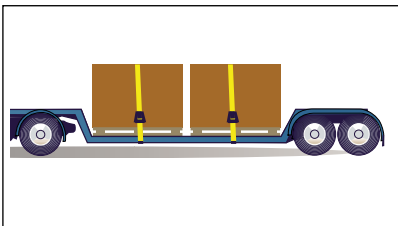
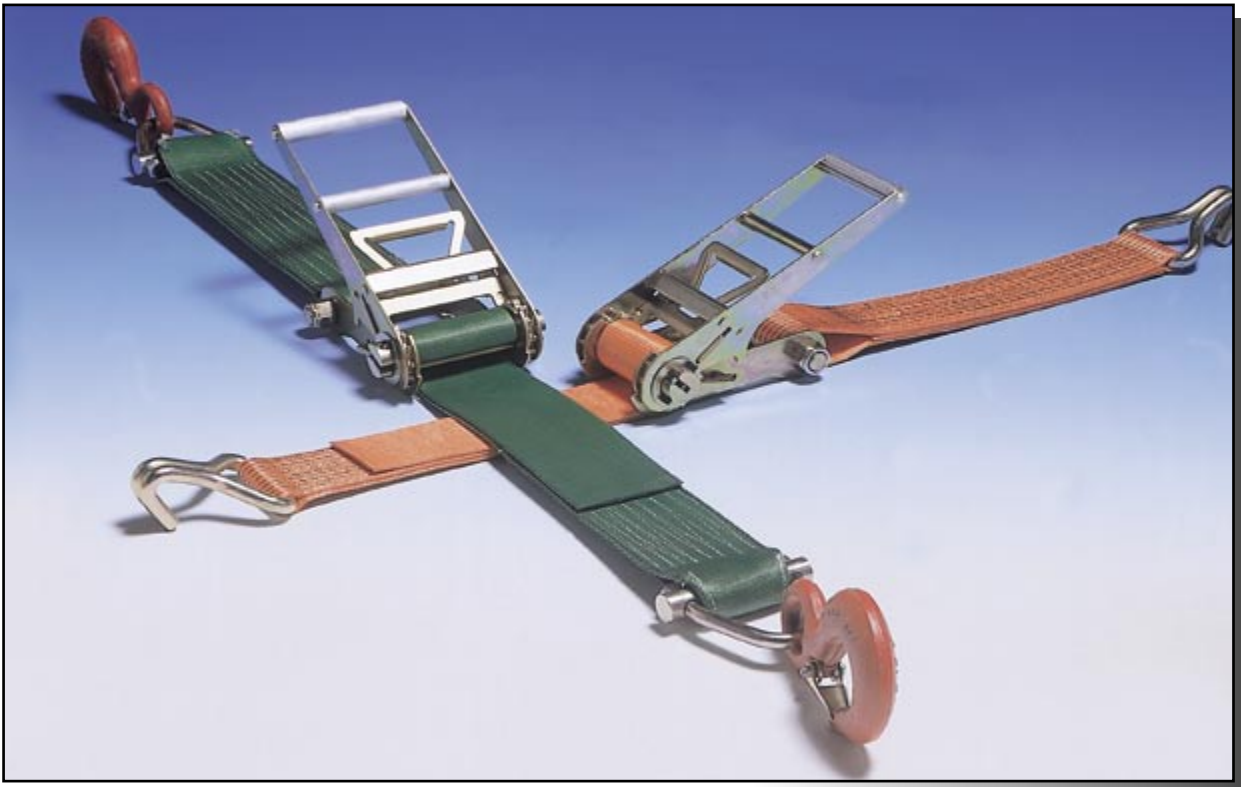




CARGO RESTRAINT SYSTEMS

CARGO LASHINGS



FOR PLANT & MACHINERY TRANSPORT

LOAD-LOK® high strength polyester webbing lashing systems for exceptional loads. Much lighter, easier and more user friendly than chain systems yet very strong. Suitable for road/rail/sea/air. Can be supplied with various end fittings suitable for the majority of lashing points and produced at a length 'made to measure'.

LC / BS (daN)*

	<p>6150 / 13000 12300 / 26000</p> <p>Lashing with: Ratchet type 980 & hook 1069</p> <p>Webbing width: 100 mm.</p>
--	---

	<p>4500 / 10000 9000 / 20000</p> <p>Lashing with: Ratchet type 975 & hook 1067</p> <p>Webbing width: 75 mm.</p>
--	---

*) In accordance with EN 12195-2: **LC** = LASHING CAPACITY.

BS = Breaking Strength.

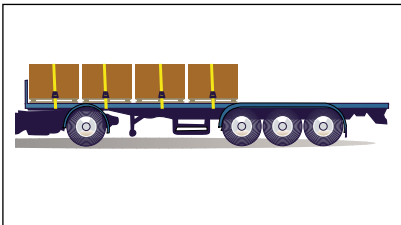
See also page 5.27.





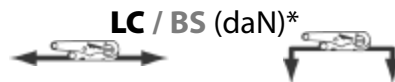
CARGO RESTRAINT SYSTEMS

CARGO LASHINGS



GENERAL HEAVY HAULAGE

LOAD-LOK® 50 mm high strength polyester webbing lashing systems for heavy general loads. Easy – quick – secure lashing for flats, tilts, containers, rail wagons. Suitable for road/rail/ sea/air. Can be supplied with various end fittings suitable for the majority of lashing points and produced at a length 'made to measure'.



	2000 / 5000 4000 / 10000
	Lashing with: Ratchet type 811 (or 911) & end fitting as below Webbing width: 50 mm.

	2000 / 5000 4000 / 10000
	Lashing with: Ratchet type 910 & end fitting as below Webbing width: 50 mm.

	2000 / 4000 4000 / 8000
	Lashing with: Ratchet type 914 & end fitting as below Webbing width: 50 mm.

END FITTINGS:

1065	1066	1019	1014	1075	1210	1209	3018

ATTENTION: Changing one or more lashing components may result a change in LC value of the total lashing assembly! (See also page 5.25)

SECURING OUR FUTURE TOGETHER

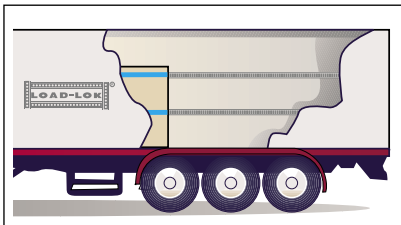
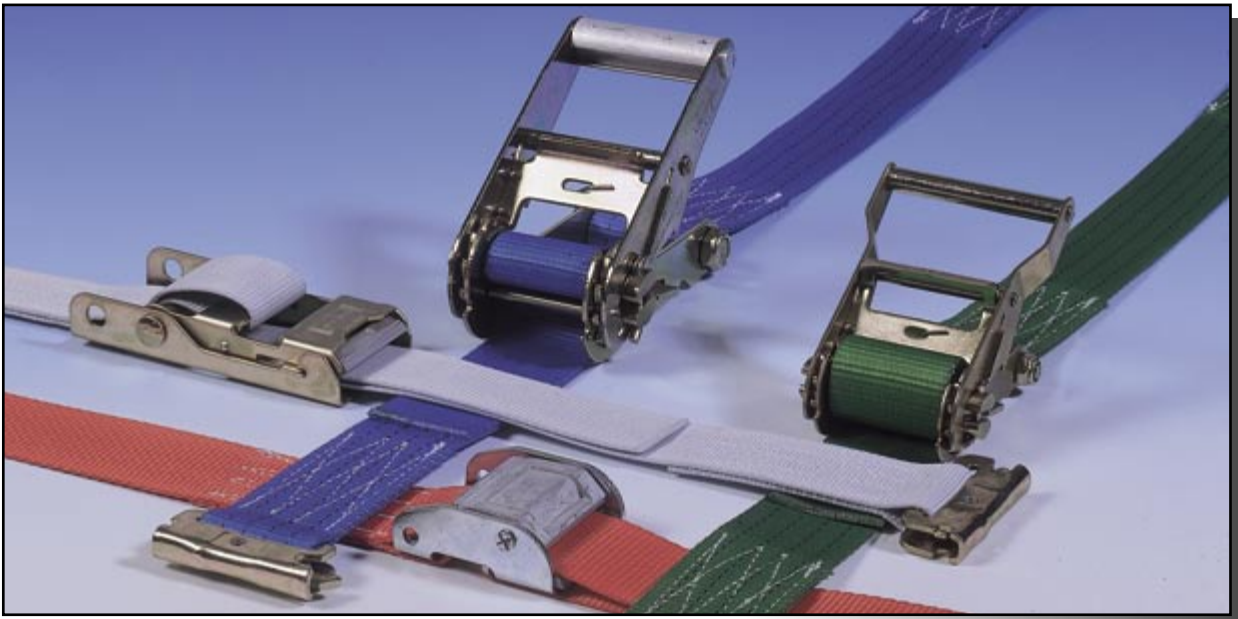
*) In accordance with EN 12195-2: **LC = LASHING CAPACITY.** **BS = Breaking Strength.** See also page 5.27.





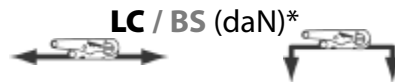
CARGO RESTRAINT SYSTEMS

CARGO LASHINGS



LIGHT GOODS DISTRIBUTION

LOAD-LOK® 50mm high strength polyester webbing lashing systems for light and medium goods/box van distribution. Easy - quick - secure lashings compatible with cargo restraint tracks. Suitable for road/rail/sea/air. Can be supplied with various end fittings suitable for the majority of lashing points and produced at a length 'made to measure'.



	<p>675 / 1350 1350 / 2700</p> <p>Lashing with: Ratchet type 910 + end fitting Webbing width: 50 mm.</p>
	<p>675 / 1350 1350 / 2700</p> <p>Lashing with: Ratchet type 916 + end fitting Webbing width: 50 mm.</p>
	<p>675 / 1350 1350 / 2700</p> <p>Lashing with: Buckle type 912 + end fitting Webbing width: 50 mm.</p>
	<p>675 / 1350 1350 / 2700</p> <p>Lashing with: CAM Buckle type 907 + end fitting Webbing width: 50 mm.</p>

END FITTINGS:

					1825 1826
		Universal Hook			3009 2010 1803 3008

CAUTION: Changing one or more lashing components may result a change in LC value of the total lashing assembly! (See also page 5.25)

SECURING OUR FUTURE TOGETHER

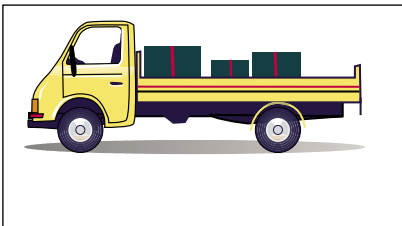
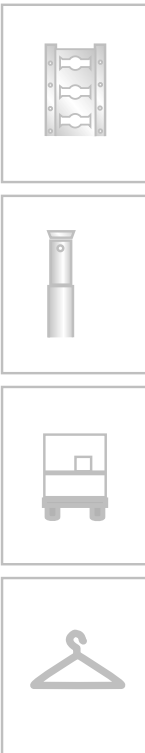
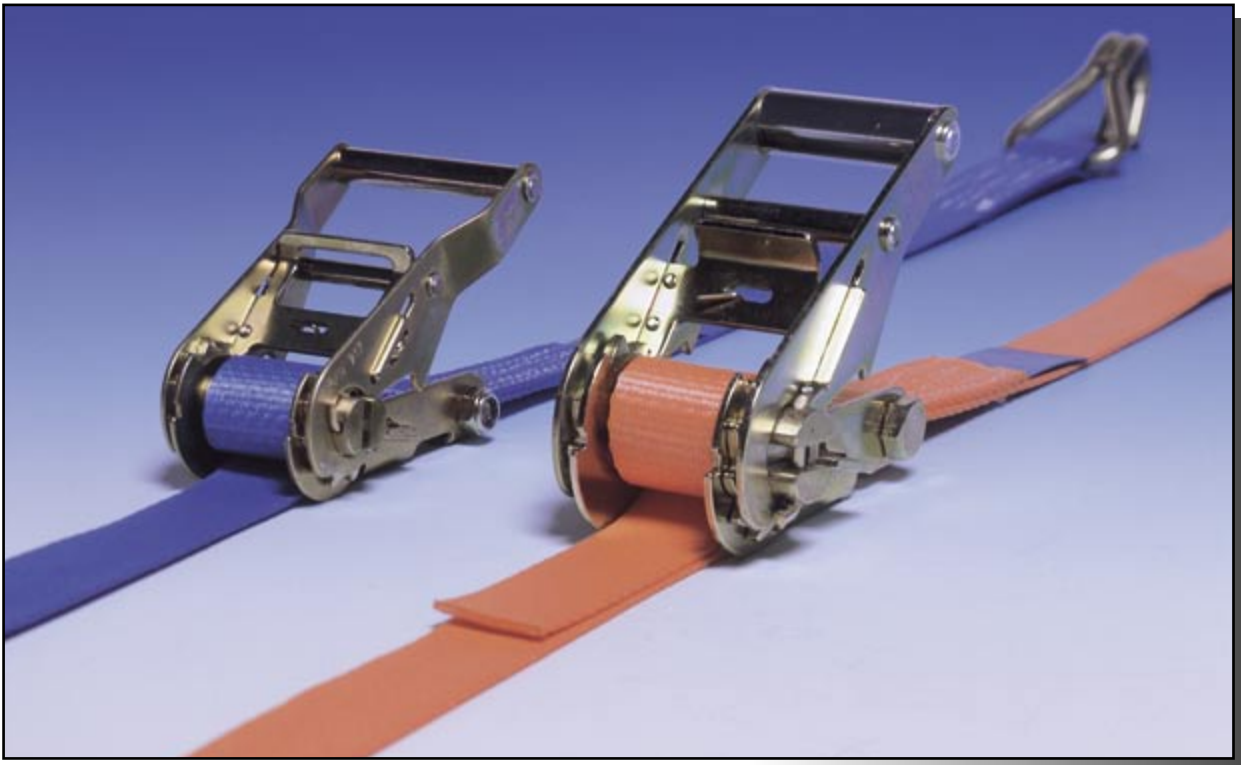
*) In accordance with EN 12195-2: **LC = LASHING CAPACITY.** **BS = Breaking Strength.** See also page 5.27.





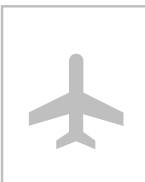
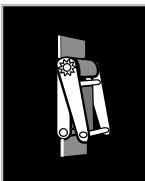
CARGO RESTRAINT SYSTEMS

CARGO LASHINGS

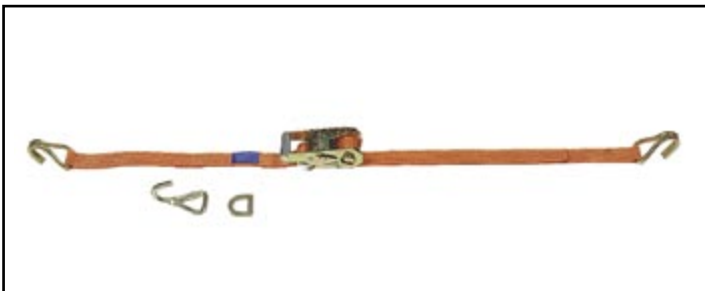


LIGHT/MEDIUM HAULAGE

LOAD-LOK® 35mm high strength polyester webbing lashing systems for light and medium haulage requirements. Easy – quick – secure lashings. Suitable for road/rail/sea/air. Can be supplied with various end fittings suitable for the majority of lashing points and produced at a length 'made to measure'.



LC / BS (daN)*



1230 / 3000 2460 / 6000

Lashing with:
Ratchet type **908** & hook **1004**
or hook **1013**, ring **3016**

Webbing width: 35 mm.
Standard colour: orange.



960 / 2000 1920 / 4000

Lashing with:
Ratchet type **917** & hook **1004**
or hook **1013**, ring **3016**

Webbing width: 35 mm.
Standard colour: blue.

*) In accordance with EN 12195-2:

LC = LASHING CAPACITY.

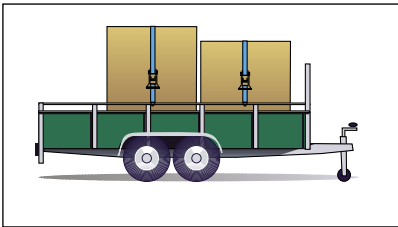
BS = Breaking Strength.

See also page 5.27.



CARGO RESTRAINT SYSTEMS

CARGO LASHINGS



LIGHT HAULAGE

LOAD-LOK® 25mm high strength polyester webbing lashing systems for light haulage. Easy – quick – secure lashings. Can be supplied with various end fittings suitable for the majority of lashing points and produced at a length 'made to measure'.

LC / BS (daN)*



665 / 1500 1330 / 3000

Lashing with:
Ratchet type **909**

Standard lengths: 3/5/7 m.
Webbing width: 25 mm.
Standard colours: green/blue/red






350 / 700 700 / 1400

Lashing with:
Ratchet type **906**

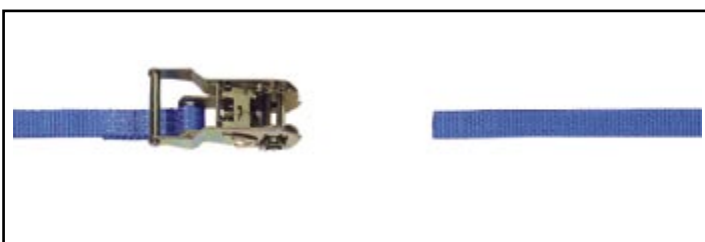
Standard length: 5 m.
Webbing width: 25 mm.
Standard colour: orange.

END FITTINGS:

 1002	 1202	 1201	 3014
--	--	--	--

CAUTION: Changing one or more lashing components may result a change in LC value of the total lashing assembly! (See also page 5.25)

BS (daN)*




3000

Endless Lashing with:
Ratchet type **909**

Webbing width: 25 mm.
Standard colour: blue.

*) In accordance with EN 12195-2:

LC = LASHING CAPACITY.

BS = Breaking Strength.

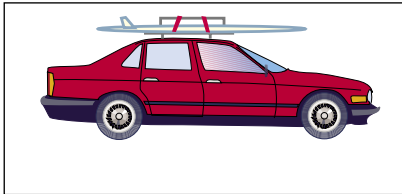
See also page 5.27.





CARGO RESTRAINT SYSTEMS

CARGO LASHINGS



ROOF RACK LASHINGS

LOAD-LOK® 25mm high strength polyester webbing lashing systems for light haulage. Easy – quick – secure lashings. Can be supplied with various end fittings suitable for the majority of lashing points and produced at a length 'made to measure'.

BS (daN)



		<p>500</p> <p>Endless Lashing with CAM Buckle type 804E Webbing width: 25 mm.</p>
		<p>700</p> <p>Endless Lashing with CAM Buckle type 803E Webbing width: 25 mm.</p>
		<p>900</p> <p>Endless Lashing with CAM Buckle type 905E Webbing width: 25 mm.</p>
		<p>1200</p> <p>Endless Lashing with ROLL BAR Buckle type 802E Webbing width: 50 mm.</p>
		<p>1200</p> <p>only available on request</p> <p>Endless Lashing with ROLL BAR Buckle type 801E Webbing width: 25 mm.</p>
		<p>1400</p> <p>Endless Lashing with Ratchet type 906E Webbing width: 25 mm.</p>
		<p>1500</p> <p>Endless Lashing with CAM Buckle type 605E Webbing width: 25 mm.</p>





CARGO RESTRAINT SYSTEMS

CARGO LASHINGS



LOAD-LOK® 35 & 50mm lashing for car transporters and recovery vehicles.



35 mm LASHING FOR CAR TRANSPORTERS & RECOVERY VEHICLES

				<p>35 mm System Standard Length: 2.00 m</p>		
194801	908	194702 of 1013		2170 of 2180		194802

50 mm LASHING FOR CAR TRANSPORTERS & RECOVERY VEHICLES

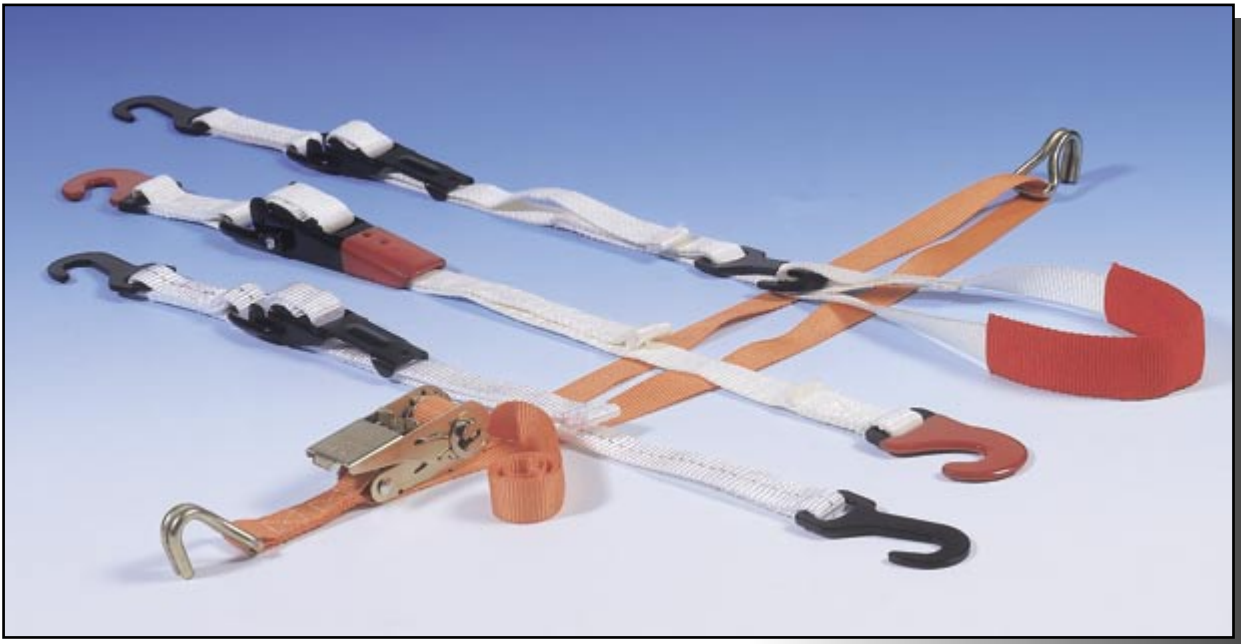
				<p>50mm System Standard Length: 2.00 m</p>		
194901	910	195002 of 1014		2175 of 2180		194902





CARGO RESTRAINT SYSTEMS

CARGO LASHINGS



LOAD-LOK® 25mm high strength polyester webbing car lashings for the lashing of cars on board high volume car carrying deep sea vessels.

BS (daN)



	<p>1500</p> <p>Car lashing type 901-1203 Standard Length: 1.80 m</p> <p>Webbing width: 25 mm.</p>
--	--

	<p>1500</p> <p>Car lashing type 901-1203-loop Standard Length: 1.80 m</p> <p>Webbing width: 25 mm.</p>
--	---

	<p>1500</p> <p>Car lashing type 906-1002-DU Standard Length: 1.80 m</p> <p>Webbing width: 25 mm.</p>
--	---

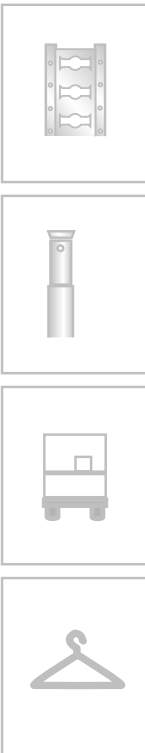
	<p>2000</p> <p>Car lashing type 904-1205 Standard Length: 1.80 m</p> <p>Webbing width: 28 mm.</p>
--	--





CARGO RESTRAINT SYSTEMS

CARGO LASHINGS



CURTAIN SIDER BOTTOM STRAPS



TYPE 961-1064
(Stainless Steel)
Stainless Steel buckle, also available in black plastic coated Steel. Buckle with long handle for easy operating. Bottom Strap width: 50 mm.



TYPE 970-1063
(Stainless Steel)
Stainless Steel buckle with pull noose for quick and easy unlocking. Zinc plated buckle available on request. Bottom Strap width: 45 mm



TYPE 972-1063
(Stainless Steel)
Stainless Steel buckle with push mechanism to unlock. Bottom Strap width: 50 mm.



SHROUDS
TYPE 2130
Black plastic shrouds. Compatible with 2150.



CONNECTOR
TYPE 2150
Plastic connector with Stainless Steel bolts and self boring nuts.



PVC COATED WEBBING
38, 46 and 70 mm PVC Weldable Webbing. The 46 mm webbing is also available in extra strong quality. Colours: black and white. Other colours on request.





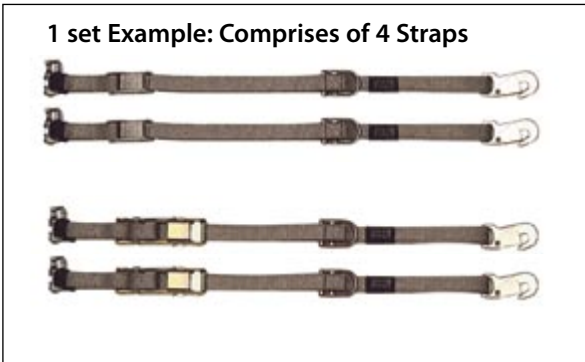
CARGO RESTRAINT SYSTEMS

CARGO LASHINGS



SURE-LOK™ WHEELCHAIR RESTRAINT SYSTEMS

1 set Example: Comprises of 4 Straps



End Fitting:

FE8264-1 for Combitrack

5013 for 'L'Track & FE200709

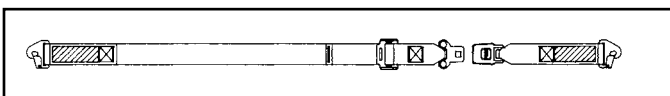


See the Kinedyne Sure-Lok™ brochure for the full range

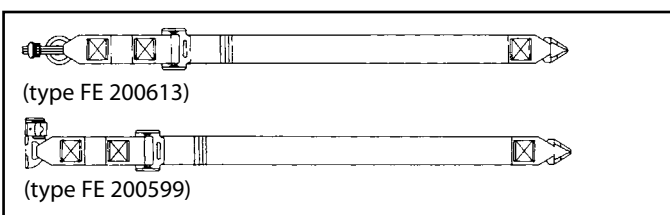
SURE-LOK™ SEAT BELTS FOR WHEELCHAIR OCCUPANT RESTRAINT EXTRA'S

Examples:

LAP BELT FE 200595



SHOULDER BELTS

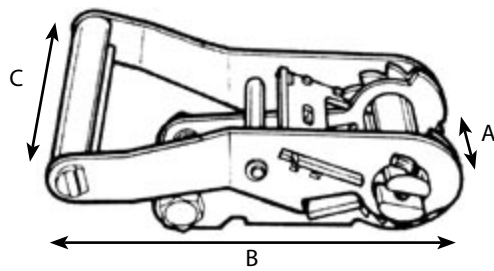
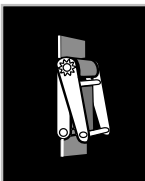
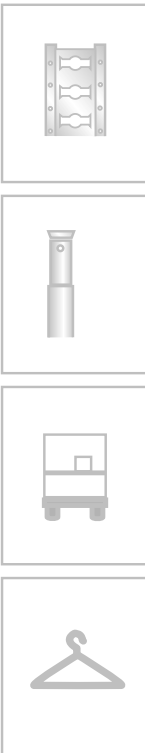
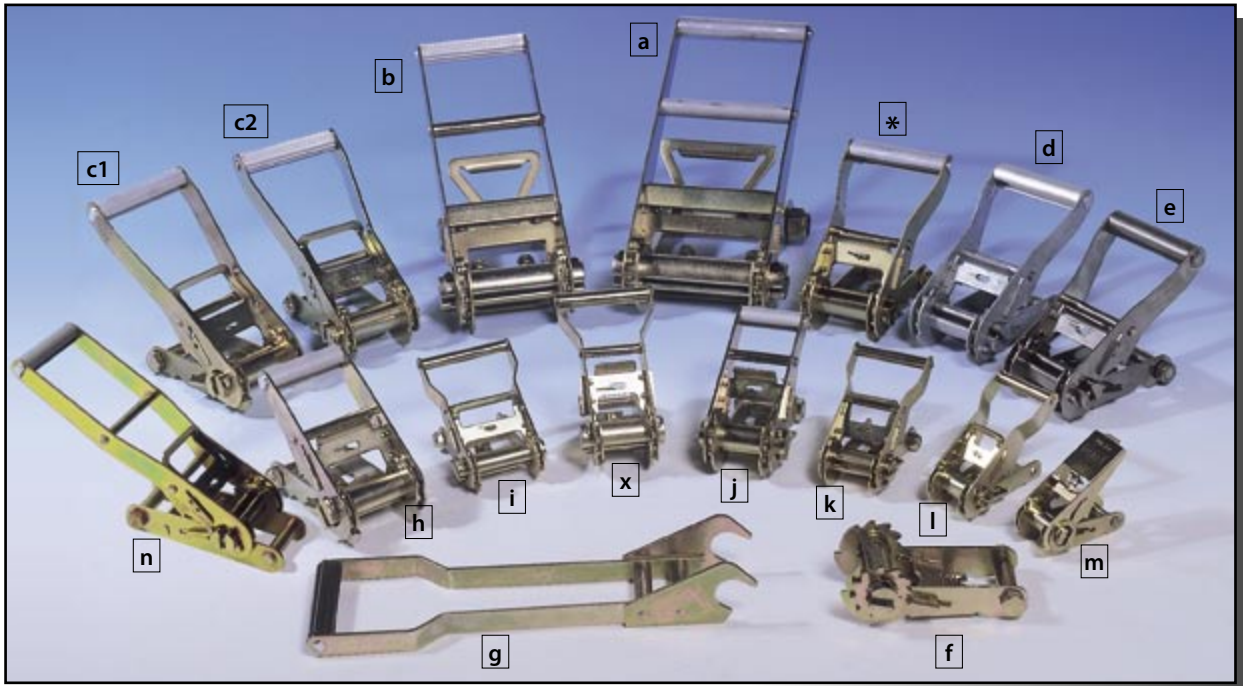


Seat Belt anchored to Wheelchair tie down



INERTIA REEL SYSTEMS ALSO AVAILABLE – Please refer to Sure-Lok™ Catalogue

CARGO LASHINGS



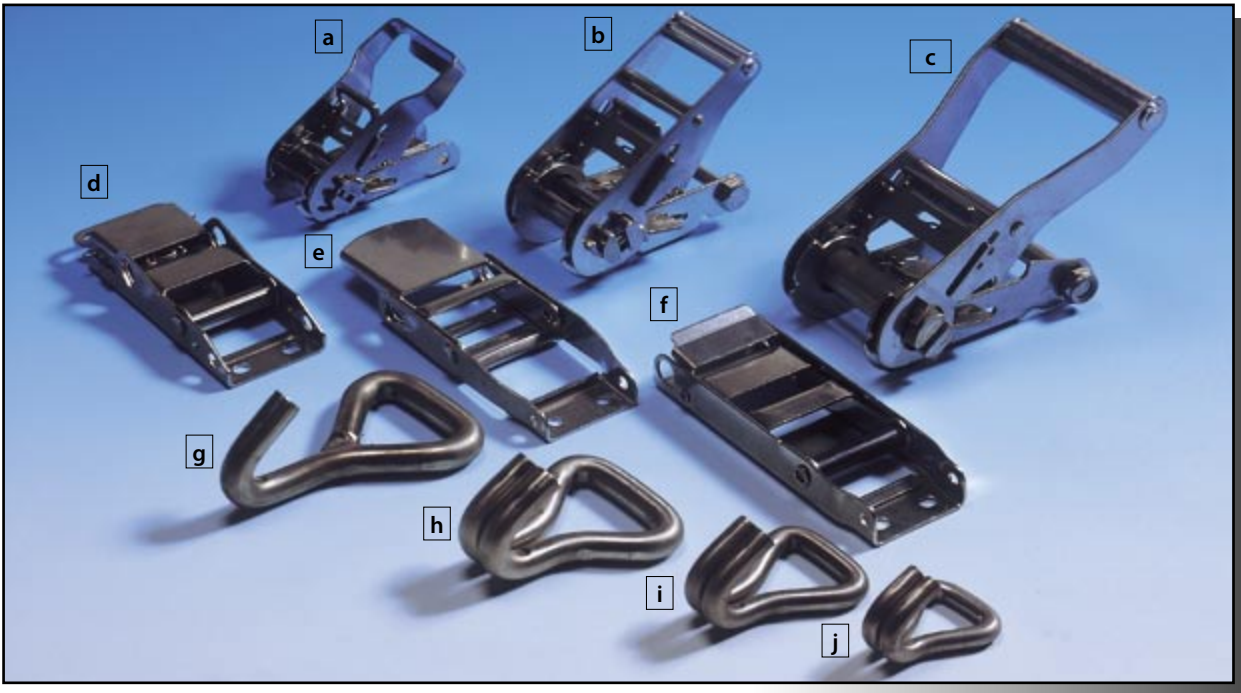
A = Internal Width
 B = Overall Length
 C = Width of Handgrip
RVS = Stainless Steel

Buckles can be supplied in NATO Drab subject to quantity and type

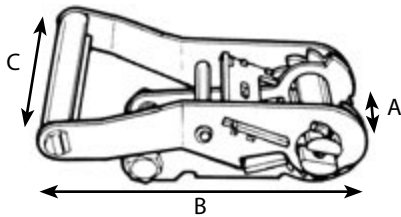
Ref.	Art.no	Webbing Width	A mm	B mm	C mm	Breaking strength daN
a	980	100	105	330	130	13000
b	975	75	78	325	105	10000
c1	911	50	54	235	100	6000
c2	811	50	54	235	100	5000
-	812*	50	54	235	100	5000
d	931	50	54	195	96	6000
e	930 (=RVS)	50	54	195	96	4000
f	914	50	52	141	-	4000
g	914H	50	-	360	105	-
h	910	50	55	165	70	6000
i	916	50	53	131	62	2000
j	908	35	39	157	55	4000
k	917	35	37	131	62	2000
l	909	25	28	131	57	1500
m	906	25	32	110	31	700
n	919Ergo	50	53	243	96	5000
-	919ErgoEL	50	53	300	102	5000
x	Available on request: 911 with short handle, 908 with wide handle.					

*) With Safety Release

CARGO LASHINGS

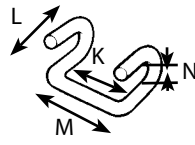
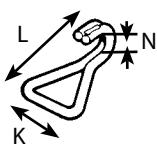


STAINLESS STEEL (304) BUCKLES and HOOKS



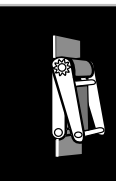
A = Internal Width
B = Overall Length
C = Width of Handgrip

Ref	Art.no	Webbing Width	A mm	B mm	C mm	Breaking strength daN
a	933	25	28	123	63	1200
b	934	35	40	153	63	3000
c	930	50	53	195	96	4000
d	970	45	48	158	57	1250
e	961	50	51	185	63	900
f	972	50	58	158	63	1000

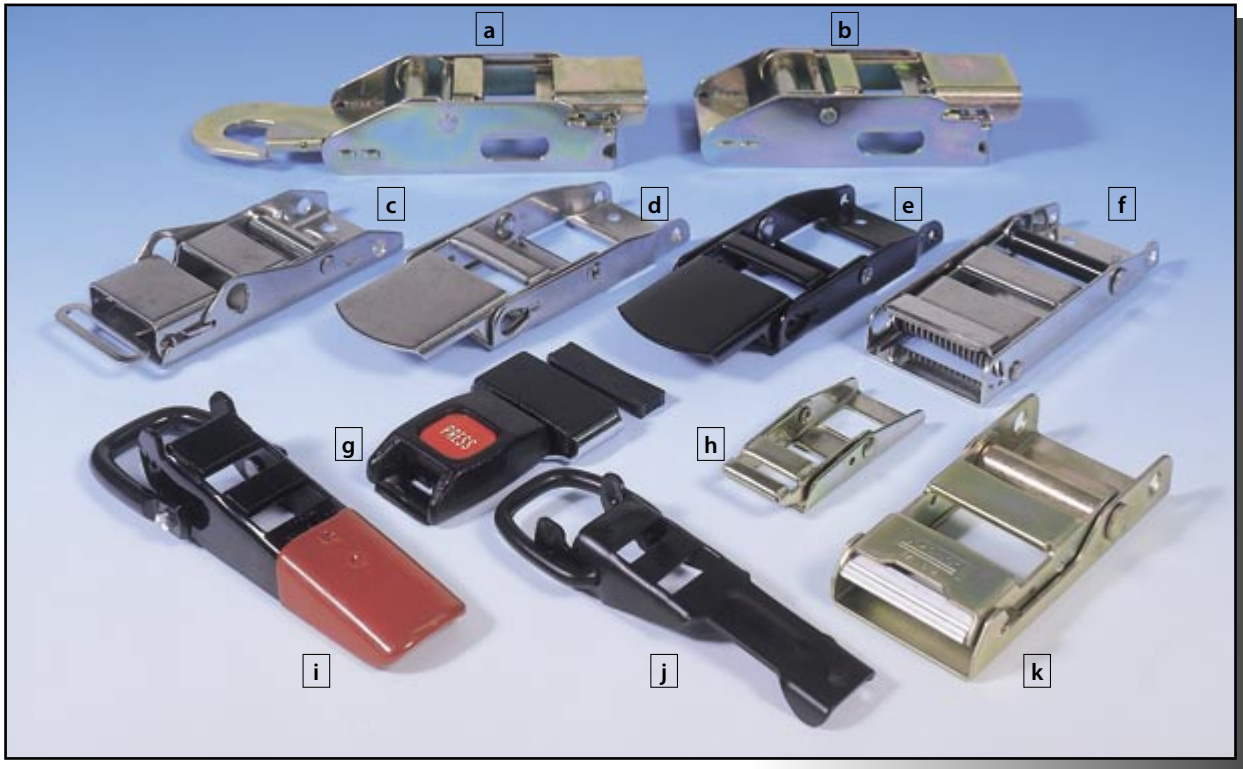


K = Internal Width
L = Overall Length
M = Overall Width
N = throat
O = material size

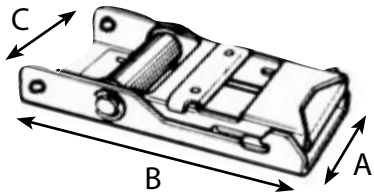
Ref	Art.no	Webbing Width	K mm	L mm	M mm	N mm	O mm	Breaking strength daN
g	1034	50	54	131	82	35	15	3500
h	1036	50	53	99	79	30	14	5000
i	1033	35	37	84	57	29	11	3000
j	1032	25	27	64	45	23	9	2000



CARGO LASHINGS



OVERCENTRE BUCKLES

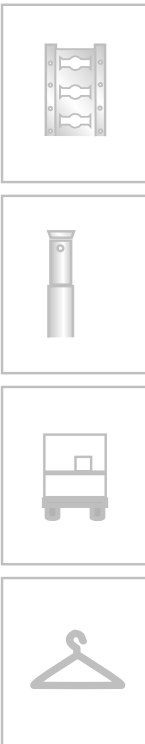
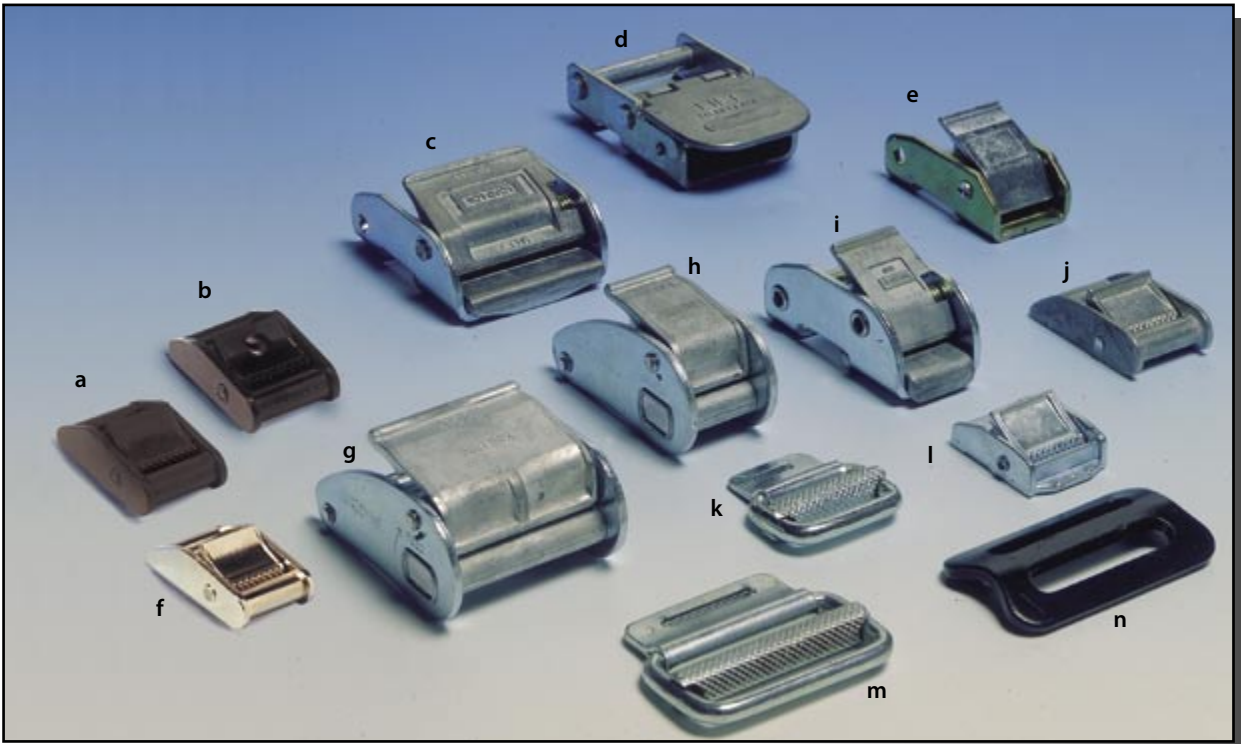


A = internal width
B = overall length
C = total width
RVS = Stainless Steel 304

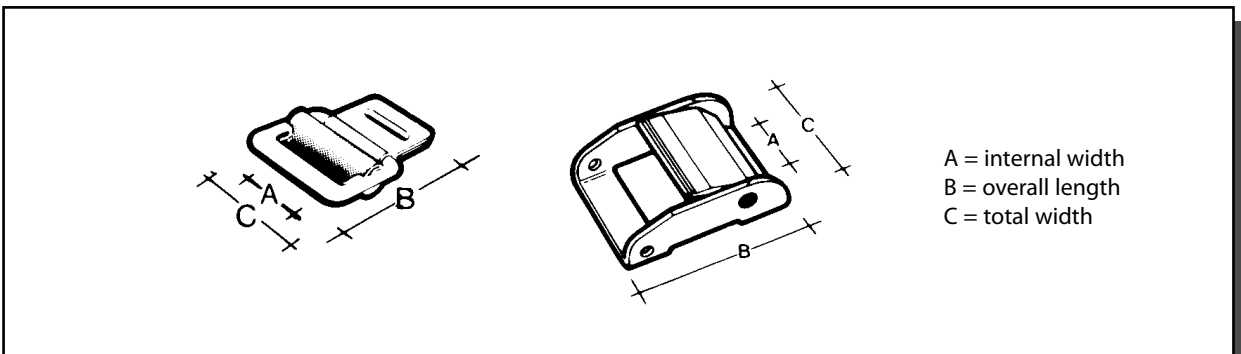
Ref	Art.no.	Webbing Width	A mm	B mm	C mm	Breaking strength daN
a	923	45	46	240	59	2250
b	913	45	46	169	59	2250
c	970 (=RVS)	45	48	158	57	1250
d	961 (=RVS)	50	51	185	63	900
e	960	50	51	175	63	860
f	972 (=RVS)	50	58	158	63	1000
g	900	50	45	96	63	2000
h	905	25	32	99	36	450
i	904	25	30	180	60	2000
j	901	25	26	160	55	1500
k	912	50	52	140	62	1800



CARGO LASHINGS



CAM BUCKLES



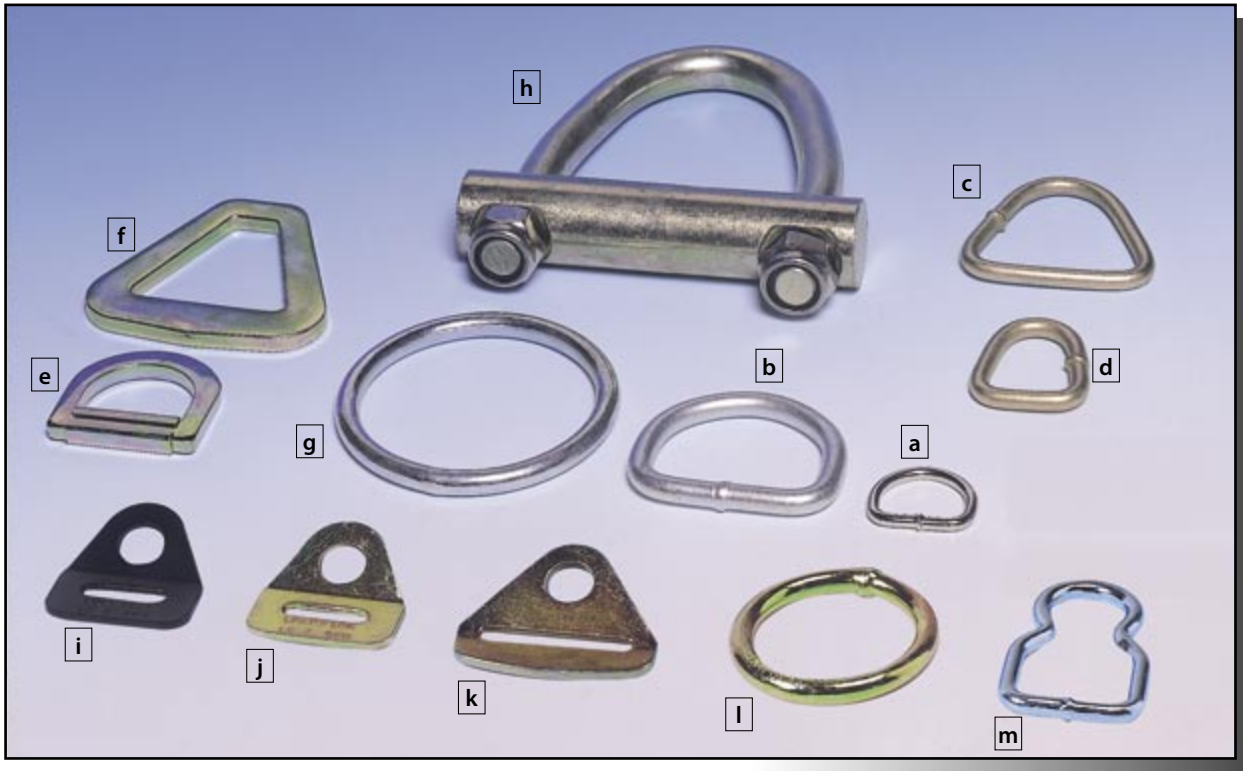
Ref	Art.no.	Webbing Width	A mm	B mm	C mm	Breaking strength daN
a	803 OD	25	26	51	32	350
b	803 ZW	25	26	51	32	350
c	907	50	54	74	60	1350
d	FE 70731	45	46	93	56	1350
e	605	25	28	64	35	650
f	805	25	26	51	32	350
g	43010	50	52	78	59	1150
h	606	25	28	71	34	1000
i	607**	25	27	78	33	1150
j	803	25	26	51	32	350
k	801**	25	30	49	44	600
l	804	25	26	44	30	250
m	802	50	53	57	68	600
n*	806*	50	52	43	75	1800



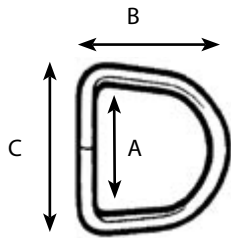
*) black epoxy coated
**) available on request



CARGO LASHINGS



'D' RINGS



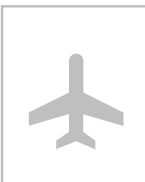
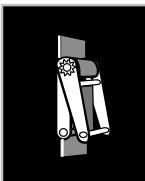
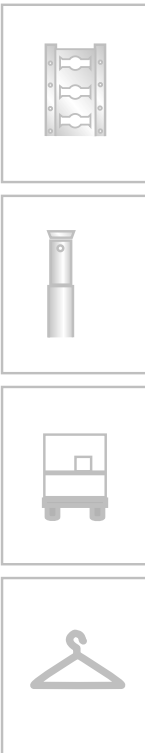
A = internal width
 B = length
 C = width
 D = material size

Ref	Art.no	Webbing Width	A mm	B mm	C mm	D mm	Breaking strength daN
a	1703	25	27	28	34	4	750
b	1705	50	52	55	65	7	1250
c	1706	50	53	60	66	6,5	2250
d	3014	25	26	44	37	6,4	2250
e	3016	35	36	47	50	6	3000
f	3018	50	53	79	84	6,4	5000
g	1720*	50	76	91	91	8	-
h	1068	75/100	83	119	120	15/30	13000
i	1214 ZW	25	27	49	46	2,5	1500
j	1214	25	27	49	46	2,5	1500
k	1215	50	51	54	68	4	1800
l	1708	35	44	59	59	7	2300
m	1707	25	32	79	44	6	-

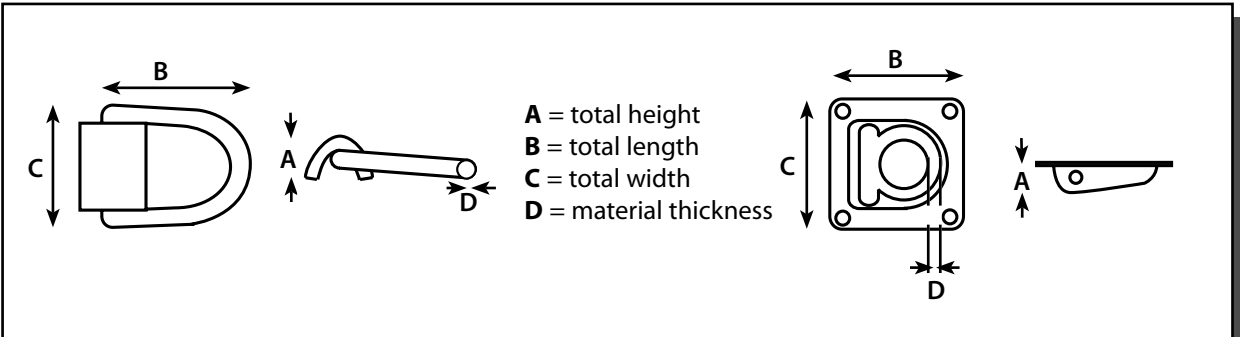
*) available on request



CARGO LASHINGS



FLOOR/DECK FITTINGS

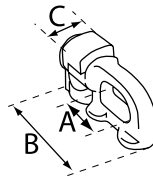
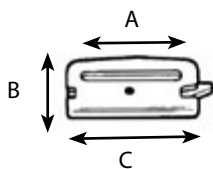


Ref	Art.no.	Weight	A mm	B mm	C mm	D mm	Breaking strength daN
a	3801	0.47 kg	21	105	105	10	800
b	3802	0.90 kg	28/55	90	90	12	6000
c	3803	0.90 kg	28	90	90	12	6000
d	3804	0.55 kg	24	71	117	10	2500
e	3805	0.90 kg	29	72	95	12	2500
f	3806	0.65 kg	30	172	65	12	2500
g	32202	0.15 kg	18	89	89	6	1361
h	32206	0.10 kg	18	89	89	-	2268
i	32210	0.13 kg	16	89	89	6	1361
j	7190	0.09 kg	12	100	100	6	± 500
k	3850	1.38 kg	36	131	136	19	20.000

CARGO LASHINGS



END FITTINGS FOR STRAP ASSEMBLIES

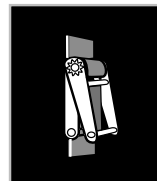
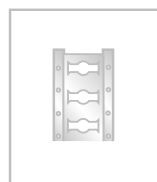
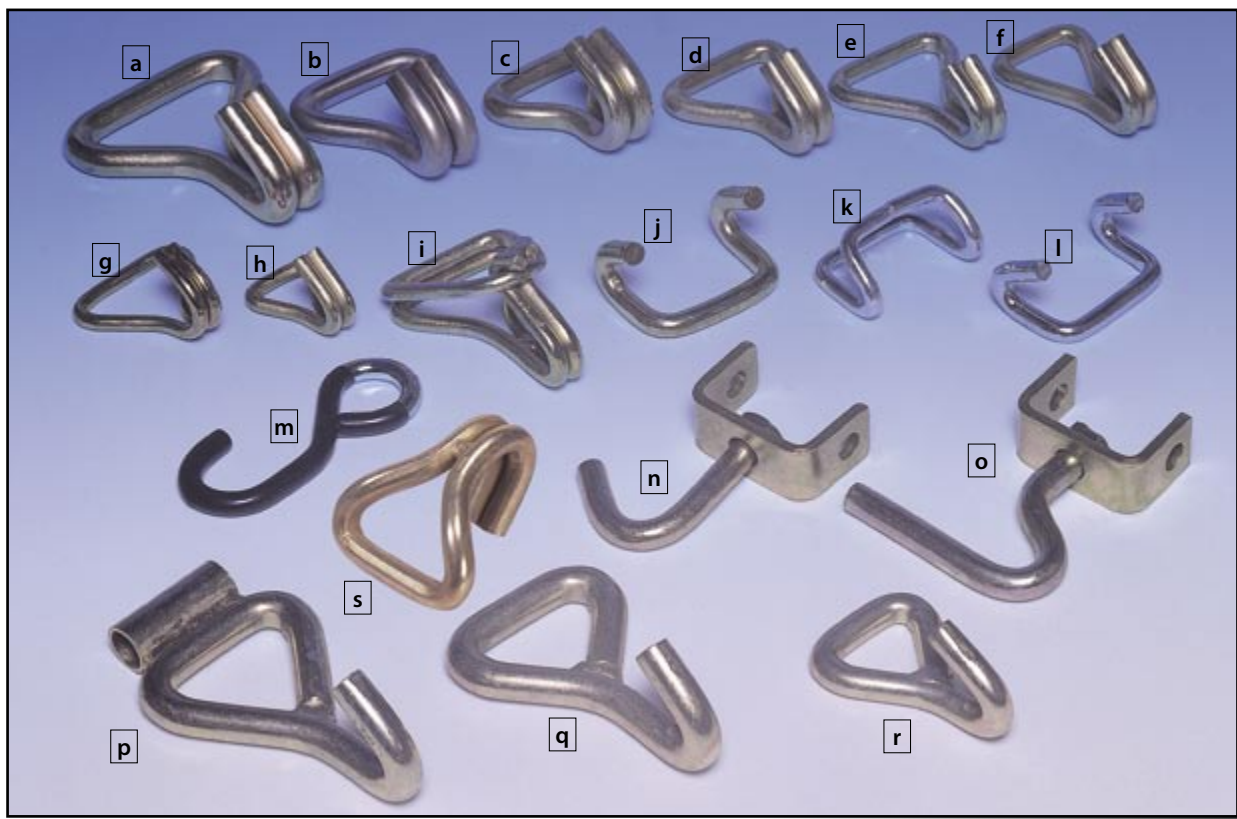


A = internal width
B = total length
C = total width

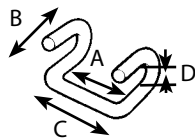
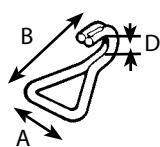
Ref	Art.no.	Webbing Width	A mm	B mm	C mm	Breaking strength daN	Compatible with LOAD-LOK® TRACKS
a	5012	50	21	62	25	2250	5001-5002-5004-5008
b	5014	50	21	62	25	2250	5001-5002-5004-5008
c	5013	50	21	62	25	2250	5001-5002-5004-5008
d	5018	25	-	32	18	1800	5001-5002-5004-5008
e	1828	50	56	147	71	3000	1806
f	1827	50	50	64	40	1800	1806
g	1823	50	50	68	27	1250	1806
h	1821	45	46	65	27	1000	1805
i	1825	50	50	77	25	1350	3009/2010-2020/1803
j	1826	50	51	76	31	1350	3009/2010-2020/1803
k	1829	50	51	76	31	2000	3009/2010-2020/1803
l	32620	-	-	63	44	1800	end fitting 5018 (d)
m	5030	-	-	40	18	-	5001-5002-5004-5008



CARGO LASHINGS



HOOKS

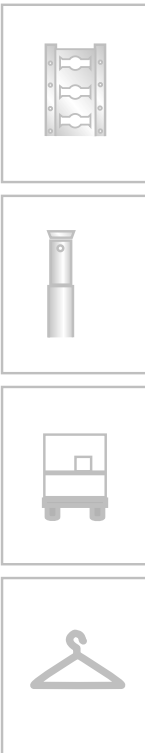


A = internal width
B = total length
C = total width
D = throat
E = material size
RVS = Stainless Steel

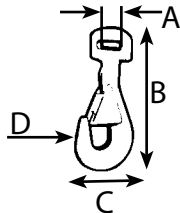
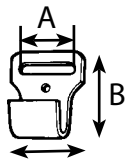
Ref	Art.no.	Webbing Width	A mm	B mm	C mm	D mm	E mm	Breaking strength daN
a	1067	75	75	120	115	25	16	10000
b	1036 (=RVS)	50	53	99	79	20	14	5000
c	1006	50	51	83	73	20	12	5000
d	1016	50	51	83	73	20	12	4000
e	1007	50	51	85	70	20	9	4000
f	1004	35	37	83	55	24	9	3000
g	1005	50	51	69	65	25	7	1000
h	1002	25	25	58	39	18	7	1500
i	1008	50	51	88	68	20	8	5000
j	1065	50	52	58	78	15	11	5000
k	1063	50	52	36	70	12	9	1350
l	1064	50	53	48	74	12	9	1350
m	1202	25	27	120	54	25	12	550
n	194901	50	55	110	67	25	12	3000
o	195002	50	55	120	67	20	12	3000
p	1015	-	56	127	80	24	12	5000
q	1014	50	56	127	80	24	15	5000
r	1013	35	38	102	60	24	9	3000
s	1006 SP	50	50	82	72	28	11	5000



CARGO LASHINGS



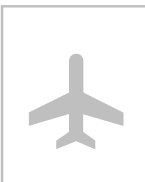
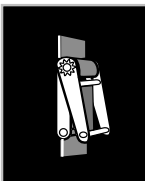
HOOKS



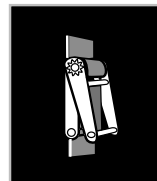
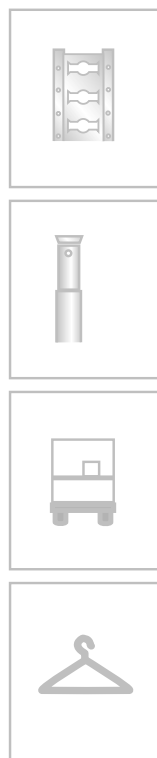
A = internal width
B = total length
C = total width
D = opening
E = material size

Ref	Art.no	Webbing Width	A mm	B mm	C mm	D mm	E mm	Breaking strength daN
a	1069*	75/100	80	135	130	32	13	13000
b	7128	60	60	155	85,4	44	13,5	12000
c	1075	50	61	170	85	22	13	5000
d	1021	75	56	96	83	16	6	6500
e	1012	50	50	73	65	16	5	3000
f	1213	25	26	30	40	7	2,5	450
g	1210	50	50	153	72	24	6	5000
h	1207	45	48	134	62	18	4	2250
i	1209	50	50	153	72	24	6	5000
j	1204	45	46	108	64	23	5	2250
k	1201	25	27	95	40	13	4	2500
l	1205	25	27	91,5	50	20,5	5,7	2000
m	1203	25	26	93,5	40	20,5	4	1500

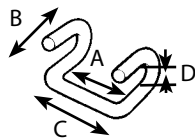
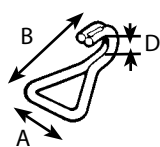
*) Also available without hook (= Art.no 1068).



CARGO LASHINGS



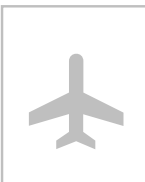
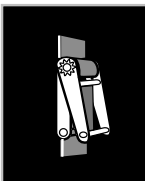
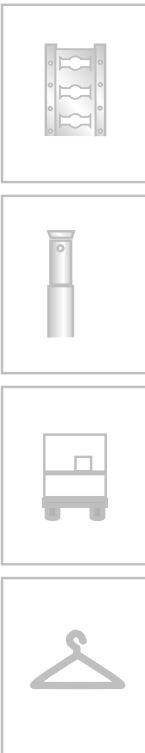
HOOKS



A = internal width
B = total length
C = total width
D = opening
E = material size

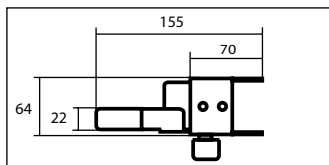
Ref	Art.no.	Webbing Width	A mm	B mm	C mm	D mm	E mm	Breaking strength daN
a	1222	25	15	99	49	10	10	-
b	1220	25	15	99	50	12	10	700
c	1024	50	50	170	100/22	25	12	4000
d	1020	50	55	146	88	32	15	5000
e	1019	50	51	112	71	29	11	5000
f	1018	50	50	87	72	19	11	5000
g	1006 SP	50	50	82	72	28	11	5000
h	1001	25	25	44	36	14	6	1300
i	1023	50	50	65	100	-	7	5000
j	1022	50	80	103	110	-	6	5000
k	1076	50	20	111	70	20	16/24	4000
l	1011	25	28	54	26/45	8	4	1500
m	1010	50	51	88	85	8	6	5000

CARGO LASHINGS

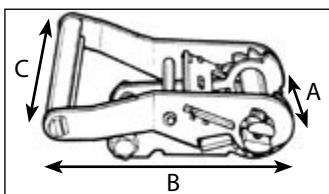
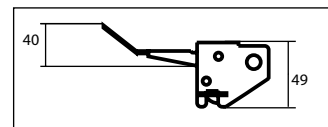


ONE WAY LASHINGS

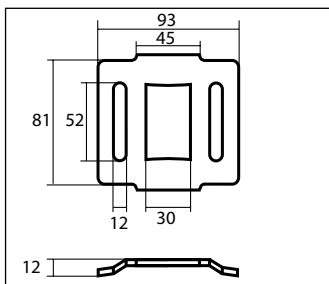
The One-Way Lashing System offers a high strength yet economic method of Lashing Cargo when conventional Lashing Systems cannot be retrieved at destination for re-use. The Tensioning tool (920) attaches to most Tensioners and is fast and easy to operate.



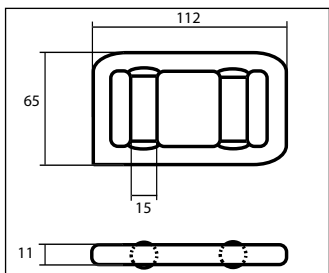
Tensioning Tool type 920
Suitable for mounting directly onto LOAD-LOK® Ratchet Types 811-911 .



Ratchet type 813 (not shown in photograph above)
With integrated mechanism to attach a strap without stitching. This ratchet can also be used as an Ergo Ratchet. Breaking strength 5000 daN.
Internal width (A) : 54 mm
Total length (B) : 235 mm
Handgrip width (C) : 100 mm



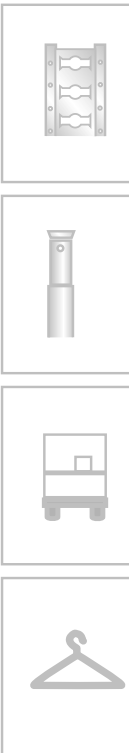
Buckle type 808
For 50 mm webbing type 1509-WI, standard length 100 m*.
Breaking strength 2300 daN.
*) Also available: Webbing length 250 m, delivered in an easy to carry PE bag.



Buckle type 809
For 38 mm webbing type 1516-OE.
Breaking strength 5000 daN.
Webbing, length 250 m, is delivered in an easy to carry PE bag.

Hook type 1020: see page 5.20.

CARGO LASHINGS



WINCHES

Art.no	A	B	C	D	E	F	Breaking Strength		
a 1820	60	277	100	10	158	195	7000 kg		
b 1890	80	167	100	10	228	84	5000 kg		
c 1860	60	207	90	10	140	124	7000 kg		
d 1860/100	106	207	90	10	140	124	7000 kg		

Art.no	ADDITIONAL EQUIPMENT
e 1802	Track for 1820 winch. Length: 1830mm, material thickness: 6 mm.
f 3703	Winch-bar. Length 785 mm.

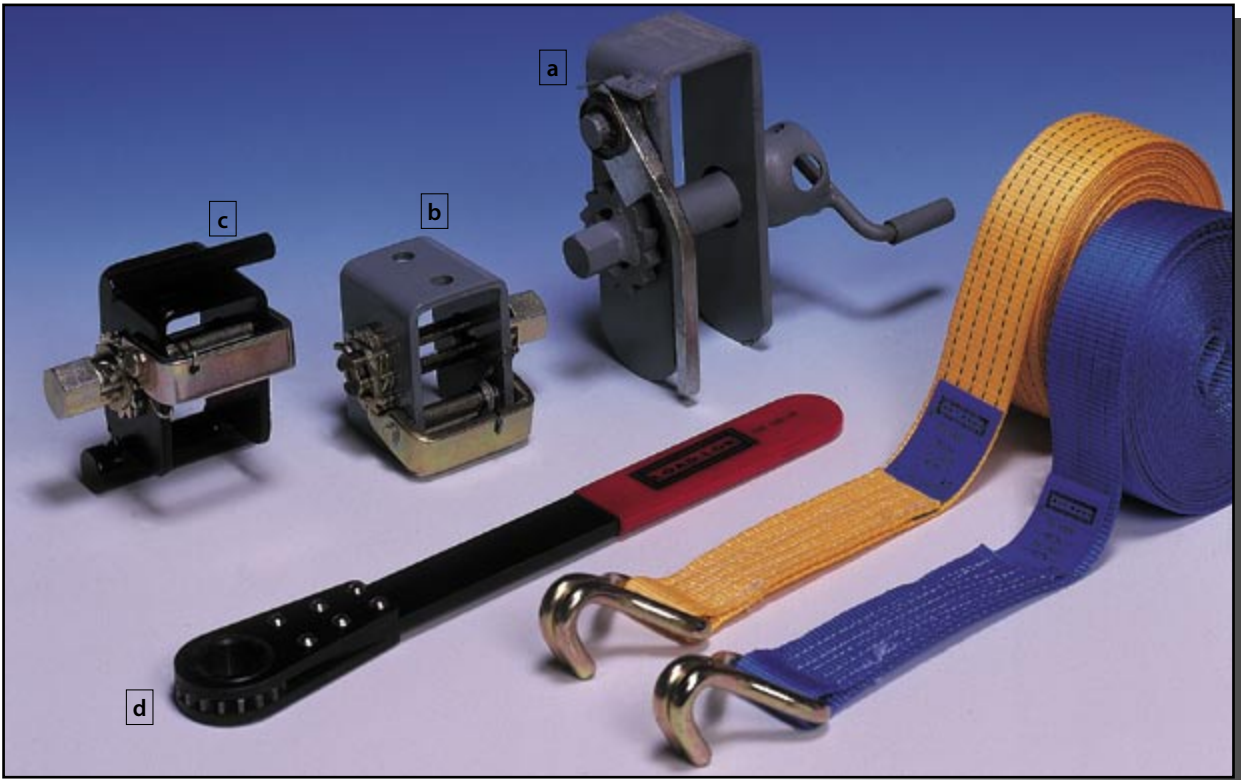
WINCH STRAPS (standard length 9 m)

Type	Webbing width	LC / BS (daN)*	
1505-1007	50 mm	1500/3000	3000/6000
1505-1065	50 mm	1600/4000	3200/8000
1505-3018	50 mm.	1600/4000	3200/8000
1506-1006	50 mm	2000/5000	4000/10000
1506-1065	50 mm	2000/5000	4000/10000
1506-3018	50 mm.	2000/5000	4000/10000
1510-1021	100 mm	3200/6500	6400/13000



*) In accordance with EN 12195-2: **LC = LASHING CAPACITY.** **BS = Breaking Strength.** See also page 5.27.

CARGO LASHINGS



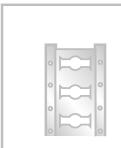
WINCHES

Art.no	A	B	C	D	E	F	Breaking Strength		
a 1885	50	225	70	7	200	56	5500 kg		
b 1880	53	125	70	6	103	52	5300 kg		
c 1883	53	125	70	6	140	52	5300 kg		

Art.no	ADDITIONAL EQUIPMENT
d 1881	Winch Ratchet Spanner for 28mm Hex. Nut. Total length 440 mm.
3703	Winch-bar. Length 785 mm. See page 5.20

WINCH STRAPS (standard length 9 m)

Type		Webbing width	LC / BS (daN)*	
	1505-1007	50 mm	1500/3000	3000/6000
	1505-1065	50 mm	1600/4000	3200/8000
	1505-3018	50 mm	1600/4000	3200/8000
	1506-1006	50 mm	2000/5000	4000/10000
	1506-1065	50 mm	2000/5000	4000/10000
	1506-3018	50 mm	2000/5000	4000/10000





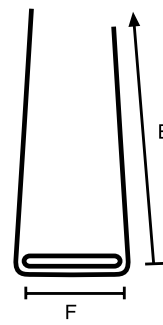
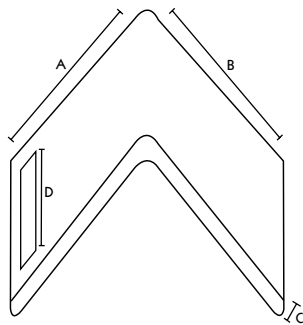
CARGO RESTRAINT SYSTEMS

CARGO LASHINGS



SLEEVES and CORNER PROTECTORS

Improved protection against the effects of sharp edges and abrasive surfaces.



Ref	Art. Nr.	Description	Material	Dimensions in mm					
				A	B	C	D	E	F
a	2200	Corner protector	Plastic Compound	95	95	3	65		
e	2201	Corner protector	Plastic Compound	95	95	3	116		
b	730012-C2R	Corner protector, especially for transportation of paper rolls in upright position	Plastic Compound	190	135	6	53		
c	730007	Corner protector Length 6 m	Plastic Compound	190	190	20			
d	2180 6050 RD 6035 RD	Anti abrasion sleeve Protection sleeve Protection sleeve	rubber polyester polyester					750	52 50 35





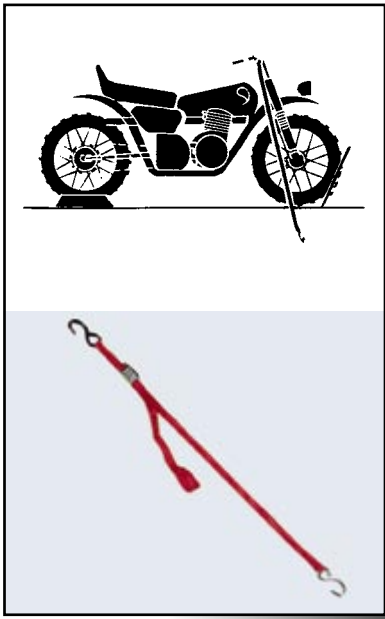
CARGO RESTRAINT SYSTEMS

CARGO LASHINGS



CAR LIFTING STRAP

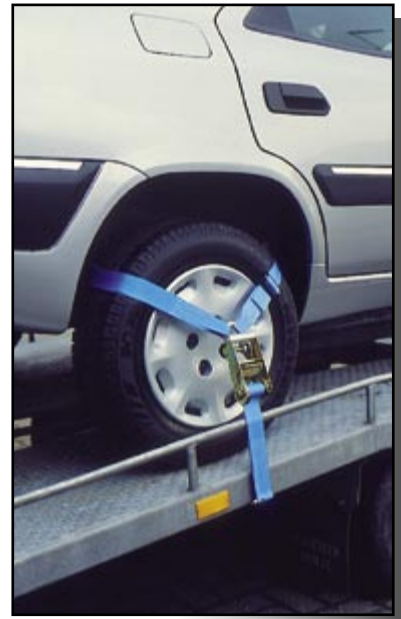
To lift cars on and off ships.
Webbing width: 50 mm
Standard length: 3.00 m
Hooks: 1007 or 1014
Adjusted using 806
B/S: 1800 daN



MOTOR TIE DOWN

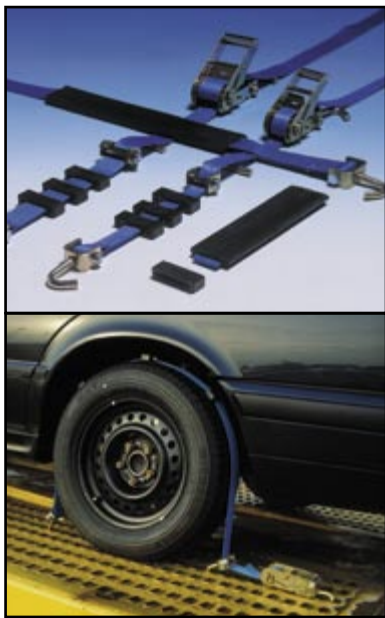
To tie down motor cycles on trailers.

Webbing width 25 mm
Standard length: 1.80 m
B/S: 550 daN



SECURING STRAPS FOR CAR TRANSPORTERS or RECOVERY VEHICLES

Webbing width 50 mm
Standard length: 2.00 m
Ratchet 910 hook 1007
Adjusted using 806
B/S: 2500 daN



LASHING FOR CAR TRANSPORTERS & RECOVERY VEHICLES

See page 5.7



ROPE TIE-OFFS

In combination with track if the use of ropes is preferred (e.g. Removal vans).
Webbing width 50 mm
End fittings: 1826/1823/1825
B/S: depends on fitting used.





CARGO RESTRAINT SYSTEMS

CARGO LASHINGS



WEBBING

Art. No	Width	Breaking strength	Standard colour*
POLYESTER WEBBING			
1500	35 mm	2750 daN	blue
1501	35 mm	3500 daN	orange
1502	25 mm	2000 daN	white / black / blue / green / red
1503	25 mm	1200 daN	white / black / blue / orange / red
1504	45 mm	3000 daN	grey / black / red / blue
1505	50 mm	5000 daN	white / black / blue / green / army green / yellow/ orange
1506	50 mm	6000 daN	white / grey / blue / green / army green / yellow/ orange / red
1508	50 mm	1800 daN	black
1509	50 mm	2300 daN	white
1510	100 mm	10000 daN	yellow
1511	50 mm	1800 daN	black
1512	25 mm	2750 daN	white
1513	75 mm	13500 daN	orange
1514	50 mm	4000 daN	white
1515	50 mm	7500 daN	red
1516	38 mm	5000 daN	orange
1517	25 mm	1500 daN	white
PVC COATED POLYESTER WEBBING			
1281	46 mm	1400 daN	white/black
1282	50 mm	2000 daN	white/black
1283	70 mm	2000 daN	white/black
1284	38 mm	1300 daN	white/black
POLYPROPYLENE WEBBING			
1504 PP	45 mm	1500 daN	black
1507	50 mm	1500 daN	black
1518	20 mm	-	black

*) Other colours can usually be supplied from stock. It is also possible to choose your own colour.

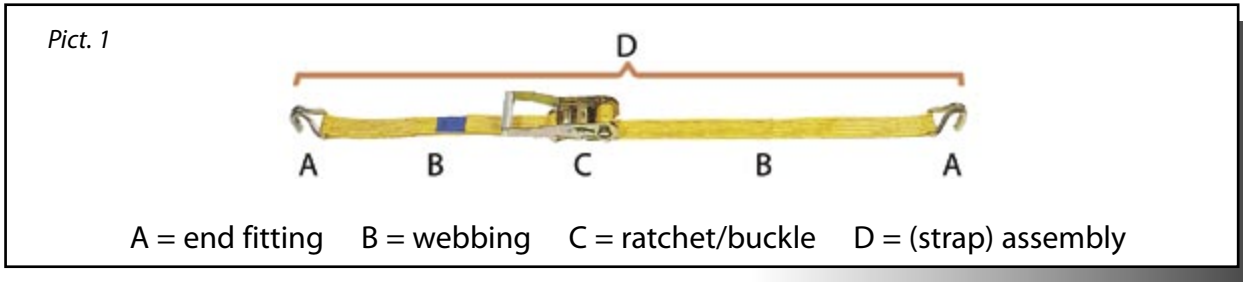
For weldable webbing we need a minimum order of 7000 m.

For orders of minimum 1000 m it is possible to print your name/logo on the webbing. This printing is covered by a wear-resistant coating on the webbing.

WARNING! After stitching there will be a loss in strength after conversion against the original value of the webbing. Please make sure all products are correctly type tested in accordance to the relevant EN Standard prior to use.

CARGO LASHINGS

EN 12195-2



INTRODUCTION TO THE EUROPEAN STANDARD FOR CARGO LASHINGS (EN 12195-2)

What has changed?

On January 1st 2001 a new standard came into force in the countries of the European Union: EN 12195-2. Before that date there was no uniformity in Europe as it came to the indication of a "strength" of a strap assembly. Almost every country in Europe had its own rules or even no rules in this field. In short: It was not always clear, except in countries like Great-Britain and Germany, how companies came to their "Breaking Strength" figures and what they exactly ment with those figures.

From January 1st 2001 there is an identical standard for every country in the EU regarding to the definition of lashing capacity of a strap assembly. For some countries in the EU, like Great-Britain and Germany, things did not change that much. But for most other EU countries two important features came from the new European Standard:

1. A built in **Safety Factor** for every component type of a strap assembly (pict. 1: A,B en C) was introduced;
2. This resulted in a new term: **Lashing Capacity**, indicating the "safe load capacity" of a strap assembly.

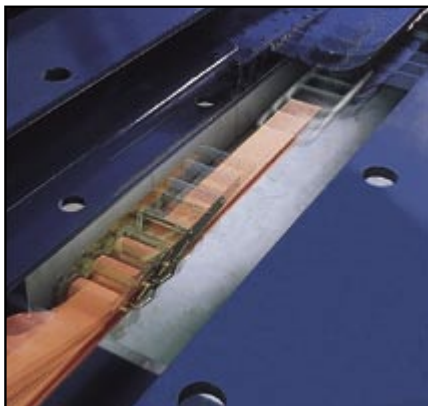
Which terms are used by LOAD-LOK® in Europe?

LOAD-LOK® is present in 9 countries of the European Union. It is obvious that the European LOAD-LOK® companies use the (English) terms and abbreviations from the EN 12195-2 standard: e.g.

BS = **Breaking Strength**

SF = **Safety Factor**

LC = **Lashing Capacity**



Pict. 2
A Breaking Strength test on a LOAD-LOK® test bench.

What do those abbreviations mean?

BS (Breaking Strength)

Breaking Strength is a well-known term. It defines the force (daN) needed to break a strap assembly (pict. 1: D) or a single component (pict. 1: A,B en C). Some times the new EN value for Breaking Strength will show the same figure as it had before January 1st 2001.

SF (Safety Factor)

The **Safety Factor** has been introduced to create a value considered to be safe. The Safety Factor for metal components is **2** (pict. 1: A en C), the one for webbing is **3** (pict. 1: B).

LC (Lashing Capacity)

Applying the Safety Factor on the components of a strap assembly results in "Safe Breaking Strength figures" for each strap component. The lowest value of those figures represents the Lashing Capacity with a built in safety factor: the Breaking Strength according to EN 12195-2.

An example (see also pict. 1):

The BS of component A (hook) is 5000 daN.

The 'safe value' for component A is $(5000 : 2 =) 2500$ daN.

The BS value for component B (webbing) is 6000 daN.

The 'safe value' for component B is $(6000 : 3 =) 2000$ daN.

The BS value for component C (ratchet) is 6000 daN.

The 'safe value' for component C is $(6000 : 2 =) 3000$ daN.

De LC (Lashing Capacity value results in 2000 daN (=the lowest 'safe value' of all components).

daN or kg?

According to the international S.I.-units system we should use "Newton" (N) as a unit to indicate forces (loads).

But: 10 Newton is about 1 kg.

Using daN (1 daN = 10N) makes it easier for us to compare the "new" (N) values with the "old" (kg) values.

