

THE  
**MORF<sup>®</sup> BLOCK**

CANTIERE DEL PARDO



**MORF<sup>®</sup>**  
**RAC-SYSTEMS**

## MORF® RAC-SYSTEMS

MORF® Block has been launched in November 2017 after two years of development and testing. Our block has been designed to be versatile, simple, light and yet stronger than a classic block. In order to achieve this, we have stripped a block to its bare minimum components while introducing new materials and manufacturing technologies. It's high reliability and low maintenance makes the MORF BLOCK ideal for all yachts.

In 2018 RAC-Systems has joined MORF to provide full in-house manufacturing capabilities. RAC-Systems counts with a full range of CNC milling and lathe machines and has been involved with the production of custom components for the Americas Cup and TP52 yachts.

### MORF Patented core technology

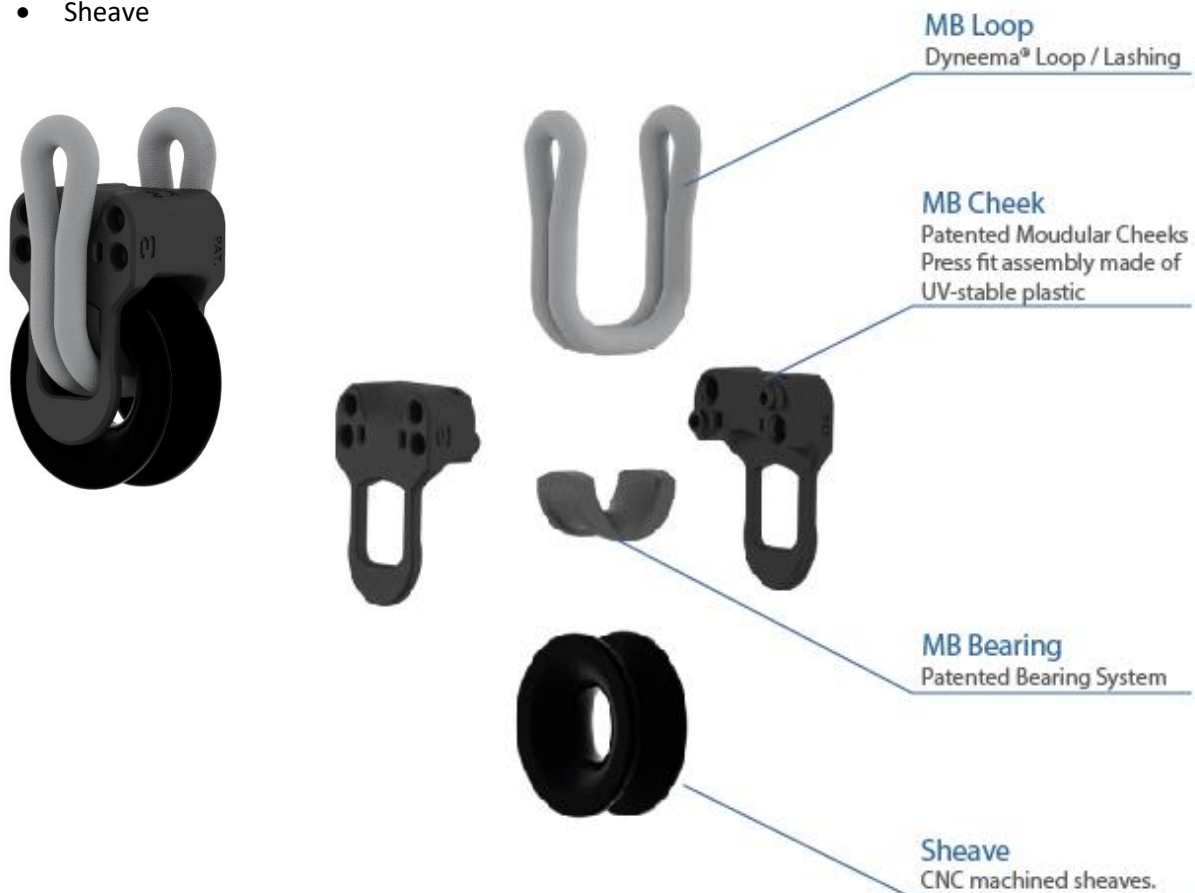
The MORF® Block utilizes two patented technologies to deliver maximum freedom and simplicity to achieve a modular, light, strong and safe block.

Its patented modular technology allows the MORF® Block cheeks to be easily mounted in a single or multiple sheave configuration. The cheeks have been designed to snap fit avoiding the use of metal fasteners and tools.

### Block overview

The block is composed of 4 components:

- Loop
- Cheeks
- Bearing
- Sheave



## MB Standard Range

The MB Standard range utilizes RAM standard ferrules sizes as sheaves. This package provides an affordable, high performance alternative; the blocks are very compact and light while providing high SWL.

The cheeks are manufactured by FFF (filament fusion fabrication) by the use of UV stable materials. Its bearing is made of a high performance tribologically optimised material which provides a low coefficient of friction.

RAM ferrules are CNC machined in high strength aluminium and display a hard anodize coating.

### STANDARD SHEAVE

	Sheave ø mm	Loop	Line ø mm	Block Dimensions [mm]			SWL Kg	BL Kg	Weight gram
				A	B	C			
<b>NEW MB 0.5</b>	15	2mm	4	24	15	17	<b>120</b>	240	<b>3</b>
<b>MB 1</b>	20	2mm (basket)	4-5	30	20	21	<b>225</b>	450	<b>6</b>
<b>MB 2</b>	30	3mm (basket)	4-6	51	30	26	<b>450</b>	900	<b>16</b>
<b>MB 3</b>	40	4mm (basket)	6-12	70	40	35	<b>1000</b>	2000	<b>42</b>
<b>MB 4</b>	50	6mm (basket)	8-14	88	50	48	<b>2000</b>	4000	<b>84</b>
<b>MB 5</b>	60	6mm (basket)	10-16	105	60	54	<b>2800</b>	5600	<b>133</b>
<b>MB 6</b>	70	8mm (basket)	18-20	125	70	66	<b>4500</b>	9000	<b>266</b>

## MB XL Range

The recently announced MBXL range has been designed and developed to achieve maximum performance for demanding applications.

Compared to the MB Standard the XL displays a larger sheave diameter for a similar SWL; larger sheaves provide better line turning radius and lower overall friction. The dedicated sheaves have been specifically designed to meet the block requirements. XL sheaves are manufactured by CNC machining of high strength aluminium and finished with PTFE hard anodizing for an increased performance.

Such as the MB Standard, cheeks are manufactured by FFF and bearings are made of a high performance tribologically optimised material.

Additionally, MBXL range can be ordered on demand with CNC machined cheeks in Wood, Plastic, Aluminium, or Carbon fibre and it is also available with Titanium sheaves (MBXL Ti).

### LARGE DIAMETER SHEAVE

	Sheave ø mm	Loop	Line ø mm	Block Dimensions [mm]			SWL Kg	BL Kg	Weight gram
				A	B	C			
<b>MB 3 XL</b>	50	6mm (basket)	6-12	88	50	40	<b>1200</b>	2400	<b>64</b>
<b>MB 4 XL</b>	60	6mm (basket)	8-14	105	60	44	<b>2000</b>	4000	<b>90*</b>
<b>MB 5 XL</b>	70	8mm (basket)	8-14	125	70	52	<b>3000</b>	6000	<b>160*</b>

## MB CUSTOM

Due to our manufacturing process and synergy created with RAC SYSTEMS the MORF<sup>®</sup> Block can be tailored to your needs with very little or no added cost.

How can be MB customized:

- Designed for application:
  - for a given load requirement (SWL/BL).
  - for a specific line diameter.
  - for a specific use by customizing the cheeks geometry.
- Aesthetics:
  - Cheeks can be made in different materials and colours.
- Logos and Branding:
  - Incorporate Yard name or Yachts name into the block.

### *CUSTOMIZATION EXAMPLES:*



Colour customization



Branding



Shape: Splice Block

### MB Future

The MORF® Block is the first step in our aim to provide new efficient and performance solutions to the marine industry. Our team is currently developing and testing a wide range of new products to be unveiled on METS2018.

### MB On Board

MORF® Block is being used in a wide variety of yachts from cruisers to performance.

