



# EUROBLOC VF



Electric **synthetic rope** hoist  
for load up to 20,000 kg



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 **VERLINDE**  
LIFTING EQUIPMENT

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# EUROBLOC VF

## Electric synthetic rope hoist for load up to 20,000 kg

A complete new family of electric synthetic rope hoists (VF3, VF5, VF10) which introduces some real innovations protected with more than 15 patents including:

- The use of synthetic rope material instead of steel rope : "Dyneema®" is the world's strongest fiber.
- And also the rope angle features.

### General characteristics

- Load range up to 20 tons.
- Classification: EN 13001-1.
- Electric provision: crane, solo.
- Indoor and outdoor use.
- Hoisting: 2-speed P motors, inverter B & S motors.
- Synthetic rope Dyneema®.
- MS2/EP hoisting control.
- Travelling: variable speed 5 to 20 m/min (mode MS2 or EP).



- Standby heating for hoisting motor.
- Standby heating for travelling motor.
- Standby heating for hoist control panel.
- Cable reel on trolley.
- All electrics in bridge panel (P and S motor only).
- Warning indication for travelling movement (light and horn).
- 2-step or 3-step load limiter.
- Inching mode (S motor only for hoisting).
- Micro speed (S motor only for hoisting).
- "Rope angle features": Follow Me / Hook Centering / Snag Prevention.
- Anti-sway.
- Expertcare.

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## Electric synthetic rope hoist for load up to 20,000 kg

**S:** single girder trolley.

**M:** double girder trolley, medium connection.

**U:** single girder swiveling trolley.

**F:** foot mounted hoist.

### Range of hoist EUROBLOC VF3 - 50Hz

Load capacity (kg)	Hoist type	Number of fall	Trolley type	Height of lift max (m)	Lifting speed (m/min)		
					Motor B	Motor P	Motor S
1250	VF3	2 falls	S	13/18	4 / 9	10	/
1400	VF3	2 falls	S	13/18	3,6	/	/
1600	VF3	2 falls	S	13/18	8	10	/
2500	VF3	4 falls	S	6,5/9	2 / 4,5	5	/
2800	VF3	4 falls	S	6,5/9	1,8	/	/
3200	VF3	4 falls	S	6,5/9	4	5	/

### Range of hoist EUROBLOC VF5 - 50Hz

Load capacity (kg)	Hoist type	Number of fall	Trolley type	Height of lift max (m)	Lifting speed (m/min)		
					Motor B	Motor P	Motor S
2000	VF5	2 falls	S - M - U	12/18/24	5,8	10	11,2
2500	VF5	2 falls	S - M - U	12/18/24	5	10	10
4000	VF5	4 falls	S - M - U	6,9/12	2,9	5	5,6
5000	VF5	4 falls	S - M - U	6,9/12	2,5	5	5
		5 falls	S - M - U	4,8/7,2/9,6	2,3	4	4,5
6300	VF5	5 falls	S - M - U	4,8/7,2/9,6	2	4	4

### Range of hoist EUROBLOC VF10 - 50Hz

Load capacity (kg)	Hoist type	Number of fall	Trolley type	Height of lift max (m)	Lifting speed (m/min)		
					Motor B	Motor P	Motor S
4000	VF10	2 falls	S	18/24/36			
			M - F	18/24/30/36	5,6	10	11,2/18
5000	VF10	2 falls	S	18/24/36			
			M - F	18/24/30/36	5	10	10/16
8000	VF10	4 falls	S	9/12/18			
			M - F	18/24/30/36	2,8	5	5,6/9
10000	VF10	4 falls	S	9/12/18			
			M - F	9/12/15/18	2,5	5	5/8
10000	VF10	5 falls	S	7,2/9,6/14,4			
			M - F	7,2/9,8/12/14,4	2,2	4	4,5/7,2
12000	VF10	6 falls	M - F	6/8/10/12	1,9	3,3	3,7/6
12500	VF10	5 falls	S	7,2/9,6/14,4			
			M - F	7,2/9,8/12/14,4	2	4	4/6,4
15000	VF10	6 falls	M - F	6/8/10/12	1,7	3,3	3,3/5,3
16000	VF10	8 falls	M - F	4,5/6/7,5/9	1,4	2,5	2,8/4,5
20000	VF10	8 falls	M - F	4,5/6/7,5/9	1,3	2,5	2,5/4

# Product benefits

## Synthetic rope

### Matiéral

- "Dyneema® is the worlds strongest fiber."
- Diameters 7 mm (VF3), 8.5 mm (VF5) and 12 mm (VF10).
- 12-strand non-rotating structure.
- Easy inspection.
- Clean (no lubrication).
- Reduced weight (85% lighter than steel rope).
- Operating temperature: -10°C/+40°C.

The synthetic rope has a stable structure: better longevity, less downtime maintenance and fewer downtimes.

The synthetic rope is suitable for many configurations:

- No need to have special rope variants for rotation resistant use, heavy duty use, left and right hand lay, galvanized and stainless steel, and for different lubrifications.
- Less rope variants brings benefits to rope availability and stocking costs.
- Product safety and quality of operations is improved due to less human mistakes in mixing up different variants.

## Less risk of injury

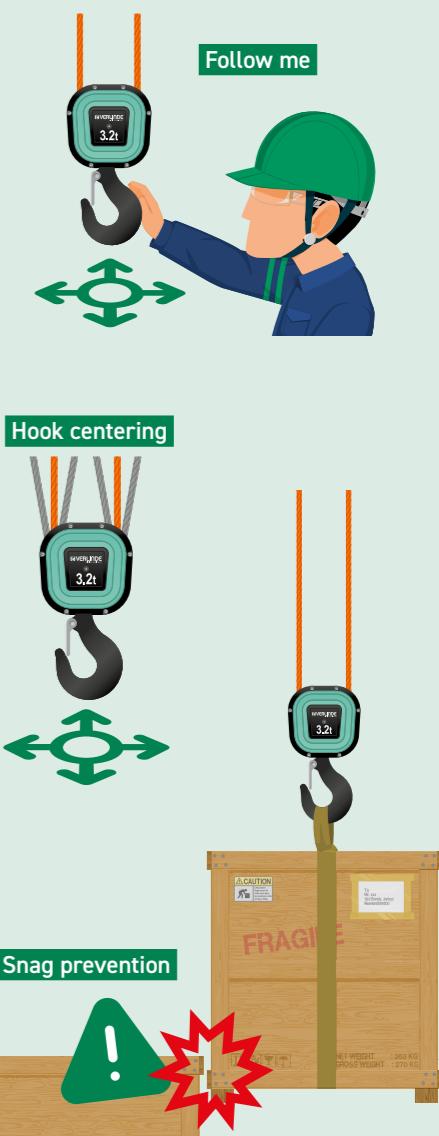
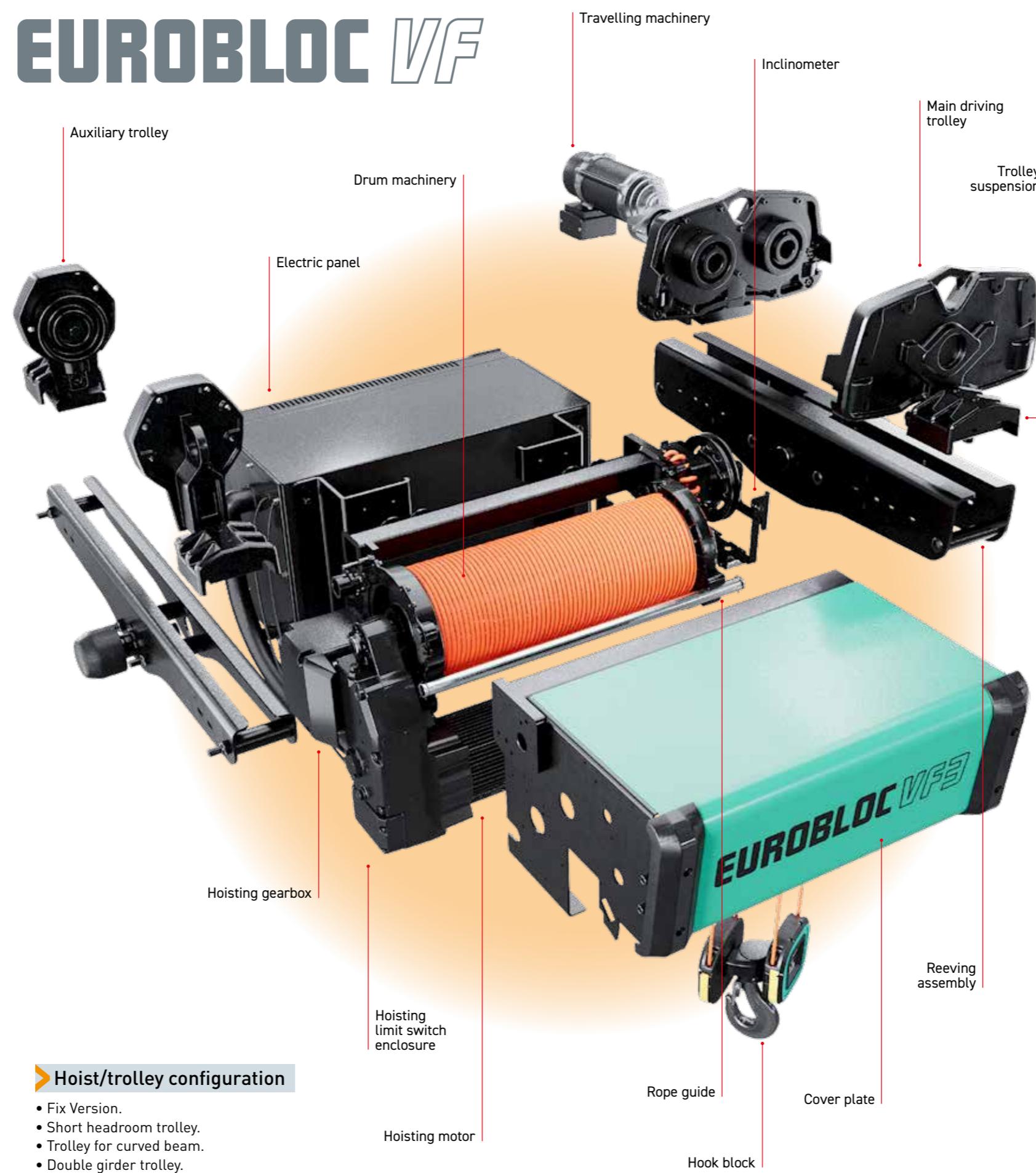
### No falling of steel particles under the lifting unit

### No lubrication

The synthetic rope is not lubricated, which brings the following advantages:

- Less maintenance.
- Easier rope inspection.
- No lubricant dropping from the synthetic that negatively affect the process below the crane.
- Does not attract or collect dust.
- This technical innovation makes it possible to reinforce our values of respect for the environment and minimize the environmental impact of this product.

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## Rope angle features

### Minimizing operational misuse

- Minimized risk of side pulling and load swings during the lifting due to "Hook Centering".
- Minimized risk of snags and load dragging due to "Snag Prevention" (crane stops if hook or load gets stuck when moving the load).

### Ease of operation and reduction of cycles times

- Easy to move the crane with empty hook from A to B due to "Follow Me" and "Hook Centering".

### Lower maintenance costs

- Less wear and tear for crane components (e.g. rope guide) due to "Hook Centering" and "Snag Prevention".

## VERLINDE is:

- The leading French manufacturer and exporter of lifting and handling equipment.
- A comprehensive range of 30 groups of lifting equipment from 60 to 250,000 kg.
- ISO 9001 Quality control certified and ISO 14001 Environmental Management Systems.

## In France:

A sales network and after sales service points, EUROPONT travelling crane construction plants and a distributor network.

## Abroad:

A customer service in more than 92 countries.

VERLINDE is committed to respecting the environment and we always strive to minimize the impact of our operations and our products.



By investing in smart, connected, resource and energy efficient products from VERLINDE, you can significantly reduce your own environmental impact.

## References



**Metallurgy, Mechanics, Nuclear**  
ArcelorMittal, Unimetal, Stein, NFM,  
Framatome, Alstom

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Sanofi Aventis, Total,  
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