

SAFE USE OF LIFTING WEBBING SLINGS



1. Good slinging practice must ensure that the load is as safe and secure in the air as it was on the ground and that no harm is done to the load, lifting equipment, other property or persons.
2. Establish the weight of the load, ensure the lifting method is suitable and inspect the sling and attachments for obvious defects. Prepare the landing area making sure the floor is strong enough to take the load.
3. Ensure the lifting point is over the centre of gravity. Any loose parts of the load should be removed or secured. Secure the sling firmly to the load by hooks onto lifting points or shackles etc. The sling must not be twisted, knotted or kinked in any way.
4. Use packing to prevent damage to the sling from corners or edges and to protect the load.
5. Do not exceed the SWL or rated angle. Any choke angle must not exceed 120° and any basket 90°.
6. Do not hammer, force or wedge slings or accessories into position; they must fit freely. When attaching more than one sling to the hook of the appliance use a shackle to join the slings and avoid overcrowding the hook.
7. Ensure the load is free to be lifted and not, for example, bolted down.
8. Check that there are no overhead obstacles such as power lines.
9. Keep fingers, toes etc clear ensuring they do not become trapped when lifting, lowering or controlling loads.
10. Make a trial lift by raising the load a little to ensure it is balanced, stable and secure and if not lower it and adjust the slinging arrangement.
11. Where appropriate use tag lines to control the load.
12. Except where special provision is made, do not allow anyone to pass under or ride upon the load. The area should be kept clear.
13. Make a trial set down, ensure the sling will not become trapped and the load will not tip when the slings are released. Use supports which are strong enough to sustain the load without crushing.
14. Never drag slings over floors etc or attempt to drag a trapped sling from under a load.
15. Never use a sling to drag a load.
16. Place the hooks of free legs back onto the master link and take care to ensure that empty hooks do not become accidentally engaged.
17. Never use slings in contact with chemicals or heat without the manufacturers approval.
18. Never use damaged or contaminated slings.
19. On completion of the lift return all equipment to proper storage.



Pallars 84, Entreplanta Local 5 - 08018 BARCELONA

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SAFETY FACTOR:

It's minimal value must be at least equal to:

7:1 for the webbing and round slings

4:1 for accessories made of steel

5:1 for the remaining components

ALWAYS:

- Store and handle belt slings correctly.
- Inspect belt slings and accessories before use and before placing into storage.
- Position the sling so that the load is uniformly spread over its width and protect the sling from sharp edges.
- Apply the correct mode factor for the slinging arrangement.
- Apply the mode factor for the slinging method.

NEVER:

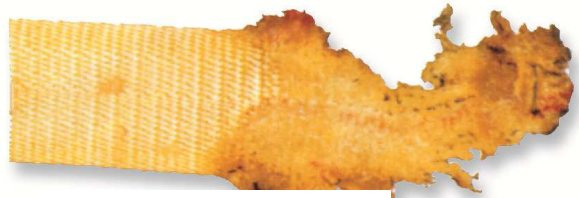
- Overload slings due to the weight of the load or the mode of use.
- Drag slings over floors etc or attempt to pull trapped slings from under loads.
- Attempt to shorten, knot or tie belt slings.
- Expose belt slings to direct heat or flames.
- Use belt slings at temperatures above 100°C or below -40°C.
- Expose belt slings to chemicals without consulting the supplier.
- Shock load belt slings.
- Use belt slings which are cut or which have loose or damaged stitching.
- Use a sling with a missing/damaged label or illegible markings.

INSPECTION

Before each use inspect belt slings and, in the event of the following defects, refer the sling to a Competent Person for thorough examination: illegible markings; damaged, chaffed or cut webbing; damaged or loose stitching; heat damage; burns; chemical damage; solar degradation; damaged or deformed end fittings.

Methode

1. Lay the slings horizontally on well illuminated flat surface.
2. Check the slings on its full length.
3. Only a qualified person should do the



Damage caused by acids



Damage caused by overheating



Damage caused by sharp edges



Damage caused by sharp edges on sides



Damage caused by burning



Damage caused by sharp edges in one face



Damage caused by stinging object



Damage caused for overloading



Hidden damages



- Eslingas Planas Poliester de Elevación NORMA EN 1492-1. Factor Seguridad 7:1
- Eslingas Tubulares Poliester de Elevación NORMA EN 1492-2. Factor Seguridad 7:1
- Pulpos de Poliester Alta Tenacidad NORMA EN 1492-1. Factor Seguridad 7:1 partes de poliester, Factor Seguridad 4:1 partes metálicas
- Pulpos de Cadena. NORMA EN 818-4. Factor Seguridad 4:1
- Eslingas de fijación de cargas con tensor. Norma EN 12195-2. Factor Seguridad 2:1
- Élingues Plates Polyester pour levage - NORME EN 1492-1. Facteur de Sécurité 7:1
- Élingues Rondes Polyester pour levage- NORME EN 1492-2. Facteur de Sécurité 7:1
- Élingue de Polyester Multi-Brins - NORME EN 1492-1. Facteur de Sécurité 7:1 parties de polyester, Facteur de Sécurité 4:1 pièces métalliques
- Élingue de Chaîne Multi-Brins - NORME EN 818-4. Facteur de Sécurité 4:1
- Sangles arrimage avec Tendeur - NORME EN 12195-2. Facteur de Sécurité 2:1

FECHA 12 - 16 EN 1492-1 FW - ES B60187614 W.L.L. 3.000 Kg. 100 % POLIESTER
FECHA 12 - 16
L 6,00 .-m
W.L.L. S.F. 7:1 3.000 Kg.
100 % POLIESTER
 x 1,0  x 0,8  x 2,0  x 1,5
C. TRAZ.E08016121000253
FW - ES B60187614  EN 1492-1

DATE 12 - 16 EN 12195-2 FW - ES B60187614 CT 2.500 daN 100 % POLYESTER
DATE 12 - 16
L 2,30 .-m
REF: CTG7500 Shf 50 daN Stf 300 daN CAPACITE CHARGE (daN)
5.000 5.000 2.500   
S.F. 2:1 100 % POLYESTER 4% ALLONGEMENT MAX NE PAS LEVER SEULEMENT ARRIMER
TRACK P10416120B000004
FW - ES B60187614  EN 12195-2

DATE 12 - 16 EN 1492-1 FW - ES B60187614 W.L.L. 3.000 Kg. 100 % POLYESTER
DATE 12 - 16
L 6,00 .-m
W.L.L. S.F. 7:1 3.000 Kg.
100 % POLYESTER
 x 1,0  x 0,8  x 2,0  x 1,5
TRACK NMB E08016121000254
FW - ES B60187614  EN 1492-1

DATUM 12 - 16 EN 12195-2 FW - ES B60187614 CT 2.500 daN 100 % POLYESTER
DATUM 12 - 16
L 2,30 .-m
REF: CTG7500 Shf 50 daN Stf 300 daN LC - Zulässige Zugkraft
5.000 5.000 2.500   
S.F. 2:1 100 % POLYESTER DEHNUNG<4% Darf nicht zum Heben verwendet werden!
TRACK P10416120B000004
FW - ES B60187614  EN 12195-2

- Polyester Flat Lifting Webbing Sling - STANDARD EN 1492-1. Security Factor 7:1
- Polyester Round Sling - STANDARD EN 1492-2. Security Factor 7:1
- Multi Leg Polyester Sling - STANDARD EN 1492-1. Security Factor 7:1 polyester parts Security Factor 4:1 metal parts
- Multi Leg Chains - STANDARD EN 818-4. Security Factor 4:1
- Lashing Straps with Ratchet - STANDARD EN 12195-2. Security Factor 2:1
- Polyester Bandschlingen - NORMA EN 1492-1. Sicherheitsfaktor 7:1
- Poluestyler Rundschlinge - NORMA EN 1492-2. Sicherheitsfaktor 7:1
- Polyester Hebegurte Mit Hoher Tragfähigkeit -NORMA EN 1492-1. Sicherheitsfaktor 7:1 teile polyester, Sicherheitsfaktor 4:1 partes metallteile
- Kettengehänge - NORMA EN 818-4. Sicherheitsfaktor 4:1
- Spanngurte Mit Tatsche - NORMA EN 12195-2. Sicherheitsfaktor 2:1

ESLINGAS PLANAS DE POLIESTER ALTA TENACIDAD CON GAZAS PROTEGIDAS
ÉLINGUES DE HAUTÉ TENACITÉ AVEC BOUCLES RENFORCÉES
LIFTING WEBBING SLINGS WITH LOOPS
BANDSCHLINGEN MIT SCHLAUFEN



EN 1492-1 / SF-FS 7:1



C: COLOR/COULEUR/COLOR/FARBE

A: ANCHO / LARGEUR / WIDTH / BREITE

DOBLE BANDA - 2 BANDES 2 LAYERS - 2 LAGIGS						
C	REF.	A mm				
	EAD-30	30	1.000	800	2.000	1.500
	EAD-50	50	1.500	1.200	3.000	2.250
	EAD-60	60	2.000	1.600	4.000	3.000
	EAD-75	75	2.500	2.000	5.000	3.750
	EAD-90	90	3.000	2.400	6.000	4.500
	EAD-120	120	4.000	3.200	8.000	6.000
	EAD-150	150	5.000	4.000	10.000	7.500
	EAD-180	180	6.000	4.800	12.000	9.000
	EAD-240	240	8.000	6.400	16.000	12.000
	EAD-300	300	10.000	8.000	20.000	15.000
	EAD-300E	300	12.000	9.600	24.000	18.000

CUADRUPLE - 4 BANDES 4 LAYERS - 4 LAGIGS						
	REF.	A mm				
	EAC-30	30	2.000	1.600	4.000	3.000
	EAC-50	50	3.000	2.400	6.000	4.500
	EAC-60	60	4.000	3.200	8.000	6.000
	EAC-75	75	5.000	4.000	10.000	7.500
	EAC-90	90	6.000	4.800	12.000	9.000
	EAC-120	120	8.000	6.400	16.000	12.000
	EAC-150	150	10.000	8.000	20.000	15.000
	EAC-180	180	12.000	9.600	24.000	18.000
	EAC-240	240	16.000	12.800	32.000	24.000
	EAC-300	300	20.000	16.000	40.000	30.000
	EAC300-E	300	24.000	19.200	48.000	36.000



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EN 1492-1 / SF-FS 7:1



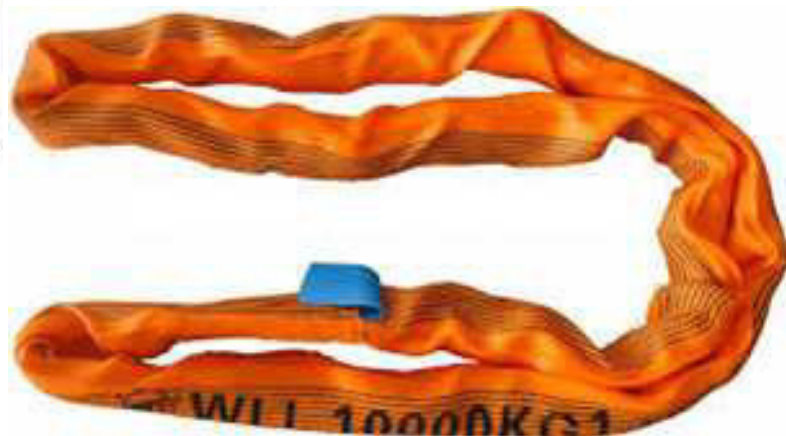
C: COLOR/COULEUR/COLOR/FARBE

A: ANCHO / LARGEUR / WIDTH / BREITE

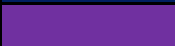
BANDA SIMPLE - UNE BANDE SINGLE LAYER - EINS LAGIG						
C	REF.	A mm				
	EC1V-30	30	1.000	800	2.000	1.500
	EC1V-50	50	1.500	1.200	3.000	2.250
	EC1V-60	60	2.000	1.600	4.000	3.000
	EC1V-75	75	2.500	2.000	5.000	3.750
	EC1V-90	90	3.000	2.400	6.000	4.500
	EC1V-120	120	4.000	3.200	8.000	6.000
	EC1V-150	150	5.000	4.000	10.000	7.500
	EC1V-180	180	6.000	4.800	12.000	9.000
	EC1V-240	240	8.000	6.400	16.000	12.000
	EC1V-300	300	10.000	8.000	20.000	15.000
	EC1V-300E	300	12.000	9.600	24.000	18.000

DOBLE Banda - 2 BANDES 2 LAYERS - 2 LAGIGS						
	REF.	A mm				
	EC2V-30	30	2.000	1.600	4.000	3.000
	EC2V-50	50	3.000	2.400	6.000	4.500
	EC2V-60	60	4.000	3.200	8.000	6.000
	EC2V-75	75	5.000	4.000	10.000	7.500
	EC2V-90	90	6.000	4.800	12.000	9.000
	EC2V-120	120	8.000	6.400	16.000	12.000
	EC2V-150	150	10.000	8.000	20.000	15.000
	EC2V-180	180	12.000	9.600	24.000	18.000
	EC2V-240	240	16.000	12.800	32.000	24.000
	EC2V-300	300	20.000	16.000	40.000	30.000
	EC2V300-E	300	24.000	19.200	48.000	36.000

EN 1492-2 / SF-FS 7:1



C: COLOR/COULEUR/COLOR/FARBE

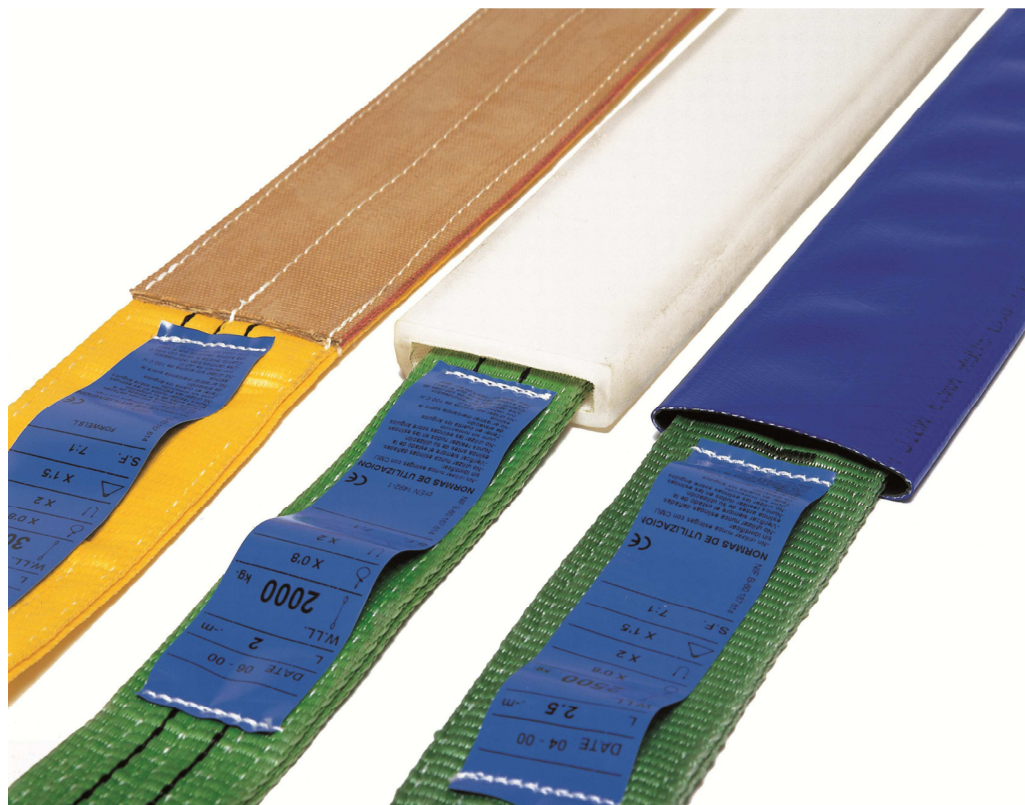
					
C	REF.				
	ETC - 10	1.000	800	2.000	1.500
	ETC - 20	1.500	1.200	3.000	2.250
	ETC - 30	2.000	1.600	4.000	3.000
	ETC - 40	2.500	2.000	5.000	3.750
	ETC - 50	3.000	2.400	6.000	4.500
	ETC - 60	4.000	3.200	8.000	6.000
	ETC - 80	5.000	4.000	10.000	7.500
	ETC - 100	6.000	4.800	12.000	9.000
	ETC - 120	8.000	6.400	16.000	12.000
	ETC - 150	10.000	8.000	20.000	15.000
	ETC - 250	12.000	9.600	24.000	18.000
	ETC - 300	12.000	9.600	24.000	18.000

PROTECCIONES PARA ESLINGAS TEXTILES
FOURREAUX DE PROTECTION POUR ÉLINGUES
PROTECTIVE SLEEVES FOR SLINGS
ABRIEB- UND KANTENSCHUTZ



PVC: PVC ARMADO - PVC ARMÉ - REINFORCED PVC - SCHWIMMBAD PVC
 PLR: POLIURETANO - POLYURÉTHANE - POLYURETHANE - POLYURETHAN
 ORO: CAUCHO NEGRO - GAINÉ DE POMPIER - BLACK RUBBER - FÜR AUTOREIFEN
 COR: GOMA Y LONA - PRÉLART ET CAOUTCHOUC - CANVAS AND RUBBER - GUMMI UND SEGELTUCH

A: ANCHO / LARGEUR / WIDTH / BREITE



REF.	MAT.	A mm
PVC 030	PVC	30
PVC 050	PVC	50
PVC 060	PVC	60
PVC 075	PVC	75
PVC 090	PVC	90
PVC 120	PVC	120
PVC 150	PVC	150
PVC 180	PVC	180
PVC 240	PVC	240
PVC 300	PVC	300
REF.	MAT.	A mm
COR 050	COR	50
COR 075	COR	75
COR 090	COR	90

REF.	MAT.	A mm
PLR 050	PLR	50
PLR 060	PLR	60
PLR 075	PLR	75
PLR 090	PLR	90
PLR 120	PLR	120
PLR 150	PLR	150
PLR 180	PLR	180
PLR 240	PLR	240
PLR 300	PLR	300
REF.	MAT.	A mm
ORO 050	ORO	50
ORO 060	ORO	60
ORO 075	ORO	75
ORO 090	ORO	90
ORO 120	ORO	120
ORO 150	ORO	150
ORO 180	ORO	180



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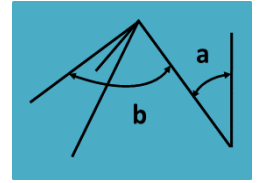
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TERMINOLOGIA TABLAS DE CARGAS MAXIMAS DE UTILIZACION

NR: Numero de ramales / b: Angulo entre ramales opuestos (no aplicable a 3 ramales)

a: Angulo de inclinación respecto la vertical / F: Factor cálculo de cálculo de la CMU

A: Anilla / D: Diámetro de la varilla / CMU: Carga Máxima de Utilización



La carga máxima de utilización se refiere a pulpos de elevación cargados uniformemente. Para Pulpos de elevación cargados de forma desigual se recomienda una carga máxima de trabajo que se determina de la siguiente forma:

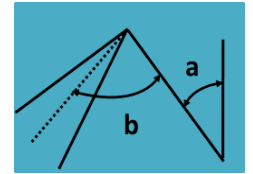
- Pulpo de 2 ramales, calcúlese como un pulpo de 1 ramal en cuanto a la CMU
- Pulpos de 3 y 4 ramales, calcúlese como pulpos de 2 ramales en cuanto a la CMU

TERMINOLOGIE TABLES DU CHARGE MAXIME D'UTILISATION (CMU)

NR: Nombre de brins / b: angle entre les brins opposés (no d'application a 3 brins)

a: Anngle d'inclinaison / F: CMU calcul du facteur

A: Anneau / D: Taille / CMU: Charge maxime d'utilisation



La CMU se réfère a élingues de brins chargées uniformément.

Dans le cas d'une repartition de charge déséquilibrée, prendre les CMU suivantes:

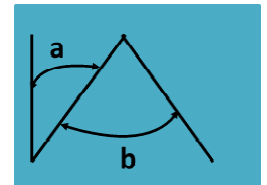
- élingues de 2 brins, calculez la CMU comme si l'élingue était composé d'un seul brin
- élingues de 3 et 4 brins, calculez la CMU comme si 'élingue était composé de 2 brins

WEIGHT LIMIT LOAD TABLE PARAMETERS (WLL)

NR: Number of legs / b: angle between opposite legs (not applicable to 3 legs)

a: inclination angle / F: WLL calcul factor

A: Link / D: Size / CMU/WLL: Weight Limit Load



The maximum working load refers to uniformly loaded Multi Leg Slings (MLS)

For not uniformly loaded MLS it is recommended the following weight limit loads:

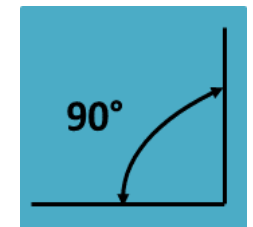
- MLS of 2 legs, calculate as an MLS of 1 leg in terms of WLL
- MLS of 3-4 legs, calculate as an MLS of 2 legs in terms of WLL

PARAMETER TABLE - MAXIMALE TRAFÄHIGKEIT (LC)

NR: Anzahl der Stränge / a: Winkel zwischen gegenüberliegenden Strängen (bei 3 Strängen nicht anwendbar)

b: Vertikaler Neigungswinkel / F: Bemessungsfaktor der Trafähigkeit

A: Ring / D: Ketten-Nennstärke / CMU: Zul. Zugkraft Anschlagketten

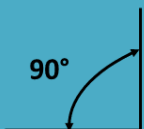


Die maximale Tragfähigkeit (LC) bezieht sich auf die Kettengehänge mit einer gleichmäßig verteilten Last.

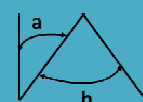
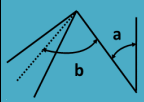
Für nicht gleichmäßig verteilte Last, empfiehlt sich die folgende Gewichtsverteilung:

- Kettengehänge 2-Strang: LC muss als 1-Strang kalkuliert werden.
- Kettengehänge 3 und 4 Strang: LC muss als 2-Strang kalkuliert werden.



EN 1492-1 SF/FS 7:1							
NR			1	2		3 - 4	
b			0	b<45°	45°<b<60°	b<45°	45°<b<60°
a				a<90°	90°<a<120°	a<90°	90°<a<120°
F: (max=3)xcos b			1	1,4	1	2,1	1,5
REF.	A		CMU/WLL				
	D	CMU					
P1 030	A 13	1,00 Tn	1.000	----	----	----	----
P1 050	A 16	2,00 Tn	1.500	----	----	----	----
P1 060	A 16	2,00 Tn	2.000	----	----	----	----
P1 075	A 18	3,20 Tn	2.500	----	----	----	----
P1 090	A 18	3,20 Tn	3.000	----	----	----	----
P1 120	A 20	5,30 Tn	4.000	----	----	----	----
P2 030	A 16	2,00 Tn	1.000	1.400	1.000	----	----
P2 050	A 18	3,20 Tn	1.500	2.100	1.500	----	----
P2 060	A 18	3,20 Tn	2.000	2.800	2.000	----	----
P2 075	A 20	5,30 Tn	2.500	3.500	2.500	----	----
P2 090	A 20	5,30 Tn	3.000	4.200	3.000	----	----
P2 120	A 22	8,00 Tn	4.000	5.600	4.000	----	----
P4 030	A 20/14	4,25 Tn	1.000	----	----	2.100	1.500
P4 050	A 20/14	4,25 Tn	1.500	----	----	3.150	2.250
P4 060	A 20/14	4,25 Tn	2.000	----	----	4.200	3.000
P4 075	A 22/17	6,70 Tn	2.500	----	----	5.250	3.750
P4 090	A 22/17	6,70 Tn	3.000	----	----	6.300	4.500
P4 120	A 36/36	12,00 Tn	4.000	----	----	8.400	6.000



EN 818-4 SF/FS 4:1						 	
NR			1	2		3 - 4	
b			0	b<45°	45°<b<60°	b<45°	45°<b<60°
a				a<90°	90°<a<120°	a<90°	90°<a<120°
F: (max=3)xcos b			1	1,4	1	2,1	1,5
REF.	D	A	CMU/WLL				
P1 030	7	A 13	1.500	----	----	----	----
P1 050	8	A 16	2.000	----	----	----	----
P1 060	10	A 18	3.150	----	----	----	----
P1 075	13	A 20	5.300	----	----	----	----
P1 090	16	A 22	8.000	----	----	----	----
P1 120	19	A 36	11.200	----	----	----	----
P2 030	7	A 18	1.500	2.120	1.500	----	----
P2 050	8	A 18	2.000	2.800	2.000	----	----
P2 060	10	A 20	3.150	4.250	3.150	----	----
P2 075	13	A 22	5.300	7.500	5.300	----	----
P2 090	16	A 32	8.000	11.200	8.000	----	----
P2 120	19	A 40	11.200	16.000	11.200	----	----
P4 030	7	A 20/13	1.500	----	----	3.150	2.240
P4 050	8	A 20/13	2.000	----	----	4.250	3.000
P4 060	10	A 22/17	3.150	----	----	6.700	4.750
P4 075	13	A 32/22	5.300	----	----	11.200	8.000
P4 090	16	A 36/26	8.000	----	----	17.000	11.800
P4 120	19	A 51/32	11.200	----	----	23.600	17.000
P4 030	7	A 20/13	1.500	----	----	3.150	2.240
P4 050	8	A 20/13	2.000	----	----	4.250	3.000
P4 060	10	A 22/17	3.150	----	----	6.700	4.750
P4 075	13	A 32/22	5.300	----	----	11.200	8.000
P4 090	16	A 36/26	8.000	----	----	17.000	11.800
P4 120	19	A 51/32	11.200	----	----	23.600	17.000

D: DIAMETRO CADENA / DIAMÈTRE DU CHÂÎNE / CHAIN DIAMETER

	Gancho ojo de alta resistencia Crochet simple à oeil avec linguet forgé Eye hook Sicherheitshaken mit Öse, selbstschliessend	REF.	D	CMU/WLL
		GAN01TN	6 mm	1,2 Tn
		GAN02TN	7-8 mm	2 Tn
		GAN03TN	10 mm	3,2 Tn
		GAN05TN	13 mm	5,3 Tn
		GAN08TN	16 mm	8 Tn
		GAN12TN	19-20 mm	12,5 Tn
	Gancho ojo de alta seguridad Crochet de sécurité à oeil Eye safety hook Sicherheitshaken mit Öse	REF.	D	CMU/WLL
		GANHS01TN	6 mm	1,2 Tn
		GANHS02TN	7-8 mm	2 Tn
		GANHS03TN	10 mm	3,2 Tn
		GANHS05TN	13 mm	5,3 Tn
		GANHS08TN	16 mm	8 Tn
		GANHS12TN	19-20 mm	12,5 Tn
	Gancho horquilla de alta resistencia Crochet à chape avec linguet forgé Clevis hook Haken mit Sicherungsfalle	REF.	D	CMU/WLL
		GANH02TN	7-8 mm	2 tn
		GANH03TN	10 mm	3,2 tn
		GANH05TN	13 mm	5,3 tn
		GANH08TN	16 mm	8 tn
	Gancho horquilla de alta seguridad Crochet de sécurité à chape Clevis safety hook Sicherheitshaken, selbstschliessend	REF.	D	CMU/WLL
		GANHSH02TN	7-8 mm	2 tn
		GANHSH03TN	10 mm	3,2 tn
		GANHSH05TN	13 mm	5,4 tn
		GANHSH08TN	16 mm	8 tn
		GANHSH12TN	19-20 mm	12,5 tn
	Gancho giratorio de alta resistencia Crochet simple à émerillon avec linguet forgé Rotating hook Ösenhaken, drehbar mit Sicherungsfalle	REF.	D	CMU/WLL
		GANG01TN	6 mm	1 Tn
		GANG02TN	7-8 mm	2 Tn
		GANG03TN	10 mm	3,2 Tn
		GANG05TN	13 mm	5,4 Tn.
		GANG08TN	16 mm	8 Tn
		GANG12TN	19-20 mm	12,5 Tn
	Gancho giratorio de alta seguridad Crochet de sécurité à émerillon Rotating safety hook Ösenhaken, selbstschliessend & drehbar	REF.	D	CMU/WLL
		GANHSG01TN	6 mm	1,2 tn
		GANHSG02TN	7-8 mm	2 tn
		GANHSG03TN	10 mm	3,2 tn
		GANHSG05TN	13 mm	5,4 tn
		GANHSG08TN	16 mm	8 tn
	Gancho Forestal de horquilla Crochet de Fôret à chape Clevis Forest hook Wald Sicherheitshaken	REF.	D	CMU/WLL
		GANFOR02	7-8 mm	2 tn
		GANFOR03	10 mm	3,15 tn

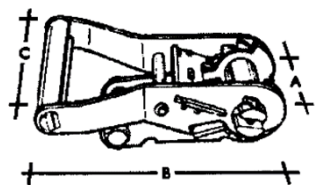
D: DIAMETRO CADENA / DIAMÈTRE DU CHAÎNE / CHAIN DIAMETER

	Gancho acortador garfio Crochet de raccourcissement à chape Clevis grab hook Verkürzungshaken mit Gabelkopf	REF.	D	CMU/WLL
		ACOG08	7 y 8 mm	2,00 tn
		ACOG10	10 mm	3,15 tn
		ACOG13	13 mm	5,30 tn
		ACOG16	16 mm	8,00 tn
		ACOG19	19 mm	11,20 tn
	Gancho acortador de cazoleta Griffe de raccourcissement à chape Clevis shortening hook Verkürzungsklaue	REF.	D	CMU/WLL
		ACOC08	7 y 8 mm	2,00 tn
		ACOC10	10 mm	3,15 tn
		ACOC13	13 mm	5,30 tn
		ACOC16	16 mm	8,00 tn
		ACOC19	19 mm	11,20 tn
	Unión para cadena Maille de jonction pour chaîne Connecting link Aufhängeglied, einfach	REF.	D	CMU/WLL
		UNI08	7-8 mm	2,00 tn
		UNI10	10 mm	3,15 tn
		UNI13	13 mm	5,30 tn
		UNI16	16 mm	8,00 tn
		UNI19	19 mm	11,20 tn
	Gancho soldable Crochet à souder Weld-on hook Schweißbarer Baggerhaken	REF.	D	CMU/WLL
		GANSOL02TN		2 Tn
		GANSOL03TN		3 Tn
		GANSOL05TN		5 Tn
		GANSOL08TN		8 Tn
		GANSOL10TN		10 Tn
	Anilla soldable articulada Anneau articulé à souder Articulated weldable hoist ring Schweißbarer Anschlagpunkt	REF.	D	CMU/WLL
		ANISOL02TN		2 Tn
		ANISOL03TN		3 Tn
		ANISOL05TN		5 Tn
		ANISOL08TN		8 Tn
	Gancho Fundición de ojo Crochet Fonderie à oeil Eye Foundry hook Foundry Haken mit Öse	REF.	D	CMU/WLL
		GANFUN02	7-8 mm	2 tn
	Gancho Contenedor de ojo Crochet Container à oeil Eye Container hook Container Haken mit Öse	REF.	D	CMU/WLL
		GANCONT		12,5 tn
	Tensor de cadena con ganchos Tendeur d'arrimage à cliquet pour chaîne Ratchet binder Ratschlastspanner mit Haken	REF.	D	CMU/WLL
		RAT08	8 mm	8,6 Tn
		RAT10	10 mm	15 Tn
		RAT13	13 mm	20,8 Tn

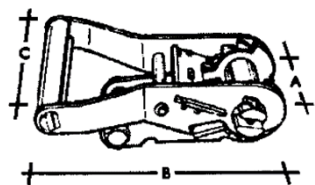
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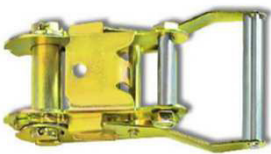
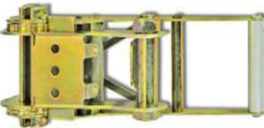
RX: NUMERO RAMALES / NOMBRE DE BRINS / NUMBER OF LEGS / ANZAHL DER STRÄNGE

	Anilla Ovalada Simple Anneau simple Link Aufhängeglied, einfach	REF.	D		CMU/WLL
			R1	R2	
		ANILLAA13	6 mm	-	1,10 tn
		ANILLAA16	7-8 mm	7 mm	2,12 tn
		ANILLAA18	10 mm	8 mm	3,20 tn
		ANILLAA20	13 mm	10 mm	5,30 tn
		ANILLAA22	16 mm	13 mm	8,00 tn
		ANILLAA32	19 mm	16 mm	11,20 tn
	Anilla Maestra Anneau triple Master link Aufhängegarnitur	REF.	D		CMU/WLL
			R3	R4	
		ANIT2014	7-8 mm	7-8 mm	4,25 tn
		ANIT2216	10 mm	10 mm	6,70 tn
		ANIT2822	13 mm	13 mm	11,20 tn
		ANIT3626	16 mm	16 mm	21,20 tn
	Grillete lira alta resistencia grado 80 Manille lyre de grade 80 US type shankles Schäkel hochfest, 80 Grad (geschweift)	REF.	SIZE		CMU/WLL
		GRI01LIRA	3/8"		1 tn
		GRI02LIRA	1/2"		2 tn
		GRI03LIRA	5/8"		3,25 tn
		GRI04LIRA	3/4"		4,75 tn
		GRI06LIRA	7/8"		6,5 tn
		GRI08LIRA	1"		8,5 tn
		GRI09LIRA	1" 1/8		9,5 tn
		GRI12LIRA	1" 1/4		12 tn
		GRI13LIRA	1" 3/8		13,5 tn
		GRI17LIRA	1" 1/2		17 tn
		GRI25LIRA	1" 3/4		25 tn
		GRI35LIRA	2"		35 tn
	Grillete recto alta resistencia grado 80 Manille droit de grade 80 Linear shankles Schäkel hochfest, 80 Grad (gerade)	REF.			CMU/WLL
		GRI01RECT	3/8"		1 tn
		GRI02RECT	1/2"		2 tn
		GRI03RECT	5/8"		3,25 tn
		GRI04RECT	3/4"		4,75 tn
		GRI06RECT	7/8"		6,5 tn
		GRI08RECT	1"		8,5 tn
		GRI09RECT	1" 1/8		9,5 tn
	Unión cadena - eslinga téxtil con gasas Link chain - webbing slings Maille de jonction chaîne - élingue textil Aufhängeglied, einfach - bandschlingue	REF.	D	Belt	CMU/WLL
		UNI060	8 mm	60 mm	2 tn
		UNI090	10 mm	90 mm	3,15 tn

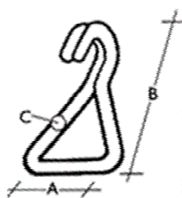


	Tensor de 25 mm - 800 kg Tendeur à cliquet de 25 mm - 800 kg 25 mm Ratchet flat paddle handle Ratsche 25 mm - 800 kg	Ref. TENSO25 B=120 mm / C=35 mm A=25 mm LC 400 dAN
	Tensor de 25 mm - 1.500 kg Tendeur à cliquet 25 mm - 1 500 kg 25 mm Ratchet short wide handle - 1.500 kg Ratsche 25 mm - 1.500 kg	Ref. TENSO25GR B=130 mm / C=40 mm A=25 mm LC 750 dAN
	Tensor inoxidable de 25 mm Tendeur inoxydable de 25 mm 25 mm Stainless steel ratchet Ratsche 25 mm, rostfrei	Ref. TENSO25I B=112 mm / C=50 mm A=25 mm LC 375 dAN
	Tensor de 35 mm - 3.000 kg Tendeur à cliquet de 35 mm - 3 000 kg 35 mm Ratchet short narrow handle Ratsche 35 mm - 3.000 kg	Ref. TENSO35 B=150 mm / C=55 mm A=35 mm LC 1.500 dAN
	Tensor de 35 mm - 2.000 kg Tendeur à cliquet de 35 mm - 2 000 kg 35 mm Ratchet short wide handle Kleine Ratsche 35 mm - 2.000 kg	Ref. TENSO35PQ B=132 mm / C=60 mm A=35 mm LC 1.000 dAN
	Tensor ergonómico de 35 mm - 2.000 Kg Tendeur ergonomique de 35 mm - 2.000 Kg 35 mm Ergonomic ratchet - 2.000 Kg Ergonomische Ratsche 35 mm - 2.000 Kg	Ref. TENSO35PQER B=135 mm / C=80 mm A=35 mm LC 1.000 dAN
	Tensor inoxidable de 35 mm Tendeur à cliquet inoxydable de 35 mm 35 mm / Stainless steel ratchet Ratsche 35 mm, rostfrei	Ref. TENSO35I B=132 mm / C=68 mm A=35 mm LC 1.000 dAN
	Tensor de 50 mm - 5.000 kg Tendeur à cliquet de 50 mm - 5 000 kg 50 mm Ratchet long wide handle - 5.000 kg Ratsche 50 mm - 5.000 kg	Ref. TENSO50 B=235 mm / C=96 mm A=50 mm LC 2.500 dAN
	Tensor de 50 mm - 2.000 kg Tendeur à cliquet de 50 mm - 2 000 kg 50 mm Ratchet short wide handle - 2.000 kg Ratsche 50 mm - 2.000 kg	Ref. TENSO50PQ B=132 mm / C=76 mm A=50 mm LC 1.000 dAN
	Tensor ergonómico de 50 mm Tendeur ergonomique de 50 mm 50 mm Ergonomic ratchet Ergonomische Ratsche 50 mm	Ref. TENSO50ER B=235 mm / C=100 mm A=50 mm LC 2.500 dAN



	Tensor ergonómico mango corto de 50 mm Tendeur ergonomique & poignée courte 50 mm 50 mm Ergonomic Ratchet short narrow handle Ergonomische Kurzhebelratsche 50 mm	Ref. TENS050ERC B=230 mm / C=118 mm A=50 mm LC 2.500 dAN
	Tensor mango corto de 50 mm Tendeur avec poignée courte de 50 mm 50 mm Ratchet short narrow handle Kurzhebelratsche 50 mm	Ref. TENS050MC B=165 mm / C=71 mm A=50 mm LC 2.500 dAN
	Tensor mango corto ancho de 50 mm Tendeur avec poignée large et courte de 50 mm 50 mm Ratchet short wide handle - 5.000 kg Ratsche 50 mm mit kurzem- und breitem Hebel	Ref. TENS050MCA B=200 mm / C=100 mm A=50 mm LC 2.500 dAN
	Tensor reversible mango largo 50 mm Tendeur à cliquet inversé avec poignée longue 50 mm Ratchet extra long handle Umkehrbare Langhebelratsche 50 mm	Ref. TENS050REL B=330 mm / C=100 mm A=50 mm LC 2.500 dAN
	Tensor inoxidable de 50 mm Tendeur inoxydable de 50 mm 50 mm Stainless steel ratchet Ratsche 50 mm, rostfrei	Ref. TENS050I B=230 mm / C=100 mm A=50 mm LC 1.500 dAN
	Tensor de 50 mm - 6.000 kg Tendeur à cliquet de 50 mm - 6 000 kg 50 mm Ratchet short wide handle - 6.000 kg Ratsche 50 mm - 6.000 kg	Ref. TENS050BL B=220 mm / C=105 mm A=50 mm LC 3.000 dAN
	Tensor de palanca de 50 mm Tendeur à levier de 50 mm 50 mm Buckle Ratchet Ratsche 50 mm	Ref. TENS050P B=230 mm / C=99 mm A=50 mm LC 1.000 dAN
	Mango para tensor de carraca de 50 mm Poignée amovible pour tendeur à cliquet 50 mm Ratchet driver Handhebel für Ratsche	Ref. MANGO
	Tensor sin mango de 50 mm Tendeur 50 mm à poignée amovible 50 mm Ratchet without handle Ratsche 50 mm, ohne Hebel	Ref. TENS050SM B=145 mm / C=92 mm A=50 mm LC 2.500 dAN
	Tensor de 75 mm Tendeur à cliquet de 75 mm 75 mm Ratchet long narrow handle Ratsche 75 mm	Ref. TENS075 B=325 mm / C=110 mm A=75 mm LC 5.000 dAN

GANCHOS CROCHETS



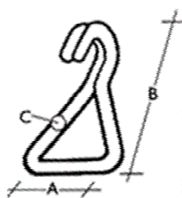
HOOKS HAKEN

	Gancho cerrado de 25 mm - 800 kg Crochet à doigts rapprochés 25 mm - 800 kg 25 mm Double J hook - 800 kg Spitzhaken doppelt 25 mm - 800 kg	Ref. GAN25CE B=47 mm / C=6,5 mm A=25 mm LC 400 dAN
	Gancho cerrado de 25 mm - 1.500 kg Crochet à doigts rapprochés 25 mm - 1 500 kg 25 mm Double J hook - 1.500 kg Premium Spitzhaken doppelt 25 mm - 1 500 kg	Ref. GAN25CEGR B=80 mm / C=8 mm A=25 mm LC 750 dAN
	Gancho cerrado inoxidable de 25 mm Crochet inoxydable 25 mm 25 mm Stainless steel Double J hook Spitzhaken doppelt 25 mm, rostfrei	Ref. GAN25CEI B=47 mm / C=6 mm A=25 mm LC 400 dAN
	Gancho cerrado de 35 mm Crochet à doigts rapprochés 35 mm 35 mm Double J hook Spitzhaken doppelt 35mm	Ref. GAN35CE B=89 mm / C=9,5 mm A=35 mm LC 1.500 dAN
	Gancho cerrado inoxidable de 35 mm Crochet inoxydable à doigts rapprochés 35 mm 35 mm Stainless steel Double J hook Spitzhaken doppelt 35mm, rostfrei	Ref. GAN35CEI B=86 mm / C=9,5 mm A=35 mm LC 1.000 dAN
	Gancho cerrado de 50 mm - 900 kg Crochet doigts rapprochés 50 mm - 900 kg 50 mm Double J hook - 900 kg Spitzhaken 50 mm - Bruchlast 900 Kg	Ref. GAN50CA B=86 mm / C=7 mm A=50 mm LC 450 dAN
	Gancho cerrado de 50 mm - 5.000 kg Crochet doigts rapprochés 50 mm - 5 000 kg 50 mm Double J hook - 5.000 kg Spitzhaken 50 mm, doppelt, Bruchlast - 5 000 Kg	Ref. GAN50CE B=96 mm / C=12 mm A=50 mm LC 2.500 dAN
	Gancho cerrado prensado de 50 mm - 5.000 kg Crochet doigts rapprochés pressage 50 mm - 5 000 kg 50 mm Pressing Double J hook - 5.000 kg Spitzhaken 50 mm, doppelt, Bruchlast, Drücken	Ref. SGAN50CE B=78 mm / C=10 mm A=50 mm LC 2.500 dAN
	Gancho cerrado de 50 mm con pestillo - 5.000 kg Crochet doigts rapprochés 50 mm avec linguet - 5 000 kg 50 mm Double J hook with lash - 5.000 kg Spitzhaken 50 mm, doppelt mit Sicherungsfalle	Ref. GAN50CES B=95 mm / C=12 mm A=50 mm LC 2.500 dAN
	Gancho cerrado largo 50 mm con pestillo - 5.000 kg Crochet doigts rapprochés longue 50 mm avec linguet 50 mm long Double J hook with lash - 5.000 kg Lang spitzhaken 50 mm, doppelt mit Sicherungsfalle	Ref. GAN50CESL B=116 mm / C=12 mm A=50 mm LC 2.500 dAN



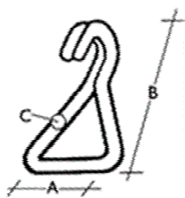
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	Gancho cerrado autobloqueante de 50 mm 5.000 kg Crochet doigts rapprochés 50 mm autoblocage 5.000 kg 50 mm Double J hook Self-locking 5.000 kg Spitzhaken 50 mm, doppelt, Bruchlast, Selbsthemmung	Ref. GAN50AUT B=132 mm / C=12 mm A=50 mm LC 2.500 dAN
	Gancho cerrado inoxidable de 50 mm Crochet inoxydable à doigts rapprochés 50 mm 50 mm Stainless steel Double J hook Spitzhaken 50 mm, rostfrei	Ref. GAN50CEI B=84 mm / C=12 mm A=50 mm LC 1.500 dAN
	Gancho cerrado de 75 mm Crochet à doigts rapprochés 75 mm 75 mm Double J hook Spitzhaken 75 mm	Ref. GAN75CE B=130 mm / C=16 mm A=75 mm LC 5.000 dAN
	Gancho abierto de 35 mm Crochet bord de rive 35 mm Claw hook - 35 mm Klauenhaken 35 mm	Ref. GAN35AB B=56 mm / C=10 mm A=35 mm LC 1.500 dAN
	Gancho abierto de 50 mm Crochet bord de rive 50 mm Claw hook - 50 mm Klauenhaken 50 mm	Ref. GAN50AB B=60 mm / C=12 mm A=50 mm LC 2.500 dAN
	Gancho abierto de 75 mm Crochet bord de rive 75 mm Claw hook - 75 mm / 3" Klauenhaken 75 mm	Ref. GAN75AB B=94 mm / C=17 mm A=75 mm LC 5.000 dAN
	Gancho de un pivote de 35 mm Crochet 35 mm simple 35 mm / 1-1/2" Havy duty claw hook Spitzhaken einfach 35 mm	Ref. GAN351P B=90 mm / C=12 mm A=35 mm LC 1.500 dAN
	Gancho de un pivote de 50 mm - 5.000 kg Crochet simple de 50 mm - 5.000 kg 50 mm / 2" Havy duty claw hook - 5.000 kg Spitzhaken 50 mm, einfach - 5.000 kg	Ref. GAN501P B=130 mm / C=15 mm A=50 mm LC 2.500 dAN
	Gancho giratorio de 35 mm Crochet giratoire 35 mm 1-1/2" - 35 mm Swivel J hook Sptzhaken 35 mm, drehbar	Ref. GANGI35 B=101 mm / C=13,5 mm A=35 mm LC 1.500 dAN
	Gancho giratorio para tensor de 35 mm Crochet giratoire 35 mm pour tendeur 35 mm - Swivel J hook for ratchet Drehbarer Spitzhaken für Ratsche 35 mm	Ref. GANGIMED B=92 mm / C=16 mm A=35 mm LC 1.500 dAN

GANCHOS **CROCHETS**



HOOKS **HAKEN**

	Gancho giratorio 50 mm Crochet giratoire 50 mm 2"- 50 mm Swivel J hook Spitzhaken 50 mm, drehbar	Ref. GANGIGRA B=100 mm / C=16 mm A=50 mm LC 2.500 dAN
	Gancho mosquetón girado de 50 mm Crochet mousqueton tourné 50mm - 2" Twisted snap hook Karabinerhaken 50 mm, gedreht	Ref. GANMOSQGR B=152 mm / C=6 mm A=50 mm LC 2.500 dAN
	Gancho mosquetón plano - 5.000 kg Crochet mousqueton plat - 5 000 kg 50 mm - 2" Flat snap hook - 5.000 kg Karabinerhaken 50 mm, flach - 5.000 kg	Ref. GANMOSQPLG B=160 mm / C=6 mm A=50 mm LC 2.500 dAN
	Gancho mosquetón plano de 50 mm - 2.700 kg Crochet mousqueton plat - 2 700 kg 50 mm - 2" Flat snap hook - 2.700 kg Karabinerhaken 50 mm, flach - 2.700 kg	Ref. GANMOSQPLP B=109 mm / C=4,5 mm A=50 mm LC 1.350 dAN
	Anilla D de 50 mm Anneau D 50 mm D Ring 50 mm / 2" D-Ring 50 mm	Ref. ANI50D B=54 mm / C=7 mm A=50 mm LC 750 dAN
	Anilla triángulo Boucle triangle Havy duty triangle ring Triangel	Ref. TRIANG50 B=73 mm / C=14 mm A=50 mm LC 2.500 dAN
	Gancho avión Crochet rail avion Ring track hook Spanngurt 50mm zur Innenverzurrung mit Ratsch und Schienenanker	Ref. GANFRIGO B=101 mm / C=8 mm A= mm LC 1.350 dAN
	Gancho basculante de 35 mm Crochet à bascule 35 mm 35 mm claw hook with tube Spitzhaken 35 mm, einfach mit Anschluss	Ref. GAN35BA B=109 mm / C=12 mm A=35 mm LC 1.500 dAN
	Gancho cuna para toldos Crochet fil pour bas de rideau Closed rave hook Klauenhaken 50 mm, geschlossen	Ref. GONDOLA B=48 mm / C=9,5 mm A=50 mm LC 750 dAN



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	Gancho de 25 mm recubierto de PVC con pestillo Crochet esse 25 mm recouvert PVC avec linguet 25 mm / 1" PVC coated S hook with lash S-Haken 25 mm, geschlossen und PVC beschichtet mit Sicherungsfalle	Ref. GAN25MS B=108 mm / C=8 mm A=25 mm LC 340 dAN
	Gancho oxígeno de 50 mm Crochet d'arrimage 50 mm 50 mm oxygen hook Flachhaken 50 mm	Ref. GAN50OX B=95 mm / C=4,5 mm A=50 mm LC 2.500 dAN
	Gancho forjado con anilla triángulo 50 mm - 5.000 Kg Crochet forgé avec boucle triangle 50 mm - 5.000 Kg Forged hook with triangle ring 50 mm - 5.000 Kg Geshmiededt Haken mit Triangel 50 mm - 5.000 Kg	Ref. TRIANG50GAN B=171 mm / C=13 mm A=50 mm LC 2.500 dAN
	Gancho para raíles universales Crochet pour rails universels Fitting for universal E tracks Schienenanker für Langloch 50 mm, einteilig	Ref. GAN50LA B= mm / C= mm A=50 mm LC 1.150 dAN
	Enganche rail universal con anilla Lien du rail universel avec anneau Rail link with O ring Ankerschienen zur Ladungssicherung link mit O ring	Ref. ANIRAIL B=61 mm / C=5 mm A=34 mm LC 900 dAN

ESLINGAS FIJACION CON TENSOR
SANGLES ARRIMAGE AVEC TENDEUR



LASHING STRAPS WITH RATCHET
SPANNURTE MIT RATSCH



CUALQUIER COMBINACION TENSOR + GANCHO
TOUTE COMBINATION TENDEUR + CROCHET

ANY COMBINATION RATCHET + HOOK
JEDE COMBI RATSCH + HAKEN

CUALQUIER MEDIDA / VARIOS COLORES
TOUTE MESURE / COULEURS VARIÉES

ANY LENGTH / VARIOUS COLORS
JEDE LOGITUD / VERSCHIEDENE FARBEN

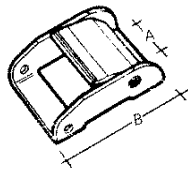
AC: Ancho Cinta / Sangle Longueur / Belt width / Belt Breite

LE: Longitud Estandar / Longueur standard / Standard Length / Länge Standard

REF	AC	LE	
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	Hebilla de 25 mm - 250 kg Boucle à came de 25 mm - 250 kg 25 mm cam buckle - 250 kg Schnalle 25 mm - 250 kg	Ref. HEBI25 B=45 mm A=25 mm LC 125 dAN
	Hebilla de 25 mm - 750 kg Boucle à came de 25 mm - 750 kg 25 mm cam buckle - 750 kg Schnalle 25 mm - 750 kg	Ref. HEBI25M B=64 mm A=25 mm LC 375 dAN
	Hebilla de 25 mm inoxidable Boucle à came inoxydable de 25 mm 25 mm stainless steel cam buckle Schnalle 25 mm, rostfrei	Ref. HEBI25I B=49 mm A=25 mm LC 250 dAN
	Hebilla militar de 25 mm - 400 kg Boucle à came militaire de 25 mm - 400 kg 25 mm military cam buckle - 400 kg Militär schnalle 25 mm - 400 kg	Ref. HEBI25CAQ B=65 mm A=25 mm LC 200 dAN
	Hebilla de 35 mm Boucle à came de 35 mm 35 mm cam buckle Schnalle 35 mm	Ref. HEBI35 B=60 mm A=35 mm LC 300 dAN
	Hebilla de 50 mm Boucle à came de 50 mm 50 mm cam buckle Schnalle 50 mm	Ref. HEBI50 B=76 mm A=50 mm LC 450 dAN

CINTA CON HEBILLA RAPIDA

SANGLES D'ARRIMAGE RAPIDE



LASHING BELT WITH
FAST BUCKLE

SPANNURTE MIT RATSCH



CUALQUIER MEDIDA / VARIOS COLORES

TOUTE MESURE / COULEURS VARIÉES

ANY LENGTH / VARIOUS COLORS

JEDE LOGITUD / VERSCHIEDENE FARBEN

AC: Ancho Cinta / Sangle Longueur / Belt wldth / Belt Breite

LE: Longitud Estantar / Longueur standard / Standard Length / Länge Standard

REF	AC	LE		
HT25010	25 mm	1.0 mt	HEBI25	125 / 250 daN
HT25M030	25 mm	3.0 mt	HEBI25M	375 / 750 daN
HT25CAQ030	25 mm	3.0 mt	HEBI25CAQ	200 / 400 daN
HT200I	25 mm	3.0 mt	HEBI25I	125 / 250 daN
HT35010	35 mm	1.0 mt	HEBI35	300 / 600 daN
HT1000	50 mm	5.0 mt	HEBI50	450 / 900 daN



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