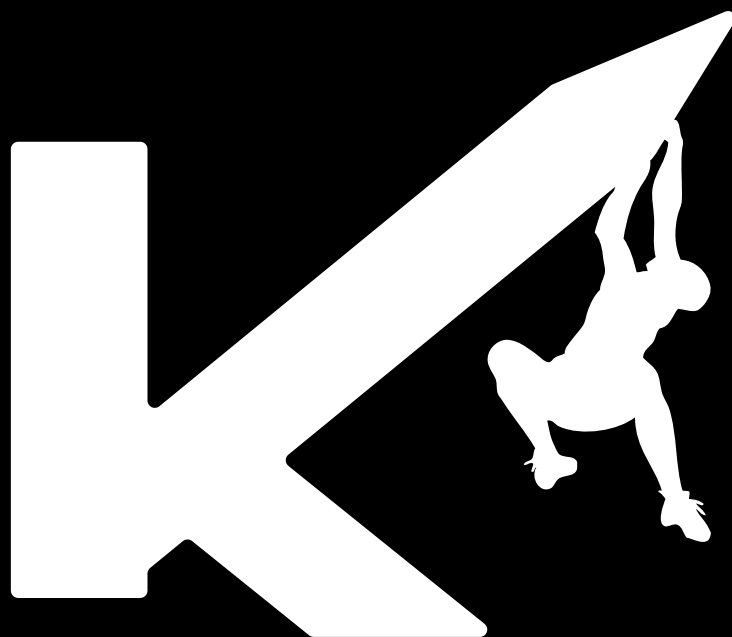


TECHNICAL INSTRUCTIONS



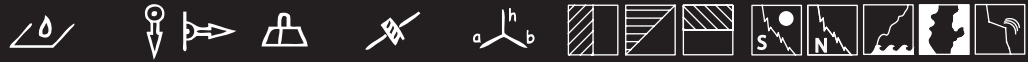
Kop de Gas[®]

FACTSHEET

HANGERS



PRODUCT	RAW MATERIAL	STRENGTH	WEIGHT	THICKNESS	MEASURES	PLACEMENT	ENVIRONMENT	PLACEMENT
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montsec
M8 & M10
R. 0101
R.0102



INOX

25KN - 15KN

35 gr.

3 mm.

6x3x3 cm.



montsec
M8 & M10
R.0103
R.0104



ACERO
Cr-Mb

25KN - 15KN

45 gr.

4 mm.

6x3x3 cm.



ca la Montse
M8 & M10
R.0105
R. 0106



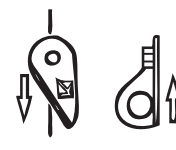
INOX

20KN - 10KN

20 gr.

2,5 mm.

6x2x3 cm.



**SRT -Single Rope
Technique-
M8**
R.0109



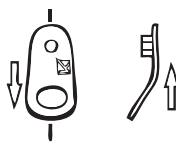
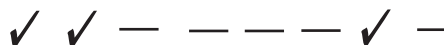
INOX

20KN - 10KN

20 gr.

2,5 mm.

6x2x3 cm.



Recuperable
M8 to M10
R.0108



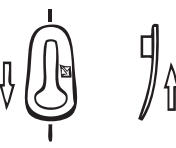
INOX

12KN - 4KN

12 gr.

2 mm.

6x2x3 cm.



vertical



overhang



roof



sunny rock



alpinism



salted environments



caving



canyoning



BOLTS



PRODUCT	RAW MATERIAL	STRENGTH	WEIGHT	DIAMETER	MEASURES	TORQUE	WRENCH	ENVIRONMENT	PLACEMENT
M8x60 bolt R.00201	INOX	15KN - 10KN	25 gr.	8 mm.	8x60 mm.	25Nm	13 mm.		<p>55-60 mm. 90°</p>
M8x75 bolt R.00200	INOX	15KN - 10KN	35 gr.	8 mm.	8x75 mm.	25Nm	13 mm.		<p>70-75 mm. 90°</p>
M10x70 bolt R.00203	INOX	24KN - 20KN	49 gr.	10 mm.	10x70 mm.	45Nm	17 mm.		<p>65-70 mm. 90°</p>
M10x90 bolt R.00204	INOX	24KN - 20KN	60 gr.	10 mm.	10x90 mm.	45Nm	17 mm.		<p>85-90 mm. 90°</p>

* Despite M10x70 bolts can be placed in soft rocks, the M10x90 are more indicated due to its length.

sunny rock



alpinism



salted environments



caving

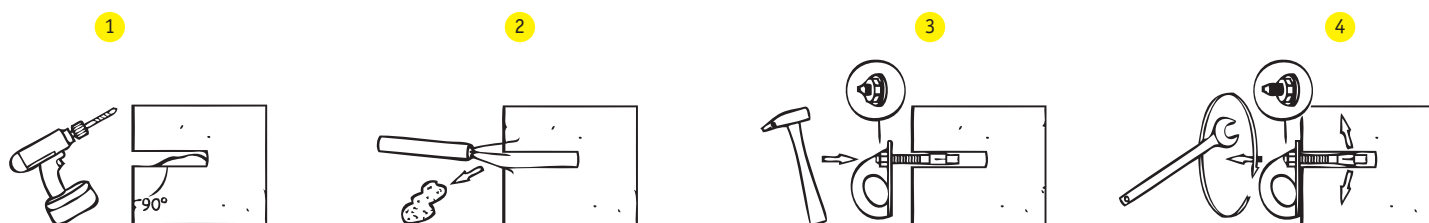


canyoning



FACTSHEET

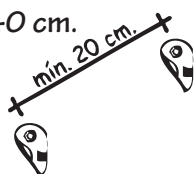
PLACEMENT TIPS



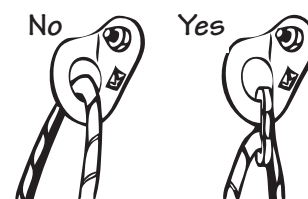
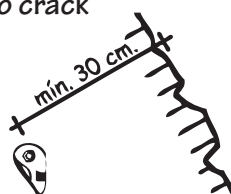
Distàncies mínimes

rappelling

Between hangers
recommended: 40 cm.



From hanger to crack



DISCLAIMER: These products are used in rock climbing, mountaineering, caving, canyoning and via ferrata; dangerous activities which involve a risk of **SERIOUS** and/or **FATAL ACCIDENTS**. You decide to practice these activities; Therefore, you are responsible for your actions and decisions. If you do not accept these responsibilities, please, do not use our products. Receive qualified and professional instruction by qualified instructors before using these products. Climbing is dangerous! Read carefully the instructions before use. As it is not possible to describe all possible wrong activities to be done with the gear, these instructions won't replace the user's experience and responsibility. Check rock's quality and the anchor before placing it, and do an extensive checking at least every 12 months. Kop Gas SL., the distributors and retailers will not accept any kind of responsibility for any injury or death that may occur because of the use of our products.

NUT TOOL

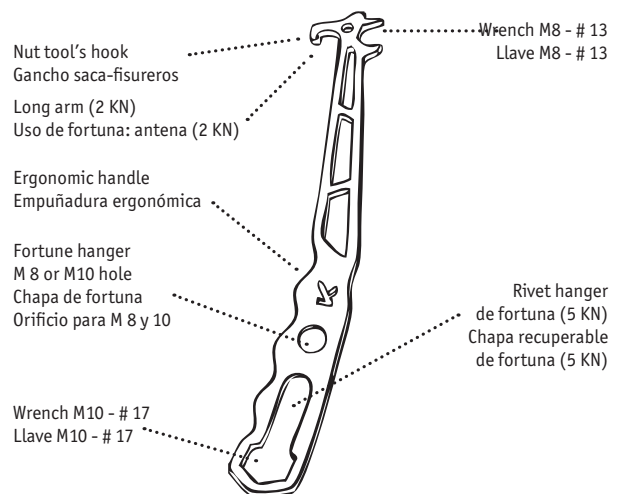


CLIMBING IS DANGEROUS! RECEIVE QUALIFIED AND PROFESSIONAL INSTRUCTION BEFORE USE.

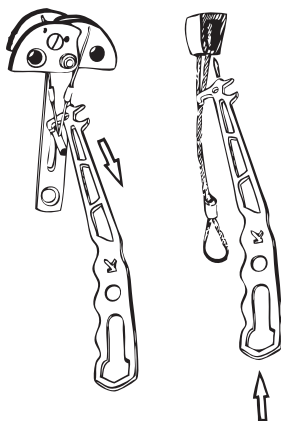
Rock climbing, mountaineering, caving, canyoning and via ferrata are dangerous activities which involve a risk of **SERIOUS** and/or **FATAL ACCIDENTS**. You decide to practice these activities; Therefore, you are responsible for your actions and decisions. If you do not accept these responsibilities, please, do not use our products. Receive qualified and professional instruction by qualified instructors before using these products. Kop Gas SL., the distributors and retailers will not accept any kind of responsibility for any injury or death that may occur because of the use of our products.

NUT TOOL "BIN" SACAFISUREROS "BIN"

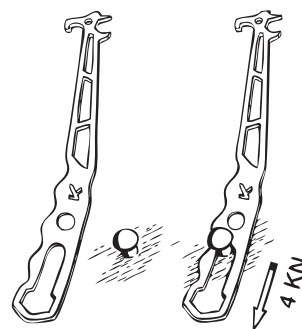
Nut tool provided with M8 and M10 spanners.



Nut tool

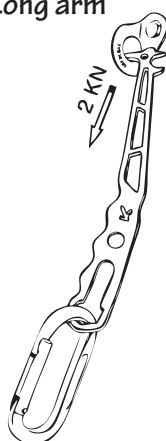


Rivet hanger



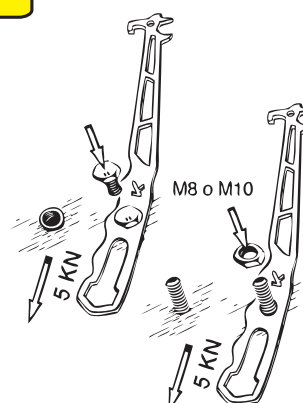
! warning! 1 KN = 100 Kgr.

Long arm



! WARNING - ATENCIÓN
Only in case of emergency
Solo en caso de emergencia

Fortune hanger



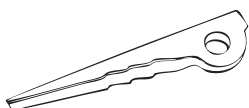
PITONS



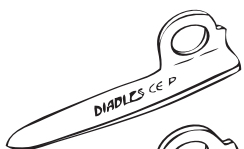
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PITONS KdG



SHARKS
Hardened steel angles.
CE (P) - Dark red coloured
L= 6, 9, 12 cm.



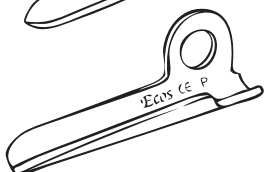
DIABLES
Hardened knifeblades
CE (P) - Dark red coloured
L= 5, 7, 9 cm.



KNIFEBLADES
Medium hardened knifeblades en "P"
CE (P) - Orange coloured
L= 6, 8, 10 cm.



UNIVERSALS
Soft universals.
CE (P) - Steel plate coloured
L= 8 i 10 cm.



ECOS
Soft or hardened "U" pitons.
CE (P) - Steel plate/dark red coloured
L= 6, 8, 10 cm.

SECURITY WARNIG - AVISO DE SEGURIDAD

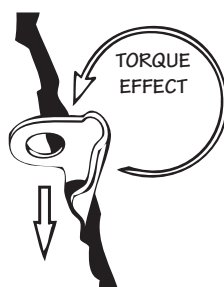
Use of pitons requires specific knowledge and experience. Do not hesitate to receive training by qualified climbing guides. Practice before entering the wall. Approximately, 10 hammer stings are needed to locate correctly a Piton. Discard the pitons that come easily, although they appear to be well placed. A Piton "sings" when you chop it correctly with the hammer, and chirps increasingly sharp and sustained.

La colocación de pitones requiere conocimientos específicos y experiencia. No dudes en recibir formación adecuada por parte de profesionales (guías de escalada titulados). Practica a pié de vía antes de entrar en la tapia. Aproximadamente hacen falta 10 picadas de mediana para emplazar correctamente un pitón. Descarta los clavos que entren fácilmente aunque parezcan bien colocados. Un pitón "canta" cuando al darle correctamente con el martillo emite un sonido progresivamente más agudo y sostenido.

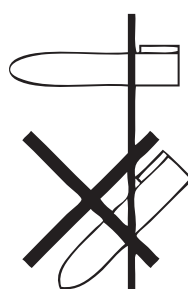
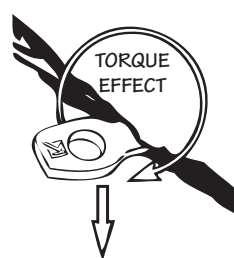
TORQUE EFFECT - FUERZA DE TORSIÓN

When placing a piton it is better to translate the tractive force of a possible fall into a torque force of the blade. This increases the stretch of the piton much more than simple lever effect.

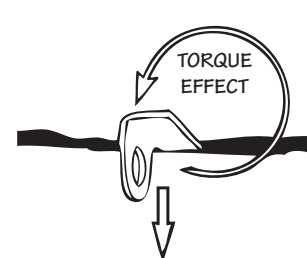
El emplazamiento de los pitones tendrá en cuenta que la fuerza de tracción de una posible caída se traduzca en una fuerza de torsión del clavo. Esto incrementa la resistencia del pitón mucho más que el simple efecto de palanca.



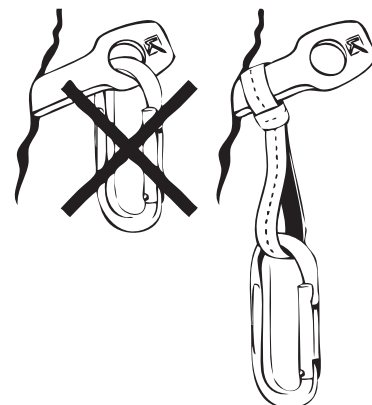
PLACE THE PITON PERPENDICULAR TO THE CRACK



PLACE THE PITON BLADE PARALLEL TO THE CRACK



AVOID THE LEVER EFFECT





Kop de Gas[®]