



Unitex Production

Equipment RO S.R.L

A MEMBER OF UNITEX GROUP




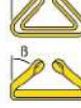
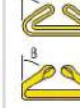
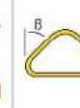
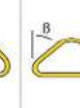
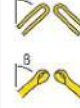
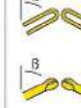
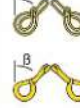



CATALOG

WLL Table

WORKING LOAD LIMIT (WLL) POLYESTER

Wll capacity table for webbing and roundsling

Colour-co-deaccording to EN 1492-1/2	Working Load Limits with 1 webbing sling or roundsling							Working Load Limits with 2 webbing slings or roundslings			
	straight lift	choked lift	*B		*B		*B	*B		*B	
			0° - 7°	7° - 45°	45° - 60°	7° - 45°		45° - 60°	7° - 45°	45° - 60°	
											
Factor	1	0,8	2	1,4	1	0,7	0,5	1,4	1	1,12	0,8
WLL in t											
WLL 1 t	1,00	0,80	2,00	1,40	1,00	0,70	0,50	1,40	1,00	1,12	0,80
WLL 2 t	2,00	1,60	4,00	2,80	2,00	1,40	1,00	2,80	2,00	2,24	1,60
WLL 3 t	3,00	2,40	6,00	4,20	3,00	2,10	1,50	4,20	3,00	3,36	2,40
WLL 4 t	4,00	3,20	8,00	5,60	4,00	2,80	2,00	5,60	4,00	4,48	3,20
WLL 5 t	5,00	4,00	10,00	7,00	5,00	3,50	2,50	7,00	5,00	5,60	4,00
WLL 6 t	6,00	4,80	12,00	8,40	6,00	4,20	3,00	8,40	6,00	6,72	4,80
WLL 8 t	8,00	6,40	16,00	11,20	8,00	5,60	4,00	11,20	8,00	8,96	6,40
WLL 10 t	10,00	8,00	20,00	14,00	10,00	7,00	5,00	14,00	10,00	11,20	8,00
WLL 12 t	12,00	9,60	24,00	16,80	12,00	8,40	6,00	16,80	12,00	13,44	9,60
WLL 15 t	15,00	12,00	30,00	21,00	15,00	10,50	7,50	21,00	15,00	16,80	12,00
WLL 20 t	20,00	16,00	40,00	28,00	20,00	14,00	10,00	28,00	20,00	22,40	16,00
WLL 25 t	25,00	20,00	50,00	35,00	25,00	17,50	12,50	35,00	25,00	28,00	20,00
WLL 30 t	30,00	24,00	60,00	42,00	30,00	21,00	15,00	42,00	30,00	33,60	24,00
WLL 40 t	40,00	32,00	80,00	56,00	40,00	28,00	20,00	56,00	40,00	44,80	32,00
WLL 50 t	50,00	40,00	100,00	70,00	50,00	35,00	25,00	70,00	50,00	56,00	40,00
WLL 60 t	60,00	48,00	120,00	84,00	60,00	42,00	30,00	84,00	60,00	67,20	48,00
WLL 70 t	70,00	56,00	140,00	98,00	70,00	49,00	35,00	98,00	70,00	78,40	56,00
WLL 80 t	80,00	64,00	160,00	112,00	80,00	56,00	40,00	112,00	80,00	89,60	64,00
WLL 90 t	90,00	72,00	180,00	126,00	90,00	63,00	45,00	126,00	90,00	100,80	72,00
WLL 100 t	100,00	80,00	200,00	140,00	100,00	70,00	50,00	140,00	100,00	112,00	80,00
WLL 110 t	110,00	88,00	220,00	154,00	110,00	77,00	55,00	154,00	110,00	123,20	88,00
WLL 115 t	115,00	92,00	230,00	161,00	115,00	80,50	57,50	161,00	115,00	128,80	92,00

WLL Table

WORKING LOAD LIMIT (WLL) ULTRALIFT

Wll capacity table for *ULTRALIFT* roundslings

	Working Load Limits with 1 webbing sling or roundsling							Working Load Limits with 2 webbing slings or roundslings			
	straight lift	choked lift	*B		*B		*B	*B		*B	
			0° - 7°	7° - 45°	45° - 60°	7° - 45°		45° - 60°	7° - 45°	45° - 60°	
Factor	1	0,8	2	1,4	1	0,7	0,5	1,4	1	1,12	0,8
WLL in t											
WLL 10 t	10,00	8,00	20,00	14,00	10,00	7,00	5,00	14,00	10,00	11,20	8,00
WLL 12 t	12,00	9,60	24,00	16,80	12,00	8,40	6,00	16,80	12,00	13,44	9,60
WLL 15 t	15,00	12,00	30,00	21,00	15,00	10,50	7,50	21,00	15,00	16,80	12,00
WLL 20 t	20,00	16,00	40,00	28,00	20,00	14,00	10,00	28,00	20,00	22,40	16,00
WLL 25 t	25,00	20,00	50,00	35,00	25,00	17,50	12,50	35,00	25,00	28,00	20,00
WLL 30 t	30,00	24,00	60,00	42,00	30,00	21,00	15,00	42,00	30,00	33,60	24,00
WLL 40 t	40,00	32,00	80,00	56,00	40,00	28,00	20,00	56,00	40,00	44,80	32,00
WLL 50 t	50,00	40,00	100,00	70,00	50,00	35,00	25,00	70,00	50,00	56,00	40,00
WLL 60 t	60,00	48,00	120,00	84,00	60,00	42,00	30,00	84,00	60,00	67,20	48,00
WLL 70 t	70,00	56,00	140,00	98,00	70,00	49,00	35,00	98,00	70,00	78,40	56,00
WLL 80 t	80,00	64,00	160,00	112,00	80,00	56,00	40,00	112,00	80,00	89,60	64,00
WLL 90 t	90,00	72,00	180,00	126,00	90,00	63,00	45,00	126,00	90,00	100,80	72,00
WLL 100 t	100,00	80,00	200,00	140,00	100,00	70,00	50,00	140,00	100,00	112,00	80,00
WLL100 t	100,00	80,00	200,00	140,00	100,00	70,00	50,00	140,00	100,00	112,00	80,00
WLL120 t	120,00	96,00	240,00	168,00	120,00	84,00	60,00	168,00	120,00	134,40	96,00
WLL140 t	140,00	112,00	280,00	196,00	140,00	98,00	70,00	196,00	140,00	156,80	112,00
WLL160 t	160,00	128,00	320,00	224,00	160,00	112,00	80,00	224,00	160,00	179,20	128,00
WLL180 t	180,00	144,00	360,00	252,00	180,00	126,00	90,00	252,00	180,00	201,60	144,00
WLL200 t	200,00	160,00	400,00	280,00	200,00	140,00	100,00	280,00	200,00	224,00	160,00

Introduction

UNITEX

The Unitex group of companies are manufacturers of textile web- and round slings and lashings with a history of 100 years in the textile industry.

The 100 years of experience and know how is our major asset for innovation, engineering and development of new products. Therefore we are able to manage innovative projects in close co-operation with both costumers, suppliers and third parties. With a resource of qualified personnel we are able to build project teams around any market demand. Furthermore we are one of the few manufacturers to produce slings right through from the basic yarn to the finished products. Because of this, the technical ability and development expertise Unitex constantly is in search for and implementing improvements.

With testing facilities and quality procedures we assure that all processes and products are controlled to comply with applicable standards and specifications. Our specialized equipment subject samples to every conceivable test. Extension, surface abrasion, chemical exposure. Tenacity, temperature and load performance profiles are just some of the test undertaken. The standard and properties claimed for every product are established and approved by our highly qualified laboratory staff.



Web Slings / Round Slings Information

4) Way of use and handling

The European Norm has given each capacity in the EN 1492/1-2 a specific colour. This to identify the capacity of webslings and roundslings easily and clearly

- WLL 1,0 t
- WLL 2,0 t
- WLL 3,0 t
- WLL 4,0 t
- WLL 5,0 t
- WLL 6,0 t
- WLL 8,0 t
- WLL 10,0 t and >10 t



To make sure the stitching of the eye of a websling wont break open, the angle of opened eye of the websling shouldn't be more than 20 degrees when it is put into a cranehook

The following rule has to be followed:

You are on the safe side as the eye of the websling at least 3,5 x as long is as the thickness of the cranehook

$$L2 \geq b \times 3,5$$

Be careful: sharp edges will not only damage lifting equipment, but can also lead to accidents

For this reason:

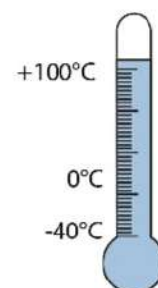
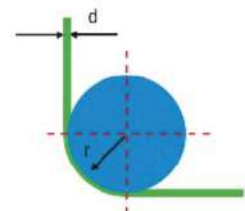
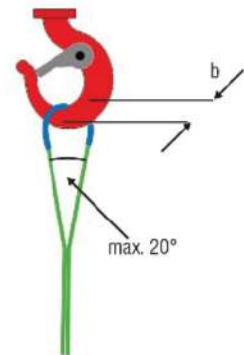
The corner radius ,r' must always to be bigger than the strength ,d' of the lifting equipment
If loads with sharp edges have to be lifted corner protection definitely has to be used. For example Purtectra or Ultra Protect corner protection solutions from Unitex.

Warning:

Due to slipping of the load, both corner protection systems, Purtectra and Ultra Protect, can be damaged

Lifting equipment made of polyester fibres with their marked capacity can be used in temperatures between -40 degrees and +100 degrees C.

If they are being used in connection with chemicals it is absolutely necessary to contact the manufacturer beforehand for permission.



Web Slings / Round Slings Information

1) EN-Standards and Machinery Directives

For all European manufacturers are the technical demands and the references how to produce textile lifting equipment like roundslings and webslings summarized in the EN 1492-1 (Webslings) and the EN 1492-2 (Roundslings). Additionally the textile lifting equipment is encoded with the CE mark according to the Machinery Directive 2006/42/EG



2) Testing and Maintenance

To guarantee a safe way of using the textile lifting equipment they must be tested at least one time per year or according to the latest publications of the standard or local guidelines. The operator of the equipment has to arrange independently of predetermining operation conditions several test intervals. These tests may only be done by competent persons. Possible damaged Roundslings/Webslings may only be repaired by the manufacturer or by people who have become the power of attorney to repair from the manufacturer.

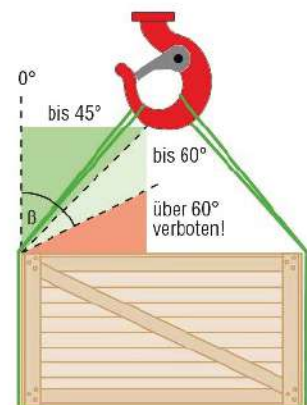
3) Lifting of loads (WLL Capacity table and lifting angle)

If a load with a certain weight has to be lifted, the person who has to coordinate this job has to make sure the correct lifting materials are chosen. Also the number of slings, the capacity and the length has to be defined. It is also to plan the lifting procedure and to make sure that the angle of inclination is not more than 60 degrees (an angle of more than 60 degrees is forbidden!)

The bigger the angle of inclination, the smaller the practical capacity of the lifting equipment. As a simple rule you can say:

By an angle of inclination up to 45 degrees the chosen lifting equipment can be calculated with only 70% of the original capacity. For example:
 $70\% \text{ of } 2T = 0,7 \times 2T = 1,4T$

By an angle of inclination up to 60 degrees the chosen lifting equipment can be calculated with only 50% of the original capacity. For example:
 $50\% \text{ of } 2T = 0,5 \times 2T = 1,0T$



Web Slings / Round Slings Information

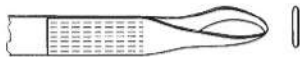
MC WEB SLINGS 2-LAYER



	Type	WLL	Webbing width in mm	Thick-ness in mm	Eye length 1 m effective length in mm (L ₂)	Eye length 2 m effective length in mm (L ₂)	Eye length 3 m effective length in mm (L ₂)	Standard eye type	Weight 1 meter in kg (L ₁)	Weight 2 meter in kg (L ₁)	Weight 3 meter in kg (L ₁)	Weight each meter extra
	MC30	WLL 1 t	30	7	250	400		type 1	0,25	0,45	0,65	0,20
	MC60	WLL 2 t	60	6	250	400		type 3	0,44	0,79	1,14	0,35
	MC90	WLL 3 t	90	7,5	250	400		type 3	0,71	1,25	1,80	0,55
	MC120	WLL 4 t	120	8		450		type 4		1,67	2,40	0,73
	MC150	WLL 5 t	150	7		550		type 4		2,12	3,06	0,94
	MC180	WLL 6 t	180	7		600		type 4		2,95	4,14	1,20
	MC240	WLL 8 t	240	8			750	type 4			5,25	1,50
	MC300	WLL 10 t	300	7			1000	type 4			6,85	1,97
MC300	WLL 12 t	300	8			1000	type 4			8,35	2,36	



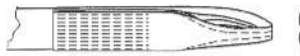
flat eye
Type 1



Reversed eye
Type 2



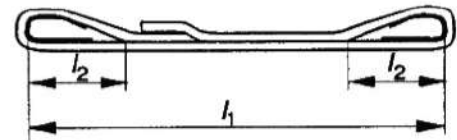
Folded eye 1/2 width from one side
Type 3



Folded eye 1/2 width from two sides
Type 4




Folded eye 1/3 width
Type 5

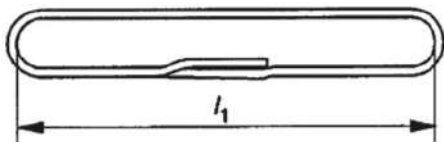


MCEE / MCED endless web slings


MCEE ENDLESS WEB SLINGS SINGLE LAYER



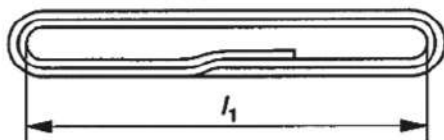
Type	WLL	Webbing width in mm	Thickness in mm	Weight 0,5 meter in kg (L _e)	Weight 1 meter in kg (L _e)	Weight 0,5 meter extra in KG
MCEE30	WLL 1 t	30	3,5	0,12	0,21	0,09
MCEE60	WLL 2 t	60	3	0,21	0,38	0,17
MCEE90	WLL 3 t	90	4	0,34	0,60	0,26
MCEE120	WLL 4 t	120	4		0,82	0,35
MCEE150	WLL 5 t	150	3,5		1,06	0,45
MCEE180	WLL 6 t	180	3,5		1,45	0,58
MCEE240	WLL 8 t	240	4		1,84	0,72
MCEE300	WLL 10 t	300	3,5		2,47	0,95
MCEE300	WLL 12 t	300	4		3,14	1,14



MCED ENDLESS WEB SLINGS 2-LAYERS

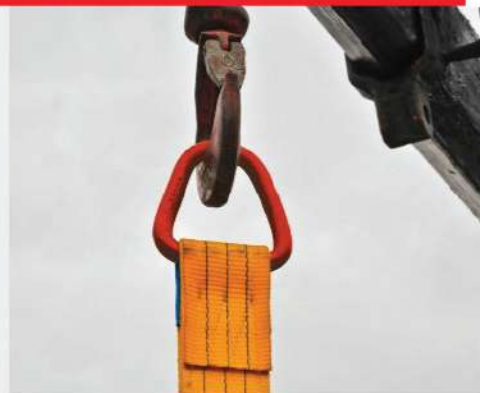


Type	WLL	Webbing width in mm	Thickness in mm	Weight 0,5 meter in kg (L _e)	Weight 1 meter in kg (L _e)	Weight 0,5 meter extra in KG
MCED30	WLL 2 t	30	7	0,22	0,41	0,19
MCED60	WLL 4 t	60	6	0,39	0,73	0,34
MCED90	WLL 6 t	90	7,5	0,62	1,16	0,54
MCED120	WLL 8 t	120	8		1,57	0,72
MCED150	WLL 10 t	150	7		2,02	0,93
MCED180	WLL 12 t	180	7		2,69	1,19
MCED240	WLL 16 t	240	8		3,37	1,48
MCED300	WLL 20 t	300	7		4,5	1,96
MCED300	WLL 24 t	300	8		5,58	2,35



MCDD / MCDDS web slings with triangles





MCDD 2 LAYER WEB SLINGS WITH TRIANGLES



Type	WLL	Webbing width in mm	Thick-ness in mm	Weight 1 meter in kg (L ₁)	Weight 2 meter in kg (L ₂)	Weight 3 meter in kg (L ₃)	Weight 1 meter extra in KG
 MCDD30	WLL 1 t	30	7	0,62	0,82	1,02	0,20
 MCDD60	WLL 2 t	60	6	1,39	1,74	2,09	0,35
 MCDD90	WLL 3 t	90	7,5	2,78	3,33	3,88	0,55
 MCDD120	WLL 4 t	120	8		4,68	5,41	0,73
 MCDD150	WLL 5 t	150	7		6,19	7,13	0,94
 MCDD180	WLL 6 t	180	7		8,51	9,71	1,20
 MCDD240	WLL 8 t	240	8			16,24	1,50
 MCDD300	WLL 10 t	300	7			21,68	1,97
 MCDD300	WLL 12 t	300	8			22,97	2,36

MCDDS 2 LAYER WEB SLINGS WITH TRIANGLES



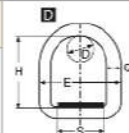
Type	WLL	Webbing width in mm	Thick-ness in mm	Weight 1 meter in kg (L ₁)	Weight 2 meter in kg (L ₂)	Weight 3 meter in kg (L ₃)	Weight 1 meter extra in KG
 MCDDS30	WLL 1 t	30	7	0,82	1,02	1,22	0,20
 MCDDS60	WLL 2 t	60	6	1,86	2,21	2,56	0,35
 MCDDS90	WLL 3 t	90	7,5	3,63	4,21	4,76	0,55
 MCDDS120	WLL 4 t	120	8		6,11	6,84	0,73
 MCDDS150	WLL 5 t	150	7		8,90	9,84	0,94
 MCDDS180	WLL 6 t	180	7		10,79	11,99	1,20
 MCDDS240	WLL 8 t	240	8			20,45	1,50
 MCDDS300	WLL 10 t	300	7			27,31	1,97

MCDD / MCDDS triangle specifications

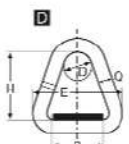
TECHNICAL INFORMATIONS FOR MCDD MALE TRIANGLES



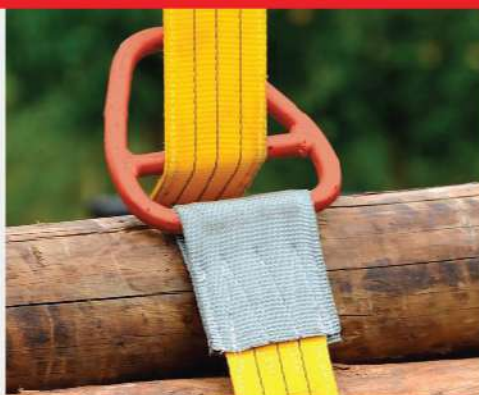
Type	WLL	Width in mm	Q in mm	D in mm	H in mm	E in mm	Weight per piece in kg
DTR/010	WLL 1 t	30	12	45	60	70	0,2



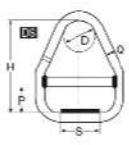
Type	WLL	Width in mm	Q in mm	D in mm	H in mm	E in mm	Weight per Piece in kg
DTR/020	WLL 2 t	60	16	30	80	100	0,5
DTR/030	WLL 3 t	90-100	20	60	120	146	1,1
DTR/040	WLL 4 t	120	23	60	130	179	1,6
DTR/050	WLL 5 t	150	26	90	180	222	2,2
DTR/060	WLL 6 t	180	28	90	180	262	3
DTR/080	WLL 8 t	240	32	100	200	344	5,8
DTR/100	WLL 10 t	300	35	100	250	400	7,9



TECHNICAL INFORMATIONS FOR MCDDS FEMALE TRIANGLES



Type	WLL	Width in mm	Q in mm	D in mm	H in mm	P in mm	Weight per Piece in kg
DSTR/010	WLL 1 t	30	12	50	100	25	0,4
DSTR/020	WLL 2 t	60	16	40	146	40	1
DSTR/030	WLL 3 t	90-100	20	70	205	55	2
DSTR/040	WLL 4 t	120	23	80	218	55	3,1
DSTR/050	WLL 5 t	150	26	90	300	80	5
DSTR/060	WLL 6 t	180	28	90	284	80	5,4
DSTR/080	WLL 8 t	240	32	120	332	90	10,2
DSTR/100	WLL 10 t	300	35	120	385	100	13,8



TE / DT Round Slings

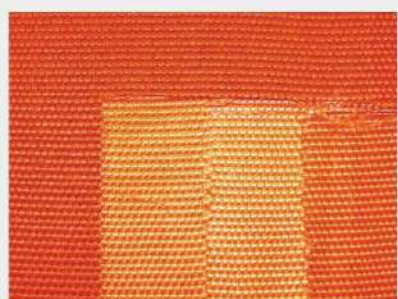
TE ROUND SLINGS WITH SINGLE SLEEVE



Type	WLL	Sleeve width in mm	Round sling diameter	Weight of round sling 0,5 m effective length in kg	Weight per 0,5 m extra in kg
TE 010	WLL 1 t	47	12	0,118	0,103
TE 020	WLL 2 t	48	18	0,185	0,170
TE 030	WLL 3 t	54	20	0,264	0,248
TE 040	WLL 4 t	70	22	0,356	0,334
TE 050	WLL 5 t	72	28	0,431	0,407
TE 060	WLL 6 t	74	30	0,528	0,504
TE 080	WLL 8 t	90	32	0,701	0,670
TE 100	WLL 10 t	91	35	0,843	0,814



DT ROUND SLINGS WITH DOUBLE SLEEVE



cross section of a DT roundsling sleeve



Type	WLL	Sleeve width in mm	Round sling diameter	Weight of round sling 0,5 m effective length in kg	Weight per 0,5 m extra in kg
DT 010	WLL 1 t	42	12	0,143	0,121
DT 020	WLL 2 t	47	18	0,213	0,190
DT 030	WLL 3 t	58	20	0,314	0,284
DT 040	WLL 4 t	66	22	0,392	0,360
DT 050	WLL 5 t	72	28	0,478	0,441
DT 060	WLL 6 t	77	30	0,586	0,546
DT 080	WLL 8 t	82	32	0,737	0,696
DT100	WLL 10 t	94	35	0,907	0,860



TLX Premium Round Slings

TLX round slings +++++


the high tech round sling made from polyester

according DIN EN 1492-2

TLX is a high tech -PES- round sling from the Unitex Group. Due to the special rip and weave structure, the Techlon sleeve is significantly more resistant to abrasion than a standard polyester sleeve. The TLX is fitted with an extremely strong reinforced label.

1. + Due to the special rip and weave structure, the Techlon sleeve is significantly more resistant to abrasion than a standard polyester sleeve.
2. + Highly compact and stable sleeve. Optimal use and reduced wear.
3. + WLL printed on the sleeve continuously and additional sewn in WLL stripes for easy identification.
4. + Extremely strong reinforced label.
5. + According to the Machinery Directive 2006/42/EG.
6. + Color coding according to EN 1492-2.
7. + Stripe coded, each stripe equals 1 ton of vertical lifting capacity (up to 10 ton).
8. + WLL printed on the sleeve continuously (up to 10 ton)
9. + Special warp. The new type of warp gives also an extra resistance against abrasion
10. + TLX round slings offers a substantial longer service life compared to standard round slings.
11. + The more compact sleeve results in a better fit around the crane hook.

TLX round slings are being produced up to **150 ton WLL** (Lloyds approval up to WLL 115 T.)

	Type	WLL	Sleeve width in mm	Round sling diameter	Weight of round sling 0,5 m effective length in kg	Weight per 0,5 m extra in kg
	TLX 010	WLL 1 t	41	12	0,149	0,125
	TLX 020	WLL 2 t	51	18	0,236	0,206
	TLX 030	WLL 3 t	53	20	0,320	0,288
	TLX 040	WLL 4 t	69	22	0,423	0,382
	TLX 050	WLL 5 t	76	28	0,501	0,457
	TLX 060	WLL 6 t	80	30	0,612	0,564
	TLX 080	WLL 8 t	90	32	0,782	0,728
	TLX 100	WLL 10 t	96	35	0,941	0,884

UL Information

ULTRALIFT ROUND SLING

Material:

The construction of a round sling is divided into the load bearing core and the protection sleeve.
The Ultralift Round slings is always made out of high performance fibres such as Dyneema® which makes the sling very light in weight even up to 2,5 times lighter in compare to Polyester en 8 times in compare to Steel based slings. The **Ultralift LD (ULLD)** has a protection sleeve made out off 100% Dyneema® This material is extremely abrasion resistant and therefore suitable for for heavy lift applications.

Properties:

Dyneema® is a High Modulus PolyEthylene Fibre (HMPE), that offers maximum strength combined with minimum weight.

Fysical properties

Specific Gravity (g/cm ³)	:	0,97
Elongation at WLL (in %)	:	0,5
Elongation in use	:	Similar to wire rope slings.
Weight reduction in %	:	Compared to wire rope slings; < 80% Compared to polyester based slings; < 59 %
Usable at temperature	:	- 50° C - + 60° C
Effects on Chemical exposure*	:	Excellent on water, moisture, very resistant against chemicals and micro organism. Good resistance to acid and alkali.
Effects on Chemical exposure*	:	0,0

* Always consult the producer.

Application:

The Ultralift LD Round Sling with the light duty (UPLD) Dyneema® based protection sleeve is developed for heavy lift applications were abrasion and flexibility is required.

The Ultralift LD Round Slings are exceptionally suitable for repetitive lifting jobs. Due to the maximum strength combined with the minimum weight, cost reductions will be achieved by spending less hours spend on rigging, less workers to rig, less back and hand injuries, a.o.

Standards:

- *ULTRALIFT* round slings comply with the Machinery Directive 2006/42/EG
- *ULTRALIFT* have a CE -mark, according the Machinery Directive requirements.
- Each *ULTRALIFT* round sling is preloaded 2 times the WLL , before delivery.
- A technical dossier is composed and validated by an independent authorized body (A.I.B. Vincotte and Lloyds).

ULLD Round Slings

ULTRALIFT LD

ULTRALIFT LD Round slings are produced out of a Dyneema® yarn and fully Comply to the machinery directive 2006/42/EG

- +** : ULLD Round slings are suitable for precision lift due to the low elongation
- +** : Low weight (2,5 times lighter than PES, and min 8 times lighter compared to steel wire ropes)



ULTRALIFT LD ROUNDSLINGS (ULLD)

Weight of a ULTRALIFT LD Round slings

	Type	ULLD0020	ULLD0030	ULLD0040	ULLD0050	ULLD0060	ULLD0080	ULLD0100
	WLL	2 T.	3 t.	4 T.	5 T.	6 T.	8 t	10 t.
	sleeve type 0,5 up to 2,0 Mtr	73 mm	73 mm	83 mm	83 mm	98 mm	98 mm	123 mm
	Sleeve type from 2 mtr and up	63 mm	63 mm	73 mm	73 mm	73 mm	83 mm	98 mm
length in Mtr		kg	kg	kg	kg	kg	kg	kg
0,5	ULLD	0,38	0,40	0,56				
1	ULLD	0,66	0,71	0,98	1,04	1,09	1,31	1,56
1,5	ULLD	0,95	1,01	1,41	1,48	1,56	1,88	2,24
2	ULLD	1,23	1,31	1,83	1,93	2,04	2,45	2,92
2,5	ULLD	1,40	1,51	1,81	1,94	2,07	2,81	3,28
3	ULLD	1,66	1,79	2,15	2,30	2,46	3,34	3,90
3,5	ULLD	1,93	2,07	2,49	2,67	2,85	3,87	4,52
4	ULLD	2,19	2,35	2,82	3,03	3,24	4,41	5,14
4,5	ULLD	2,45	2,64	3,16	3,40	3,63	4,94	5,76
5	ULLD	2,71	2,92	3,50	3,76	4,03	5,47	6,39
5,5	ULLD	2,97	3,20	3,84	4,13	4,42	6,00	7,01
6	ULLD	3,24	3,49	4,18	4,50	4,81	6,53	7,63
6,5	ULLD	3,50	3,77	4,52	4,86	5,20	7,06	8,25
7	ULLD	3,76	4,05	4,86	5,23	5,59	7,59	8,87
7,5	ULLD	4,02	4,33	5,20	5,59	5,98	8,12	9,49
8	ULLD	4,28	4,62	5,54	5,96	6,38	8,66	10,11
8,5	ULLD	4,55	4,90	5,88	6,32	6,77	9,19	10,74
9	ULLD	4,81	5,18	6,22	6,69	7,16	9,72	11,36
9,5	ULLD	5,07	5,47	6,56	7,06	7,55	10,25	11,98
10	ULLD	5,33	5,75	6,90	7,42	7,94	10,78	12,60
11	ULLD	5,86	6,31	7,58	8,15	8,73	11,84	13,84
12	ULLD	6,38	6,88	8,26	8,88	9,51	12,91	15,09
13	ULLD	6,90	7,44	8,94	9,62	10,29	13,97	16,33
14	ULLD	7,43	8,01	9,62	10,35	11,08	15,03	17,57
15	ULLD	7,95	8,58	10,30	11,08	11,88	16,09	18,81
16	ULLD	8,48	9,14	10,98	11,81	12,65	17,16	20,06
17	ULLD	9,00	9,71	11,65	12,54	13,43	18,22	21,30
18	ULLD	9,52	10,27	12,33	13,27	14,21	19,28	22,54
19	ULLD	10,05	10,84	13,01	14,01	15,00	20,34	23,79
20	ULLD	10,57	11,40	13,69	14,74	15,78	21,41	25,03

Dyneema®
 Dyneema®
 is a registered
 trademark of
 Royal DSM N.V.

ULLD Round Slings

ULTRALIFT LD



ULTRALIFT LD Round slings are produced out of a Dyneema® yarn and fully Comply to the machinery directive 2006/42/EG

1. + : ULLD Round slings are suitable for precision lift due to the low elongation
2. + : Low weight (2,5 times lighter than PES, and min 8 times lighter compared to steel wire ropes)
3. + : extremely high abrasion resistance



Dyneema® is a registered trademark of Toyobo DSM N.V.

ULTRALIFT LD ROUNDSLINGS WITH LIGHT DUTY SLEEVE (ULLD)

Type	ULLD0015	ULLD0020	ULLD0025	ULLD0030	ULLD0040	ULLD0050	ULLD0060	ULLD0070	ULLD0080	ULLD0090	ULLD0100	ULLD0120	ULLD0140	ULLD0160	ULLD0180	ULLD0200	
W.L.L.	15t	20t	25t	30t	40t	50t	60t	70t	80t	90t	100t	120 t	140 t	160 t	180 t	200 t	
Sleeve width	98 mm	98 mm	133 mm	133 mm	133 mm	183 mm	183 mm	183 mm	213 mm	228 mm	228 mm	283 mm	283 mm	343 mm	343 mm	343 mm	
Core diameter	30 mm	34 mm	40 mm	44 mm	48 mm	71 mm	75 mm	87 mm	90 mm	94 mm	100 mm	108 mm	116 mm	125 mm	132 mm	140 mm	
EWL in mtr	Weight in kg	Weight in kg	Weight in kg	Weight in kg	Weight in kg	Weight in kg	Weight in kg	Weight in kg	Weight in kg	Weight in kg	Weight in kg	Weight in kg	Weight in kg	Weight in kg	Weight in kg	Weight in kg	
2,5	ULLD	4,2	4,8	6,2	6,8	8,2	13,1	14,1	17,2	18,9	20,4						
3	ULLD	4,9	5,7	7,3	8,0	9,6	15,4	16,6	20,4	22,3	24,2	32,6	33,6	41,2	46,9	51,0	55,1
3,5	ULLD	5,7	6,5	8,4	9,3	11,0	17,7	19,2	23,5	25,8	27,9	37,0	38,7	47,0	53,7	58,5	63,3
4	ULLD	6,4	7,3	9,5	10,5	12,5	20,0	21,7	26,7	29,2	31,7	41,4	43,9	52,9	60,5	66,0	71,5
4,5	ULLD	7,1	8,2	10,7	11,7	13,9	22,4	24,2	29,8	32,7	35,4	45,9	49,0	58,8	67,3	73,4	79,6
5	ULLD	7,8	9,0	11,8	13,0	15,4	24,7	26,7	33,0	36,1	39,2	50,3	54,2	64,6	74,0	80,9	87,8
5,5	ULLD	8,6	9,9	12,9	14,2	16,8	27,0	29,3	36,1	39,6	42,9	54,8	59,4	70,5	80,8	88,4	95,9
6	ULLD	9,3	10,7	14,0	15,4	18,3	29,3	31,8	39,2	43,0	46,7	59,2	64,5	76,4	87,6	95,9	104,1
6,5	ULLD	10,0	11,6	15,1	16,6	19,7	31,6	34,3	42,4	46,5	50,4	63,7	69,7	82,2	94,4	103,3	112,3
7	ULLD	10,7	12,4	16,2	17,9	21,1	33,9	36,8	45,5	49,9	54,2	68,1	74,8	88,1	101,2	110,8	120,4
7,5	ULLD	11,4	13,2	17,3	19,1	22,6	36,3	39,4	48,7	53,4	57,9	72,6	80,0	94,0	108,0	118,3	128,6
8	ULLD	12,2	14,1	18,4	20,3	24,0	38,6	41,9	51,8	56,9	61,6	77,0	85,1	99,8	114,8	125,8	136,7
8,5	ULLD	12,9	14,9	19,5	21,5	25,5	40,9	44,4	55,0	60,3	65,4	81,5	90,3	105,7	121,6	133,2	144,9
9	ULLD	13,6	15,8	20,6	22,8	26,9	43,2	46,9	58,1	63,8	69,1	85,9	95,4	111,6	128,3	140,7	153,1
9,5	ULLD	14,3	16,6	21,7	24,0	28,3	45,5	49,5	61,3	67,2	72,9	90,3	100,6	117,5	135,1	148,2	161,2
10	ULLD	15,1	17,5	22,8	25,2	29,8	47,9	52,0	64,4	70,7	76,6	94,8	105,7	123,3	141,9	155,6	169,4
11	ULLD	16,5	19,1	25,0	27,7	32,7	52,5	57,0	70,7	77,6	84,1	103,7	116,0	135,1	155,5	170,6	185,7
12	ULLD	18,0	20,8	27,3	30,1	35,5	57,1	62,1	77,0	84,5	91,6	112,6	126,3	146,8	169,1	185,5	202,0
13	ULLD	19,4	22,5	29,5	32,6	38,4	61,8	67,1	83,3	91,4	99,1	121,5	136,6	158,5	182,6	200,5	218,3
14	ULLD	20,8	24,2	31,7	35,0	41,3	66,4	72,2	89,6	98,3	106,6	130,3	147,0	170,3	196,2	215,4	234,7
15	ULLD	22,3	25,9	33,9	37,5	44,2	71,0	77,2	95,9	105,2	114,1	139,2	157,3	182,0	209,8	230,4	251,0
16	ULLD	23,7	27,6	36,1	40,0	47,1	75,7	82,3	102,2	112,1	121,6	148,1	167,6	193,8	223,3	245,3	267,3
17	ULLD	25,2	29,3	38,3	42,4	50,0	80,3	87,3	108,5	119,0	129,1	157,0	177,9	205,5	236,9	260,3	283,6
18	ULLD	26,6	31,0	40,5	44,9	52,8	84,9	92,4	114,7	125,9	136,6	165,9	188,2	217,2	250,5	275,2	299,9
19	ULLD	28,1	32,6	42,8	47,3	55,7	89,6	97,4	121,0	132,8	144,1	174,8	198,5	229,0	264,1	290,2	316,3
20	ULLD	29,5	34,3	45,0	49,8	58,6	94,2	102,5	127,3	139,8	151,6	183,7	208,8	240,7	277,6	305,1	332,6

ULCS Coil Slings

ULTRALIFT CoilSling with an ultraprotect Heavy Duty Sleeve (ULNG)

The Coil Sling NG consists of two parts: The ULTRALIFT round sling as a perfect round sling with a high abrasion resistant cover made of dyneema®. (upld). over both legs an ULTRAPROTECT heavy duty protection sleeve is placed. The ULTRAPROTECT (UPHD) protection sleeve is extremely cut- and abrasion resistant.

Application:

This patented ULTRALIFT coil sling is especially developed for lifting coils and loads which are heavy and sharp.



The benefits of this concept are:

- + : in case of severe damages the protection sleeve can be replaced easily, without replacing the ULTRALIFT round sling.
- + : easy handling, due to the size of the ULTRALIFT round sling that fits perfectly into the hook
- + : The total weight of the ULTRALIFT coil sling NG is extremely low.
- + : The lifetime of the ulld will be very long, because of the dyneema based cover.
- + : discharge indicator on the ULTRAPROTECT protection sleeve. (red marker yarns).



		Type	ULCS0010	ULCS0015	ULCS0020	ULCS0025	ULCS0030
		Sleeve width actual ULLD Roundsling	75 - 85mm	90-100 mm	90-100 mm	115-125 mm	115-125 mm
		Sleeve width extra UPHD protection sleeve actual Roundsling	115-125mm	145-155mm	145-155mm	175 -185mm	175-185mm
		WLL	10 t	15 t	20 t	25 t	30 t
			[kg]	[kg]	[kg]	[kg]	[kg]
L in mtr	Length UPHD protection sleeve						
2,5	1,9	ULCS	4,9	6,2	6,4	8,6	9,2
3	2,4	ULCS	5,9	7,4	7,7	10,3	11
3,5	2,9	ULCS	6,9	8,7	9,1	12	12,9
4	3,4	ULCS	7,9	9,9	10,5	13,7	14,7
4,5	3,9	ULCS	8,8	11,2	11,8	15,5	16,5
5	4,4	ULCS	9,8	12,4	13,2	17,2	18,4
5,5	4,9	ULCS	10,8	13,7	14,6	18,9	20,2
6	5,4	ULCS	11,8	14,9	15,9	20,6	22,1
6,5	5,9	ULCS	12,7	16,1	17,3	22,4	23,9
7	6,4	ULCS	13,7	17,4	18,7	24,1	25,8
7,5	6,9	ULCS	14,7	18,6	20,0	25,8	27,8
8	7,4	ULCS	15,7	19,9	21,4	27,5	29,5
8,5	7,9	ULCS	16,7	21,1	22,7	29,3	31,3
9	8,4	ULCS	17,6	22,4	24,1	31	33,1
9,5	8,9	ULCS	18,6	23,6	25,5	32,7	35
10	9,4	ULCS	19,6	24,8	26,8	34,4	36,8

TLX Information

TECHLON ROUND SLING (TLX)

Material:

The construction of a sling is divided into the core and a protection sleeve.

The core is made out of polyester (PES) fibres. The protection sleeve is made out of Techlon (PES).

Due to the special rip and weave structure, Techlon is significantly more resistance to abrasion than standard polyester sleeve.

Physical properties

Specific Gravity (g/cm ³)	:	1,38
Elongation at WLL (in %)	:	3 - 4
Usable at temperature	:	-40°C - +100°C
Moisture regain %	:	< 0,5
Resistance to mineral Acid*	:	Good
Resistance to Alkalis*	:	Poor

* Always consult the producer.

Application:

Techlon (TLX) round slings are for general use for lifting loads from WLL 1 ton up to 150 ton. (straight lift).

For the standard assortment we refer to the enclosed product sheets.

Standards:

- Techlon round slings comply with the Machinery Directive 2006/42/EG
- Techlon round slings have a CE-mark, according the Machinery Directive requirements. (Europe).
- Techlon round slings comply with NEN-EN 1492-2 (europe), BS 6668 part 2-1987 safety factor 6:1 (middle east, asia), AS 4497.1-1997 (Australia), OSHA /AS ME B30.9 (USA)

TLX Information

TECHLON (TLX)



WEIGHT OF A TLX ROUND SLING WITH TECHLON SLEEVE IN KG

	Type	TLX0100	TLX0150	TLX0200	TLX0250	TLX0300	TLX0350	TLX0400	TLX0450	TLX0500	TLX0550
	WLL	12 t	15 t	20 t	25 t	30 t	35 t	40 t	45 t	50 t	55 t
	Sleeve width	110 mm	110 mm	132 mm	132 mm	160 mm	160 mm	160 mm	180 mm	180 mm	180 mm
	Core diameter	39 mm	46 mm	52 mm	60 mm	65 mm	67 mm	73 mm	78 mm	86 mm	90 mm
EWL in mtr		kg	kg	kg	kg	kg	kg	kg	kg	kg	kg
1	TLX	2,6	3,4	4,4	5,6	6,2	7,3	n/a	n/a	n/a	n/a
2	TLX	5,1	6,6	8,5	11,0	12,3	14,5	16,0	18,9	22,7	25,2
3	TLX	7,5	9,8	12,7	16,5	18,5	21,6	23,9	28,1	33,9	37,6
4	TLX	9,9	13,0	16,8	21,9	24,6	28,7	31,8	37,4	45,0	50,0
5	TLX	12,4	16,2	21,0	27,3	30,7	35,8	39,7	46,7	56,2	62,5
6	TLX	14,8	19,5	25,2	32,7	36,9	42,9	47,6	55,9	67,4	74,9
7	TLX	17,3	22,7	29,3	38,2	43,0	50,0	55,5	65,2	78,6	87,3
8	TLX	19,7	25,9	33,5	43,6	49,1	57,1	63,3	74,4	89,7	99,7
9	TLX	22,2	29,1	37,6	49,0	55,3	64,2	71,2	83,7	100,9	112,1
10	TLX	24,6	32,3	41,8	54,4	61,4	71,3	79,1	93,0	112,1	124,6
11	TLX	27,0	35,5	45,9	59,9	67,6	78,4	87,0	102,2	123,3	137,0
12	TLX	29,5	38,7	50,1	65,3	73,7	85,5	94,9	111,5	134,5	149,4
13	TLX	31,9	41,9	54,3	70,7	79,8	92,6	102,8	120,7	145,6	161,8
14	TLX	34,4	45,2	58,4	76,1	86,0	99,7	110,7	130,0	156,8	174,2
15	TLX	36,8	48,4	62,6	81,5	92,1	106,8	118,5	139,3	168,0	186,6
16	TLX	39,2	51,6	66,7	87,0	98,3	113,9	126,4	148,5	179,2	199,1
17	TLX	41,7	54,8	70,9	92,4	104,4	121,0	134,3	157,8	190,3	211,5
18	TLX	44,1	58,0	75,1	97,8	110,5	128,2	142,2	167,1	201,5	223,9
19	TLX	46,6	61,2	79,2	103,2	116,7	135,3	150,1	176,3	212,7	236,3
20	TLX	49,0	64,4	83,4	108,7	122,8	142,4	158,0	185,6	223,9	248,7
	Extra per mtr. working length	2,5	3,2	4,2	5,4	6,1	7,1	7,9	9,3	11,2	12,4

TLX Round Slings

WEIGHT OF A TLX ROUND SLING WITH TECHLON SLEEVE IN KG

	Type	TLX0600	TLX0650	TLX0700	TLX0750	TLX0800	TLX0850	TLX0900	TLX0950	TLX1000	TLX 1150
	WLL	60 t	65 t	70 t	75 t	80 t	85 t	90 t	95 t	100 t	115 t
	Sleeve width	220 mm	220 mm	220 mm	320 mm	320 mm	320 mm	320 mm	320 mm	320 mm	320 mm
	Core diameter	95 mm	98 mm	101 mm	105 mm	108 mm	112 mm	116 mm	120 mm	123 mm	140 mm
EWL in mtr		kg	kg	kg	kg	kg	kg	kg	kg	kg	kg
1	TLX	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2	TLX	27,4	29,6	31,3	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3	TLX	40,9	44,2	46,8	51,6	54,1	57,9	60,4	64,2	66,7	84,6
4	TLX	54,4	58,8	62,2	68,6	72,0	77,0	80,4	85,4	88,7	122,6
5	TLX	67,9	73,4	77,7	85,6	89,8	96,1	100,3	106,6	110,8	140,7
6	TLX	81,4	88,1	93,1	102,7	107,7	115,3	120,3	127,9	132,8	168,7
7	TLX	94,9	102,7	108,6	119,7	125,5	134,4	140,2	149,1	154,9	196,7
8	TLX	108,4	117,3	124,0	136,7	143,4	153,5	160,2	170,3	176,9	224,8
9	TLX	121,9	131,9	139,5	153,7	161,2	172,6	180,1	191,5	199,0	252,8
10	TLX	135,4	146,5	154,9	170,7	179,1	191,7	200,1	212,7	221,0	280,8
11	TLX	148,9	161,1	170,4	187,7	196,9	210,8	220,0	233,9	243,0	309,0
12	TLX	162,4	175,7	185,9	204,8	214,8	230,0	240,0	255,2	265,1	337,0
13	TLX	175,9	190,3	201,3	221,8	232,7	249,1	260,0	276,4	287,1	365,0
14	TLX	189,4	204,9	216,8	238,8	250,5	268,2	279,9	297,6	309,2	393,0
15	TLX	202,9	219,5	232,2	255,8	268,4	287,3	299,9	318,8	331,2	421,0
16	TLX	216,4	234,1	247,7	272,8	286,2	306,4	319,8	340,0	353,3	449,0
17	TLX	229,9	248,7	263,1	289,9	304,1	325,6	339,8	361,3	375,3	477,0
18	TLX	243,4	263,4	278,6	306,9	321,9	344,7	359,7	382,5	397,4	505,0
19	TLX	256,9	278,0	294,0	323,9	339,8	363,8	378,9	403,7	419,4	535,0
20	TLX	270,4	292,6	309,5	340,9	357,6	382,9	399,6	424,9	441,4	565,0
	Extra per mtr. working length	13,5	14,6	15,5	17,0	17,9	19,1	20,0	21,2	22,0	30,0

TDQ Information

TDQ Web Slings

Material:

TDQ web slings are built up out of 4-layers polyester (PES) and are available as three versions:

TDQ web slings are made out 100% polyester. The TDQDD and TDQDDS are manufactured with steel triangles (grade 80).

Properties:

Physical properties

Specific Gravity (g/cm ³)	:	1,38
Elongation at WLL (in %)	:	3 - 4
Usable at temperature	:	-40°C - +100°C
Moisture regain %	:	< 0,5
Resistance to mineral Acid*	:	Good
Resistance to Alkalis*	:	Poor

* Always consult the producer.

Application:

TDQ web slings are for general use for lifting loads from WLL 2 ton up to 40 ton. (straight lift). The width of the webbing sling contributes to a stable and safe lift.

For special applications where the standard assortment does not fit, Technotex Industrial Supply can offer custom made solutions.

For the standard assortment we refer to the enclosed product sheets.

Standards:

- TDQ web slings comply with the Machinery Directive 2006/42/EG
- TDQ web slings have a CE-mark, according to the Machinery Directive requirements. (Europe).
- Techlon web slings comply with NEN-EN 1492-2 (europe), BS 3481/part2-1983 safety factor 6:1 (Middle East, asia), as 4497.1-1997 (Australia), OSHA/ASME B30.9 (USA)

TDQ 4 layer web slings

TDQ



TDQ 4 LAYER WEB SLINGS

Weight of a 4-layer TDQ web sling.

Type		TDQ150	TDQ180/200	TDQ240	TDQ300	TDQ300	TDQ500	TDQ600
WLL		10 t	12 t	15 t	20 t	25 t	30 t	40 t
Eye width		80 mm	95/105	125 mm	160 mm	160 mm	260 mm	310 mm
Eye length		650 mm	700 mm	850 mm	1100 mm	1200 mm	1500 mm	1500 mm
Webbing width		150 mm	180/200	240 mm	300 mm	300 mm	500 mm	600 mm
EWL in mtr		kg	kg	kg	kg	kg	kg	kg
4	TDQ	7,7	10,1	12,4	16,3	19,6	26,5	41,0
5	TDQ	9,6	12,5	15,4	20,3	24,3	32,9	50,8
6	TDQ	11,4	14,9	18,3	24,2	29,0	39,2	60,6
7	TDQ	13,3	17,3	21,3	28,1	33,7	45,6	70,4
8	TDQ	15,1	19,7	24,3	32,0	38,4	52,0	80,2
9	TDQ	17,0	22,1	27,2	35,9	43,1	58,4	90,1
10	TDQ	18,8	24,5	30,2	39,8	47,8	64,7	99,9
11	TDQ	20,7	26,9	33,2	43,7	52,5	71,1	109,7
12	TDQ	22,5	29,3	36,1	47,6	57,2	77,5	119,5
13	TDQ	24,4	31,7	39,1	51,5	61,9	83,8	129,3
14	TDQ	26,2	34,1	42,1	55,4	66,6	90,2	139,2
15	TDQ	28,1	36,5	45,1	59,4	71,3	96,6	149,0
16	TDQ	29,9	38,9	48,0	63,3	76,0	102,9	158,8
17	TDQ	31,8	41,3	51,0	67,2	80,7	109,3	168,6
18	TDQ	33,6	43,7	54,0	71,1	85,4	115,7	178,4
19	TDQ	35,5	46,1	56,9	75,0	90,1	122,1	188,3
20	TDQ	37,3	48,5	59,9	78,9	94,8	128,4	198,1
	Extra per mtr. working length*	1,9	2,4	3,0	3,9	4,7	6,4	9,8

* length above 24 meter please consult the manufacturer.

TDQDD 4 layer web slings

TDQDD



TDQDD 4 LAYER WEB SLINGS with TRINAGLES

Weigth of a 4-layer TDQDD web sling with triangles (Male)

		Type	TDQDD150	TDQDD180/200	TDQDD180/200	TDQDD240	TDQDD300	TDQDD300
		WLL	10 t	12 t	12 t	15 t	20 t	25 t
		Webbing width	150 mm	180/200	180/200	240 mm	300 mm	300 mm
		Weight Triangle	12,6	15,6	15	28,8	47,8	47,8
EWL in mtr			kg	kg	kg	kg	kg	kg
4	TDQDD		20,3	25,7	10,1	41,2	64,1	67,4
5	TDQDD		22,2	28,1	12,5	44,2	68,1	72,1
6	TDQDD		24,0	30,5	14,9	47,1	72,0	76,8
7	TDQDD		25,9	32,9	17,3	50,1	75,9	81,5
8	TDQDD		27,7	35,3	19,7	53,1	79,8	86,2
9	TDQDD		29,6	37,7	22,1	56,0	83,7	90,9
10	TDQDD		31,4	40,1	24,5	59,0	87,6	95,6
11	TDQDD		33,3	42,5	26,9	62,0	91,5	100,3
12	TDQDD		35,1	44,9	29,3	64,9	95,4	105,0
13	TDQDD		37,0	47,3	31,7	67,9	99,3	109,7
14	TDQDD		38,8	49,7	34,1	70,9	103,2	114,4
15	TDQDD		40,7	52,1	36,5	73,9	107,2	119,1
16	TDQDD		42,5	54,5	38,9	76,8	111,1	123,8
17	TDQDD		44,4	56,9	41,3	79,8	115,0	128,5
18	TDQDD		46,2	59,3	43,7	82,8	118,9	133,2
19	TDQDD		48,1	61,7	46,1	85,7	122,8	137,9
20	TDQDD		49,9	64,1	48,5	88,7	126,7	142,6
		Extra per mtr. working length*	1,8	2,4	2,4	2,9	3,9	4,7

* length above 24 meter please consult the manufacturer.

TDQDD

Triangles Specifications

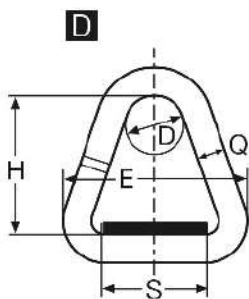
TDQDD



TDQDD TRINAGLES SPECIFICATIONS

Triangle Type 2 - male

Type	W.L.L.	S in mm	Q in mm	D in mm	H in mm	E in mm	weigth in kg
DTR/10	10	180	35	100	200	320	6,3
DTR/12	12	170	40	90	200	290	7,8
DTR/15	15	300	45	150	250	440	14,4
DTR/20	20	300	50	180	300	460	19
DTR/25	25	300	55	180	300	492	23,9
DTR/30	30	300	55	180	300	492	23,9



TDQDDS

4 layer triangle web slings

TDQDDS



TDQDDS 4 LAYER WEB SLINGS WITH TRIANGLES

Weight of a 4-layer TDQDDS web sling with triangles (Male/Female)

	Type	TDQDDS150	TDQDDS180/200	TDQDD180/200	TDQDDS240	TDQDDS300	TDQDDS300
	WLL	10 t	12 t	12 t	15 t	20 t	25 t
	Webbing width	150 mm	180/200	180/200	240 mm	300 mm	300 mm
	Weight Triangle	19,3	23,3	30	41,6	71,4	71,4
EWL in mtr		kg	kg	kg	kg	kg	kg
4	TDQDDS	27,0	33,4	10,1	54,0	87,7	91,0
5	TDQDDS	28,9	35,8	12,5	57,0	91,7	95,7
6	TDQDDS	30,7	38,2	14,9	59,9	95,6	100,4
7	TDQDDS	32,6	40,6	17,3	62,9	99,5	105,1
8	TDQDDS	34,4	43,0	19,7	65,9	103,4	109,8
9	TDQDDS	36,3	45,4	22,1	68,8	107,3	114,5
10	TDQDDS	38,1	47,8	24,5	71,8	111,2	119,2
11	TDQDDS	40,0	50,2	26,9	74,8	115,1	123,9
12	TDQDDS	41,8	52,6	29,3	77,7	119,0	128,6
13	TDQDDS	43,7	55,0	31,7	80,7	122,9	133,3
14	TDQDDS	45,5	57,4	34,1	83,7	126,8	138,0
15	TDQDDS	47,4	59,8	36,5	86,7	130,8	142,7
16	TDQDDS	49,2	62,2	38,9	89,6	134,7	147,4
17	TDQDDS	51,1	64,6	41,3	92,6	138,6	152,1
18	TDQDDS	52,9	67,0	43,7	95,6	142,5	156,8
19	TDQDDS	54,8	69,4	46,1	98,5	146,4	161,5
20	TDQDDS	56,6	71,8	48,5	101,5	150,3	166,2
	Extra per mtr. working length*	1,8	2,4	2,4	2,9	3,9	4,7

* length above 24 meter please consult the manufacturer.

TDQDDS triangle specifications

TDQDDS



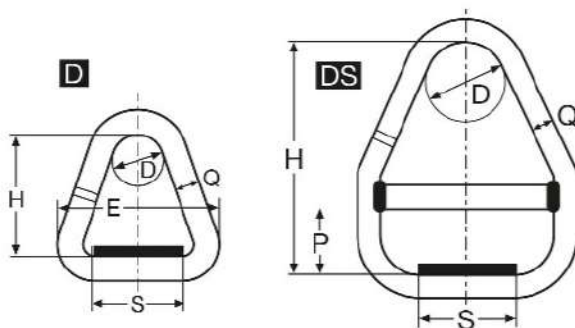
TDQDDS TRIANGLES SPECIFICATIONS

Triangle type 2 - male

Type	W.L.L.	S in mm	Q in mm	D in mm	H in mm	E in mm	Weight kg
DTR/10	10	180	35	100	200	320	6,3
DTR/12	12	170	40	90	200	290	7,8
DTR/15	15	300	45	150	250	440	14,4
DTR/20	20	300	50	180	300	460	19
DTR/25	25	300	55	180	300	492	23,9
DTR/30	30	300	55	180	300	492	23,9

Triangle type 2 - female

Type	W.L.L.	S in mm	Q in mm	D in mm	H in mm	P in mm	Weight kg
DSTR/10	10	180	35	100	340	100	13
DSTR/12	12	180	40	100	340	100	15,5
DSTR/15	15	250	45	150	466	120	27,2
DSTR/20	20	300	50	180	540	150	36
DSTR/25	25	300	55	180	540	150	47,5
DSTR/30	30	300	55	180	540	150	47,5



LASHING Information

LASHINGS



The correct selection and use of lashings is an important issue.

Unitex is one of the world's leading brand manufacturers fulfilling this important issue.

Fundamentals:

To the load securing of cargo transport vehicles are a row of EN 12195ff to be applied. Additional applicable in Germany are the VDI guideline 2700ff and accident prevention rules like "Stand der Technik".

The aim of load securing is: to protect the life and health of humans and animals, just as to protect the load for damaging.

The threats for the involved are mentioned in the various appendix of the EN 12195ff, so that an intended use can be guaranteed.

In Part 2 of EN 12195-2 lashing made of fibers (edition December 2000) in Appendix A, the following Hazards listed (summary):

- The load must not slip, roll over or tip over by loading, transporting and unloading due to improper load securing
- The direct and indirect danger for man and animal must be ruled out.
- Even the secured transportation needs to be guaranteed by the various modes of transport and among the various accelerations.

Vehicles must, taking into account the load distribution and load capacity of the loading area, connection rings, side walls, end walls, etc., absorb the resulting forces (EN 12195-1 under 4 Acceleration).

If the transport vehicle is not in a position to take the required forces, then lashing systems according to EN 12195-2 and 3, and tools for example anti-slip mats (UTX-ARM) are required. The variety of tools today is very large.

Unitex offers his customers not only a large and comprehensive program, but the customers can also qualify through training.

LASHING Information

LASHINGS

Basic information to load securing:

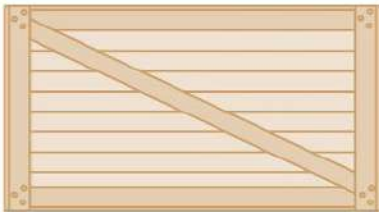
During the transportation process forces put pressure on the load, as well as on the individual load securing. The mass and friction forces needs to be taken into account.

What everyone needs to know:

We make the set with an example:

We are loading a box of 10 t.

Centre of gravity is in the middle and the load is not in risk of tilting



For a concept for load securing certain procedures has to be followed. Unitex would like to introduce an example of 4 stages:

1. stage:

- a) Drivers log in into dispatch department and receive a shipper-briefings
- b) Personal put on personal protective equipment
- c) Make sure the floor of the load area is clean
- d) Make sure intact lashing (web lashing, chain lashing, etc.) and additional tools (anti-slip mats, connecting rings etc.) is ready
- e) Prepare the vehicle body for loading

2. stage:

- a) Talk over the way of loading with the truck driver
- b) Positioning (load dividing)of the load to be discussed with the driver
- c) Under layers of wood to be placed, so that the vehicle will not be damaged by overload.
- d) The way of lashing (closing form, closing force or in a combination) to be discuss with the driver

3. stage:

- a) Safe putting on of the load with a crane or
- b) Taking the load safely in forklift operation
- c) achieve closing form to the front f.e. through vehicle set up, connection rings, under layers of wood or head sling
- d) load may be dropped to anti slip mat

LASHING Information

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4. stage:

- prepare lashings (web lashing, chain lashing, etc.) and additional tools for selected way of lashing and calculation for load securing
- decline the load securing by the shipper
- the driver is made aware of the fact that the load securing can be inspected along the road
- The vehicle structure will be closed if needed

TIP: Unitex offers you the service to introduce load securing in your company.

In the 4 phases following actions are mentioned:

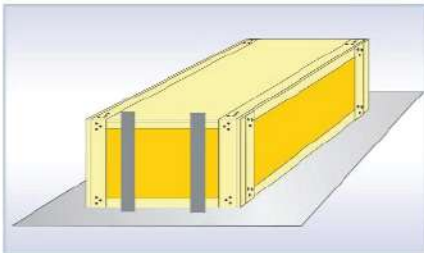
We load the 10t box under the load dividing on the truck.

1. Question we ask ourselves:

Which method of load securing can be used?

We make a split between form fitting and force fitting load securing.

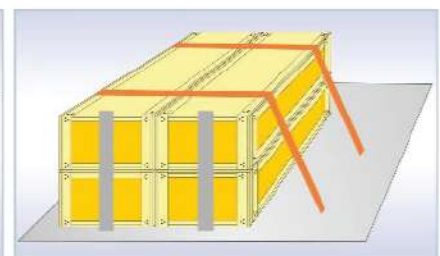
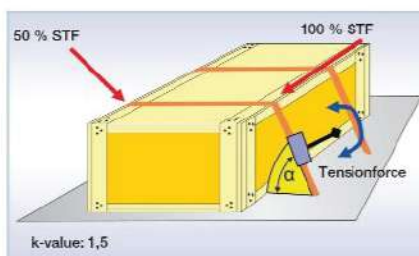
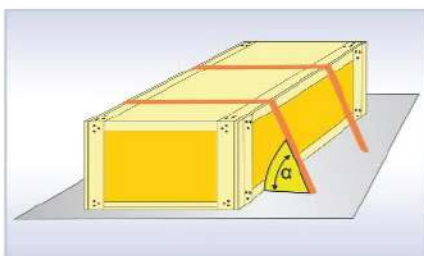
closing form load securing:



Buttress of the load against connecting rings, front wall, side walls etc. The securing can be made through a direct connection of the load or indirect connection of the load due to direct lashing f.e. diagonal lashing, hypotenuse lashing, circumference lashing and head lashing.

A closing force load securing is always pre-pulling.

closing force load securing:



Over the top lashing is a force fitting load securing. By increasing the contact pressure it prevents the load from shifting. By under laying the anti slip mats the number of lashings can be reduced.

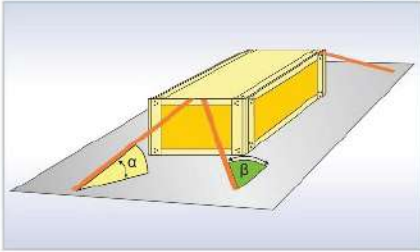
The number of lashing is depending on the mass (m), friction (μD), lashing angle α (alpha) and the standard tension force (STF) of the lashings.

closing form and closing force load securing can be used in combination.

LASHING Information

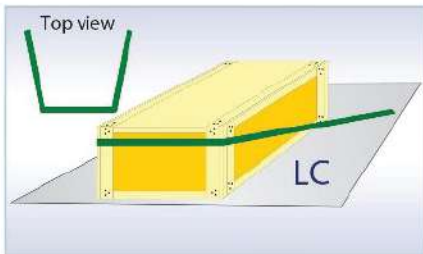
LASHINGS

Important hold of the lashing:



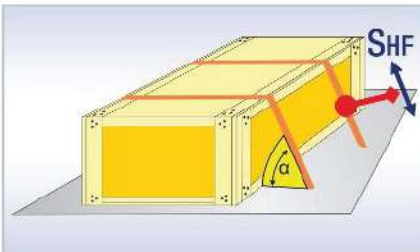
LC:

- LC = Lashing Capacity - to lash
- Lashing Capacity (LC) Lashing force diagonal lashing in straight line. f.e. LC 2000 daN



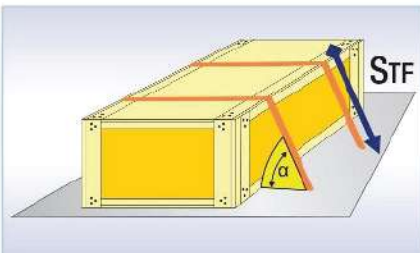
LC:

- in circumference f.e. LC 4000 daN
- Use by a head- and side sling



S_{HF}:

- Standard Hand Force = Regular manual force (50 daN)
- Tension will be put on the lashing system with this force



S_{TF}:

- Standard Tension Force – pre tension force of the lashing system f.e. from 250 daN up to 550 daN for polyester lashing systems
- With lashing chain systems from appr.1000 daN up to 2500 daN

TIP: Practical Advice on the use of lashings systems according to EN 12195-2:

In the selection and in the use of lashing systems it is necessary to take in mind the lashing forces, as well as way of use and the way it is working on the load.

LASHING Information

LASHINGS

2. Question:

How big are the expected forces?

According to EN 12195-1 the following forces contribute to road vehicles. These are calculated with support of the acceleration coefficient.

c = acceleration coefficient

- 0.8 in forward road direction (x)
- 0.5 opposite of the forward road direction (rear direction) (x)
- 0.5 side ways of the forward road direction by a stable load(y)
- 0.7 for non-tilt secured cargo (side)
- 1.0 c_z (vertical)

We count with a wooden box:

10t (centre of gravity in the middle and no danger for tilting)

c = acceleration coefficient

- 0.8 in forward road direction
 $10t \times 0.8 = 8t$ secured forces forwards
- 0.5 opposite of the forward road direction (x)
 $10t \times 0.5 = 5t$ secured forces in rear direction
- 0.5 in side way direction (y)
 $10t \times 0.5 = 5t$ secured forces side ways to the direction
- 1.0 c_z (vertical)
 $10t \times 1.0 = 10t$ vertical forces (load vehicle floor)

From the practice spoken in metric tons, we need to calculate in forward direction with 8 tons of backup power, in rear and side way direction with 5 tons securing forces.

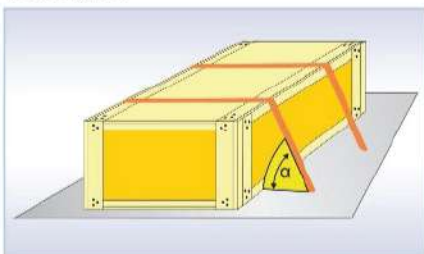
8 tons = $8000 \text{ kg} \times 9.81 \text{ m/s}^2 = 78,480 \text{ N} = 7848 \text{ daN}$ securing forward road direction

5 t = $5000 \text{ kg} \times 9.81 \text{ m/s}^2 = 49,05 \text{ N} = 4905 \text{ daN}$ securing force in rear and side way direction

3. Question:

What must be observed with closing force load securing?

1. Example:



friction between the load and the transport vehicle with wooden floors $\mu_D = 0.3$.

Lashing angle α : 80° , Stf: 550 daN

Calculating the number of lashings with over the top lashing (EN 12195-1, formula 5):

$$n \geq \frac{(C_{xy} - \mu_D * C_L) * m * g}{k * \mu_D * \sin(\alpha) * F_T}$$

Results: We obtained a minimum number of lashings = 23 pieces of lashing systems with Ergo ratchet - STF 550 daN Type 50A / 2

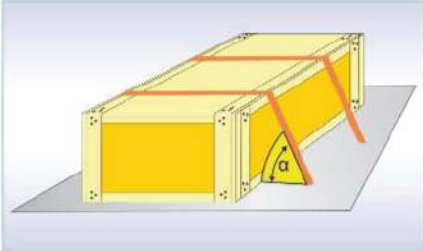
LASHING Information

LASHINGS

2. Example:

Anti slip mats between the load and transport vehicle with $\mu_D = 0.6$.

Lashing angle α : 80 °, Stf: 550daN



Calculating the number of lashings by over the top lashing
(EN 12195-1, formula 5):

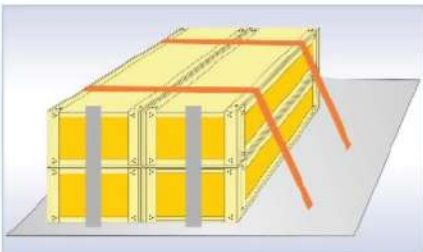
$$n \geq \frac{(C_{xy} - \mu_D * C_z) * m * g}{k * \mu_D * \sin(\alpha) * F_T}$$

Results:

We obtained a minimum number of lashings = 5 pieces of lashing systems with Ergo ratchet - STF 550daN Type 50A / 2 and anti slip mats.

TIP: Due to the use of anti slip mats from Technotex you will get an secured and practical load securing.

3. closing form by two connection rings with a total blocking force of 2000 daN



Example:

Anti slip mats between the load and transport vehicle with $\mu_D = 0.6$.

Lashing angle α : 80 °, Stf: 550 daN

Calculating the number of lashings by over the top lashing (EN 12195-1, formula 5):

$$n \geq \frac{(C_{xy} - \mu_D * C_z) * m * g}{k * \mu_D * \sin(\alpha) * F_T}$$

Results:

With the blocking force forwards with 2000 daN, we obtain a minimum number of lashing systems= 2 pieces of lashing systems with Ergo ratchet

- STF 550 daN Type 50A/2.und 2 pieces anti slip mats

Caution: The principle: By over the top lashing always use at least 2 lashing systems




Result of the load securing:

Example 2 and 3 can be implemented well in practice with products from Technotex. Still some important indications has to be respected!

25mm lashing systems

25mm LASHINGS with ratchets

	Type	1 or 2 part	Lashing capacity	Standard Tension Force (S_{TF}) by S_{HF} 50 daN	Nr. of the end-fitting
	25B/1	1- part	800 daN	S_{TF} 240 daN	
	25B/2	2- parts	400 daN	S_{TF} 120 daN	2, 3, 4, 5, 8, 10

	Type	1 or 2 part	Lashing capacity	Standard Tension Force (S_{TF}) by S_{HF} 50 daN	Nr. of the end-fitting
	25A/1	1- part	1500 daN	S_{TF} 270 daN	
	25A/2	2-part	750 daN	S_{TF} 135 daN	3, 4, 5, 10

TÜV approval for lashings with hook No. 2 and 3



 Art.nr 23.208	 Art.nr 23.207	 Art.nr 23.301	 Art.nr 23.525	 Art.nr 23.219	 *Maximum Lc Capacity 340 daN Art.nr 23.229	 Art.nr 23.204
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25mm lashing systems

25mm LASHINGS with cambuckle




	Type	1 or 2 part	Lashing capacity	Standard Tension Force (S_{Tf}) by S_{HF} 50 daN	Nr. of the endfitting
	IG25/1	1-part	250 daN		
	IG25/2	2-parts	125 daN		2, 3, 4, 5, 8, 10






35mm lashing systems

35mm LASHINGS with ratchets



	Type	1 or 2 part	Lashing capacity	Standard Tension Force (S_{TF}) by S_{HF} 50 daN	Nr. of the endfitting
	35B/1	1-part	2000 daN	S_{TF} 360 daN	
	35B/2	2-parts	1000 daN	S_{TF} 180 daN	1, 2, 3, 4, 5*, 10*

	Type	1 or 2 part	Lashing capacity	Standard Tension Force (S_{TF}) by S_{HF} 50 daN	Nr. of the endfitting
	35A/1	1-part	3000 daN	S_{TF} 360 daN	
	35A/2	2-parts	1500 daN	S_{TF} 180 daN	1, 2, 3, 4, 5*




Tüv approval for lashings with hook No. 2 and 3



 Art.nr 23.305	 Art.nr 23.303	 Art.nr 23.202	 Art.nr 23.301	 *Maximum Lc Capacity 750 daN Art.nr 23.525	 *Maximum Lc Capacity 750 daN Art.nr 23.204
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35mm lashing systems




35mm LASHINGS with cambuckle



	Type	1 or 2 part	Lashing capacity	Standard Tension Force (S_{TF}) by S_{HF} 50 daN	Nr. of the end-fitting
	IG35/1	1-part	500 daN		
	IG35/2	2-parts	250 daN		1, 2, 3, 4, 5, 10

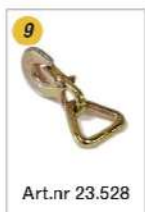


50mm lashing systems

50mm LASHINGS with ratchets

	Type	1 or 2 part	Lashing capacity	Standard Tension Force (S_{TF}) by S_{HF} 50 daN	Nr. of the end-fitting
	50L/1	1-part	2000 daN	S_{TF} 360 daN	
	50L/2	2-parts	1000 daN	S_{TF} 180 daN	1, 2, 3, 5*, 6, 7, 8, 9

	Type	1 or 2 part	Lashing capacity	Standard Tension Force (S_{TF}) by S_{HF} 50 daN	Nr. of the end-fitting
	50C/1	1-part	3000 daN	S_{TF} 420 daN	
	50C/2	2-parts	1500 daN	S_{TF} 210 daN	1, 2, 3, 5*, 6, 7, 8, 9






Tüv approval for lashings with hook No. 2 and 3



50mm lashing systems

50mm LASHINGS 1-part with cambuckle

	Type	1 or 2 part	Lashing capacity	Standard Tension Force (S_{TF}) by S_{HF} 50 daN	Nr. of the end-fitting
	IG50/1	1-part	1200 daN		
	IG50/2	2-parts	600 daN		1, 2, 3, 4, 5, 6, 7, 8, 9



50mm lashing systems 2000/4000 daN

50mm LASHINGS with ratchets



	Type	1 or 2 part	Lashing capacity	Standard Tension Force (S_{TF}) by S_{HF} 50 daN	Nr. of the end-fitting
	50BS/1	1-part	4000 daN	S_{TF} 400 daN	
	50BS/2	2-parts	2000 daN	S_{TF} 200 daN	1, 2, 3, 6, 7, 8, 9

	Type	1 or 2 part	Lashing capacity	Standard Tension Force (S_{TF}) by S_{HF} 50 daN	Nr. of the end-fitting
	50B/1	1-part	4000 daN	S_{TF} 640 daN	
	50B/2	2-parts	2000 daN	S_{TF} 320 daN	1, 2, 3, 6, 7, 8, 9

Tüv approval for lashings with hook No. 2 and 3






Art.nr 23.502	Art.nr 23.506	Art.nr 23.532	Art.nr 23.526	Art.nr 23.531	Art.nr 23.527	Art.nr 23.528

50mm lashing systems 2000/4000 daN

50mm LASHINGS with long handle ERGO ratchets



	Type	1 or 2 part	Lashing capacity	Standard Tension Force (S_{TF}) by S_{HF} 50 daN	Nr. of the end-fitting
	50BE/1	1-part	4000 daN	S_{TF} 960 daN	
	50BE/2	2-parts	2000 daN	S_{TF} 480 daN	1, 2, 3, 6, 7, 8, 9

50mm LASHINGS with easy release ratchets

	Type	1 or 2 part	Lashing capacity	Standard Tension Force (S_{TF}) by S_{HF} 50 daN	Nr. of the end-fitting
	50BER/1	1-part	4000 daN	S_{TF} 800 daN	
	50BER/2	2-parts	2000 daN	S_{TF} 400 daN	1, 2, 3, 6, 7, 8, 9

Tüv approval for lashings with hook No. 2 and 3







 Art.nr 23.502	 Art.nr 23.506	 Art.nr 23.532	 Art.nr 23.526	 Art.nr 23.531	 Art.nr 23.527	 Art.nr 23.528
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50mm lashing systems 2500/5000 daN

50mm LASHINGS with Ratchets



	Type	1 or 2 part	Lashing capacity	Standard Tension Force (S_{TF}) by S_{HF} 50 daN	Nr. of the end-fitting
	50AS/1	1-part	5000 daN	S_{TF} 500daN	
	50AS/2	2-parts	2500 daN	S_{TF} 250 daN	1, 2, 3, 6, 7, 8, 9

	Type	1 or 2 part	Lashing capacity	Standard Tension Force (S_{TF}) by S_{HF} 50 daN	Nr. of the end-fitting
	50A/1	1-part	5000 daN	S_{TF} 700 daN	
	50A/2	2-parts	2500 daN	S_{TF} 350 daN	1, 2, 3, 6, 7, 8, 9




Tüv approval for lashings with hook No. 2 and 3



 Art.nr 23.502	 Art.nr 23.506	 Art.nr 23.532	 Art.nr 23.526	 Art.nr 23.531	 Art.nr 23.527	 Art.nr 23.528
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50mm lashing systems 2500/5000 daN

50mm LASHINGS with long handle ERGO Ratchets

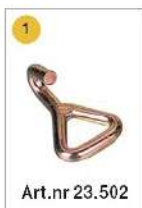
	Type	1 or 2 part	Lashing capacity	Standard Tension Force (S_{TF}) by S_{HF} 50 daN	Nr. of the end-fitting
	50AE/1	1-part	5000 daN	S_{TF} 1100 daN	
	50AE/2	2-parts	2500 daN	S_{TF} 550 daN	1, 2, 3, 6, 7, 8, 9

50mm LASHINGS with easy release Ratchets



	Type	1 or 2 part	Lashing capacity	Standard Tension Force (S_{TF}) by S_{HF} 50 daN	Nr. of the end-fitting
	50AER/1	1-part	5000 daN	S_{TF} 800 daN	
	50AER/2	2-parts	2500 daN	S_{TF} 400 daN	1, 2, 3, 6, 7, 8, 9




Tüv approval for lashings with hook No. 2 and 3





75/100 mm lashing systems

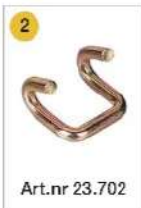
75mm LASHING with Ratchet



	Type	1 or 2 part	Lashing capacity	Standard Tension Force (S_{TF}) by S_{HF} 50 daN	Nr. of the end-fitting
	75A/1	1-part	10000 daN	S_{TF} 1000 daN	
	75A/2	2-parts	5000 daN	S_{TF} 500 daN	2, 3, 9
























100mm LASHING with Ratchet

	Type	1 or 2 part	Lashing capacity	Standard Tension Force (S_{TF}) by S_{HF} 50 daN	Nr. of the end-fitting
	100A/1	1-part	10000 daN	S_{TF} 1000 daN	
	100A/2	2-parts	5000 daN	S_{TF} 500 daN	2, 3, 9














Lashings hooks

LASHINGS HOOKS (PARTS)

	Art.nr 23.207 25mm Double "J" hook for lashing system sb25A and B Maximum LC Capacity 750 daN		Art.nr 23.202 35mm Double "J" hook MBL 3000 kgs for lashing system sb35A and B Maximum LC Capacity 1500 daN		Art.nr 23.532 50mm Double "J" hook MBL 5000 kgs for lashing system SB50A and SB50A Maximum LC Capacity 2500 daN
	Art.nr 23.540 50mm Double "J" hook with keeper MBL 5000 kgs for lashing system sb50A and B Maximum LC Capacity 2500 daN		Art.nr 23.701 75mm Double "J" hook MBL 10000 kgs for lashing system SB75A Maximum LC Capacity 5000 daN		Art.nr 23.208 25mm U-Hook MBL 1000 kgs for lashing system IG25 and SB25B Maximum LC Capacity 500 daN
	Art.nr 23.303 35mm U-hook MBL 3000 kgs for lashing system sb35A and B Maximum LC Capacity 1500 daN		Art.nr 23.506 50mm U-hook MBL 5000 kgs for lashing system sb50A and B Maximum LC Capacity 2500 daN		Art.nr 23.702 75mm U-Hook MBL 10000 kgs for lashing system SB75A Maximum LC Capacity 5000 daN
	Art.nr 23.305 35mm single J-hook MBL 3000 kgs for lashing system sb35A and B Maximum LC Capacity 1500 daN		Art.nr 23.502 50mm single J-hook MBL 5000 kgs for lashing system sb35A and B Maximum LC Capacity 2500 daN		Art.nr 23.229 25mm S-hook MBL 680 kgs for lashing system SBIG25 Maximum LC Capacity 340 daN
	Art.nr 23.204 25mm S-Hook MBL 1500 kgs for lashing systems SBIG35, SBIG50, SB25A and B Maximum LC capacity 750 daN		Art.nr 23.525 50mm end track spring fitting MBL 1500 kgs for lashing systems SBIG35, SBIG50 SB25A and B SB35B SB50C Maximum LC Capacity 750 daN		Art.nr 23.526 50mm Twisted Snap Hook MBL 5000 kgs for lashing systems SB50A and B Maximum LC capacity 2500 daN
	Art.nr 23.505 50mm Flat Snap Hhook MBL 5000 kgs for lashing systems SB50A and B Maximum LC capacity 2500 daN		Art.nr 23.531 50mm Forged Flat Hook MBL 5000 kgs for lashing systems SB50A and B Maximum LC capacity 2500 daN		Art.nr 23.528 50mm Triangel Forged Hook MBL 5000 kgs for lashing systems SB50A And B Maximum LC capacity 2500 daN
	Art.nr 23.704 75mm Triangel Forged Hook MBL 10000 kgs for lashing systems SB75A Maximum LC capacity 5000 daN		Art.nr 23.301 Forged Hook with Keeper MBL 2500 kgs for lashing systems SBIG, SB25 SB35B Maximum LC capacity 1250 daN		Art.nr 23.219 25mm D-Ring MBL 800 kgs for lashing systems SBIG25 and B25B Maximum LC capacity 400 daN
	Art.nr 23.527 50mm D-Ring MBL 5000 kgs for lashing systems SB50A And B Maximum LC capacity 2500 daN		Art.nr 23.558 50mm Flat D-Ring MBL 5000 kgs for lashing systems SB50A and B Maximum LC capacity 2500 daN		

Lashings Ratchets

RATCHETS

	<p>Art.nr 23.706</p> <p>75mm Ratchet for system sb75 Maximum LC Capacity 5000 daN</p>		<p>Art.nr 23.509</p> <p>50mm Ergo-Ratchet for system sb50A and B Maximum LC Capacity 2500 daN</p>		<p>Art.nr 23.513</p> <p>50mm Easy-Release-Ratchet for system sb50A and B Maximum LC Capacity 2500 daN</p>
	<p>Art.nr 23.503</p> <p>50mm Ratchet for system sb50A and B Maximum LC Capacity 2500 daN</p>		<p>Art.nr 23.507</p> <p>50mm Short-Ratchet for system sb50A and B Maximum LC Capacity 2500 daN</p>		<p>Art.nr 23.504</p> <p>50mm Light Duty Ratchet for system sb50L Maximum LC Capacity 1000 daN</p>
	<p>Art.nr 23.315</p> <p>35mm Ratchet for system sb35A Maximum LC Capacity 1500 daN</p>		<p>Art.nr 23.314</p> <p>35mm Ratchet for system sb35B Maximum LC Capacity 1000 daN</p>		<p>Art.nr 23.202</p> <p>25mm Ratchet for system sb25A Maximum LC Capacity 750 daN</p>
	<p>Art.nr 23.316</p> <p>25mm Stainless steel Ratchet for system sb25A Maximum LC Capacity 750 daN</p>		<p>Art.nr 23.201</p> <p>25mm Ratchet for system sb25B Maximum LC Capacity 400 daN</p>		<p>Art.nr 23.203</p> <p>25mm Black Ratchet for system sb25B Maximum LC Capacity 400 daN</p>
	<p>Art.nr 23.524</p> <p>50mm Cambuckle for system sbig50 Maximum LC Capacity 600 daN</p>		<p>Art.nr 23.300</p> <p>35mm Cambuckle for system sbig35 Maximum LC Capacity 250 daN</p>		<p>Art.nr 23.218</p> <p>25mm Cambuckle for system sbig25 Maximum LC Capacity 125 daN</p>



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UNITEX PRODUCTION EQUIPMENT RO SRL
Vrancea, Romania

Email: info@unitexproduction.com
Tel: 004 0337.102.233

unitexproduction.com

Member of Unitex Group