MINDER TWIN

3 year guarantee - Made in France

(TW) Polea
(ES) Carrucola
(IT) Carrucola
(DE) Seilrolle
(FR) Poulie
(EN) Pulley

individually tested

EN 12278

Specific information

General information

295 g

7 x Ø 13 mm

2x3 kN 2x3 kN

MINDER TWIN

Patented

1. Field of application

2. Nomenclature of parts

MINDER

Patented

TWIN

Patented

3. Inspection, points to verify

4. Compatibility

MINDER / TWIN

NO!

TWIN

NO!

NFPA CERTIFICATION FOR MINDER P60A and TWIN P65A

THIS MINDER / TWIN MEETS THE AUXILIARY EQUIPMENT REQUIREMENTS OF NFPA 1983, STANDARD ON LIFE SAFETY ROPE AND EQUIPMENT FOR EMERGENCY SERVICES, 2006 EDITION.

MBS 36 kN
G (GENERAL USE)
MEETS NFPA 1983 (2006 ED.)

After removing the notice from the equipment, make a copy of it and keep the original as part of a permanent record that includes the usage and inspection history for the equipment. Keep the copy of the notice with the equipment and refer to it before and after each use. Additional information regarding auxiliary equipment can be found in NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, and NFPA 1983, Standard on Fire Service Life Safety Rope and System Components.
Specific information

3 year guarantee - Made in France

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NFPA CERTIFICATION FOR MINDER P60A and TWIN P65A

EN 12278

Individually tested

295 g

MINDER

7 13 mm

450 g

TWIN

7 13 mm

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Pulley system efficiency

6A. Simple pulley system

F = 103 kg

P = 100 kg

6B. 2:1 hauling system

F = 51 kg

P = 100 kg

6C. 3:1 hauling system

F = 34 kg

P = 100 kg

F = 0.33 P

F = 0.34 P

F = 0.35 P

6D. 4:1 hauling system with progress capture for double pulleys

F = 27 kg

P = 100 kg

F = 0.25 P

F = 0.27 P

F = 0.35 P

F = 0.57 P

F = 0.875 P

F = 0.937 P

Ensemble
6. Pulley system efficiency

\[ F = \frac{P}{n} \]

\begin{align*}
\text{MINDER / TWIN} & & \text{F} = 103 \text{ kg} & & \text{F} = 103 \text{ kg} \\
\text{MINDER / TWIN} & & \text{F} = 100 \text{ kg} & & \text{F} = 100 \text{ kg} \\
\text{MINDER / TWIN} & & \text{F} = 51 \text{ kg} & & \text{F} = 34 \text{ kg}
\end{align*}

6A. Simple pulley system with progress

\[ F = 0.66 \times P \]
\[ F = 0.51 \times P \]
\[ F = 0.5 \times P \]

6B. 2:1 hauling system

\[ F = 0.4 \times P \]
\[ F = 0.27 \times P \]

6C. 3:1 hauling system

\[ F = 0.33 \times P \]
\[ F = 0.875 \times P \]

6D. 4:1 hauling system

\[ F = 0.25 \times P \]
\[ F = 0.937 \times P \]

P = 100 kg

-40°F
-40°C
+176°F
+80°C

PETZL
30°C maxi

7. Progress capture systems

8. Positioning and redirection

1 kN
1.4 kN
2 kN

\[ P = 100 \text{ kg} \]
\[ P = 100 \text{ kg} \]