul-G-SL-M-6-TM	Modul-G-SL-M-6-AM-12x6	Modul-G-SL-M-6-SP-12x8	Modul-G-SL-E-6-SP-12x4	Modul-S-ST-M-6-TM	Modul-S-ST-M-6-AM-12x6	Modul-S-ST-M-6-SP-12x8	Modul-S-ST-E-6-SP-12x4	Modul-C-MS-M-6-TM	Modul-C-MS-M-6-AM-12x6	Modul-C-MS-M-6-SP-12x8
PLATFORM DIMENSIONS (LxWxH)	9000x3000x1175mm	9000x3000x1175mm	9000x3000x1175mm	9000x3000x1220mm	9000x3000x1190mm	9000x3000x1190mm	9000x3000x1190	9000x3000x1220mm	9060x3000x1160mm	9060x3000x1160mm	9060x3000x1160mm
DEAD WEIGHT	20.7t	21.9t	22.7t	24.2t	19.7t	20.9t	22.7t	24.2t	21.5t	22.7t	22.7t
PAYLOAD	249.3t	194.1t	247.3t	245.8t	196.3t	195.1t	247.3t	245.8t	198.1t	193.3t	247.3t

Technical features up to 0.5km/h





OPTIONS

The ModulMAX trailer range is rounded off by a full range of options and accessories to obtain the best configuration for any type of load. Customers can choose between different low bed types, spacers, turntables, decks, drawbars and goosenecks. Two types of power pack units are available along with some more advanced options such as a blade lifter, a SyncBox and user-friendly software tools.

ACCESSORIES

Available for TM AM

1	Gooseneck
2	Drawbar

Available for TM AM SP

3	Wind tower adapter
4	Hydraulic ramps
5	Telescopic intermediate beams
6	Rear lighting with underride-protection and warning boards
7	Turntables
8	Spacer
9	Load securing bolster
	Push-rods
	Register coupling

Available for AM SP

10	Remote control

Available for SP

11	Night light kit























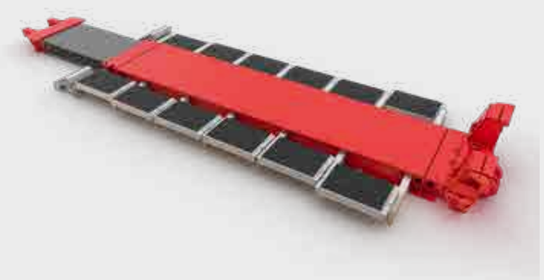
LOWEST BEDS FOR HIGHEST LOADS

Available for TM AM SP

Dropdecks are available in various designs and payload classes. The customer can choose from a large range of versatile and standardized dropdecks or even go for a tailor-made solution that precisely meets his needs.

Faymonville is your reliable partner for the design and construction of your new dropdeck, even in connection with all other brands of modular trailers.

Each dropdeck is delivered with calculation software, an open tool to survey axle loads and bending moments.



Moving heavy machinery? Use an excavator deck

Tracked vehicles can be transported in a hanging position by utilizing an excavator deck with minimum ground clearance. Such low beds can also be telescopically extendable, which makes them versatile for many applications. The booms and timber boards can also be widened without much effort and positioned to two different loading heights. Timber boards are also available for lateral loading where necessitated by tight maneuvering space.

- Quick and easy loading process
- Perfect load distribution
- Outriggers for more transport options



Moving a transformer? Use a flatbed deck

Flatbed decks offer a steel surface over the entire width of the low bed and are ideally suited for the transport and lateral unloading of transformers. The reinforced loading platform enables maximum point loads. The FBX decks are available in overall heights of 160 – 300 mm.

- Minimum beam height for maximum load height
- Low center of gravity for safe transport conditions
- Flexible possibilities for loading process



Moving a vessel? Use a perimeter deck

As opposed to low beds with outer beams and fixed floor, the floor is removable in this version. This allows high industrial tanks and vessels to be transported with an optimized loading height.

- Allows height limitations on the transport route to be passed
- Length and width adjustable
- Low design, extremely sturdy and reliable

HIGH-PERFORMANCE POWER PACK UNITS

PROVEN TECHNOLOGY BY COMETTO

Available for AM SP

The ModulMAX series offers the possibility to install two sizes of high-performance Power Pack Units: 186 kW and 372 kW.
The Power Pack Units is provided with all the devices for all operations of the single transporter or for the combination of several units.

It is possible to synchronize various Power Pack Units in the case of several power groups being installed at the same time on different trailers that make up the same convoy.

General advantages:

- Maximum flexibility – only one kind of engine for small and large Power Pack Unit
- Power Pack Unit interchangeability between mechanically and electronically steered modules
- Smooth running in the toughest conditions
- Full control
- Compliant with all the emission rules

Advantages large Power Pack Unit:

- Twin engine Power Pack Unit
- Possibility to use only one engine when necessary for less consumption
- Redundant system

AXLE LINES (MAX)	48	24
Power Pack Unit	LARGE	SMALL
DIMENSIONS (LxWxH)	4800x2990x900mm	4000x2990x900mm
DEAD WEIGHT	8 t	6 t
PERFORMANCE	372 kW	186 kW
EMISSION STANDARD	EU stage V or IIIA	EU stage V or IIIA
BRAND	Cummins	Cummins



NEW!



THE STRONGEST BLADELIFTER ON THE MARKET

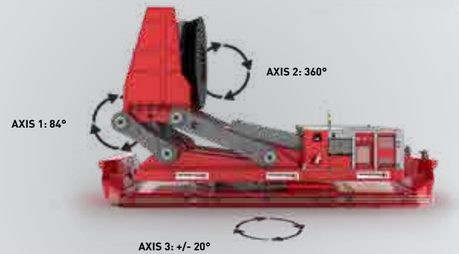
Available for TM AM SP

Stronger than all the others! The blade lifter by Faymonville with the product name BladeMAX is the strongest of its kind on the market. With a load capacity of 650 mT, it can move the latest mega wind turbine blades in such a way that they can be transported safely and efficiently in wooded or built-up areas, in narrow streets or in mountainous regions.

- Highest performance ever!
- Highest stability & maximum safety
- Flexible operating system







PROVEN TECHNOLOGY BY COMETTO

	2 AXIS VERSION	3 AXIS VERSION
MAX. PERMISSIBLE BLADE TORQUE	6,500 kNm (650 mT)	
MAX. PERMISSIBLE BLADE TORQUE - AXIS 3 = 0°		6,500 kNm (650 mT)
MAX. PERMISSIBLE BLADE TORQUE - AXIS 3 > 0°		3,500 kNm (350 mT)
MAX. LIFTING ANGLE - AXIS 1	84°	84°
MAX. ROTATION ON BLADE - AXIS 2	360°	360°
MAX. SIDE ROTATION - AXIS 3		+/- 20°
TARE WEIGHT WITHOUT ROOT INTERFACE	40 t	55 t
MAX. HEIGHT - AXIS 1 = 0°	4,050 mm	4,480 mm
MIN. HEIGHT WITHOUT BLADEADAPTER - AXIS 1 = 84°	2,920 mm	3,550 mm
LENGTH	7,200 mm	7,800 mm
WIDTH	2,990 mm	2,990 mm



SYNCBOX

Available for SP

PROVEN TECHNOLOGY BY COMETTO

NEW!



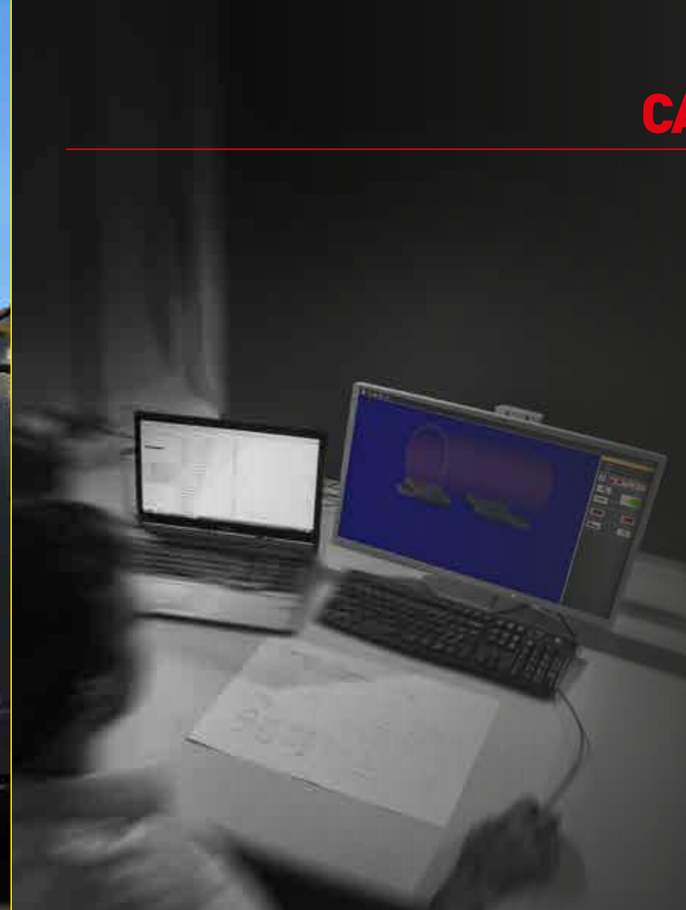
Allows you to connect **modular trailer types with vehicles from other manufacturers**!

With the SyncBox as an electronic intermediate point, the vehicles can be used together. Whether coupled or in an open combination: the combination is controlled **with a single radio remote control**!

- THE alternative for modular coupling
- Independent freedom of choice
- Easy use with one remote control

CALCULATION SOFTWARE

Available for TM AM SP



The planning process for transportation projects often looks the same. First, the load is determined, then the corresponding vehicle is chosen.
This approach raises many questions: how does my trailer need to be combined in order to transport the cargo? And where exactly do I position it on the vehicle?

Direct answers are initially less likely to be found out in the yard than in front of the computer. Because that's where Faymonville's own software allows different scenarios to be simulated prior to actual implementation. The goal: verify in theory what is even possible in practice!

All relevant vehicle data such as axle loads, bending moment usage, tipping limits, etc. are calculated and made available to the user.
Thus, theory and practice can be compared quickly and easily with each other before commencing with the transport in order to ensure a safe transport process.

TELEMAKHOS - Remote Diagnostic System enables the monitoring of vehicles, receiving assistance from Faymonville technical service as well as the transmission of software updates. The system can be connected to the remote backup system via land line (ADSL), satellite phone or mobile connection (3G/4G/5G).

- Intuitive and user-friendly
- Digital support for heaviest tasks
- Making transport safe, efficient and profitable

Ultra-modern infrastructure. Optimally networked locations.

5 Production facilities in Luxembourg, Poland, Belgium, Italy and Russia

100% in-house

More than

1,000 employees

Production capacity of

3,000 vehicle units per year

150,000 m^2 production area

Worldwide distribution throughout

125 countries

LUXEMBOURG - LENTZWEILER



BELGIUM - BÜLLINGEN



POLAND - GOLENIOW



ITALY - BORGO SAN DALMAZZO



RUSSIA - NOGINSK



MAXPROTECT+

OPTIMAL PROTECTION!

With MAXProtect+, your vehicle stays **corrosion-free** for much longer.



Weather conditions and mechanical stress put every steel structure to the test. To provide long-term surface protection to vehicles against corrosion, Faymonville has its MAXProtect+ process. This is a fully coordinated and optimised system for surface treatment.
From sandblasting to metallization all the way to the final coating, all the stages at Faymonville are developed, carried out and tested in-house. MAXProtect+ guarantees the best surface protection for your vehicle! The result achieved reaches a quality benchmark many times higher than anything found in the commercial vehicle industry.

MACHINE BLASTING
Airless blast cleaning with metallic blasting material

MANUAL BLASTING
Manual surface cleaning and finishing using mineral abrasives (corundum)

ZINC SPRAYING BY ELECTRIC ARC
Application of a 50-70 µm thick zinc/aluminium layer. This metallization provides optimum protection against rusting on edges and increases adhesion and resistance.

JOINT SEALING
Prevents the formation of rust in gaps

PRIMER
2-component zinc epoxy with 85% zinc content

2-COMPONENT COVER COAT
as a "direct-to-metal" final coating

CAVITY SEALING
Prevents corrosion in corners and cavities

OPTIONAL:
Complete seawater-resistant preservation for transportation by ship

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