



RED Winches
Engineered To Be Better

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FM50 - FORCE MULTIPLIER

Technical Data Sheet

Product Description

The FM50 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 50,985kN (24.4T / 24,473kg / 53,954lbs) 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 = 60kN

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

Technical Data: 240kN Version

- ⊗ Anodise Colour: Red
- ⊗ MBS: MBS of 240kN 24.4T / 24,473kg / 53,954lbs
- ⊗ Central Hole Rope Dia: 11 Dia (Recommended 50m of rope)

FM50 ➔

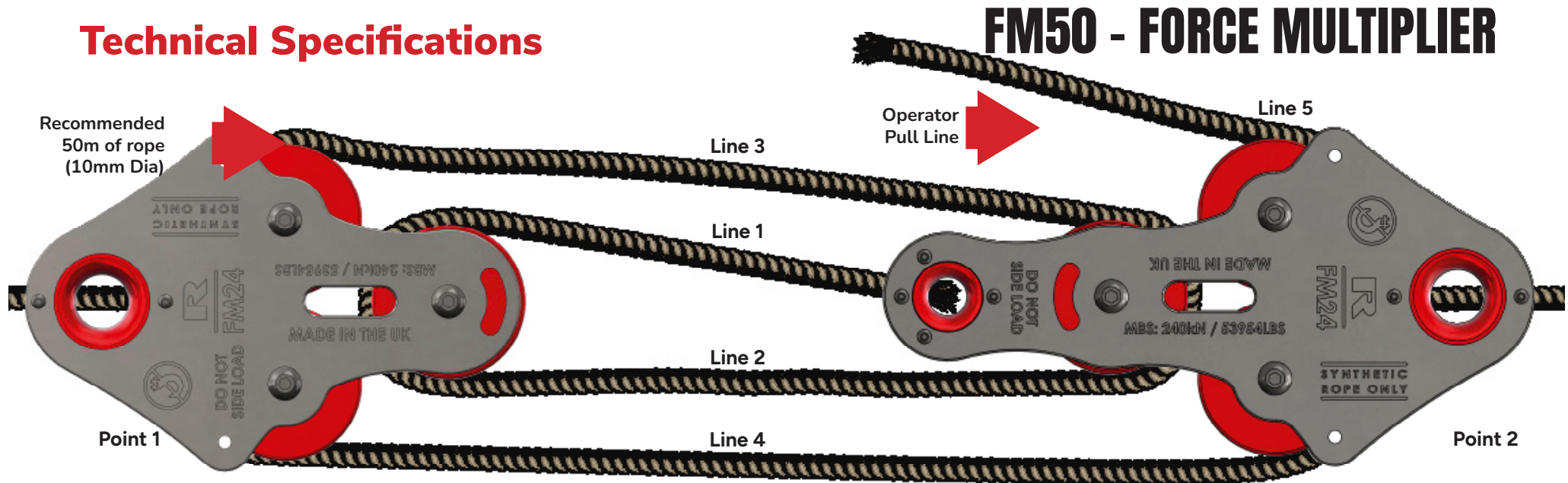


FM50-A ➔



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: 240kn / 24.4t / 24,473kg / 53,954lbs

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

Load in soft shackle line located in ring at point 1: 12,000kg

Loading in lines are:

Line 1: 3000kg

Line 2: 3000kg

Line 3: 3000kg

Line 4: 3000kg

Line 5: 3000kg - Operator pull line

Load on point 1 sees: 12,000kg (26,455lbs) - 4:1 multiplier

Load on point 2 sees: 15,000KG (33,066LBS) - 5:1 Multiplier

DISTANCES

Line 5 will always move 4 times further than point 1 due to the 4:1 ratio

If you recover a vehicle over 10m (33ft) line 5 will travel through 40m (131ft)

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.

Phone

+44 (0) 1460 297355

Email

sales@red-winch.com

Website

www.red-winch.com