



FM12 - FORCE MULTIPLIER

Technical Data Sheet

Product Description

The FM-12 force multiplier by RED Winches is a high-rated, compact pulley system delivering 4:1 to 5:1 mechanical advantage. Designed for large vehicles that can't self-recover, it enables smaller vehicles—even road cars—to assist in heavy-duty recoveries.

KEY FEATURES

- ✓ **4:1 or 5:1 Force Multiplication:** Enables smaller or winchless vehicles to recover much heavier ones
- ✓ **Rated and Tested:** MBS of 120kN (12T / 26,455lbs) between recovery points
- ✓ **Tested to Destruction:** Independently LOLER-tested for complete peace of mind
- ✓ **Lightweight & Durable:** Total weight just 7.5kg, with corrosion-resistant zinc-plated steel parts
- ✓ **Serviceable Design:** Fully field-serviceable with just two hex tools
- ✓ **Smooth Operation:** Self-lubricating bearings ensure low friction and long life

Max Load in Line 5 =2.4T

Either point 1 or 2 can be used on the casualty vehicle
(Situation dependent)

Technical Data: 12T Version

- ☉ Anodise Colour: Gold
- ☉ MBS: 120kN / 12.2T / 12,236kg / 26,975lbs
- ☉ Central Hole Rope Dia: 10-14mm

FM12 ➔

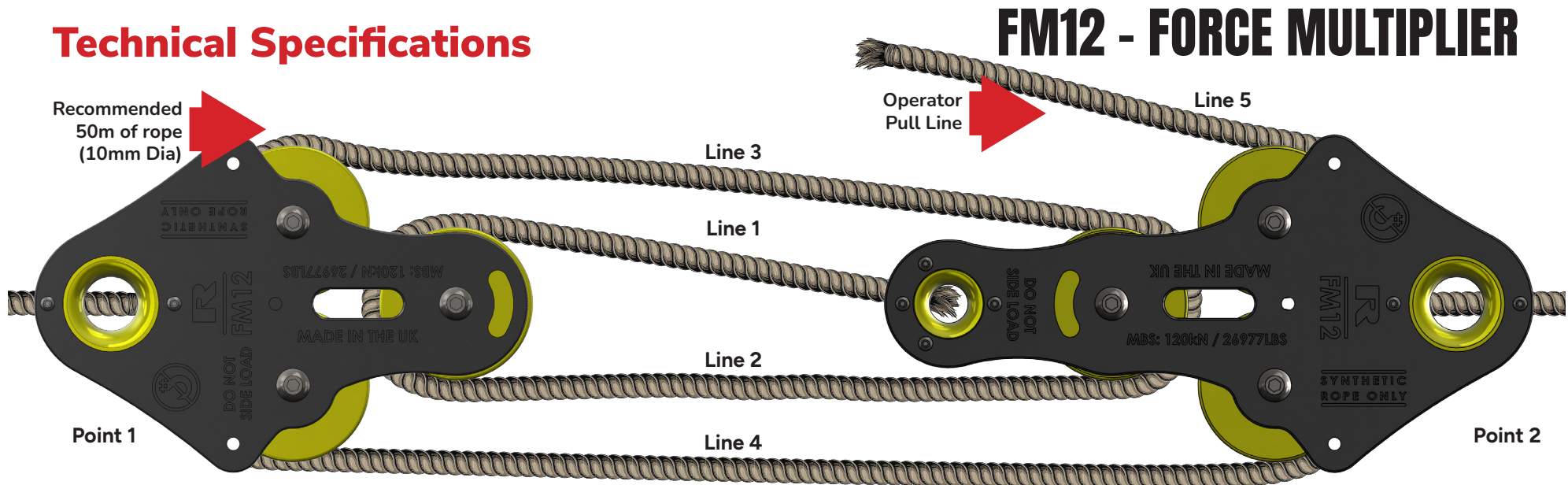


FM12-A ➔



Do not use this product or any recovery products without relevant training in the correct use of recovery equipment / products and their techniques. Fully understand and be aware of the loadings on all the equipment for the recovery to take place and be successful.

Technical Specifications



1:5 FIDDLE PULLEY SYSTEM (Point 1 Anchor)

Mbs: 120kn / 12.2t / 12,236kg / 26,975lbs

Example load / vehicle to be recovered, between points 1 & 2:

Load in anchor (fm12-a) soft shackle line located in ring at point 1: 6000kg

Loading in lines are:

Line 1: 1500kg

Line 2: 1500kg

Line 3: 1500kg

Line 4: 1500kg

Line 5: 1500KG - Operator pull line

Load on point 1 sees: 6,000kg (13,225lbs) - 4:1 multiplier

Load on point 2 sees: 7,500KG (16,534LBS) - 5:1 Multiplier

DISTANCES

Line 5 will always move 5 times further than point 2 due to the 5:1 ratio

If you recover a vehicle over 10m line 5 will travel through 50m

Make sure you have enough line for the recovery task being undertaken



Follow the QR code to see the product on the website, here you will find videos and pricing information. If you have any further questions please do not hesitate to contact us.

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